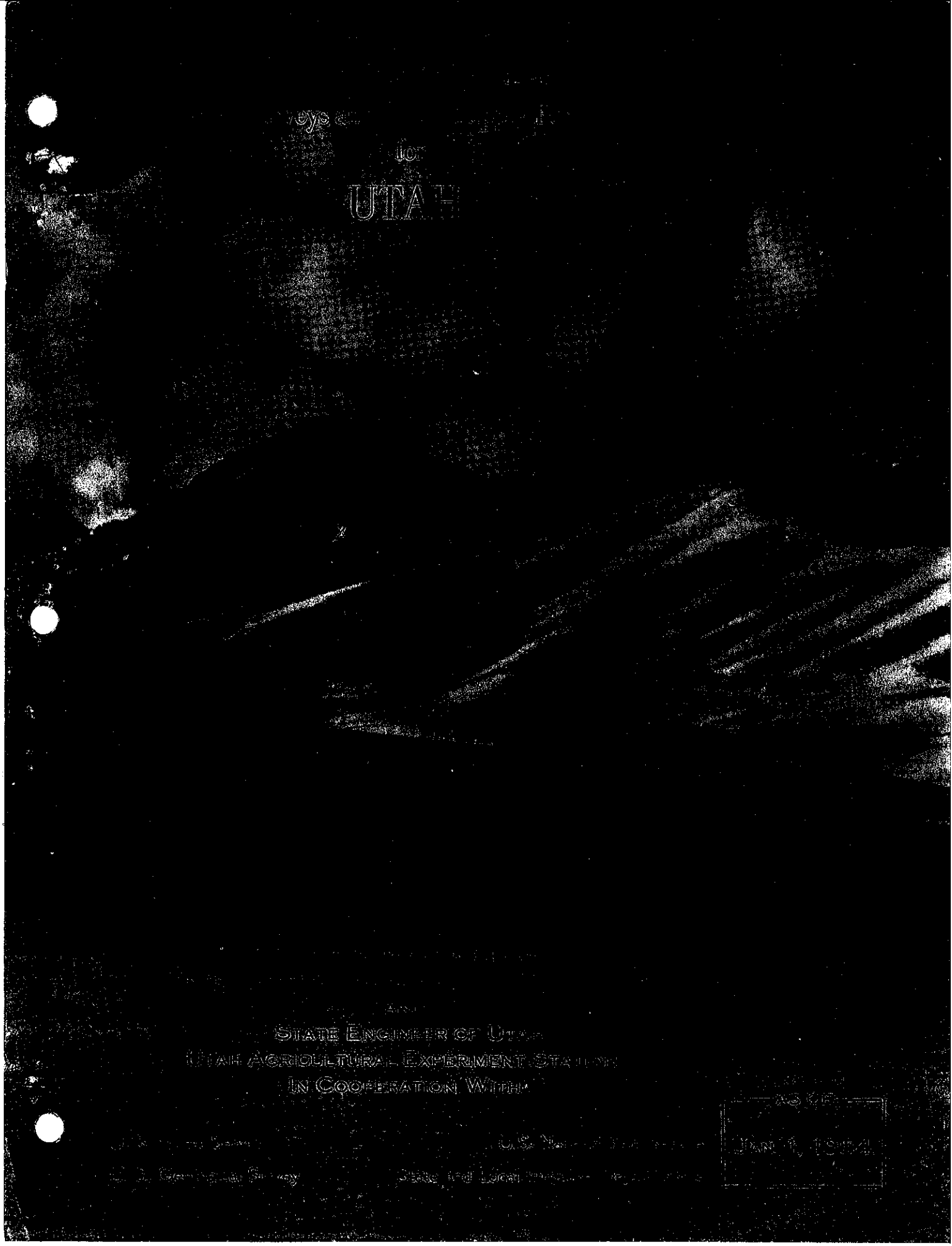
Surveys [illegible] for UTAH



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AND

STATE ENGINEER OF UTAH

UTAH AGRICULTURAL EXPERIMENT STATION

IN COOPERATION WITH

[illegible] U.S. [illegible]

U.S. Geological Survey State and Local [illegible]

AS OF

JANUARY [illegible]

FEDERAL - STATE COOPERATIVE

SNOW SURVEYS and WATER SUPPLY FORECASTS

for

U T A H

January 1, 1954

Report Prepared
by
Gregory L. Pearson - Hydraulic Engineer

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

Utah Agricultural Experiment Station Mimeographed Series No. 402

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

WATER SUPPLY OUTLOOK
FOR UTAH
JANUARY 1, 1954

* *

With the exception of a belt running from the American Fork area out to Daniels Canyon and the Strawberry valley, where the snowpack varies from 45 to 75% of average, all other parts of the Great Basin from Cache Valley south to Payson have a snowpack varying from 80 to 100% of average. The Price River has 75 to 85% of average on the higher snows, negligible low elevation snow. From Payson south to Ephraim it is 100 to 120% of average. In Southern Utah on the Sevier and Virgin Rivers and Coal Creek near Cedar City, the low and intermediate elevation snows vary from 0 to 15% of average, the higher snowpack from 50 to 70%.

* *

Relatively few key snow courses have been measured regularly on the first of January. These, with some additional measurements made on other courses give sufficient basis for making a fair estimate of the developing water supply prospects for next summer.

Practically all parts of the state entered the snow accumulation season with dry watershed soils, with the exception of the Price River area and southeastern Utah, where above normal rainfall occurred during October. At low and intermediate elevations sufficient melting has taken place during our mild fall and winter weather to partly overcome this deficiency.

In Cache Valley, the Logan and Blacksmith Fork rivers have a snowpack varying from 80 to 90% of average. To the south on the Weber River, the Smith and Morehouse course had essentially 90% of average. On Chalk Creek above Coalville, although the snow courses have only a short record, it appears that the snowpack is average or above.

On the upper Provo river, the Soapstone R. S. course has a water content that appears to be about 90% of average. Smaller tributaries of the Provo river from Heber City to Provo and the American Fork river area have less snow, showing only 70 to 75% of average.

Snow cover in the Strawberry valley is only 45 to 70% of average.

Although the Payson Ranger Station snow course has not been measured previously on the first of January, based on the per cent of the April 1st water content of the snow that has normally accumulated by January 1, snow cover here is essentially average. On the same basis, the courses above Ephraim show a water content varying from 100 to 120% of average.

In southern Utah, the Widtsoe-Escalante Summit course on the east fork of the Sevier river shows 71% of its 15-year January 1 average. This is the same amount that it had in 1950. On the main fork of the Sevier river, the Virgin river and Coal Creek near City, the courses have not been measured regularly on January 1, but on the basis explained above for the Payson R.S., they appear to have from 0 to 15% of average for the low and intermediate elevation snow, and from 50 to 65% of average on the higher snows.

Since at this time of year approximately 60 to 65% of the average year's snowpack is still to come, the water supply prospect may change considerably either up or down as the winter's snow accumulates.

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1953	1952	Average	Years Of Record
				GREAT BASIN DRAINAGE					
Bear River System									
Franklin Basin (Ida.)	1	8200	1-2	30.1	8.7	—	—	11.1	1
Tony Grove R.S.	3	6250	12-31	17.9	4.2	4.5	—	3.9	2
Spring Hollow (lower)	4	7000	12-30	22.8	5.1	3.8	9.6	5.6	28
Spring Hollow (upper)	5	8000	12-30	31.9	7.6	5.3	15.1	9.1	29
Mt. Logan	6	9000	12-30	31.8	8.7	6.0	17.8	10.6	29
Garden City Summit	9	8000	12-31	22.0	5.8	5.0	—	8.4	3
Klondike Narrows	91	7400	1-2	23.8	6.5		New Course		
Weber-Ogden Rivers									
Parley's Canyon Summit	15	7500	1-6	22.9	6.3	**	**	**	
Silver Lake*	16	8725				7.3	17.3	10.4	18
Beaver Creek R.S.	24	7500	1-4	13.3	3.0	**	**	**	
Smith and Morehouse	30	7600	12-29	20.8	4.5	**	**	**	
Mt. Ogden	74	8600	1-5	20.9	6.3	**	**	**	
Snow Basin #2	74A	6500	1-5	16.2	3.8		New Course		
Chalk Creek #1	78	8200	1-1	25.8	6.9	**	**	**	
Chalk Creek #3	90	7500	12-30	15.0	3.0	**	**	**	
Jordan River and Great Salt Lake									
Lamb's Canyon	14	6600	No January Report			—	—	6.1	5
Silver Lake	16	8720	1-6	26.6	8.5	7.3	17.3	10.4	18
Mill D. South Fork	16A	7400	1-7	27.7	7.6	**	**	**	
Farmington Canyon (lower)	32	6950	12-29	29.6	6.8	8.9	—	9.1	2
Provo River and Utah Lake									
Timpanogas Cave Camp	18	5500	1-1	7.1	1.4	—	5.5	3.0	9
South Fork R.S.	19	6100	1-1	12.4	3.7	3.9	8.4	4.6	12
Camp Altamont	20	7300	1-1	18.2	5.3	5.7	12.6	7.1	18
Timpanogas Divide	21	8200	1-1	24.0	7.5	7.1	18.2	10.1	18
Daniels-Strawberry Summit	23	8000	12-30	18.2	3.5	3.7	10.3	5.1	22
Soapstone R.S.	25	7800	1-4	20.6	4.5	—	—	5.4	1
East Portal	33	7560	12-30	15.6	2.1	4.3	11.3	4.9	15
Strawberry Divide	33A	8000	12-30	26.5	5.0	5.7	16.9	8.8	14

* On adjacent drainage
** No previous Jan. 1 measurements

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1953	1952	Average	Years of Record
GREAT BASIN DRAINAGE									
Provo River and Utah Lake - Cont'd.									
Payson R. S.	68	8050	12-28	27.6	7.5	--	--	4.7	1
Rock Bridge	68A	6750	12-28	21.5	5.3		New Course		
Sevier River									
G.B.R.C. Headquarters	45	8700	12-30	27.5	6.6	--	--	5.1	13
G.B.R.C. Meadows	46	10000	12-30	43.7	12.1	--	--	10.0	2
Widtsoe-Escalante Summit	53	9500	1-5	8.8	2.2	4.1	6.8	3.1	15
Widtsoe-Escalante #2	53A	9500	1-5	14.6	3.5	4.5	8.1	4.2	3
Long Valley Jct.	56	7500	1-4	0.0	0.0	**	**	**	
Harris Flat R. S.	57	7700	1-4	1.0	0.1	--	--	3.2	1
Duck Creek R. S.	58	8560	1-4	6.0	1.0	--	--	3.8	1
Cedar Breaks	59	10390	12-30	21.2	6.5	--	--	5.6	1
Coal Creek									
Cedar Breaks	59	10390	12-30	21.2	6.5	--	--	5.6	1
Webster Flat	61	9200	12-30	15.5	3.3	**	**	**	
COLORADO RIVER DRAINAGE									
Duchesne River									
Indian Canyon	40	9100	1-4	15.2	3.6	3.2	11.1	4.4	14
Price River									
Indian Canyon	40	9100	1-4	15.2	3.6	3.2	11.1	4.4	14
Staley Ranch	42A	7600	12-29	trace		2.8	--	3.0	7
Dry Valley Divide	42B	7800	12-29	trace		3.2	--	3.6	7
Mud Creek	77	8600	12-29	17.0	3.9	5.3	--	5.3	1
San Rafael River									
G.B.R.C. Meadows*	46	10000	12-30	43.7	12.1	--	--	10.0	2
Virgin River									
Long Valley Jct.	56	7500	1-4	0.0	0.0	**	**	**	
Harris Flat R. S.	57	7700	1-4	1.0	0.1	--	--	3.2	1
Duck Creek R. S.	58	8560	1-4	6.0	1.0	--	--	3.8	1
Cedar Breaks	59	10390	12-30	21.2	6.5	--	--	5.6	1
Webster Flat	61	9200	12-30	15.5	3.3	**	**	**	

* On adjacent drainage. ** No previous Jan. 1 measurements.

INDEX OF SNOW COURSE LOCATIONS

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
GREAT BASIN DRAINAGE					
Bear River System					
Franklin Basin (Idaho)	1	1&12	16S[x]	41E[x]	8200
Emigrant Summit (Idaho)	1A	21	12S[x]	42E[x]	7700
Slug Creek Divide (Idaho)	1B	10&15	10S[x]	44E[x]	7300
Salt River Summit (Wyoming)	1C	32	29N	118W*	7900
Poison Meadows (Wyoming)**	1D	29	30N	116W*	8500
Snyder Basin R. S. (Wyoming)**	1E	15	29N	114W*	8040
Piney-LaBarge**	1F	19	29N	114W*	8820
Tony Grove Lake	2	5	13N	3E	8200
Tony Grove R. S.	3	11	13N	3E	6250
Spring Hollow (lower)	4	26	12N	2E	7000
Spring Hollow (upper)	5	35	12N	2E	8000
Mt. Logan	6	3	11N	2E	9000
Garden City Summit	9	34	14N	4E	8000
Head of Bear River	10	15	2N	10E	8600
Goodman Ranch	10A	19	3N	10E	7900
Monte Cristo	12	3	8N	4E	8960
Lost Lake**	28	33	1S	9E	9900
Girl Hollow	81	5	7N	5E	8400
Machine Crossing	84	1	1S	9E	9300
Big Park (Wyoming)	85	7	27N	117W*	8700
Kelly Ranger Station (Wyoming)	86	13	26N	118W*	8200
Klondike Narrows	91	10	14N	3E	7400
Weber-Ogden Rivers					
Monte Cristo	12	3	8N	4E	8960
Dry Bread Pond	12A	19	8N	4E	8230
Parley's Canyon Summit	15	9&10	1S	3E	7500
Silver Lake**	16	35	2S	3E	8725
Beaver Creek R. S.	24	28	2S	7E	7500
Trial Lake**	26	5	2S	9E	9800
Smith & Morehouse	30	25	1N	7E	7600
Redden Mine (upper)	31	1	2S	6E	9000
Redden Mine (lower)	31A	1	2S	6E	8500
Mt. Ogden	74	5	5N	1E	8600
Snow Basin	74A	32	6N	1E	6500
Chalk Creek #1	78	17&20	2N	8E	8200
Chalk Creek #2	79	4	1N	8E	9100
Chalk Creek #3	90	7	2N	8E	7500
Horse Ridge	80	1	6N	4E	8260
Girl Hollow	81	5	7N	5E	8400
Ben Lomond Peak	82	3	7N	1W	8000
Ben Lomond (lower)	82A	1	7N	1W	6000
Beaver Creek-Skunk Creek	89	22	8N	3E	7150
Sagebrush Flat	89A	21	7N	3E	6300

** On adjacent drainage. * 6th Principal Meridian. [x] Boise Meridian.

INDEX OF SNOW COURSE LOCATIONS

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
GREAT BASIN DRAINAGE					
Jordan River & Great Salt Lake					
Barnard Creek	13A	34	3N	1E	8000
Lamb's Canyon	14	19	1S	3E	6600
Silver Lake	16	35	2S	3E	8720
Mill D. South Fork	16A	18	2S	3E	7400
Farmington Canyon (lower)	32	14	3N	1E	6950
Farmington Canyon (upper)	32A	26	3N	1E	8000
Provo River & Utah Lake					
Dutchman R. S.	17	27	3S	3E	7500
Timpanogas Cave Camp	18	27	4S	2E	5500
South Fork R. S.	19	24	4S	2E	6100
Camp Altamont	20	29	4S	3E	7300
Timpanogas Divide	21	33	4S	3E	8200
Hobble Creek Summit	22	20	7S	5E	7300
Daniels-Strawberry Summit	23	20	2S[x]	12W[x]	8000
Soapstone R. S.	25	9	3S	2E	7800
Trial Lake	26	5	2S	9E	9800
Washington-Long Lake	27	1	2S	8E	10300
Lost Lake	28	33	1S	9E	9900
East Portal	33	36	7S	6E	7560
Strawberry Divide	33A	34&35	7S	6E	8000
Payson R. S.	68	30	10S	3E	8050
Rock Bridge	68A	14	10S	2E	6750
Mt. Nebo	88	28&29	11S	2E	9060
Sevier River					
Gooseberry Reservoir	41	25	12S	5E	8700
Mammoth R. S. - Cottonwood Creek	42	13&23	13S	5E	8800
Huntington-Horseshoe	43	12	14S	5E	9800
G.B.R.C. Headquarters	45	21	17S	4E	8700
G.B.R.C. Meadows	46	26&27	17S	4E	10000
Seeley Creek R. S. #2**	48A	25	17S	4E	10000
Pine Creek-Chalk Creek	49	14	22S	4W	8500
Pine Creek	49A	24	22S	4W	8700
Bear Canyon	49B	17	22S	3W	7200
Gooseberry R. S.	50	32	23S	2E	8400
Farnsworth Lake	50A	27&33	23S	2E	9900
Fish Lake	51	35	26S	1E	8700
Kimberly Mine	52A	11	27S	5W	8900
Widtsoe-Escalante Summit	53	22	34S	1W	9500
Widtsoe-Escalante #2	53A	22	34S	1W	9500
Bryce Canyon	54	36	36S	4W	8000
Panguitch Lake	55	4&5	36S	7W	8200

** On 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 - Cont'd					
Long Valley Junction*	56	22	38S	6W	7500
Harris Flat R. S.	57	24	38S	7W	7700
Duck Creek R. S.	58	11	38S	8W	8560
Cedar Breaks	59	2	37S	9W	10390
Big Flat**	63B	18	29S	4W	10000
Mt. Baldy R. S.	87	19	19S	4E	9500
Beaver Dams	87A	27	19S	3E	8000
Beaver River					
Merchants Valley	63	8&9	29S	5W	8200
Otter Lake	63A	1	29S	5W	9300
Big Flat	63B	18	29S	4W	10000
Coal Creek					
Cedar Breaks	59	2	37S	9W	10390
Webster Flat	61	20	37S	9W	9200
COLORADO RIVER DRAINAGE					
Upper Green River					
Hewinta R. S.	34	33	3N	13E	9500
Hole in The Rock	35	13	2N	15E	9150
Middle Beaver Creek	35A	31	3N	16E	8550
Hole in The Rock R. S.	35B	32	3N	16E	8300
King's Cabin (upper)	39	22	1S	21E	8800
King's Cabin (lower)	39A	23&26	1S	21E	8600
Duchesne River					
Lost Lake	28	33	1S	9E	9900
Lakefork Mountain	36	2&3	2N[x]	5W[x]	10500
Lakefork Mountain #2	36A	17	2N[x]	4W[x]	8900
Lakefork Mountain #3	36B	29	2N[x]	4W[x]	8100
Paradise Park	37	7	3N[x]	1E[x]	10500
Mosby Mountain (lower)	38A	5	2N[x]	1E[x]	9500
Indian Canyon	40	2	11S	10E	9100
Brown Duck Lake	73	2	2N[x]	6W[x]	10300
Daniels-Strawberry Summit**	23	20	2S[x]	12W[x]	8000
East Portal**	33	36	7S	6E	7560
Strawberry Divide**	33A	34&35	7S	6E	8000
Price River					
Indian Canyon	40	2	11S	10E	9100
Gooseberry Reservoir	41	25	13S	5E	8700

** On adjacent drainage.
* Previously shown as Gravel Springs Junction.
[x] Uinta Base and Meridian.

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
COLORADO RIVER DRAINAGE					
Price River - Cont'd.					
Mammoth R. S. - Cottonwood Creek	42	13&23	13S	5E	8800
Staley Ranch	42A	32	12S	7E	7600
Dry Valley Divide	42B	20	12S	8E	7800
Huntington-Horseshoe	43	12	14S	5E	9800
Scofield Dam	76	22	12S	11W	9000
Mud Creek	77	4	14S	11W	8600
San Rafael River					
Huntington-Horseshoe	43	12	14S	5E	9800
Seeley Creek R. S.	48A	25	17S	4E	10000
G.B.R.C. Meadows**	46	26&27	17S	4E	10000
Muddy River					
Black Fork	69A	34	20S	4E	9200
Dill's Camp	69B	27	20S	4E	9200
Mt. Baldy R. S.**	87	19	19S	4E	9500
Virgin River					
Long Valley Junction	56	22	38S	6W	7500
Harris Flat R. S.	57	24	38S	7W	7700
Duck Creek R. S.	58	11	38S	8W	8560
Cedar Breaks	59	2	37S	9W	10390
Webster Flat	61	20	37S	9W	9200
Pine Valley	62	3	40S	15W	9150
Lower Colorado River					
LaSal Mountain	64	5	27S	24E	8800
Buckboard Flat	65	36	33S	22E	9000

** On adjacent drainage.

x Uinta Base and Meridian.

