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

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE
AND
STATE ENGINEER OF WYOMING

Data included in this report were obtained by the agencies named above in cooperation with the U. S. Forest Service, Bureau of Reclamation, National Park Service, and other Federal, State and local organizations.

AS OF

MAY 1, 1955

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY
AND WATER SUPPLY FORECAST REPORTS.

Forecasts by U. S. Weather Bureau of total annual streamflow October-September, inclusive, at more than 300 gaging stations are issued monthly January through May in the publication WATER SUPPLY FORECASTS FOR THE WESTERN UNITED STATES.

Weather Bureau forecasts of runoff presented in that bulletin are computed from procedures based on mathematical analysis of the relation between precipitation and runoff.

The Weather Bureau bulletins may be secured by writing to:

Hydrblogist in Charge
River Forecast Center
U. S. Weather Bureau
712 Federal Office Building
Kansas City 6, Missouri

For current information on local river and flood conditions, reference should be made to the appropriate River District Office, listed below:

Meteorologist in Charge.....Green River and
Weather Bureau Airport Station tributaries
Box 517
Grand Junction, Colo.

Meteorologist in Charge.....Snake River and
Weather Bureau Airport Station tributaries
Box 1718
Boise, Idaho

Meteorologist in Charge.....Yellowstone River
Weather Bureau Airport Station and tributaries
Box 1338
Billings, Montana

Climatologist.....North Platte River
Weather Bureau Office and tributaries
Box 1079
Denver, 1, Colo.

State of Wyoming

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS AND WATER FORECASTS

FOR

WYOMING

Issued
May 9, 1955

Report Prepared
by
George W. Peak
Snow Survey Leader

Soil Conservation Service
and
State of Wyoming

345 East 2nd Street
P. O. Box 699
Casper, Wyoming

Issued by

B. H. Hopkins
State Conservationist
Soil Conservation Service

L. C. Bishop
State Engineer of Wyoming
Cheyenne, Wyoming

PRELIMINARY WATER SUPPLY OUTLOOK FOR WYOMING

May 1, 1955

In general the water supply prospect for the State of Wyoming is less than that for the April 1, forecast. Precipitation during April was far below normal as indicated by the May 1, survey of the accumulation in the snow pack. The first duty of snow melt is to bring the soil to field capacity and the amount of water required for this function each spring, is withheld from the creeks and rivers. Last fall, the soil storage was below normal as winter came on, so this above normal deficit will take the first melted snow water.

Reservoir storage for May 1, is at 76 percent of the 1943-1952 normal for this date, indicating that the total amount of runoff and storage will be about 70 percent of the 1943-1952 average and less than the supply for the 1954 season.

NORTH PLATTE BASIN

The May 1, snow pack on the North Platte above Seminoe is 73 percent of the average snow cover for this date. The runoff is expected to be 500,000 acre-feet at Saratoga, 79,000 at Hanna and 56,000 from the Sweetwater for a total of 635,000, or 69 percent of the 1943-1952 average. May 1, active storage on the North Platte in Wyoming totals 865,000 acre-feet, or 68 percent of normal.

GREEN RIVER BASIN

The snow pack in the Upper Green River Basin in Wyoming dropped to 75 percent of normal, however, very little snow remains on the lower elevation areas. The April 1, - September 30, runoff for this basin is expected to be 750,000 acre-feet, or 50 percent of the ten year average.

PRELIMINARY WATER SUPPLY OUTLOOK FOR WYOMING (Con't.)

May 1, 1955

SNAKE RIVER BASIN

Precipitation, during April, was very close to normal in the Snake River Basin above Moran. The expected runoff from this area remains the same as the April 1, forecast which was 770,000 acre-feet for the April 1, - September 30, discharge into Jackson Lake. This figure is 84 percent of the 1943-1952 average runoff of 918,000.

Storage in Jackson Lake is 503,000 acre-feet, as compared to an average of 520,000.

The discharge of the entire Snake River Basin in Wyoming is expected to be 3,300,000 at Heise, Idaho, or 79 percent of the ten year average.

LOWER YELLOWSTONE BASIN

Snow cover in the Wind River above Riverton is 89 percent of normal. Below normal temperatures during April have held up the snow melt and the soil recharge in this area, therefore the existing soil moisture deficit and the expected heavy diversions above Riverton, to make up for the light April precipitation, will reduce the discharge at this station to about 47 percent of normal.

The same conditions exist on the Popo Agie water shed. The snow cover is standing at 88 percent with an expected harvest of 280,000 acre-feet at Riverton, or about 70 percent of the normal runoff.