FEDERAL - STATE COOPERATIVE

SNOW SURVEYS and WATER SUPPLY FORECASTS

for

U T A H

February 1, 1954

Report Prepared

by

Gregory L. Pearson - Hydraulic Engineer

Soil Conservation Service
United States Department of Agriculture
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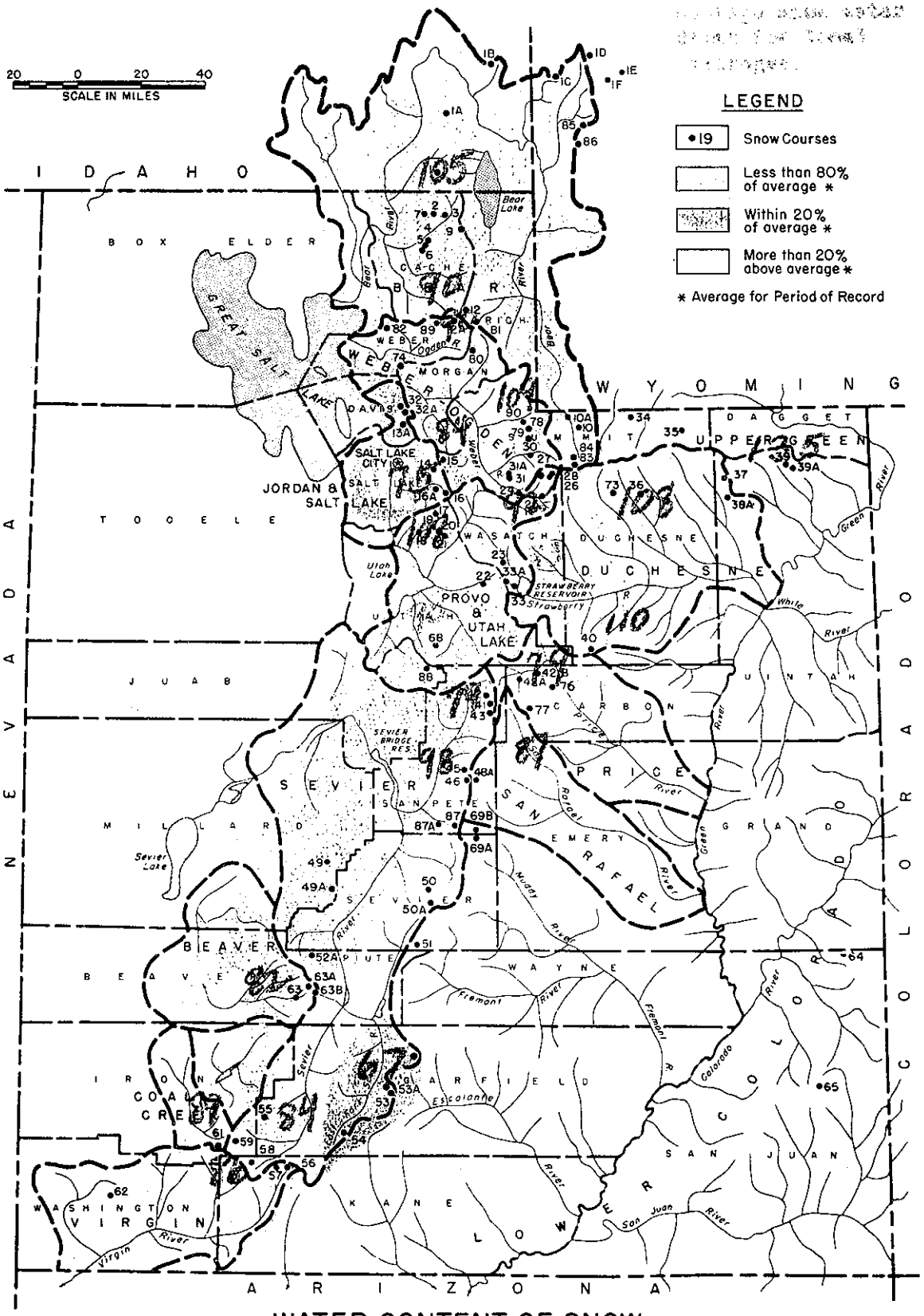
Utah Agricultural Experiment Station Mimeographed Series No. 403



WATER CONTENT OF SNOW
Based on Snow Surveys Made on UTAH WATERSHEDS

FEB 1 1954

AGR-SCS-ALBUQUERQUE, N. MEX. M-93-2 JANUARY 1952

WATER SUPPLY OUTLOOK
FOR UTAH
FEBRUARY 1, 1954

Snow cover on most of Utah's watersheds is within 20 percent of average. Exceptions to this occur on the streams of the Wasatch front from just south of Salt Lake City northward to the Ogden area, in southern Utah on the Escalante and East Fork of the Sevier River where it varies from 67 to 75 percent of average and in the Uintah Basin on the Whiterocks River and Ashley Creek where it is 135 percent of average. Reservoir holdover storage is 60 percent of capacity. This compares with 48 percent of capacity for the 1942-51 ten year average.

The storms which came the last of January materially improved what was beginning to appear as a definite water supply shortage. They particularly improved the water supply prospects on Coal Creek near Cedar City, the Virgin and Main Fork Sevier Rivers in southern Utah, the Strawberry Valley drainage and the streams of the Uintah Basin.

The snowpack on Coal Creek, Virgin and Main Fork Sevier Rivers now varies from 84 to 89% of average. On the Beaver River near Beaver, Utah it is 82% of average. The East Fork of the Sevier River, however, is still about the same as a month ago, having a snowpack which is 67% of average.

Storage in Otter Creek reservoir on the East Fork of the Sevier River is also down, having 57% of the ten year average storage and 38% of capacity. Piute and Sevier Bridge reservoirs on the main Sevier river have respectively 68 and 80% of their ten year average storage and 41 and 57% of capacity. Rocky Ford reservoir on the Beaver River has 60 and 42% of its ten year average storage and of capacity.

In Cache Valley, the Logan and Cub rivers have a snowpack of 105% of average, the Blacksmith Fork and Little Bear rivers 90 to 95%. On the Ogden river, although there is a poor snow cover in the vicinity of Ogden, the snowpack on the South Fork where most of the water comes from is 90% of average.

On the Weber river, snow cover varies from 75 to 109% of average. The Soapstone Ranger Station on the Provo river has 92%.

The streams draining into the Uintah Basin have a snow cover varying from 83% on the Strawberry river to about 110% on the Lake Fork river and Indian Creek, increasing to 135% on the Whiterocks river and Ashley Creek near Vernal.

Snow cover on the American Fork river is 108% of average, and on the small streams coming from Mt. Nebo it is 90%. On the Price river and the tributaries of the San Pitch near Mt. Pleasant it is about 80%. On Ephraim Creek in the middle San Pitch it averages 98%. The San Rafael river averages 87%.

Since approximately another 40% of the average season's snowpack is yet to come during February and March, a considerable change may yet take place in the water supply prospects for next summer. A preliminary irrigation season water supply forecast will be issued next month, when about 80% of the snowpack will have accumulated.

STATUS OF RESERVOIR STORAGE FEBRUARY 1, 1954

BASIN and STREAM	RESERVOIR	USABLE CAPACITY (1000 OF ACRE FT.)	THOUSAND ACRE FEET IN STORAGE FEBRUARY FIRST 1954	1953	1952	1951	10-Yr. Avg. 1942 - 51
Bear River System							
Bear River	Bear Lake	1421.0	868.9	1007.2	1010.1	1077.0	734.3
Little Bear River	Hyrum	15.3	10.4	15.0	10.3	10.3	10.2
Weber-Ogden Rivers							
Ogden River	Pine View	43.6	0.8	11.9	3.8	17.9	7.2
Weber River	East Canyon	28.7	13.2	14.6	14.6	16.1	17.9
Weber River	Echo	73.9	30.1	40.2	38.3	43.7	24.7
Provo River and Utah Lake							
Provo River	Deer Creek	149.7	89.1	126.6	117.1	128.0	71.4
Spanish Fork River	Strawberry*	270.0	192.4	221.9	123.5	113.6	76.0
Utah Lake	Utah Lake	1149.0	734.6	945.2	718.1	645.5	498.6
Sevier River System							
Sevier River	Otter Creek	52.5	19.9	42.3	14.0	22.9	34.9
Sevier River	Piute	74.0	30.7	53.7	25.4	30.0	45.0
Sevier River	Sevier Bridge	236.0	133.4	191.6	52.0	105.8	166.1
Beaver River							
Beaver River	Rocky Ford	23.3	9.9	18.0	9.9	8.5	16.6
Duchesne River							
Lake Fork River	Moon Lake	35.8	10.3	No Report		17.4	14.6
Price River							
Price River	Scofield	65.8	32.0	33.6	30.2	29.3	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.

UTAH SNOW SURVEYS FEBRUARY 1, 1954

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1953	1952	Average	Years of Record
GREAT BASIN DRAINAGE									
Bear River System									
Franklin Basin (Ida)	1	8200	1-29	52.2	16.1	--	--		
Salt River Summit (Wyo)	1C	7900	2-1	39.0	10.5	10.8	13.1	12.3	4
Tony Grove R.S.	3	6250	2-1	29.4	8.1	7.5	--	7.0	5
Spring Hollow (lower)	4	7000	1/30	41.6	10.3	8.9	17.6	9.2	29
Spring Hollow (upper)	5	8000	1-30	60.2	15.2	15.3	27.4	14.3	29
Mt. L ogan	6	9000	1-30	61.8	18.3	18.2	30.0	17.3	29
Garden City Summit	9	8000	2-1	44.1	12.3	11.0	--	13.1	7
Dry Bread Pond*	12A	8230	1-30	43.0	11.3	10.6	--	10.6	1
Klondike Narrows	91	7400	1-29	42.2	11.7		New Course		
Weber-Ogden Rivers									
Dry Bread Pond	12A	8230	1-30	43.0	11.3	10.6	--	10.6	1
Parley's Canyon Summit	15	7500	2-3	30.7	9.2	12.2	--	11.5	3
Silver Lake*	16	8725	1-27	47.0	12.0	14.5	23.8	15.3	19
Beaver Creek R.S.	24	7500	1-25	25.0	5.0	--	--	7.2	3
Smith & Morehouse	30	7600	1-26	29.4	5.9	--	--		
Mt. Ogden	74	8600	1-29	39.2	11.0	20.6	--	22.8	2
Snow Basin #2	74A	6500	1-29	36.5	9.3		New Course		
Chalk Creek #1	78	8200	1-27	40.7	9.8	--	--		
Chalk Creek #3	90	7500	1-27	23.4	4.7	--	--		
Beaver Creek-Skunk Creek	89	7150	1-28	41.3	8.9	7.8	--	7.8	1
Sagebrush Flat	89A	6300	1-28	19.5	4.3	4.4	--	4.4	1
Jordan River & Great Salt Lake									
Lamb's Canyon	14	6600	1-29	31.5	8.2	8.9	--	9.5	8
Parley's Canyon Summit*	15	7500	2-3	30.7	9.2	12.2	--	11.5	3
Silver Lake	16	8720	1-27	47.0	12.0	14.5	23.8	15.3	19
Mill D. South Fork	16A	7400	1-28	37.1	9.2	12.7	--	12.7	1
Farmington Canyon (lower)	32	6950	1-28	36.1	9.7	17.7	25.4	20.6	3

* On Adjacent Drainage

UTAH SNOW SURVEYS FEBRUARY 1, 1954

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1953	1952	Average	Years of Record
Provo River & Utah Lake									
Timpanogas Cave Camp	18	5500	1-30	4.5	1.7	0.0	8.4	4.5	11
South Fork R.S.	19	6100	1-31	14.8	4.9	6.2	12.3	6.5	16
Camp Altamont	20	7300	1-30	37.2	12.4	10.3	21.5	12.0	19
Timpanogas Divide	21	8200	1-30	60.2	18.8	14.5	29.8	16.6	19
Daniels-Strawberry Summit	23	8000	1-28	40.0	9.7	7.6	20.2	9.4	23
Soapstone R.S.	25	7800	1-25	36.2	7.0	—	—	5.7	3
East Portal	33	7560	1-29	25.3	6.2	9.0	21.6	8.4	18
Strawberry Divide	33A	8000	1-29	38.7	10.0	11.6	30.9	13.7	18
Payson R.S.	68	8050	2-1	34.8	10.8	--	--		
Rock Bridge	68A	6750	2-1	23.6	6.9	--	--		
Sevier River									
Gooseberry Reservoir	41	8700	2-2	32.8	9.3	12.0	27.8	16.1	3
Huntington-Horseshoe	43	9800	2-2	34.9	11.0	15.6	31.1	22.1	3
G.B.R.C. Headquarters	45	8700	2-1	36.5	8.9	--	18.5	9.2	15
G.B.R.C. Meadows	46	10000	2-1	47.6	15.0	—	29.8	19.5	3
Gooseberry R.S.	50	8400	No Report			—	—	3.9	1
Farnsworth Lake	50A	9900	No Report			—	—	7.6	1
Widtsoe-Escalante Summit	53	9500	1-27	15.5	3.6	4.4	8.6	5.4	16
Widtsoe-Escalante #2	53A	9500	1-27	21.9	5.0	5.0	10.9	5.8	3
Bryce Canyon	54	8000	1-24	8.9	2.2	5.2	—	4.1	4
Panguitch Lake	55	8200	1-28	13.4	2.6	--	7.8	7.8	1
Long Valley Jct.	56	7500	No Report			--	10.3	6.6	3
Harris Flat R.S.	57	7700	1-30	22.6	6.2	--	14.2	7.2	8
Duck Creek R.S.	58	8560	1-30	32.2	8.2	--	21.9	10.2	10
Cedar Breaks	59	10390	1-28	46.6	12.9	--	25.2	13.8	9
Big Flat*	63B	10000	1-29	46.0	11.1	8.8	18.7	11.3	4
Beaver River									
Merchants Valley	63	8200	1-29	21.9	5.2	5.5	9.4	6.1	4
Otter Lake	63A	9300	1-29	38.4	8.6	7.7	14.9	9.1	4
Big Flat	63B	10000	1-29	46.0	11.1	8.8	18.7	11.3	4

* On Adjacent Drainage

UTAH SNOW SURVEYS FEBRUARY 1, 1954

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1953	1952	Average	Years of Record
Coal Creek									
Cedar Breaks	59	10390	1-28	46.6	12.9	—	25.2	13.8	9
Webster Flat	61	9200	1-28	42.4	10.2	7.9	22.2	15.1	2
COLORADO RIVER DRAINAGE									
Duchesne River									
Lakefork Mountain	36	10500	1-28	34.3	6.8	5.8	14.2	6.9	3
Lakefork Mountain #2	36A	8900	1-28	30.6	5.5	4.8	—	4.8	1
Lakefork Mountain #3	36B	8100	1-28	30.9	5.0	3.6	—	3.6	1
Paradise Park	37	10500	2-2	37.5	9.5	—	—	4.9	1
Mosby Mountain (Lower)	38A	9500	2-2	32.6	8.2	—	—	4.7	1
Indian Canyon	40	9100	1-27	33.7	7.4	4.5	16.0	6.7	18
East Portal*	33	7560	1-29	25.3	6.2	9.0	21.6	8.4	18
Strawberry Divide*	33A	8000	1-29	38.7	10.0	11.6	30.9	13.7	18
Daniels Strawberry*	23	8000	1-28	40.0	9.7	7.6	20.2	9.4	23
Price River									
Indian Canyon	40	9100	1-27	33.7	7.4	4.5	16.0	6.7	18
Gooseberry Reservoir	41	8700	2-2	32.8	9.3	12.0	27.8	16.1	3
Staley Ranch	42A	7600	1-29	14.3	3.2	4.9	12.8	5.8	12
Dry Valley Divide	42B	7800	1-29	26.9	5.3	6.4	16.4	7.3	18
Huntington-Horseshoe	43	9800	2-2	34.9	11.0	15.6	31.1	22.1	3
Mud Creek	77	8600	1-29	30.8	7.5	9.0	27.8	13.8	4
San Rafael River									
Huntington-Horseshoe	43	9800	2-2	34.9	11.0	15.6	31.1	22.1	3
G.B.R.C. Meadows*	46	10000	2-1	47.6	15.0	—	29.8	19.5	3
Virgin River									
Long Valley Jct.	56	7500	No Report			—	10.3	6.6	3
Harris Flat R.S.	57	7700	1-30	22.6	6.2	—	14.2	7.2	8
Duck Creek R.S.	58	8560	1-30	32.2	8.2	—	21.9	10.2	10
Cedar Breaks	59	10390	1-28	46.6	12.9	—	25.2	13.8	9
Webster Flat	61	9200	1-28	42.4	10.2	7.9	22.2	15.1	2

* 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 System					
Franklin Basin (Idaho	1	1&12	16S[x]	41E[x]	8200
Emigrant Summit (Idaho)	1A	21	12S[x]	42E[x]	7700
Slug Creek Divide (Idaho)	1B	10&15	10S[x]	44E[x]	7300
Salt River Summit (Wyoming)	1C	32	29N	118W*	7900
Poison Meadows (Wyoming)**	1D	29	30N	116W*	8500
Snyder Basin R.S. (Wyoming)**	1E	15	29N	114W*	8040
Piney-LaBarge**	1F	19	29N	114W*	8820
Tony Grove Lake	2	5	13N	3E	8200
Spring Hollow (lower)	4	26	12N	2E	7000
Spring Hollow (upper)	5	35	12N	2E	8000
Mt. Logan	6	3	11N	2E	9000
Garden City Summit	9	34	14N	4E	8000
Head of Bear River	10	15	2N	10E	8600
Goodman Ranch	10A	19	3N	10E	7900
Monte Cristo	12	3	8N	4E	8960
Lost Lake**	28	33	1S	9E	9900
Girl Hollow	81	5	7N	5E	8400
Machine Crossing	84	1	1S	9E	9300
Big Park (Wyoming)	85	7	27N	117W*	8700
Kelly Ranger Station (Wyoming)	86	13	26N	118W*	8200
Klondike Narrows	91	10	14N	3E	7400
Weber-Ogden Rivers					
Monte Cristo	12	3	8N	4E	8960
Dry Bread Pond	12A	19	8N	4E	8230
Parley's Canyon Summit	15	9&10	1S	3E	7500
Silver Lake**	16	35	2S	3E	8725
Beaver Creek R.S.	24	28	2S	7E	7500
Trial Lake**	26	5	2S	9E	9800
Smith & Morehouse	30	25	1N	7E	7600
Redden Mine (upper)	31	1	2S	6E	9000
Redden Mine (lower)	31A	1	2S	6E	8500
Mt. Ogden	74	5	5N	1E	8600
Snow Basin	74A	32	6N	1E	6500
Chalk Creek #1	78	17&20	2N	8E	8200
Chalk Creek #2	79	4	1N	8E	9100
Chalk Creek #3	90	7	2N	8E	7500
Horse Ridge	80	1	6N	4E	8260
Girl Hollow	81	5	7N	5E	8400
Ben Lomond Peak	82	3	7N	1W	8000
Ben Lomond (lower)	82A	1	7N	1W	6000
Beaver Creek-Skunk Creek	89	22	8N	3E	7150
Sagebrush Flat	89A	21	7N	3E	6300

** On adjacent drainage. * 6th Principal Meridian. [x] Boise Meridian.

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
GREAT BASIN DRAINAGE					
Jordan River & Great Salt Lake					
Barnard Creek	13A	34	3N	1E	8000
Lamb's Canyon	14	19	1S	3E	6600
Silver Lake	16	35	2S	3E	8720
Mill D. South Fork	16A	18	2S	3E	7400
Farmington Canyon (lower)	32	14	3N	1E	6950
Farmington Canyon (upper)	32A	26	3N	1E	8000
Provo River & Utah Lake					
Dutchman R. S.	17	27	3S	3E	7500
Timpanogos Cave Camp	18	27	4S	2E	5500
South Fork R. S.	19	24	4S	2E	6100
Camp Altamont	20	29	4S	3E	7300
Timpanogos Divide	21	33	4S	3E	8200
Hobble Creek Summit	22	20	7S	5E	7300
Daniels-Strawberry Summit	23	20	2S[x]	12W[x]	8000
Soapstone R. S.	25	9	3S	2E	7800
Trial Lake	26	5	2S	9E	9800
Washington-Long Lake	27	1	2S	8E	10300
Lost Lake	28	33	1S	9E	9900
East Portal	33	36	7S	6E	7560
Strawberry Divide	33A	34&35	7S	6E	8000
Payson R. S.	68	30	10S	3E	8050
Rock Bridge	68A	14	10S	2E	6750
Mt. Nebo	88	28&29	11S	2E	9060
Sevier River					
Gooseberry Reservoir	41	25	13S	5E	8700
Mammoth R. S. - Cottonwood Creek	42	13&23	13S	5E	8800
Huntington-Horseshoe	43	12	14S	5E	9800
G.B.R.C. Headquarters	45	21	17S	4E	8700
G.B.R.C. Meadows	46	26&27	17S	4E	10000
Seeley Creek R. S. #2**	48A	25	17S	4E	10000
Pine Creek-Chalk Creek	49	14	22S	4W	8500
Pine Creek	49A	24	22S	4W	8700
Bear Canyon	49B	17	22S	3W	7200
Gooseberry R. S.	50	32	23S	2E	8400
Farnsworth Lake	50A	27&33	23S	2E	9900
Fish Lake	51	35	26S	1E	8700
Kimberly Mine	52A	11	27S	5W	8900
Widtsoe-Escalante Summit	53	22	34S	1W	9500
Widtsoe-Escalante #2	53A	22	34S	1W	9500
Bryce Canyon	54	36	36S	4W	8000
Panguitch Lake	55	4&5	36S	7W	8200

** On adjacent drainage.

x Uinta Base and Meridian.

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
Sevier River - Cont'd					
Long Valley Junction*	56	22	38S	6W	7500
Harris Flat R.S.	57	24	38S	7W	7700
Duck Creek R.S.	58	11	38S	8W	8560
Cedar Breaks	59	2	37S	9W	10390
Big Flat**	63B	18	29S	4W	10000
Mt. Baldy R.S.	87	19	19S	4E	9500
Beaver Dams	87A	27	19S	3E	8000
Beaver River					
Merchants Valley	63	8&9	29S	5W	8200
Otter Lake	63A	1	29S	5W	9300
Big Flat	63B	18	29S	4W	10000
Coal Creek					
Cedar Breaks	59	2	37S	9W	10390
Webster Flat	61	20	37S	9W	9200
COLORADO RIVER DRAINAGE					
Upper Green River					
Hewinta R.S.	34	33	3N	13E	9500
Hole in The Rock	35	13	2N	15E	9150
Middle Beaver Creek	35A	31	3N	16E	8550
Hole in The Rock R.S.	35B	32	3N	16E	8300
King's Cabin (upper)	39	22	1S	21E	8800
King's Cabin (lower)	39A	23&26	1S	21E	8600
Duchesne River					
Lost Lake	28	33	1S	9E	9900
Lakefork Mountain	36	2&3	2N[x]	5W[x]	10500
Lakefork Mountain #2	36A	17	2N[x]	4W[x]	8900
Lake Fork Mountain #3	36B	29	2N[x]	4W[x]	8100
Paradise Park	37	7	3N[x]	1E[x]	10500
Mosby Mountain (lower)	38A	5	2N[x]	1E[x]	9500
Indian Canyon	40	2	11S	10E	9100
Brown Duck Lake	73	2	2N[x]	6W[x]	10300
Daniels-Strawberry Summit**	23	20	2S[x]	12W[x]	8000
East Portal**	33	36	7S	6E	7560
Strawberry Divide**	33A	34&35	7S	6E	8000
Price River					
Indian Canyon	40	2	11S	10E	9100
Gooseberry Reservoir	41	25	13S	5E	8700

** On adjacent drainage.
* Previously shown as Gravel Springs Junction.
x Uinta Base and Meridian.

INDEX OF SNOW COURSE LOCATIONS

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
Price River - Cont'd.					
Mammoth R.S. - Cottonwood Creek	42	13&23	13S	5E	8800
Staley Ranch	42A	32	12S	7E	7600
Dry Valley Divide	42B	20	12S	8E	7800
Huntington-Horseshoe	43	12	14S	5E	9800
Scofield Dam	76	22	12S	11W	9000
Mud Creek	77	4	14S	11W	8600
San Rafael River					
Huntington-Horseshoe	43	12	14S	5E	9800
Seeley Creek R.S.	48A	25	17S	4E	10000
G.B.R.C. Meadows**	46	26&27	17S	4E	10000
Muddy River					
Black Fork	69A	34	20S	4E	9200
Dill's Camp	69B	27	20S	4E	9200
Mt. Baldy R.S.**	87	19	19S	4E	9500
Virgin River					
Long Valley Junction	56	22	38S	6W	7500
Harris Flat R.S.	57	24	38S	7W	7700
Duck Creek R.S.	58	11	38S	8W	8560
Cedar Breaks	59	2	37S	9 W	10390
Webster Flat	61	20	37S	9W	9200
Pine Valley	62	3	40S	15W	9150
Lower Colorado River					
LaSal Mountain	64	5	27S	24E	8800
Buckboard Flat	65	36	33S	22E	9000

** On adjacent drainage.

x Uinta Base & Meridia

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

UTAH

STATE ENGINEER OF UTAH

UTAH AGRICULTURAL EXPERIMENT STATION

IN COOPERATION WITH

U. S. Department of Agriculture

U. S. Geological Survey

U. S. Reclamation Service

Utah and Local Irrigation Organizations

MAR 1 1972

FEDERAL - STATE COOPERATIVE

SNOW SURVEYS and WATER SUPPLY FORECASTS

for

U T A H

March 1, 1954

Report Prepared
by
Gregory L. Pearson - Hydraulic Engineer

Soil Conservation Service
United States Department of Agriculture
and
State Engineer of Utah
Utah Agricultural Experiment Station
In Cooperation
With
State and Local Irrigation Organizations
U. S. National Park Service
U. S. Geological Survey
U. S. Forest Service

Utah Agricultural Experiment Station Mimeographed Series No. 404

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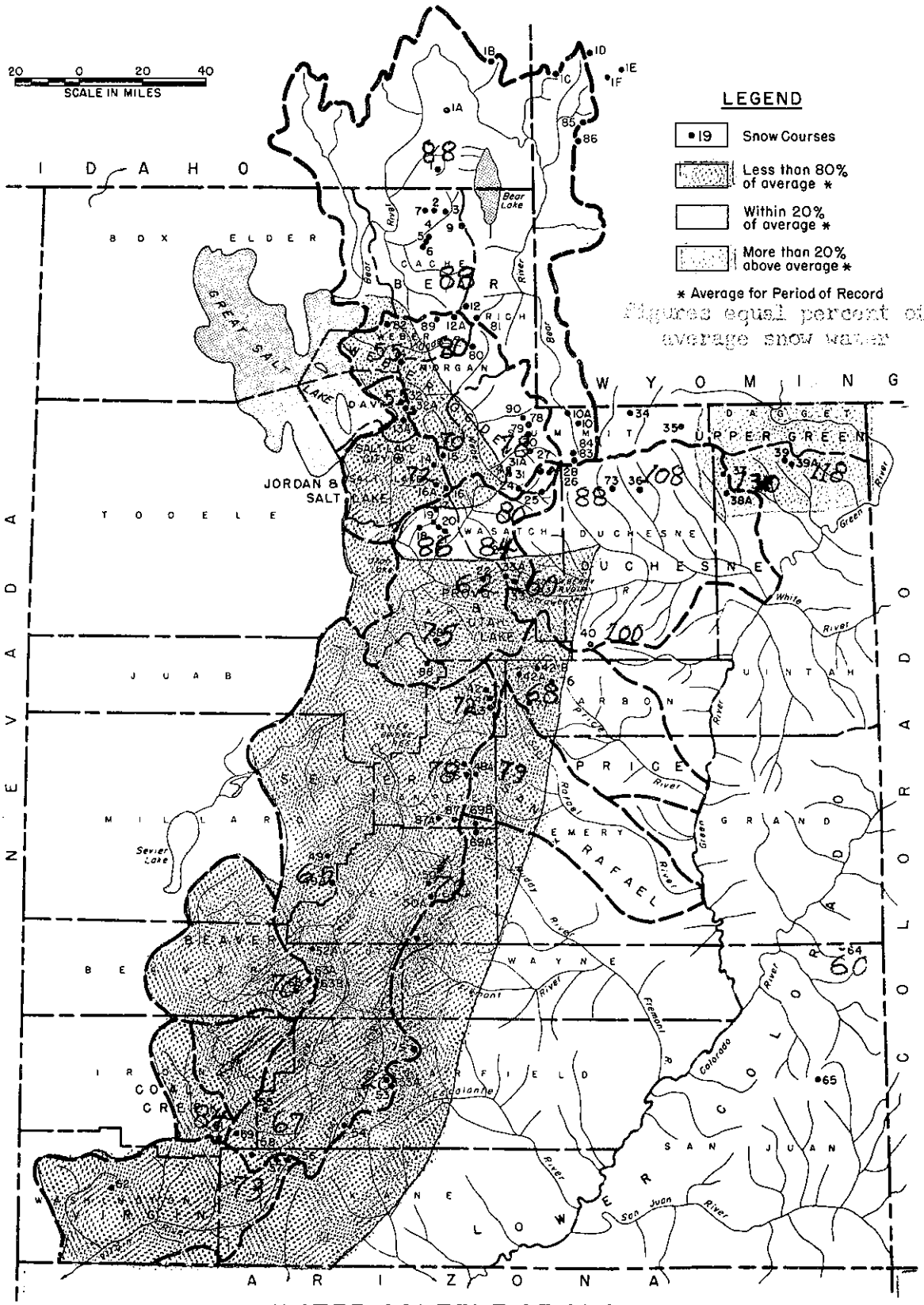

WATER CONTENT OF SNOW
Based on Snow Surveys Made on UTAH WATERSHEDS

MARCH 1, 1954

Although the snow cover is very poor in the Ogden area, it is much better on the headwaters of the South Fork Ogden River above Huntsville, with forecast runoff here being 52,000 acre feet for April-September, or 74% of average. Unless snowfall is considerable below average for the balance of the season, runoff should be sufficient to more than fill Pineview Reservoir.

The Weber, Provo and Duchesne rivers are expected to have flows of about 75% of average.

In the Uintah Basin, runoff from Ashley Creek, Whiterocks, Uinta and Lakefork rivers is expected to be from 95% to 105% of average. The Strawberry River at Duchesne, however, is forecast at only 56%.

In Central Utah, the Price River near Heiner is forecast to flow at 54% of the ten year average, while the streams of the San Rafael River are forecast at about 75% to 80%.

In Southern Utah, the most favorable runoff prospects exist on Coal Creek at Cedar City, where 85% of the ten year average flow is forecast for April-September. The Beaver River near Beaver and Sevier River at Hatch have forecast flows of 70% to 75% of average. At Kingston, the Sevier River flow is forecast at 57%.

Although runoff prospects for these Southern Utah streams are below average, if average precipitation and temperature conditions prevail during the spring months, this year's runoff will be from twice to three times as much as that of last year.

Other areas of the state where runoff forecasts are not made, but snow cover only is reported, show snow cover percents as follows: San Pitch River tributaries, 72% to 78%; Salina Creek, 72%; Pine Creek-Chalk Creek in the Fillmore area, 65%; Strawberry Reservoir, 60%; Hobble Creek near Springville, 62%; Payson area 75%; East Fork Sevier River, 20%; LaSal Mountain area near Moab, 60%.

In general, high elevation snow cover is better than that at low and intermediate elevations and will help to hold late season streamflow up. Water users in Southern Utah and the Uintah Basin currently have better late season water supply prospects than a year ago, while most other areas can anticipate less than last year.

The snowpack usually reaches its maximum accumulation about April 1, at which time all snow courses in the state will be measured and the major forecast issued.

UTAH STREAMFLOW FORECASTS - MARCH 1, 1954

Basin, Stream and Station	Seasonal Streamflow in Thousands of Acre Feet: Forecast Runoff 1954	% 10-Yr. Ave.	Forecast Period	Measured Runoff 1953	1952	1951	10-Yr. Average 1942-51
GREAT BASIN							
Bear River System							
Bear River at Harer, Idaho	185	60	Apr.-Sept.	183	521	408	307.3
	40.0	65	Jul.-Sept.	46	78	82	61.4
Little Bear River near Paradise, Utah	27.0	56	Apr.-Sept.	33.6	77	52	48.0
	2.5	64	Jul.-Sept.	3.8	6.0	5.3	3.9
Logan River near Logan, Utah(1)	115	79	Apr.-Sept.	121	169	178	145.9
	37.0	79	Jul.-Sept.	46	49	53	46.8
Blacksmith Fork near Hyrum, Utah(2)	45	72	Apr.-Sept.	50	109	93	62.4
	13.0	63	Jul.-Sept.	19.5	30.9	29.1	20.6
Weber-Ogden Rivers							
Weber River near Oakley, Utah	100	70	Apr.-Sept.	116.6	192	148	134.3
	19.0	73	Jul.-Sept.	25.0	34.6	31.4	26.1
Weber River near Coalville, Utah(3)	102	71	Apr.-Sept.	120	258	150	142.9
	12.0	63	Jul.-Sept.	18.5	33.5	23.2	19.2
Chalk Creek at Coalville, Utah	27.0	60	Apr.-Sept.	28.1	85	44	44.7
	3.0	58	Jul.-Sept.	4.6	8.6	6.2	5.2
East Canyon Creek near Morgan, Utah(4)	12.0	39	Apr.-Sept.	22.9	67	29	30.4
	2.2	76	Jul.-Sept.	2.8	5.4	2.7	2.9
S. Fork Ogden River near Huntsville, Utah	52	74	Apr.-Sept.	60	112	95	70.0
	8.0	85	Jul.-Sept.	10.0	12.2	10.8	9.4
Provo River & Utah Lake							
Provo River at Vivian Park, Utah(5)	125	76	Apr.-Sept.	113	341	189	165.2
	35.0	84	Jul.-Sept.	31.9	66	44	41.5
American Fork near American Fork, Utah	32.5	88	Apr.-Sept.		56.2	40	36.9
	8.0	91	Jul.-Sept.		13.0	10.2	8.8

(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.

UTAH STREAMFLOW FORECASTS - MARCH 1, 1954

Basin, Stream and Station	Forecast Runoff 1954	% 10-Yr. Ave.	Forecast Period	Measured Runoff 1953	1952	1951	10-Yr. Average 1942-51
GREAT BASIN							
Jordan River & Salt Lake							
Big Cottonwood near Salt Lake City, Utah	30.0	74	Apr.-Sept.	43.5	58	41	40.5
	6.0	61	Jul.-Sept.	12.4	14.4	11.0	9.9
Parley's Creek near Salt Lake City, Utah	9.0	58	Apr.-Sept.	16.1	33.6	16.3	15.3
	2.2	71	Jul.-Sept.	3.3	4.4	3.4	3.1
Sevier River							
Sevier River at Hatch, Utah	40.0	71	Apr.-Sept.	23.4	101	22.4	56.3
	14.0	90	Jul.-Sept.	10.6	23.3	8.4	15.5
Sevier River near Kingston, Utah	22.0	57	Apr.-Sept.	8.1	85	7.6	38.7
	5.0	88	Jul.-Sept.	3.9	14.0	3.2	5.7
Beaver River							
Beaver River near Beaver, Utah	23.0	75	Apr.-Sept.	14.8	57.3	18.1	30.7
	5.5	77	Jul.-Sept.	4.5	11.9	5.0	7.1
Coal Creek							
Coal Creek near Cedar City, Utah	15.0	85	Apr.-Sept.	8.4	36.4	6.3	17.6
	3.0	115	Jul.-Sept.	2.5	3.9	1.5	2.6

UTAH STREAMFLOW FORECASTS - MARCH 1, 1954

Basin, Stream and Station	Seasonal Streamflow in Thousands of Acre Feet: Forecast Runoff 1954	% 10-Yr. Ave.	Forecast Period	Measured Runoff 1953	1952	1951	10-Yr. Average 1942-51
COLORADO RIVER BASIN							
Upper Green River							
Ashley Creek near Vernal, Utah	62	98	Apr.-Sept.		90	49	63.3
	18.5	94	Jul.-Sept.		26.1	19.4	19.6
Duchesne River							
Duchesne River near Tabiona, Utah	95	77	Apr.-Sept.		211.1	141	124.4
	20.0	73	Jul.-Sept.		45.1	35.6	27.5
Strawberry River at Duchesne, Utah	40	56	Apr.-Sept.		262	69	72.4
	9.0	58	Jul.-Sept.		47	18.2	15.5
Lakefork River below Moon Lake, Utah(7)	77	95	Apr.-Sept.		102	77	81.3
	25.0	105	Jul.-Sept.		36.9	23.7	23.7
Uinta River near Neola, Utah	100	93	Apr.-Sept.		157	90	107.8
	45	105	Jul.-Sept.		63.0	42.4	42.9
Whiterocks River near Whiterocks, Utah	76	106	Apr.-Sept.		117	61	71.7
	24.0	102	Jul.-Sept.		46.4	25.1	23.5
Price River							
Price River near Heiner, Utah(8)	35.0	54	Apr.-Sept.	38.7	231.	58	65.1
	4.0	63	Jul.-Sept.	7.0	17.9	5.4	6.3
San Rafael River							
Huntington Creek near Huntington, Utah	42	74	Apr.-Sept.	57	139	57	56.7
	14.0	83	Jul.-Sept.	22.1	33.6	19.8	16.8
Cottonwood Creek near Orangeville, Utah	50	82	Apr.-Sept.	51	144	49	61.2
	9.0	80	Jul.-Sept.	13.5	25.6	12.0	11.3

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

STATUS OF RESERVOIR STORAGE MARCH 1, 1954

BASIN and STREAM	RESERVOIR	USABLE CAPACITY (1000 OF ACRE FT.)	THOUSAND ACRE FEET IN STORAGE MARCH FIRST				
			1954	1953	1952	1951	10-Yr. Avg. 1942 - 51
Bear River System							
Bear River	Bear Lake	1421.0	890.6	1002.9	968.6	1060.0	744.0
Little Bear River	Hyrum	15.3	10.6	13.5	10.3	10.3	10.4
Weber-Ogden Rivers							
Ogden River	Pine View	43.6	4.1	13.9	1.9	17.5	6.6
Weber River	East Canyon	28.7	14.4	15.9	14.3	17.1	18.5
Weber River	Echo	73.9	30.5	40.1	35.1	45.2	26.5
Provo River & Utah Lake							
Provo River	Deer Creek	149.7	93.3	117.6	111.0	124.1	67.1
Spanish Fork River	Strawberry*	270.0	194.0	224.3	126.2	116.2	78.5
Utah Lake	Utah Lake*	1149.0	767.2	951.2	769.1	696.1	550.0
Sevier River System							
Sevier River	Otter Creek	52.5	25.1	46.4	18.4	27.9	39.2
Sevier River	Piute	74.0	39.0	60.5	33.4	39.0	53.8
Sevier River	Sevier Bridge	236.0	149.8	215.0	66.8	120.0	183.3
Beaver River							
Beaver River	Rocky Ford	23.3	12.7	19.7	12.0	10.2	18.1
Duchesne River							
Lake Fork River	Moon Lake	35.8	11.8	--	20.9	18.9	16.0
Price River							
Price River	Scofield	65.8	32.7	48.3	31.6	30.9	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.

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1953	1952	Average	Years of Record
GREAT BASIN DRAINAGE									
Bear River above Harer, Idaho									
Trial Lake*	26	9800	2-24	59.4	18.4	19.0	33.0	24.8	8
Monte Cristo	12	8960	2-26	53.2	17.9	--	31.1	28.0	5
Poison Meadows (Wyo)*	1D	8500	3-2	75.0	25.3	20.1	25.8	25.2	3
Big Park (Wyo)	85	8700	3-2	50.6	15.2	14.2	20.3	18.8	3
Salt River Summit(Wyo)	1C	7900	2-25	39.0	11.8	12.2	15.8	14.3	6
Bear River below Harer, Idaho									
Garden City Summit	9	8000	3-2	45.0	15.0	14.1	21.2	19.1	7
Franklin Basin (Ida)	1	8200	2-27	54.1	18.5	--	30.5	26.3	3
Klondike Narrows	91	7400	2-27	42.4	13.7		New Course		
Tony Grove R.S.	3	6250	3-2	26.1	8.8	9.3	--	10.8	5
Mt. Logan	6	9000	3-1	59.3	20.4	22.3	35.6	23.7	29
Spring Hollow (upper)	5	8000	3-1	59.4	18.7	17.5	30.5	19.7	29
Spring Hollow (lower)	4	7000	3-1	36.0	11.7	11.1	21.1	12.9	28
Monte Cristo	12	8960	2-26	53.2	17.9	--	31.1	28.0	5
Dry Bread Pond	12A	8230	2-26	40.8	12.9	13.9	24.1	19.8	6
Beaver Creek-Skunk Creek*	89	7150	2-26	30.8	10.0	8.0	18.9	13.5	2
Ogden River									
Monte Cristo*	12	8960	2-26	53.2	17.9	--	31.1	28.0	5
Dry Bread Pond	12A	8230	2-26	40.8	12.9	13.9	24.1	19.8	6
Beaver Creek-Skunk Creek	89	7150	2-26	30.8	10.0	8.0	18.9	13.5	2
Sagebrush Flat	89A	6300	2-26	6.4	2.3	2.8	--	2.8	1
Mt. Ogden	74	8600	2-24	42.4	15.2	22.3	32.0	28.1	4
Snow Basin	74A	6500	2-24	33.3	10.5		New Course		
Weber River									
Trial Lake*	26	9800	2-24	59.4	18.4	19.0	33.0	24.8	8
Smith & Morehouse	30	7600	2-23	26.6	7.9	9.8	20.2	14.3	3
Redden Mine (upper)	31	9000	2-23	38.8	11.9	13.5	27.5	19.7	3
Redden Mine (lower)	31A	8500	2-23	37.2	10.9	12.4	26.4	18.4	3

* On adjacent drainage.

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1953	1952	Average	Years of Record
GREAT BASIN DRAINAGE									
Weber River - Cont'd									
Beaver Creek R.S.	24	7500	2-24	20.7	5.3	7.0	14.9	9.5	5
Chalk Creek #2	79	9100	No Report			16.3	32.7	23.3	3
Chalk Creek #1	78	8200	2-25	36.6	11.3	11.5	21.2	14.6	3
Chalk Creek #3	90	7500	2-25	16.5	5.2	5.2	10.7	8.0	2
Monte Cristo*	12	8960	2-26	53.2	17.9	--	31.1	28.0	5
Silver Lake*	16	8725	2-24	53.6	15.7	16.8	30.6	21.0	19
Parleys Canyon Summit	15	7500	3-4	35.5	10.5	14.7	24.4	17.9	6
Jordan River & Great Salt Lake									
Silver Lake	16	8720	2-24	53.6	15.7	16.8	30.6	21.0	19
Mill D. South Fork	16A	7400	2-25	41.0	12.7	16.5	--	16.5	1
Parley's Canyon Summit*	15	7500	3-4	35.5	10.5	14.7	24.4	17.9	6
Lamb's Canyon	14	6600	2-26	36.3	10.0	11.5	--	13.6	13
Farmington Canyon (upper)	32A	8000	2-25	44.6	14.6	23.6	33.5	27.4	3
Farmington Canyon (lower)	32	6950	2-25	40.4	12.3	19.2	30.4	23.8	3
Provo River & Utah Lake									
Trial Lake	26	9800	2-24	59.4	18.4	19.0	33.0	24.8	8
Soapstone R.S.	25	7800	2-24	30.1	8.3	9.7	19.1	12.6	7
Daniels-Strawberry Summit	23	8000	2-25	37.4	11.4	9.5	23.9	13.6	23
East Portal	33	7560	2-27	28.2	6.5	10.8	23.4	11.6	19
Strawberry Divide	33A	8000	2-27	39.9	11.4	14.7	34.4	18.5	18
Hobble Creek Summit	22	7300	3-1	28.3	8.1	--	--	16.2	1
Payson R.S.	68	8050	3-2	39.6	12.4	--	25.9	16.6	6
Rock Bridge	68A	6750	3-2	24.2	7.8		New Course		
Timpanogas Divide	21	8200	2-26	66.5	23.4	16.4	38.5	22.9	19
Camp Altamont	20	7300	2-26	41.1	14.2	10.1	29.3	16.6	19
South Fork R.S.	19	6100	2-26	15.0	5.0	6.5	18.0	8.1	16
Timpanogas Cave Camp	18	5500	2-26	0.0	0.0	0.0	12.0	4.9	12

* On adjacent drainage.

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1953	1952	Average	Years of Record
GREAT BASIN DRAINAGE									
Sevier River above Richfield									
Cedar Breaks	59	10390	3-2	50.3	17.4	14.9	27.3	19.1	9
Duck Creek R.S.	58	8560	2-27	33.4	9.5	7.5	22.1	14.4	10
Harris Flat R.S.	57	7700	2-27	21.8	5.9	5.2	14.9	10.5	11
Long Valley Jct.*	56	7500	2-28	10.7	4.4	0.0	11.0	5.6	5
Panguitch Lake	55	8200	2-26	13.3	3.0	3.4	8.6	6.0	2
Bryce Canyon	54	8000	3-1	7.4	2.3	--	--	5.8	7
Widtsoe-Escalante Summit	53	9500	3-1	5.7	1.5	5.8	9.3	7.7	17
Widtsoe-Escalante #2	53A	9500	3-1	20.8	5.2	7.2	12.5	7.1	4
Big Flat*	63B	10000	2-25	45.5	13.1	10.6	27.5	16.1	6
Kimberly Mine	52A	8900	3-5	37.4	11.7	--	--	11.8	9
Sevier River below Richfield (including San Pitch River)									
Farnsworth Lake	50A	9900	3-3	38.9	11.8	--	18.7	18.7	1
Gooseberry R.S.	50	8400	3-3	23.6	6.0	10.3	12.3	9.8	3
Huntington-Horseshoe	43	9800	2-25	40.9	13.5	--	36.0	26.0	4
Gooseberry Reservoir	41	8700	2-25	38.9	12.2	--	29.6	19.4	9
G.B.R.C. Meadows	46	10000	2-26	50.6	15.7	18.7	34.7	23.2	4
G.B.R.C. Headquarters	45	8700	2-26	36.1	10.5	13.4	25.8	13.4	16
Mt. Baldy R.S.	87	9500	3-4	47.8	14.5	17.5	31.0	24.3	2
Beaver Dams	87A	8000	3-4	24.6	6.1	10.3	17.8	14.0	2
Pine Creek	49A	8700	2-23	28.0	9.6	--	--	--	
Pine Creek-Chalk Creek	49	8500	2-23	30.2	6.6	--	--	--	
Bear Canyon	49B	7200	2-22	22.9	5.9		New Course		
Beaver River									
Big Flat	63B	10000	2-25	45.5	13.1	10.6	27.5	16.1	6
Otter Lake	63A	9300	2-25	40.1	11.1	8.2	24.4	13.5	7
Merchants Valley	63	8200	3-1	20.1	5.5	6.5	18.3	10.0	8
Coal Creek									
Cedar Breaks	59	10390	3-2	50.3	17.4	14.9	27.3	19.1	9
Webster Flat	61	9200	3-2	40.9	13.2	10.7	23.9	14.3	4

* On adjacent drainage.

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1953	1952	Average	Years of Record
COLORADO RIVER DRAINAGE									
Upper Green River									
Kings Cabin (upper)	39	8800	2-24	37.5	10.6	7.2	12.3	11.2	5
Kings Cabin (lower)	39A	8600	2-24	30.1	8.6	6.0	12.0	10.3	5
Duchesne River									
Trial Lake*	26	9800	2-24	59.4	18.4	19.0	33.0	24.8	8
Daniels-Strawberry*	23	8000	2-25	37.4	11.4	9.5	23.9	13.6	23
Strawberry Divide*	33A	8000	2-27	39.9	11.4	14.7	34.4	18.5	18
East Portal*	33	7560	2-27	28.2	6.5	10.8	23.4	11.6	19
Indian Canyon	40	9100	2-26	28.9	8.8	7.4	16.4	8.8	16
Lakefork Mountain	36	10500	2-26	34.6	9.3	6.9	--	9.4	3
Lakefork Mountain #2	36A	8900	2-26	26.6	7.2	5.8	--	5.8	1
Lakefork Mountain #3	36B	8100	2-26	23.3	6.0	5.2	--	5.2	1
Paradise Park	37	10500	2-25	42.8	12.4	6.4	12.6	11.8	3
Mosby Mountain (lower)	38A	9500	2-25	37.6	10.9	5.3	12.3	10.0	4
Price River									
Huntington-Horseshoe	43	9800	2-25	40.9	13.5	--	36.0	26.0	4
Gooseberry Reservoir	41	8700	2-25	38.9	12.2	--	29.6	19.4	9
Mud Creek	77	8600	2-26	28.3	8.9	17.9	29.8	19.4	4
Staley Ranch	42A	7600	2-26	13.6	3.8	6.8	14.8	12.8	13
Dry Valley Divide	42B	7800	2-26	26.5	7.3	8.0	19.2	9.8	13
Indian Canyon	40	9100	2-26	28.9	8.8	7.4	16.4	8.8	16
San Rafael River									
Huntington-Horseshoe	43	9800	2-25	40.9	13.5	--	36.0	26.0	4
Seeley Creek R.S.	48A	10000	2-26	30.3	10.3	9.6	25.8	17.7	2
G.B.R.C. Meadows*	46	10000	2-26	50.6	15.7	18.7	34.7	23.2	4
Lower Colorado River									
LaSal Mountain	64	8800	3-1	19.3	5.5	10.0	16.0	13.0	2
Virgin River									
Long Valley Jct.	56	7500	2-28	10.7	4.4	0.0	11.0	5.6	5
Harris Flat R.S.	57	7700	2-27	21.8	5.9	5.2	14.9	10.5	11
Duck Creek R.S.	58	8560	2-27	33.4	9.5	7.5	22.1	14.4	10
Cedar Breaks	59	10390	3-2	50.3	17.4	14.9	27.3	19.1	9
Webster Flat	61	9200	3-2	40.9	13.2	10.7	23.9	14.3	4

* 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					
Trial Lake*	26	5	2S	9E	9800
Machine Crossing	84	1	1S	9E	9300
Head of Bear River	10	15	2N	10E	8600
Goodman Ranch	10A	19	3N	10E	7900
Monte Cristo	12	3	8N	4E	8960
Poison Meadows (Wyoming)*	1D	29	30N	116W*	8500
Snyder Basin R.S. (Wyoming)*	1E	15	29N	114W*	8040
Piney-LaBarge (Wyoming)*	1F	19	29N	114W*	8820
Big Park (Wyoming)	85	7	27N	117W*	8700
Kelly R.S. (Wyoming)	86	13	26N	118W*	8200
Salt River Summit (Wyoming)	1C	32	29N	118W*	7900
Bear River below Harer, Idaho					
Garden City Summit	9	34	14N	4E	8000
Emigrant Summit (Idaho)	1A	21	12S[x]	42E[x]	7700
Slug Creek Divide (Idaho)	1B	10&15	10S[x]	44E[x]	7300
Franklin Basin (Idaho)	1	1&12	16S[x]	41E[x]	8200
Klondike Narrows	91	10	14N	3E	7400
Tony Grove Lake	2	5	13N	3E	8200
Tony Grove R.S.	3	11	13N	3E	6250
Mt. Logan	6	3	11N	2E	9000
Spring Hollow (upper)	5	35	12N	2E	8000
Spring Hollow (lower)	4	26	12N	2E	7000
Monte Cristo	12	3	8N	4E	8960
Dry Bread Pond	12A	19	8N	4E	8230
Beaver Creek-Skunk Creek*	89	22	8N	3E	7150
Ogden River					
Monte Cristo*	12	3	8N	4E	8960
Dry Bread Pond	12A	19	8N	4E	8230
Beaver Creek-Skunk Creek	89	22	8N	3E	7150
Sagebrush Flat	89A	21	7N	3E	6300
Ben Lomond Peak	82	3	7N	1W	8000
Ben Lomond (lower)	82A	1	7N	1W	6000
Mt. Ogden	74	5	5N	1E	8600
Snow Basin	74A	32	6N	1E	6500

* On adjacent drainage

x Boise 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*	26	5	2S	9E	9800
Smith & Morehouse	30	25	1N	7E	7600
Redden Mine (upper)	31	1	2S	6E	9000
Redden Mine (lower)	31A	1	2S	6E	8500
Beaver Creek R.S.	24	28	2S	7E	7500
Chalk Creek #2	79	4	1N	8E	9100
Chalk Creek #1	78	17&20	2N	8E	8200
Chalk Creek #3	90	7	2N	8E	7500
Monte Cristo*	12	3	8N	4E	8960
Silver Lake*	16	35	2S	3E	8725
Parley's Canyon Summit	15	9&10	1S	3E	7500
Jordan River & Great Salt Lake					
Silver Lake	16	35	2S	3E	8720
Mill D. South Fork	16A	18	2S	3E	7400
Parley's Canyon Summit*	15	9&10	1S	3E	7500
Lamb's Canyon	14	19	1S	3E	6600
Barnard Creek	13A	34	3N	1E	8000
Farmington Canyon (upper)	32A	26	3N	1E	8000
Farmington Canyon (lower)	32	14	3N	1E	6950
Rocky Basin-Settlement Canyon	92	30	4S	3W	8900
Middle Canyon	94	8	4S	3W	7000
Provo River & Utah Lake					
Trial Lake	26	5	2S	9E	9800
Soapstone R.S.	25	9	3S	2E	7800
Daniels-Strawberry Summit	23	20	2S[x]	12W[x]	8000
East Portal	33	36	7S	6E	7560
Strawberry Divide	33A	34&35	7S	6E	8000
Hobble Creek Summit	22	20	7S	5E	7300
Payson R.S.	68	30	10S	3E	8050
Rock Bridge	68A	14	10S	2E	6750
Timpanogos Divide	21	33	4S	3E	8200
Camp Altamont	20	29	4S	3E	7300
South Fork R.S.	19	24	4S	2E	6100
Dutchman R.S.	17	27	3S	3E	7500
Timpanogos Cave Camp	18	27	4S	2E	5500

* On 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	59	2	37S	9W	10390
Duck Creek R.S.	58	11	38S	8W	8560
Harris Flat R.S.	57	24	38S	7W	7700
Long Valley Junction*	56	22	38S	6W	7500
Panguitch Lake	55	4&5	36S	7W	8200
Bryce Canyon	54	36	36S	4W	8000
Widtsoe-Escalante Summit	53	22	34S	1W	9500
Widtsoe-Escalante #2	53A	22	34S	1W	9500
Fish Lake	51	35	26S	1E	8700
Big Flat*	63B	18	29S	4W	10000
Kimberly Mine	52A	11	27S	5W	8900
Sevier River below Richfield (including San Pitch River)					
Farnsworth Lake	50A	27&33	23S	2E	9900
Gooseberry R.S.	50	32	23S	2E	8400
Huntington-Horseshoe	43	12	14S	5E	9800
Gooseberry Reservoir	41	25	13S	5E	8700
Mammoth R.S.-Cottonwood Creek	42	13&23	13S	5E	8800
G.B.R.C. Meadows	46	27&27	17S	4E	10000
G.B.R.C. Headquarters	45	21	17S	4E	8700
Mt. Baldy R.S.	87	19	19S	4E	9500
Beaver Dams	87A	27	19S	3E	8000
Pine Creek	49A	24	22S	4W	8700
Pine Creek-Chalk Creek	49	14	22S	4W	8500
Bear Canyon	49B	17	22S	3W	7200
Beaver River					
Big Flat	63B	18	29S	4W	10000
Otter Lake	63A	1	29S	5W	9300
Merchants Valley	63	8&9	29S	5W	8200
Coal Creek					
Cedar Breaks	59	2	37S	9W	10390
Webster Flat	61	20	37S	9W	9200

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

AS OF
APR. 1, 1954

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS and WATER SUPPLY FORECASTS

for

U T A H

APRIL 1, 1954

Report Prepared
by
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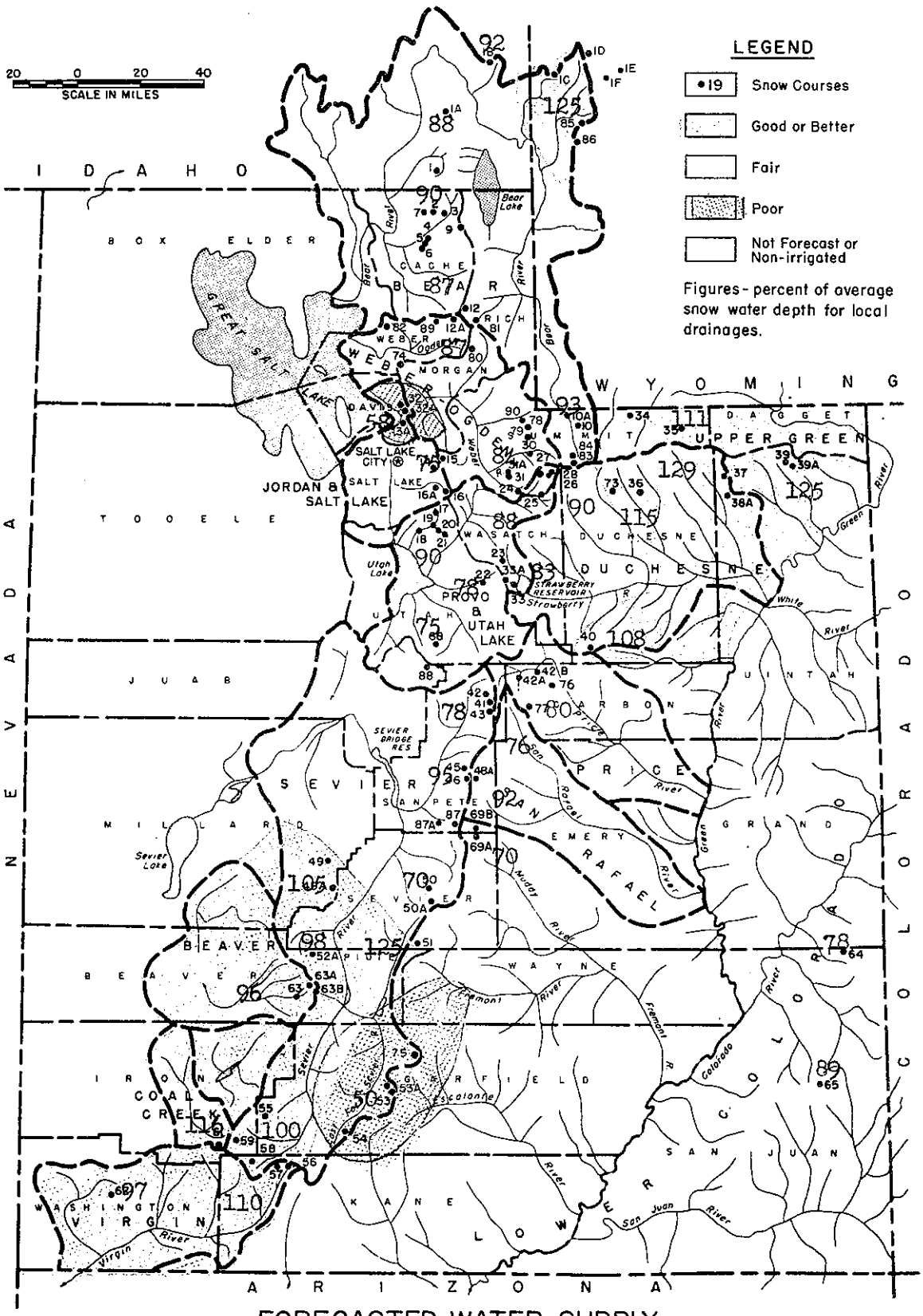
Definition of Terms on Map Following

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.



FORECASTED WATER SUPPLY
Based on Snow Surveys Made on
UTAH WATERSHEDS
Approximately April 1
1954

WATER SUPPLY OUTLOOK

for UTAH

APRIL 1, 1954

March storms materially improved the summer's water supply outlook, particularly in the southern half of the state. Streams from the Fillmore-Richfield area south to the Hatch to St. George area have runoff prospects of 96% to 134% of the 1942-51 average. This is 35% to 50% more than the outlook a month ago. In the Uinta Basin, the streams from the Lakefork River below Moon Lake, to Ashley Creek near Vernal and the Indian Canyon area near Duchesne have runoff prospects of 96% to 112% of the ten year average. The Smith's Fork of the Bear River in Wyoming has a snow cover of 125% of average. The Farmington-Bountiful area has a snow cover which is 58% of average, the poorest since the drought of 1934. East Canyon Creek near Morgan is expected to yield 49% of the 1942-51 average flow. The East Fork Sevier River-Escalante River snowpack is 50% of average. Chalk Creek at Coalville and the Price River can expect about the same as a year ago, or 60% to 65% of the 1942-51 average. Elsewhere in the state runoff prospects vary from 70% to 90%. Holdover storage in 14 reporting reservoirs is 66% of capacity. Average storage for the period 1942-51 was 54% of capacity.

In the following, streamflow forecasts are expressed as a percent of the 1942-51 ten-year average flow. Snow cover is reported as a percent of the average for the period of record of the snow courses.

On the watersheds of the main Sevier, Virgin and Beaver Rivers, Coal Creek near Cedar City, Pine and Chalk Creeks near Fillmore and Clear Creek near Sevier, in Southern Utah, the increase in the snowpack during March varied from 160% to 330% of average. On several snow courses, the increase was essentially half of an average season's accumulation. The result is that these streams have runoff prospects which are 35% to 50% higher than expected a month ago. Runoff on these streams is now forecast at 96% to 134% of the 1942-51 average. Elsewhere in the state the snowpack increase for March varied from average to 200% of average.

The streams in the Farmington-Bountiful area of the Wasatch Front still have their poorest snow cover since the drought of 1934. Runoff prospects for East Canyon Creek near Morgan have improved somewhat during the month but it is still forecast to yield only 15,000 acre feet, which is 49% of average. This is about the same as the runoff of 1939 and 1941. The snow courses on Mt. Ogden and Ben Lomond have only a short record but they appear to have a snow cover which, although unquestionably below average, is much better than that in the Farmington area.

The South Fork of the Ogden River near Huntsville is forecast to yield 54,000 acre feet for April thru September. This is 77% of average and 10% less than the 1953 runoff. Total inflow to Pineview Reservoir will be sufficient to more than fill it. To the north in Cache Valley the Little Bear River is expected to yield 68%, Blacksmith Fork 80% and the Logan River 82% of average. The main Bear River at Harer, Idaho is forecast at 78% of average. The Smith's Fork of the Bear River in Wyoming will contribute a major portion of the runoff measured at Harer.

The Weber, Provo and Duchesne Rivers, which all head in the same area, are forecast to yield from 74 to 78% of average.

Chalk Creek at Coalville is expected to yield 29,000 acre feet. This is 65% of average and essentially the same as the runoff of last year. The streams for Salt Lake south to American Fork should yield from 80% to 85% of average flow.

In the Uinta Basin the Lakefork, Uinta and Whiterock Rivers and Ashley Creek near Vernal are forecast to have runoff varying from 96 to 112% of average. The Strawberry River at Duchesne is forecast at 50,000 acre feet or 69% of average. On the south side of the Basin the Indian Canyon snow course has a snow cover which is 108% of average.

No actual runoff forecasts are made for Payson, Santaquin and Hobble Creeks and Spanish Fork River. Snow cover here varies from 75 to 80% of the long time average. Snow cover on the Basin of the Strawberry Reservoir is 83% of average.

Snow cover on the head waters of the Price and Huntington Rivers and the upper San Pitch River (above Mt. Pleasant) varies from 75 to 80% of average. Forecast runoff for the Price River near Heiner is set at 40,000 acre feet. This is 61% of average and about 5% more than the runoff of last year. Huntington Creek near Huntington and Cottonwood Creek near Orangeville can expect about 85 to 90% of average flow. To the south, snow cover on the watersheds of Ferron, Muddy and Quitchupah Creeks above Ferron and Emery, drops off to about 70% of average.

Tributaries of the middle and lower San Pitch River from Ephraim to Mayfield have a snow cover which is slightly better than a year ago and is about 95% of average. A little to the south on Salina Creek, snow cover is 70% of average. In Southeastern Utah the mountain snow cover in the vicinity of Moab and Monticello varies from 80% to 90% of average.

The East Fork of the Sevier River and Escalante River snowpack has increased from 20% to 50% of average since the first of March. The current snowpack is about one-third more than it was a year ago.

In nearly all parts of the state soil moisture has improved over what it was last fall, due to snowmelt during the warm winter, and is now about average.

The runoff forecasts given in this bulletin are based on mountain snow cover and on the assumption that precipitation and temperature during the remainder of the runoff season will be approximately normal. Appreciable deviations from normal of precipitation and temperature, especially during April and May, will correspondingly modify these forecasts.

UTAH STREAMFLOW FORECASTS - APRIL 1, 1954

Basin, Stream and Station	Seasonal Streamflow in Thousands of Acre Feet: Forecast Runoff 1954	% 10-Yr. Avg.	Forecast Period	Measured Runoff 1953	1952	1951	10-Yr. Average 1942-51
GREAT BASIN							
Bear River System							
Bear River at Harer, Idaho	240	78	Apr.-Sept.	183	521	408	307.3
	48	78	Jul.-Sept.	46	78	82	61.4
Little Bear River near Paradise, Utah	32.5	68	Apr.-Sept.	33.6	77	52	48.0
	3.0	77	Jul.-Sept.	3.8	6.0	5.3	3.9
Logan River near Logan, Utah (1)	119	82	Apr.-Sept.	121	169	178	145.9
	37.0	79	Jul.-Sept.	46	49	53	46.8
Blacksmith Fork near Hyrum, Utah (2)	50	80	Apr.-Sept.	50	109	93	62.4
	16.0	78	Jul.-Sept.	19.5	30.9	29.1	20.6
Weber-Ogden Rivers							
Weber River near Oakley, Utah	105	78	Apr.-Sept.	116.6	192	148	134.3
	19.5	75	Jul.-Sept.	25.0	34.6	31.4	26.1
Weber River near Coalville, Utah (3)	106	74	Apr.-Sept.	120	258	150	142.9
	14.0	73	Jul.-Sept.	18.5	33.5	23.2	19.2
Chalk Creek at Coalville, Utah	29.0	65	Apr.-Sept.	28.1	85	44	44.7
	4.5	87	Jul.-Sept.	4.6	8.6	6.2	5.2
East Canyon Creek near Morgan, Utah (4)	15.0	49	Apr.-Sept.	22.9	67	29	30.4
	2.2	76	Jul.-Sept.	2.8	5.4	2.7	2.9
S. Fork Ogden River near Huntsville, Utah	54	77	Apr.-Sept.	60	112	95	70.0
	8.5	90	Jul.-Sept.	10.0	12.2	10.8	9.4
Provo River & Utah Lake							
Provo River at Vivian Park, Utah (5)	124	75	Apr.-Sept.	113	341	189	165.2
	35.0	84	Jul.-Sept.	31.9	66	44	41.5
American Fork near American Fork, Utah	31.5	85	Apr.-Sept.	31.8	56.2	40	36.9
	8.0	91	Jul.-Sept.	10.3	13.0	10.2	8.8

(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.

UTAH STREAMFLOW FORECASTS - APRIL 1, 1954

Basin, Stream and Station	Seasonal Streamflow in Thousands of Acre Feet: Forecast Runoff 1954	% 10-Yr. Avg.	Forecast Period	Measured Runoff 1953	1952	1951	10-Yr. Average 1942-51
GREAT BASIN							
Jordan River & Salt Lake							
Big Cottonwood near Salt Lake City, Utah	34.5	85	Apr.-Sept.	43.5	58	41	40.5
	8.3	84	Jul.-Sept.	12.4	14.4	11.0	9.9
Parley's Creek near Salt Lake City, Utah	12.0	78	Apr.-Sept.	16.1	33.6	16.3	15.3
	2.6	84	Jul.-Sept.	3.3	4.4	3.4	3.1
Sevier River							
Sevier River at Hatch, Utah	60	107	Apr.-Sept.	23.4	101	22.4	56.3
	19.0	122	Jul.-Sept.	10.6	23.3	8.4	15.5
Sevier River near Kingston, Utah	37.0	96	Apr.-Sept.	8.1	85	7.6	38.7
	5.5	96	Jul.-Sept.	3.9	14.0	3.2	5.7
Beaver River							
Beaver River near Beaver, Utah	32.0	104	Apr.-Sept.	14.8	57.3	18.1	30.7
	7.3	103	Jul.-Sept.	4.5	11.9	5.0	7.1
Coal Creek							
Coal Creek near Cedar City, Utah	23.5	134	Apr.-Sept.	8.1	36.4	6.3	17.6
	3.5	135	Jul.-Sept.	2.5	3.9	1.5	2.6
COLORADO RIVER BASIN							
Upper Green River							
Ashley Creek near Vernal, Utah	68	107	Apr.-Sept.	44	90	49	63.3
	20.0	102	Jul.-Sept.	15.8	26.1	19.4	19.6
Duchesne River							
Duchesne River near Tabiona, Utah	95	76	Apr.-Sept.		211.1	141	124.4
	20.0	73	Jul.-Sept.		45.1	35.6	27.5
Strawberry River at Duchesne, Utah	50	69	Apr.-Sept.		262	69	72.4
	12.0	77	Jul.-Sept.		47	18.2	15.5
Lakefork River below Moon Lake, Utah (6)	78	96	Apr.-Sept.		102	77	81.3
	25.0	106	Jul.-Sept.		36.9	23.7	23.7

(6) Observed flow plus change in storage in Moon Lake Reservoir.

UTAH STREAMFLOW FORECASTS - APRIL 1, 1954

Basin, Stream and Station	Seasonal Streamflow in Thousands of Acre Feet: Forecast Runoff 1954	% 10-Yr. Avg.	Forecast Period	Measured Runoff 1953	1952	1951	10-Yr. Average 1942-51
COLORADO RIVER BASIN							
Duchesne River - Cont'd.							
Uinta River near Neola, Utah	110	102	Apr.-Sept.	75	157	90	107.8
	50	117	Jul.-Sept.	32.3	63.0	42.4	42.9
Whiterocks River near Whiterocks, Utah	80	112	Apr.-Sept.	50	117	61	71.7
	26.0	111	Jul.-Sept.	18.4	46.4	25.1	23.5
Price River							
Price River near Heiner, Utah (7)	40.0	61	Apr.-Sept.	38.7	231	58	65.1
	5.0	79	Jul.-Sept.	7.0	17.9	5.4	6.3
San Rafael River							
Huntington Creek near Huntington, Utah	50	88	Apr.-Sept.	57	139	57	56.7
	13.0	77	Jul.-Sept.	22.1	33.6	19.8	16.8
Cottonwood Creek near Orangeville, Utah	55	90	Apr.-Sept.	51	144	49	61.2
	10.0	88	Jul.-Sept.	13.5	25.6	12.0	11.3

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

STATUS OF RESERVOIR STORAGE APRIL 1, 1954

BASIN and STREAM	RESERVOIR	USABLE CAPACITY (1000 OF ACRE FT.)	THOUSAND ACRE FEET IN STORAGE APRIL FIRST				
			1954	1953	1952	1951	10-Yr.Avg. 1942 - 51
Bear River System							
Bear River	Bear Lake	1421.0	925.5	1015.0	955.9	1043.0	783.5
Little Bear River	Hyrum	15.3	13.8	15.8	10.4	10.3	11.2
Weber-Ogden Rivers							
Ogden River	Pine View	43.6	7.8	16.5	3.6	10.5	9.6
Weber River	East Canyon	28.7	16.6	18.3	6.9	19.0	20.3
Weber River	Echo	73.9	36.6	46.2	13.3	48.2	36.0
Provo River & Utah Lake							
Provo River	Deer Creek	149.7	100.4	116.7	108.7	124.1	69.0
Spanish Fork River	Strawberry*	270.0	197.8	227.5	131.0	119.2	81.6
Utah Lake	Utah Lake*	1149.0	786.0	953.3	843.3	730.0	597.6
Sevier River System							
Sevier River	Otter Creek	52.5	29.3	50.0	24.6	31.6	44.1
Sevier River	Piute	74.0	47.4	71.3	43.9	45.5	64.1
Sevier River	Sevier Bridge	236.0	165.0	236.0	86.5	129.8	199.8
Beaver River							
Beaver River	Rocky Ford	23.3	13.5	21.1	14.7	11.6	19.9
Duchesne River							
Lake Fork River	Moon Lake	35.8	13.5	21.1	22.5	20.5	17.7
Price River							
Price River	Scofield	65.8	34.8	50.9	33.8	32.2	14.5

* 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.

UTAH SNOW SURVEYS APRIL 1, 1954

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1953	1952	Average	Years of Record
GREAT BASIN DRAINAGE									
Bear River above Harer, Idaho									
Trial Lake*	26	9800	4-5	71.5	23.9	21.8	39.3	26.5	23
Machine Crossing	84	9300		No Report		16.3	25.8	20.8	3
Head of Bear River	10	8600	4-2	28.4	8.3	8.5	15.1	9.4	19
Goodman Ranch	10A	7900	4-2	15.3	5.6	6.2	9.9	5.5	16
Monte Cristo	12	8960	3-25	72.1	22.3	23.4	39.2	25.4	21
Poison Meadows (Wyoming)*	1D	8500	3-31	103.0	33.5	25.0	31.0	30.0	6
Snyder Basin R.S. (Wyo.)	1E	8040	3-31	58.0	18.4	13.8	18.0	13.7	17
Piney-LaBarge (Wyoming)*	1F	8820	3-31	71.0	22.9	15.4	25.0	18.2	17
Big Park (Wyoming)	85	8700	3-31	77.3	23.7	18.0	27.2	24.1	3
Kelly R.S. (Wyoming)	86	8200	3-31	69.5	20.4	15.9	22.9	20.4	3
Salt River Summit (Wyo.)	1C	7900	3-30	57.7	16.3	13.1	19.5	17.1	6
Bear River below Harer, Idaho									
Garden City Summit	9	8000	3-30	65.4	19.5	14.5	26.6	19.5	23
Emigrant Summit (Idaho)	1A	7700	3-29	76.7	22.1	21.4	34.5	25.2	18
Emigration Canyon (mouth)	1G	6500	3-27	29.7	9.3	8.0	--	8.0	1
Slug Creek Divide (Idaho)	1B	7300	3-31	52.0	14.7	11.8	20.2	15.9	18
Franklin Basin (Idaho)	1	8200	3-26	68.1	23.3	23.7	40.2	26.7	30
Klondike Narrows	91	7400	3-26	43.0	15.4		New Course		
Tony Grove Lake	2	8200	3-26	77.7	27.5	35.5	47.6	34.5	28
Tony Grove R.S.	3	6250	3-30	25.8	7.5	6.7	17.6	9.3	28
Mt. Logan	6	9000	3-29	84.1	27.9	26.0	43.8	29.6	30
Spring Hollow (upper)	5	8000	3-29	78.7	24.1	22.3	34.6	25.4	30
Spring Hollow (lower)	4	7000	3-29	45.0	15.0	11.3	24.5	14.6	30
Monte Cristo	12	8960	3-25	72.1	22.3	23.4	39.2	25.4	21
Dry Bread Pond	12A	8230	3-25	50.9	14.7	16.2	31.3	19.2	16
Beaver Creek-Skunk Creek*	89	7150	3-25	34.1	11.2	11.0	24.0	17.5	2
Ogden River									
Monte Cristo*	12	8960	3-25	72.1	22.3	23.4	39.2	25.4	21
Dry Bread Pond	12A	8230	3-25	50.9	14.7	16.2	31.3	19.2	16
Beaver Creek-Skunk Creek	89	7150	3-25	34.1	11.2	11.0	24.0	17.5	2
Sagebrush Flat	89A	6300	3-25	3.7	0.8	2.3	--	2.3	1
Ben Lomond Peak	82	8000	3-31	82.8	28.3	36.4	48.8	43.2	3
Ben Lomond (lower)	82A	6000	3-31	39.5	14.4		New Course		
Mt. Ogden	74	8600	3-30	71.8	24.0	27.1	48.8	17.2	6
Snow Basin	74A	6500	3-30	44.3	14.2		New Course		

* On adjacent drainage

UTAH SNOW SURVEYS APRIL 1, 1954

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1953	1952	Average	Years of Record
GREAT BASIN DRAINAGE									
Weber River									
Trial Lake*	26	9800	4-5	71.5	23.9	21.8	39.3	26.5	23
Smith & Morehouse	30	7600	3-29	33.5	10.2	10.2	24.3	13.1	25
Redden Mine (upper)	31	9000	3-30	55.1	16.6	16.2	34.5	20.7	24
Redden Mine (lower)	31A	8500	3-30	52.1	16.2	14.6	34.0	19.5	24
Beaver Creek R.S.	24	7500	3-30	22.9	7.3	7.4	18.6	8.1	22
Chalk Creek #2	79	9100	3-31	76.6	23.6	20.1	39.2	28.9	3
Chalk Creek #1	78	8200	3-31	51.7	15.2	13.4	25.6	18.1	3
Chalk Creek #3	90	7500	3-31	23.6	6.3	6.3	14.5	10.4	2
Monte Cristo*	12	8960	3-25	72.1	22.3	23.4	39.2	25.4	21
Silver Lake*	16	8725	3-31	73.0	25.8	24.8	38.2	25.9	23
Parley's Canyon Summit	15	7500	3-30	48.2	13.3	18.3	31.3	18.3	20
Jordan River & Great Salt Lake									
Silver Lake	16	8720	3-31	73.0	25.8	24.8	38.2	25.9	23
Mill D, South Fork	16A	7400	3-31	50.4	16.3	21.6	34.4	20.7	19
Parley's Canyon Summit*	15	7500	3-30	48.2	13.3	18.3	31.3	18.3	20
Lamb's Canyon	14	6600	3-29	41.5	12.8	13.9	29.6	16.1	19
Barnard Creek	13A	8000	3-29	53.6	16.6	30.1	41.7	28.6	18
Farmington Canyon (upper)	32A	8000	3-30	69.3	20.4	30.8	43.2	34.4	3
Farmington Canyon (lower)	32	6950	3-31	58.2	17.9	25.7	40.2	30.4	3
Rocky Basin-Settlement Canyon	92	8900	--	No Report			New Course		
Middle Canyon	94	7000	4-1	40.2	15.0		New Course		
Provo River & Utah Lake									
Trial Lake	26	9800	4-5	71.5	23.9	21.8	39.3	26.5	23
Soapstone R.S.	25	7800	3-30	36.1	10.6	11.9	24.0	12.6	23
Daniels-Strawberry Summit	23	8000	3-30	50.6	14.1	10.6	31.8	15.0	24
East Portal	33	7560	3-29	35.0	9.7	10.1	29.4	12.8	20
Strawberry Divide	33A	8000	3-29	59.1	16.6	17.6	43.4	21.4	20
Hobble Creek Summit	22	7300	3-26	38.2	10.9	10.8	29.9	14.6	18
Payson R.S.	68	8840	3-24	52.7	14.1	14.9	34.5	20.0	11
Rock Bridge	68A	6750	3-24	29.7	8.7	10.8	--	10.8	1
Timpanogos Divide	21	8200	3-27	73.8	25.6	17.8	43.6	26.0	19
Camp Altamont	20	7300	3-27	43.4	15.9	11.5	35.5	18.2	19
South Fork R.S.	19	6100	3-27	10.8	3.3	3.3	22.1	7.6	19

* On adjacent drainage.

UTAH SNOW SURVEYS APRIL 1, 1954

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1953	1952	Average	Years or Record
GREAT BASIN DRAINAGE									
Provo River & Utah Lake - Cont'd.									
Dutchman R.S.	17	7500	3-27	50.1	15.3	13.9	35.8	19.1	23
Timpanogos Cave Camp	18	5500	3-25	7.4	1.2	0.0	14.5	1.7	19
Sevier River above Richfield									
Cedar Breaks	59	10390	4-2	81.4	25.6	15.4	44.7	25.4	19
Midway Valley	59A	9400	4-2	94.6	28.8		New Course		
Duck Creek R.S.	58	8560	3-30	58.5	17.1	6.4	32.7	17.5	19
Harris Flat R.S.	57	7700	3-30	32.3	10.8	1.4	21.1	9.5	23
Long Valley Junction*	56	7500	3-30	13.0	3.9	0.0	14.1	5.5	17
Panguitch Lake	55	8200	3-26	17.2	4.7	1.3	14.2	5.2	27
Bryce Canyon	54	8000	4-1	10.8	3.4	0.0	12.4	6.2	15
Widtsoe-Escalante Summit	53	9500	3-31	15.9	4.0	2.7	15.0	8.6	22
Widtsoe-Escalante #2	53A	9500	3-31	30.3	7.9	6.9	18.2	8.6	4
Fish Lake	51	8700	3-27	31.2	8.0	6.2	18.0	6.4	23
Box Creek	95	9800	3-17	34.6	8.9		New Course		
Squaw Springs	96	9300	3-17	17.3	5.2		New Course		
Big Flat*	63B	10000	4-3	68.3	20.6	12.8	35.0	20.7	18
Kimberly Mine	52A	8900	4-6	48.6	16.5	14.4	29.0	16.8	19
Sevier River below Richfield (including San Pitch River)									
Farnsworth Lake	50A	9900	4-5	47.7	15.0	17.4	24.8	18.4	3
Gooseberry R.S.	50	8400	4-5	21.8	7.1	10.9	15.8	10.1	24
Huntington-Horseshoe	43	9800	3-29	58.1	19.2	20.8	50.0	25.1	24
Gooseberry Reservoir	41	8700	3-31	49.2	14.7	17.4	41.5	19.6	26
Mammoth R.S.-Cottonwood Creek	42	8800	3-31	58.0	17.4	17.7	42.0	20.9	24
G.B.R.C. Meadows	46	10000	4-2	77.6	24.0	21.7	50.6	24.9	24
G.B.R.C. Headquarters	45	8700	4-2	49.8	15.7	14.5	34.6	16.7	24
Mt. Baldy R.S.	87	9500	4-4	63.3	20.6	19.9	41.0	27.4	3
Beaver Dams	87A	8000	4-4	25.0	8.4	9.8	24.6	14.4	3
Pine Creek	49A	8700	3-30	39.8	12.2	16.2	28.4	15.7	5
Pine Creek-Chalk Creek	49	8500	3-30	42.9	12.5	13.3	20.6	11.9	23
Bear Canyon	49B	7200	3-31	32.1	9.1		New Course		

* On adjacent drainage.

UTAH SNOW SURVEYS APRIL 1, 1954

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1953	1952	Average	Years of Record
GREAT BASIN DRAINAGE									
Beaver River									
Big Flat	63B	10000	4-3	68.3	20.6	12.8	35.0	20.7	18
Otter Lake	63A	9300	4-3	56.3	16.7	10.0	31.2	17.3	18
Merchants Valley	63	8200	4-3	25.6	8.8	5.3	22.7	11.2	23
Coal Creek									
Cedar Breaks	59	10390	4-2	81.4	25.6	15.4	44.7	25.4	19
Midway Valley*	59A	9400	4-2	94.6	28.8		New Course		
Webster Flat	61	9200	4-2	65.8	21.4	6.9	37.3	17.4	27
COLORADO RIVER DRAINAGE									
Upper Green River									
Hewinta R.S.	34	9500		No Report		10.0	13.9	9.6	21
Hole-in-the-Rock	35	9150	3-25	27.7	6.2	5.5	10.7	5.6	23
Middle Beaver Creek	35A	8550	3-25	22.0	5.3		New Course		
Hole-in-the-Rock R.S.	35B	8300	3-25	3.0	0.5		New Course		
King's Cabin (upper)	39	8800	3-31	52.4	13.5	8.0	18.4	10.1	24
King's Cabin (lower)	39A	8600	3-31	40.6	10.7	5.3	15.9	9.3	24
Duchesne River									
Trial Lake*	26	9800	4-5	71.5	23.9	21.8	39.3	26.5	23
Daniels-Strawberry Summit	23	8000	3-30	50.6	14.1	10.6	31.8	15.0	24
Strawberry Divide*	33A	8000	3-29	59.1	16.6	17.6	43.4	21.4	20
East Portal*	33	7560	3-29	35.0	9.7	10.1	29.4	12.8	20
Indian Canyon	40	9100	3-30	43.6	11.2	5.3	23.8	10.4	24
Brown Duck Lake	73	10300	4-3	53.6	16.1	14.2	30.8	20.0	10
Lakefork Mountain	36	10500	4-3	44.2	12.4	9.3	21.7	10.7	23
Lakefork Mountain #2	36A	8900	4-3	27.5	8.9	4.3	--	4.3	1
Lakefork Mountain #3	36B	8100	4-3	22.1	7.6	0.5	--	0.5	1
Paradise Park	37	10500	3-29	52.2	15.6	8.3	--	11.7	21
Mosby Mountain (lower)	38A	9500	3-29	45.1	13.1	5.9	19.4	10.6	24
Price River									
Huntington-Horseshoe	43	9800	3-29	58.1	19.2	20.8	50.0	25.1	24
Gooseberry Reservoir	41	8700	3-31	49.2	14.7	17.4	41.5	19.6	26
Mammoth R.S.-Cottonwood Creek*	42	8800	3-31	58.0	17.4	17.7	42.0	20.9	24

* On adjacent drainage.

UTAH SNOW SURVEYS APRIL 1, 1954

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	1954 Snow Depth (In.)	1954 Water Content (In.)	Past Record Water Content (In.) 1953	1952	Average	Years of Record
COLORADO RIVER DRAINAGE									
Price River - Cont'd.									
Mud Creek	77	8600	4-1	44.4	14.3	18.8	38.3	21.9	5
Staley Ranch	42A	7600	4-1	Trace		0.0	18.0	8.2	18
Dry Valley Divide	42B	7800	4-1	28.3	9.5	6.5	25.2	10.8	19
Indian Canyon	40	9100	3-30	43.6	11.2	5.3	23.8	10.4	24
San Rafael River									
Huntington-Horseshoe	43	9800	3-29	58.1	19.2	20.8	50.0	25.1	24
Seeley Creek R.S.	48A	10000	4-2	44.4	14.3	10.1	37.8	15.6	24
G.B.R.C. Meadows*	46	10000	4-2	77.6	24.0	21.7	50.6	24.9	24
Muddy River									
Black Fork	69A	9200	3-31	38.7	11.4	15.6	--	16.0	7
Dill's Camp	69B	9200	3-31	30.2	9.3	13.4	--	14.0	6
Mt. Baldy R.S.*	87	9500	4-4	63.3	20.6	19.9	41.0	27.4	3
Fremont River									
Farnsworth Lake*	50A	9900	4-5	47.7	15.0	17.4	24.8	18.4	3
Fish Lake	51	8700	3-27	31.2	8.0	6.2	18.0	6.4	23
Black's Flat-U.M. Creek	97	9250	3-18	23.7	6.3		New Course		
Donkey Reservoir	98	9800	3-19	18.4	5.1		New Course		
Escalante River									
Widtsoe-Escalante Summit	53	9500	3-31	15.9	4.0	2.7	15.0	8.6	22
Widtsoe-Escalante #2	53A	9500	3-31	30.3	7.9	6.9	18.2	8.6	4
Virgin River									
Cedar Breaks	59	10390	4-2	81.4	25.6	15.4	44.7	25.4	19
Webster Flat	61	9200	4-2	65.8	21.4	6.9	37.3	17.4	27
Duck Creek R.S.	58	8560	3-30	58.5	17.1	6.4	32.7	17.5	19
Harris Flat R.S.	57	7700	3-30	32.3	10.8	1.4	21.1	9.5	23
Long Valley Junction	56	7500	3-30	13.0	3.9	0.0	14.1	5.5	17
Pine Valley	62	9150	4-6	47.3	18.4	7.8	33.1	19.0	17
Lower Colorado River (Southeastern Utah)									
LaSal Mountain	64	8800	3-30	20.8	7.4	9.3	21.8	9.5	23
Buckboard Flat	65	9000	3-29	42.7	12.4	10.5	26.6	14.0	24

* 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					
Trial Lake*	26	5	2S	9E	9800
Machine Crossing	84	1	1S	9E	9300
Head of Bear River	10	15	2N	10E	8600
Goodman Rnach	10A	19	3N	10E	7900
Monte Cristo	12	3	8N	4E	8960
Poison Meadows (Wyoming)*	1D	29	30N	116W*	8500
Snyder Basin R.S. (Wyoming)*	1E	15	29N	114W*	8040
Piney-LaBarge (Wyoming)*	1F	19	29N	114W*	8820
Big Park (Wyoming)	85	7	27N	117W*	8700
Kelly R.S. (Wyoming)	86	13	26N	118W*	8200
Salt River Summit (Wyoming)	1C	32	29N	118W*	7900
Bear River below Harer, Idaho					
Garden City Summit	9	34	14N	4E	8000
Emigrant Summit (Idaho)	1A	21	12S[x]	42E[x]	7700
Emigration Canyon (mouth)	1G	24	12S[x]	42E[x]	6500
Slug Creek Divide (Idaho)	1B	10&15	10S[x]	44E[x]	7300
Franklin Basin (Idaho)	1	1&12	16S[x]	41E[x]	8200
Klondike Narrows	91	10	14N	3E	7400
Tony Grove Lake	2	5	13N	3E	8200
Tony Grove R.S.	3	11	13N	3E	6250
Mt. Logan	6	3	11N	2E	9000
Spring Hollow (upper)	5	35	12N	2E	8000
Spring Hollow (lower)	4	26	12N	2E	7000
Monte Cristo	12	3	8N	4E	8960
Dry Bread Pond	12A	19	8N	4E	8230
Beaver Creek-Skunk Creek*	89	22	8N	3E	7150
Ogden River					
Monte Cristo*	12	3	8N	4E	8960
Dry Bread Pond	12A	19	8N	4E	8230
Beaver Creek-Skunk Creek	89	22	8N	3E	7150
Sagebrush Flat	89A	21	7N	3E	6300
Ben Lomond Peak	82	3	7N	1W	8000
Ben Lomond (lower)	82A	1	7N	1W	6000
Mt. Ogden	74	5	5N	1E	8600
Snow Basin	74A	32	6N	1E	6500

* On 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*	26	5	2S	9E	9800
Smith & Morehouse	30	25	1N	7E	7600
Redden Mine (upper)	31	1	2S	6E	9000
Redden Mine (lower)	31A	1	2S	6E	8500
Beaver Creek R.S.	24	28	2S	7E	7500
Chalk Creek #2	79	4	1N	8E	9100
Chalk Creek #1	78	17&20	2N	8E	8200
Chalk Creek #3	90	7	2N	8E	7500
Monte Cristo*	12	3	8N	4E	8960
Silver Lake*	16	35	2S	3E	8725
Parley's Canyon Summit	15	9&10	1S	3E	7500
Jordan River & Great Salt Lake					
Silver Lake	16	35	2S	3E	8720
Mill D. South Fork	16A	18	2S	3E	7400
Parley's Canyon Summit*	15	9&10	1S	3E	7500
Lamb's Canyon	14	19	1S	3E	6600
Bernard Creek	13A	34	3N	1E	8000
Farmington Canyon (upper)	32A	26	3N	1E	8000
Farmington Canyon (lower)	32	14	3N	1E	6950
Rocky Basin-Settlement Canyon	92	30	4S	3W	8900
Middle Canyon	94	8	4S	3W	7000
Provo River & Utah Lake					
Trial Lake	26	5	2S	9E	9800
Soapstone R.S.	25	9	3S	2E	7800
Daniels-Strawberry Summit	23	20	2S[x]	12W[x]	8000
East Portal	33	36	7S	6E	7560
Strawberry Divide	33A	34&35	7S	6E	8000
Hobble Creek Summit	22	20	7S	5E	7300
Payson R.S.	68	30	10S	3E	8050
Rock Bridge	68A	14	10S	2E	6750
Timpanogos Divide	21	33	4S	3E	8200
Camp Altamont	20	29	4S	3E	7300
South Fork R.S.	19	24	4S	2E	6100
Dutchman R.S.	17	27	3S	3E	7500
Timpanogos Cave Camp	18	27	4S	2E	5500

* On 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	59	2	37S	9W	10390
Midway Valley	59A	26	37S	9W	9400
Dutchman Creek R.S.	58	11	38S	8W	8560
Harris Flat R.S.	57	24	38S	7W	7700
Long Valley Junction*	56	22	38S	6W	7500
Panguitch Lake	55	4&5	36S	7W	8200
Bryce Canyon	54	36	36S	4W	8000
Widtsoe-Escalante Summit	53	22	34S	1W	9500
Widtsoe-Escalante #2	53A	22	34S	1W	9500
Fish Lake	51	35	26S	1E	8700
Box Creek	95	33	26S	2W	9800
Squaw Springs	96	3	27S	2W	9300
Big Flat*	63B	18	29S	4W	10000
Kimberly Mine	52A	11	27S	5W	8900
Sevier River below Richfield (including San Pitch River)					
Farnsworth Lake	50A	27&33	23S	2E	9900
Gooseberry R.S.	50	32	23S	2E	8400
Huntington-Horseshoe	43	12	14S	5E	9800
Gooseberry R servoir	41	25	13S	5E	8700
Mammoth R.S.-Cottonwood Creek	42	13&23	13S	5E	8800
G.B.R.C. Meadows	46	26&27	17S	4E	10000
G.B.R.C. Headquarters	45	21	17S	4E	8700
Mt. Baldy R.S.	87	19	19S	4E	9500
Beaver Dams	87A	27	19S	3E	8000
Pine Creek	49A	24	22S	4W	8700
Pine Creek-Chalk Creek	49	14	22S	4W	8500
Bear Canyon	49B	17	22S	3W	7200
Beaver River					
Big Flat	63B	18	29S	4W	10000
Otter Lake	63A	1	29S	5W	9300
Merchants Valley	63	1&9	29S	5W	8200
Coal Creek					
Cedar Breaks	59	2	37S	9W	10390
Midway Valley*	59A	26	37S	9W	9400
Webster Flat	61	20	37S	9W	9200

* On adjacent drainage.

INDEX OF SNOW COURSE LOCATIONS

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
COLORADO RIVER DRAINAGE					
Upper Green River					
Hewinta R.S.	34	33	3N	13E	9500
Hole-in-the-Rock	35	13	2N	15E	9150
Middle Beaver Creek	35A	31	3N	16E	8550
Hole-in-the-Rock R.S.	35B	32	3N	16E	8300
King's Cabin (upper)	39	22	1S	21E	8800
King's Cabin (lower)	39A	23&26	1S	21E	8600
Duchesne River					
Trial Lake*	26	5	2S	9E	9800
Daniels ~~Strawberry Summit*~~	23	20	2S[x]	12W[x]	8000
Strawberry Divide*	33A	34&35	7S	6E	8000
East Portal*	33	36	7S	6E	7560
Indian Canyon	40	2	11S	10E	9100
Brown Duck Lake	73	2	2N[x]	6W[x]	10300
Lakefork Mountain	36	2&3	2N[x]	5W[x]	10500
Lakefork Mountain #2	36A	17	2N[x]	4W[x]	8900
Lakefork Mountain #3	36B	29	2N[x]	4W[x]	8100
Paradise Park	37	7	3N[x]	1E[x]	10500
Mosby Mountain (lower)	38A	5	2N[x]	1E[x]	9500
Price River					
Huntington-Horseshoe	43	12	14S	5E	9800
Gooseberry Reservoir	41	25	13S	5E	8700
Mammoth R.S.-Cottonwood Creek*	42	13&23	13S	5E	8800
Mud Creek	77	4	14S	11W	8600
Staley Ranch	42A	32	12S	7E	7600
Dry Valley Divide	42B	20	12S	8E	7800
Indian Canyon	40	2	11S	10E	9100
San Rafael River					
Huntington-Horseshoe	43	12	14S	5E	9800
Seely Creek R.S.	48A	25	17S	4E	10000
G.B.R.C. Meadows*	46	26&27	17S	4E	10000

* On 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					
Muddy River					
Black Fork	69A	34	20S	4E	9200
Dill's Camp	69B	27	20S	4E	9200
Mt. Baldy R.S.*	87	19	19S	4E	9500
Fremont River					
Farnsworth Lake*	50A	27&33	23S	2E	9900
Fish Lake	51	35	26S	1E	8700
Black's Flat-U.M. Creek	97	33	24S	3E	9250
Donkey Reservoir	98	9	30S	4E	9800
Escalante River					
Widtsoe-Escalante Summit	53	22	34S	1W	9500
Widtsoe-Escalante #2	53A	22	34S	1W	9500
Virgin River					
Cedar Breaks	59	2	37S	9W	10390
Midway Valley	59A	26	37S	9W	9400
Webster Flat	61	20	37S	9W	9200
Duck Creek R.S.	58	11	38S	8W	8560
Harris Flat R.S.	57	24	38S	7W	7700
Long Valley Junction	56	22	38S	6W	7500
Pine Valley	62	3	40S	15W	9150
Lower Colorado River (southeastern Utah)					
LaSal Mountain	64	5	27S	24E	8800
Buckboard Flat	65	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

Surveys and Investigations 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. National Park Service
U. S. Geological Survey — State and Local Irrigation Organizations

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS and WATER SUPPLY FORECASTS

for

U T A H

MAY 1, 1954

Report Prepared
by
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State Engineer of Utah
and
Utah Agricultural Experiment Station

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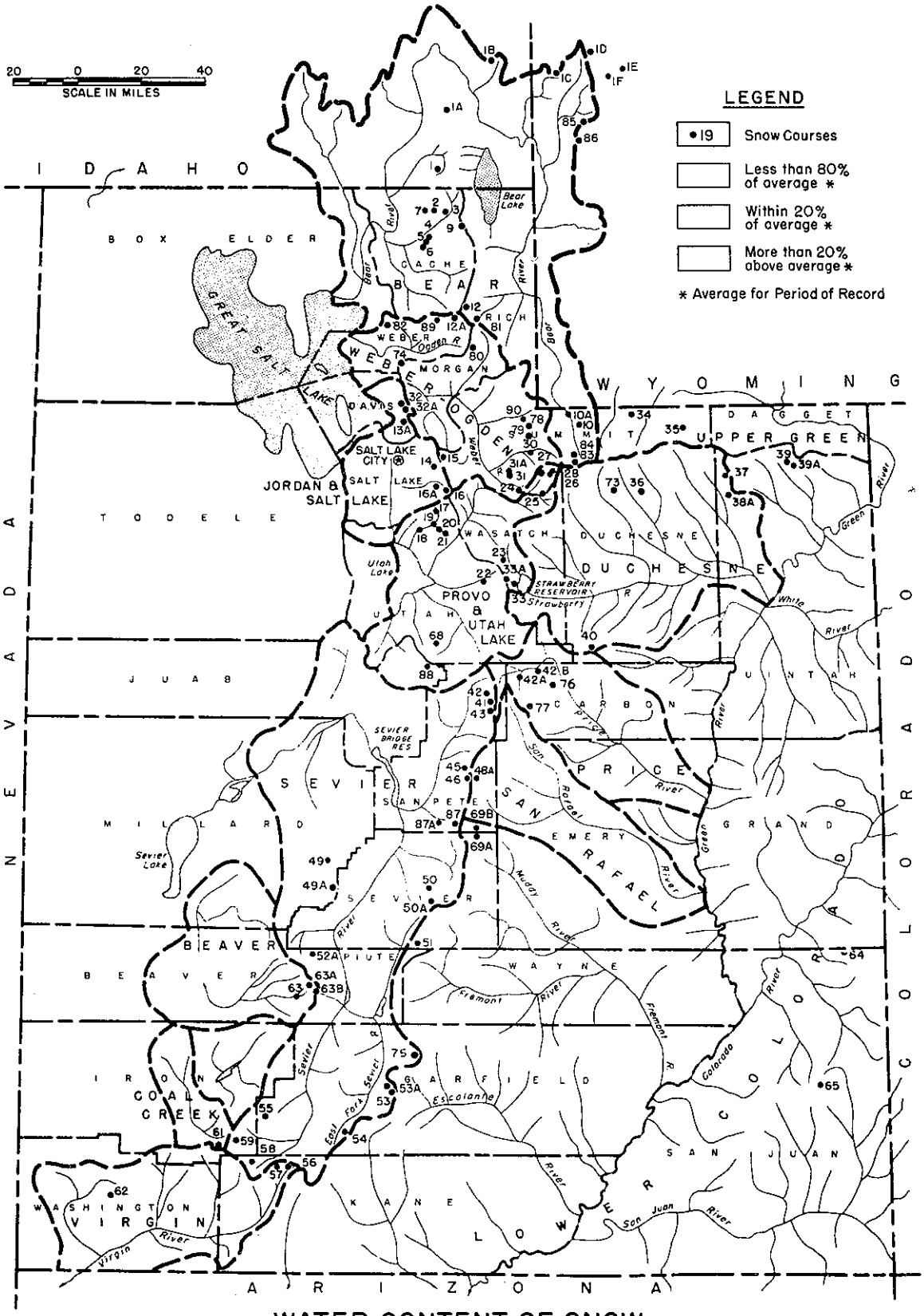

WATER CONTENT OF SNOW
Based on Snow Surveys Made on UTAH WATERSHEDS

AGR-SCS-ALBUQUERQUE, N. MEX. M-93-2 JANUARY 1952

WATER SUPPLY OUTLOOK

for UTAH

MAY 1, 1954

Very dry and warm climatic conditions during April have materially reduced water supply prospects from that forecast a month ago.

The above average temperatures have also had the effect of reducing the prospects for late season runoff thru causing earlier than usual snowmelt and runoff. This will prove of particular concern to water users dependent upon natural flow water rights.

Revised April through September runoff forecasts can be made for only two streams, Weber River near Oakley and Big Cottonwood Creek, near Salt Lake City. Weber River near Oakley is now forecast to yield 90,400 acre feet, or 67% of the 1942-51 average. A month ago, prospects were for 78% of average flow. Average May 1 forecast error is 5.5%. Big Cottonwood Creek is forecast at 29,700 acre feet, or 73% of the ten year average. Last month prospects were for 85% of average. Average May 1 forecast error is 5.6%.

Commencing with this year, the May 1 bulletin will contain a section reporting April precipitation caught in non-recording rain gages which are located on or near existing snow courses. The precipitation catch is from the time of the April 1 snow survey to the time of the May 1 survey. During the coming summer the rain gage network will be extended to cover more watersheds, to the end that, after a sufficient record has been accumulated, a complete accounting of our water resources may be made. Fall precipitation data will be published in next year's January 1st bulletin.

STATUS OF RESERVOIR STORAGE MAY 1, 1954

BASIN and STREAM	RESERVOIR	USABLE CAPACITY (1000 OF ACRE FT.)	THOUSAND ACRE FEET IN STORAGE MAY FIRST 1954	1953	1952	1951	10-Yr.Avg. 1942 - 51
Bear River System							
Bear River	Bear Lake	1421.0	959.0	1026.2	1033.4	1148.0	870.5
Little Bear River	Hyrum	15.3	15.3	15.5	15.5	10.9	14.4
Weber-Ogden Rivers							
Ogden River	Pine View	43.6	30.9	36.7	34.4	26.7	30.7
Weber River	East Canyon	28.7	19.4	24.5	25.3	26.5	25.9
Weber River	Echo	73.9	49.0	62.4	53.5	55.4	58.0
Provo River & Utah Lake							
Provo River	Deer Creek	149.7	110.3	113.8	122.6	132.0	81.2
Spanish Fork River	Strawberry*	270.0	208.4	232.8	144.8	134.4	96.0
Utah Lake	Utah Lake*	1149.0	766.3	946.2	992.2	761.6	632.5
Sevier River System							
Sevier River	Otter Creek	52.5	33.0	51.7	39.9	32.4	48.6
Sevier River	Piute	74.0	58.6	59.0	61.4	39.4	64.3
Sevier River	Sevier Bridge	236.0	155.6	215.4	134.4	124.0	202.4
Beaver River							
Beaver River	Rocky Ford	23.3	12.7	19.6	19.2	11.2	20.0
Duchesne River							
Lake Fork River	Moon Lake	35.8	13.9	22.4	26.6	15.6	16.0
Price River							
Price River	Scofield	65.8	37.1	54.0	43.5	37.1	21.2

*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.

UTAH SNOW SURVEYS MAY 1, 1954

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1953	1952	Average	Years of Record
GREAT BASIN DRAINAGE									
Bear River above Harer, Idaho									
Trial Lake*	26	9800	4/29	55.0	21.8	21.8	42.0	31.1	6
Monte Cristo	12	8960	4/27	40.5	18.3	22.6	36.1	28.3	3
Snyder Basin R.S. (Wyo.)	1E	8040	4/27	25.0	6.5	--	16.7	8.7	17
Piney-LaBarge (Wyo.)*	1F	8820	4/26	24.0	7.9	--	22.6	14.5	17
Big Park (Wyo.)	85	8700	4/27	50.0	19.8	16.7	28.9	22.8	2
Bear River below Harer, Idaho									
Garden City Summit	9	8000	4/28	20.7	9.3	13.0	--	14.4	2
Tony Grove R.S.	3	6250	4/28	0.0	0.0	0.0	0.0		
Mt. Logan	6	9000	4/28	52.9	23.0	26.9	33.8	27.9	27
Spring Hollow (upper)	5	8000	4/28	50.8	21.6	24.2	28.0	24.7	27
Spring Hollow (lower)	4	7000	4/28	0.0	0.0	3.1	Patchy	9.1	15
Monte Cristo	12	8960	4/27	40.5	18.3	22.6	36.1	28.3	3
Dry Bread Pond	12A	8230	4/27	13.7	6.0	12.9	22.2	15.8	3
Beaver Creek-Skunk Creek*	89	7150	4/27	0.0	0.0	0.6	11.7	6.2	2
Ogden River									
Monte Cristo*	12	8960	4/27	40.5	18.3	22.6	36.1	28.3	3
Dry Bread Pond	12A	8230	4/27	13.7	6.0	12.9	22.2	15.8	3
Beaver Creek-Skunk Creek	89	7150	4/27	0.0	0.0	0.6	11.7	6.2	2
Sagebrush Flat	89A	6300	4/27	0.0	0.0	0.0	--	0.0	1
Ben Lomond Peak	82	8000	4/30	31.5	13.1	33.8	46.6	36.6	3
Ben Lomond (lower)	82A	6000	4/30	0.0	0.0	--	New Course		
Mt. Ogden	74	8600	4/29	31.3	13.3	31.8	39.5	33.4	3
Snow Basin	74A	6500	4/29	0.0	0.0		New Course		
Weber River									
Trial Lake*	26	9800	4/29	55.0	21.8	21.8	42.0	31.1	6
Smith & Morehouse	30	7600	4/29	Trace		4.7	13.5	7.7	3
Redden Mine (upper)	31	9000	4/29	7.9	2.9	14.4	27.8	19.7	3
Redden Mine (lower)	31A	8500	4/29	Patchy		12.6	26.0	17.6	3
Beaver Creek R.S.	24	7500	4/29	trace		0.0	Trace	0.0	3
Chalk Creek #2	79	9100	4/28	43.5	17.3	19.9	36.2	27.5	3
Chalk Creek #1	78	8200	4/28	16.8	6.1	10.9	19.2	13.0	3
Chalk Creek #3	90	7560	4/28	0.0	0.0	0.0	Trace	0.0	2

* On adjacent drainage.

UTAH SNOW SURVEYS MAY 1, 1954

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1953	1952	Average	Years of Records
GREAT BASIN DRAINAGE									
Weber River - Cont'd									
Monte Cristo*	12	8960	4/27	40.5	18.3	22.6	36.1	28.3	3
Silver Lake*	16	8725	4/29	34.0	14.3	23.9	37.8	29.4	3
Parley's Canyon Summit	15	7500	4/30	0.0	0.0	14.9	22.2	13.3	3
Jordan River & Great Salt Lake									
Silver Lake	16	8720	4/29	34.0	14.3	23.9	37.8	29.4	3
Mill D. South Fork	16A	7400	4/29	0.0	0.0	16.0	20.4	18.2	2
Parley's Canyon Summit*	15	7500	4/30	0.0	0.0	14.9	22.2	13.3	3
Lamb's Canyon	14	6600	4/29	0.0	0.0	8.6	13.0	7.2	3
Farmington Canyon (upper)	32A	8000	4/29	45.4	17.3	34.1	45.0	36.7	3
Farmington Canyon (lower)	32	6950	4/29	6.1	2.5	25.2	37.0	26.0	3
Provo River & Utah Lake									
Trial Lake	26	9800	4/29	55.0	21.8	21.8	42.0	31.1	6
Soapstone R.S.	25	7800	4/29	Trace		3.6	10.9	7.3	3
Payson R.S.	68	8840	4/30	1.4	0.6	--	--	--	
Rock Bridge	68A	6750	4/30	0.0	0.0	--	--	--	
Timpanogos Divide	21	8200	4/29	30.7	14.8	12.6	35.3	18.9	13
Sevier River above Richfield									
Cedar Breaks	59	10390	5/4	46.8	18.5	9.4	--	17.3	2
Midway Valley	59A	9400	5/4	48.9	20.6		New Course		
Duck Creek R.S.	58	8560	4/29	4.6	1.6	0.9	20.7	7.2	3
Harris Flat R.S.	57	7700	4/29	0.0	0.0	0.0	Trace	0.0	3
Widtsoe-Escalante Summit	53	9500	4/29	0.0	0.0	--	--	--	
Widtsoe-Escalante #2	53A	9500	4/29	0.0	0.0	--	--	--	
Big Flat*	63B	10000	5/5	42.1	15.5	10.4	34.2	22.3	2
Sevier River below Richfield (Including San Pitch River)									
Farnsworth Lake	50A	9900	4/29	27.6	9.8	--	--	--	
Gooseberry R.S.	50	8400	4/29	0.0	0.0	--	--	--	

* On adjacent drainage.

UTAH SNOW SURVEYS MAY 1, 1954

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1953	1952	Average	Years of Record
GREAT BASIN DRAINAGE									
Sevier River below Richfield - Cont'd									
Huntington-Horseshoe	43	9800	5/3	37.8	14.5	22.0	--	28.0	3
Gooseberry Reservoir	41	8700	5/3	15.8	5.1	16.4	--	21.0	6
G.B.R.C. Meadows	46	10000	4/29	49.9	19.3	26.3	46.6	36.4	2
G.B.R.C. Headquarters	45	8700	4/29	6.8	2.3	13.7	25.5	19.6	2
Mt. Baldy R.S.	87	9500	4/27	39.0	13.7	23.9	--	23.9	1
Beaver Dams	87A	8000	4/27	0.0	0.0	6.2	--	6.2	1
Beaver River									
Big Flat	63B	10000	5/5	42.1	15.5	10.4	34.2	22.3	2
Otter Lake	63A	9300	5/5	31.7	10.4	7.4	28.1	17.8	2
Merchants Valley	63	8200	5/5	0.0	0.0	Trace	9.3	4.7	2
Coal Creek									
Cedar Breaks	59	10390	5/4	46.8	18.5	9.4	--	17.3	2
Midway Valley*	59A	9400	5/4	48.9	20.6		New Course		
Webster Flat	61	9200	5/4	16.2	7.0	Trace	28.1	14.0	2
COLORADO RIVER BASIN									
Upper Green River									
King's Cabin (upper)	39	8800	5/4	8.7	3.1	1.8	13.6	7.7	2
King's Cabin (lower)	39A	8600	5/4	3.2	1.3	1.1	11.6	6.4	2
Duchesne River									
Trial Lake*	26	9800	4/29	55.0	21.8	21.8	42.0	31.1	6
Lakefork Mountain	36	10500	5/4	23.4	8.8	6.1	18.7	12.4	2
Lakefork Mountain #2	36A	8900	5/4	0.0	0.0	--	--	--	
Lakefork Mountain #3	36B	8100	5/4	0.0	0.0	--	--	--	
Paradise Park	37	10500	5/6	30.9	12.5	--	20.7	20.7	1
Mosby Mountain (lower)	38A	9500	5/6	21.6	8.9	--	--	--	
Price River									
Huntington-Horseshoe	43	9800	5/3	37.8	14.5	22.0	--	28.0	3
Gooseberry Reservoir	41	8700	5/3	15.8	5.1	16.4	--	21.0	6

* On adjacent drainage.

UTAH SNOW SURVEYS MAY 1, 1954

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS 1954 Date of Survey	1954 Snow Depth (In.)	1954 Water Content (In.)	Past Record Water Content (In.) 1953	1952	Average	Years of Record
COLORADO RIVER DRAINAGE									
San Rafael River									
Huntington-Horseshoe	43	9800	5/3	37.8	14.5	22.0	--	28.0	3
Seeley Creek R.S.	48A	10000	4/29	20.3	6.6	--	32.2	32.2	1
G.B.R.C. Meadows*	46	10000	4/29	49.9	19.3	26.3	46.6	36.4	2
Muddy River									
Mt. Baldy R.S.*	87	9500	4/27	39.0	13.7	23.9	--	23.9	1
Fremont River									
Farnsworth Lake*	50A	9900	4/29	27.6	9.8	--	--	--	
Escalante River									
Widtsoe-Escalante Summit	53	9500	4/29	0.0	0.0	--	--	--	
Widtsoe-Escalante #2	53A	9500	4/29	0.0	0.0	--	--	--	
Virgin River									
Cedar Breaks	59	10390	5/4	46.8	18.5	9.4	--	17.3	2
Webster Flat	61	9200	5/4	16.2	7.0	Trace	28.1	14.0	2
Duck Creek R.S.	58	8560	4/29	4.6	1.6	0.9	20.7	7.2	3
Harris Flat R.S.	57	7700	4/29	0.0	0.0	--	Trace	--	

* On adjacent drainage.

APRIL PRECIPITATION - 1954

(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 1954	Precipitation 1954	Past Record 1953	Past Record 1952	Past Record Years Record	Past Record Departure
GREAT BASIN DRAINAGE							
Bear River above Harer, Idaho							
Trial Lake*	9800	4/29	1.50	3.10	2.60	2	—
Bear River below Harer, Idaho							
Dry Bread Pond	8230	4/27	2.70	3.15	—	1	—
Ogden River							
Dry Bread Pond	8230	4/27	2.70	3.15	—	1	—
Weber River							
Trial Lake*	9800	4/29	1.50	3.10	2.60	2	—
Chalk Creek #1	8200	4/28	1.05	3.10	—	1	—
Silver Lake (Brighton)(2)*	8725	5/1	2.29	5.70	3.00	23**	-1.60
Mt. Dell(2)*	5500	5/1	2.50	4.12	1.82	19**	-0.20
Parley's Canyon Summit	7500	No Report		6.30	3.6	2	
Jordan River & Great Salt Lake							
Silver Lake (2)	8725	5/1	2.29	5.70	3.00	23**	-1.60
Mt. Dell (2)	5500	5/1	2.50	4.12	1.82	19**	-0.20
Farmington Rice (3)	7000	5/1x	2.20	7.31	4.80	14	-2.81

* Adjacent Drainage. **Period of Snow Surveys. x Estimated

(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 data figured from date of Lamb's Canyon Snow Survey.

APRIL PRECIPITATION - 1954

(Measured at or near Snow Courses)

Drainage Basin and Daingage Location	Elev.	April Precipitation from Date of April 1 Snow Survey to Approximately May 1					
		Date of Reading 1954	Precip-itation 1954	Past Record 1953	Past Record 1952	Past Record Years Record	Past Record De-partures
GREAT BASIN DRAINAGE							
Provo River & Utah Lake							
Trial Lake	9800	4/29	1.50	3.10	2.60	2	--
East Portal (4)	7560	5/1x	1.25	1.95	1.25	5	-0.16
Timpanogas Divide (5)	8200	4/29	2.50	5.15	2.91	15	-1.29
Sevier River above Richfield							
Webster Flat*	9200	5/4	1.10	3.10	--	1	--
Duck Creek R.S.	8560	4/29	1.00	2.40	--	1	--
Big Flat*	10000	5/5	1.30	3.10	--	1	--
Sevier River below Richfield (including San Pitch River)							
Gooseberry Reservoir	8700	5/3	1.60	--	--	--	--
G.B.R.C. Meadows (3)	10000	5/1x	1.59	5.58	--	11	-2.44
G.B.R.C. Headquarters (3)	8700	5/1x	1.26	5.58	3.14	18	-2.35
Beaver River							
Big Flat	10000	5/5	1.30	3.10	--	1	--
Coal Creek							
Webster Flat	9200	5/4	1.10	3.10	--	1	--

* Adjacent Drainage. x Estimated.
(3) Data supplied by Forest Service
(4) Data supplied by Strawberry River Water Users Association.
(5) Data supplied by National Park Service.

APRIL PRECIPITATION - 1954

(Measured at or near Snow Courses)

Drainage Basin / Raingage Location	Elev.	April Precipitation from Date of April 1 Snow Survey to Approximately May 1: Date of Reading 1954	Precipitation 1954	Past Record: 1953	1952	Years Record	Departures
COLORADO RIVER DRAINAGE							
Upper Green River							
King's Cabin (upper)	8800	5/4	1.80	2.80	--	1	--
Duchesne River							
Trial Lake*	9800	4/29	1.50	3.10	2.60	2	--
East Portal (4)*	7560	5/1x	1.25	1.95	1.25	5	-0.16
Lakefork Mountain	10500	5/4	1.20	--	--	--	--
Price River							
Gooseberry Reservoir	8700	5/3	1.60	--	--	--	--
Virgin River							
Webster Flat	9200	5/4	1.10	3.10	--	1	--
Duck Creek R.S.	8560	4/29	1.00	2.40	--	1	--

* On Adjacent Drainage
(4) Data supplied by Strawberry River Water Users Association
x Estimated

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					
Trial Lake*	26	5	2S	9E	9800
Machine Crossing	84	1	1S	9E	9300
Head of Bear River	10	15	2N	10E	8600
Goodman Ranch	10A	19	3N	10E	7900
Monte Cristo	12	3	8N	4E	8960
Poison Meadows (Wyoming)*	1D	29	30N	116W*	8500
Snyder Basin R.S. (Wyoming)*	1E	15	29N	114W*	8040
Piney-LaBarge (Wyoming)*	1F	19	29N	114W*	8820
Big Park (Wyoming)	85	7	27N	117W*	8700
Kelly R.S. (Wyoming)	86	13	26N	118W*	8200
Salt River Summit (Wyoming)	1C	32	29N	118W*	7900
Bear River below Harer, Idaho					
Garden City Summit	9	34	14N	4E	8000
Emigrant Summit (Idaho)	1A	21	12S[x]	42E[x]	7700
Emigration Canyon (mouth)	1G	24	12S[x]	42E[x]	6500
Slug Creek Divide (Idaho)	1B	10&15	10S[x]	44E[x]	7300
Franklin Basin (Idaho)	1	1&12	16S[x]	41E[x]	8200
Klondike Narrows	91	10	14N	3E	7400
Tony Grove Lake	2	5	13N	3E	8200
Tony Grove R.S.	3	11	13N	3E	6250
Mt. Logan	6	3	11N	2E	9000
Spring Hollow (upper)	5	35	12N	2E	8000
Spring Hollow (lower)	4	26	12N	2E	7000
Monte Cristo	12	3	8N	4E	8960
Dry Bread Pond	12A	19	8N	4E	8230
Beaver Creek-Skunk Creek*	89	22	8N	3E	7150
Ogden River					
Monte Cristo*	12	3	8N	4E	8960
Dry Bread Pond	12A	19	8N	4E	8230
Braver Creek-Skunk Creek	89	22	8N	3E	7150
Sagebrush Flat	89A	21	7N	3E	6300
Ben Lomond Peak	82	3	7N	1W	8000
Ben Lomond (lower)	82A	1	7N	1W	6000
Mt. Ogden	74	5	5N	1E	8600
Snow Basin	74A	32	6N	1E	6500

* On 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*	26	5	2S	9E	9800
Smith & Morehouse	30	25	1N	7E	7600
Redden Mine (upper)	31	1	2S	6E	9000
Redden Mine (lower)	31A	1	2S	6E	8500
Beaver Creek R.S.	24	28	2S	7E	7500
Chalk Creek #2	79	4	1N	8E	9100
Chalk Creek #1	78	17&20	2N	8E	8200
Chalk Creek #3	90	7	2N	8E	7500
Monte Cristo*	12	3	8N	4E	8960
Silver Lake*	16	35	2S	3E	8725
Parley's Canyon Summit	15	9&10	1S	3E	7500
Jordan River & Great Salt Lake					
Silver Lake	16	35	2S	3E	8720
Mill D. South Fork	16A	18	2S	3E	7400
Parley's Canyon Summit*	15	9&10	1S	3E	7500
Lamb's Canyon	14	19	1S	3E	6600
Barnard Creek	13A	34	3N	1E	8000
Farmington Canyon (upper)	32A	26	3N	1E	8000
Farmington Canyon (lower)	32	14	3N	1E	6950
Rocky Basin-Settlement Canyon	92	30	4S	3W	8900
Middle Canyon	94	8	4S	3W	7000
Provo River & Utah Lake					
Trial Lake	26	5	2S	9E	9800
Soapstone R.S.	25	9	3S	2E	7800
Daniels-Strawberry Summit	23	20	2S[x]	12W[x]	8000
East Portal	33	36	7S	6E	7560
Strawberry Divide	33A	34&35	7S	6E	8000
H obble Creek Summit	22	20	7S	5E	7300
Payson R.S.	68	30	10S	3E	8050
Rock Bridge	68A	14	10S	2E	6750
Timpanogos Divide	21	33	4S	3E	8200
Camp Altamont	20	29	4S	3E	7300
South Fork R.S.	19	24	4S	2E	6100
Dutchman R.S.	17	27	3S	3E	7500
Timpanogos Cave Camp	18	27	4S	2E	5500

* On 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	59	2	37S	9W	10390
Midway Valley	59A	26	37S	9W	9400
Dutchman Creek R.S.	58	11	38S	8W	8560
Harris Flat R.S.	57	24	38S	7 W	7700
Long Valley Junction*	56	22	38S	6W	7500
Panguitch Lake	55	4&5	36S	7W	8200
Bryce Canyon	54	36	36S	4W	8000
Widtsoe-Escalante Summit	53	22	34S	1W	9500
Widtsoe-Escalante #2	53A	22	34S	1W	9500
Fish Lake	51	35	26S	1E	8700
Box Creek	95	33	26S	2W	9800
Squaw Springs	96	3	27S	2W	9300
Big Flat*	63B	18	29S	4W	10000
Kimberly Mine	52A	11	27S	5W	8900
Sevier River below Richfield including San Pitch River)					
Farnsworth Lake	50A	27&33	23S	2E	9900
Gooseberry R.S.	50	32	23S	2E	8400
Huntington-Horseshoe	43	12	14S	5E	9800
Gooseberry Reservoir	41	25	13S	5E	8700
Mammoth R.S.-Cottonwood Creek	42	13&23	13S	5E	8800
G.B.R.C. Meadows	46	26&27	17S	4E	10000
G.B.R.C. Headquarters	45	21	17S	4E	8700
Mt. Baldy R.S.	87	19	19S	4E	9500
Beaver Dams	87A	27	19S	3E	8000
Pine Creek	49A	24	22S	4W	8700
Pine Creek-Chalk Creek	49	14	22S	4W	8500
Bear Canyon	49B	17	22S	3W	7200
Beaver River					
Big Flat	63B	18	29S	4W	10000
Otter Lake	63A	1	29S	5W	9300
Merchants Valley	63	8&9	29S	5W	8200
Coal Creek					
Cedar Breaks	59	2	37S	9W	10390
Midway Valley*	59A	26	37S	9W	9400
Webster Falt	61	20	37S	9W	9200

* On adjacent drainage.

INDEX OF SNOW COURSE LOCATIONS

Drainage Basin and Snow Course Name	Snow Course Number	Section	Township	Range	Elev.
COLORADO RIVER DRAINAGE					
Upper Green River					
Hewinta R.S.	34	33	3N	13E	9500
Hole-in-the-Rock	35	13	2N	15E	9150
Middle Beaver Creek	35A	31	3N	16E	8550
H ole-in-the-Rock R.S.	35B	32	3N	16E	8300
King's Cabin (upper)	39	22	1S	21E	8800
King's Cabin (lower)	39A	23&26	1S	21E	8600
Duchesne River					
Trial Lake*	26	5	2S	9E	9800
Daniels-Strawberry Summit*	23	20	2S[x]	12W[x]	8000
Strawberry Divide*	33A	34&35	7S	6E	8000
East Portal*	33	36	7S	6E	7560
Indian Canyon	40	2	11S	10E	9100
Brown Duck Lake	73	2	2N[x]	6W[x]	10300
Lakefork Mountain	36	2&3	2N[x]	5W[x]	10500
Lakefork Mountain #2	36A	17	2N[x]	4W[x]	8900
Lakefork Mountain #3	36B	29	2N[x]	4W[x]	8100
Paradise Park	37	7	3N[x]	1E[x]	10500
Mosby Mountain (lower)	38A	5	2N[x]	1E[x]	9500
Price River					
Huntington-Horseshoe	43	12	14S	5E	9800
Gooseberry Reservoir	41	25	13S	5E	8700
Mammoth R.S.-Cottonwood Creek*	42	13& 23	13S	5E	8800
Mud Creek	77	4	14S	11W	8600
Staley Ranch	42A	32	12S	7E	7600
Dry Valley Divide	42B	20	12S	8E	7800
Indian Canyon	40	2	11S	10E	9100
San Rafael River					
Huntington-Horseshoe	43	12	14S	5E	9800
Seely Creek R.S.	48A	25	17S	4E	10000
G.B.R.C. Meadows*	46	26& 27	17S	4E	10000

* On 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					
Muddy River					
Black Fork	69A	34	20S	4E	9200
Dill's Camp	69B	27	20S	4E	9200
Mt. Baldy R.S.*	87	19	19S	4E	9500
Fremont River					
Farnsworth Lake*	50A	27&33	23S	2E	9900
Fish Lake	51	35	26S	1E	8700
Black's Flat-U.M. Creek	97	33	24S	3E	9250
Donkey Reservoir	98	9	30S	4E	9800
Escalante River					
Widtsoe-Escalante Summit	53	22	34S	1W	9500
Widtsoe-Escalante #2	53A	22	34S	1W	9500
Virgin River					
Cedar Breaks	59	2	37S	9W	10390
Midway Valley	59A	26	37S	9W	9400
Webster Flat	61	20	37S	9W	9200
Duck Creek R.S.	58	11	38S	8W	8560
Harris Flat R.S.	57	24	38S	7W	7700
Long Valley Junction	56	22	38S	6W	7500
Pine Valley	62	3	40S	15W	9150
Lower Colorado River (southeastern Utah)					
LaSal Mountain	64	5	27S	24E	8800
Buckboard Flat	65	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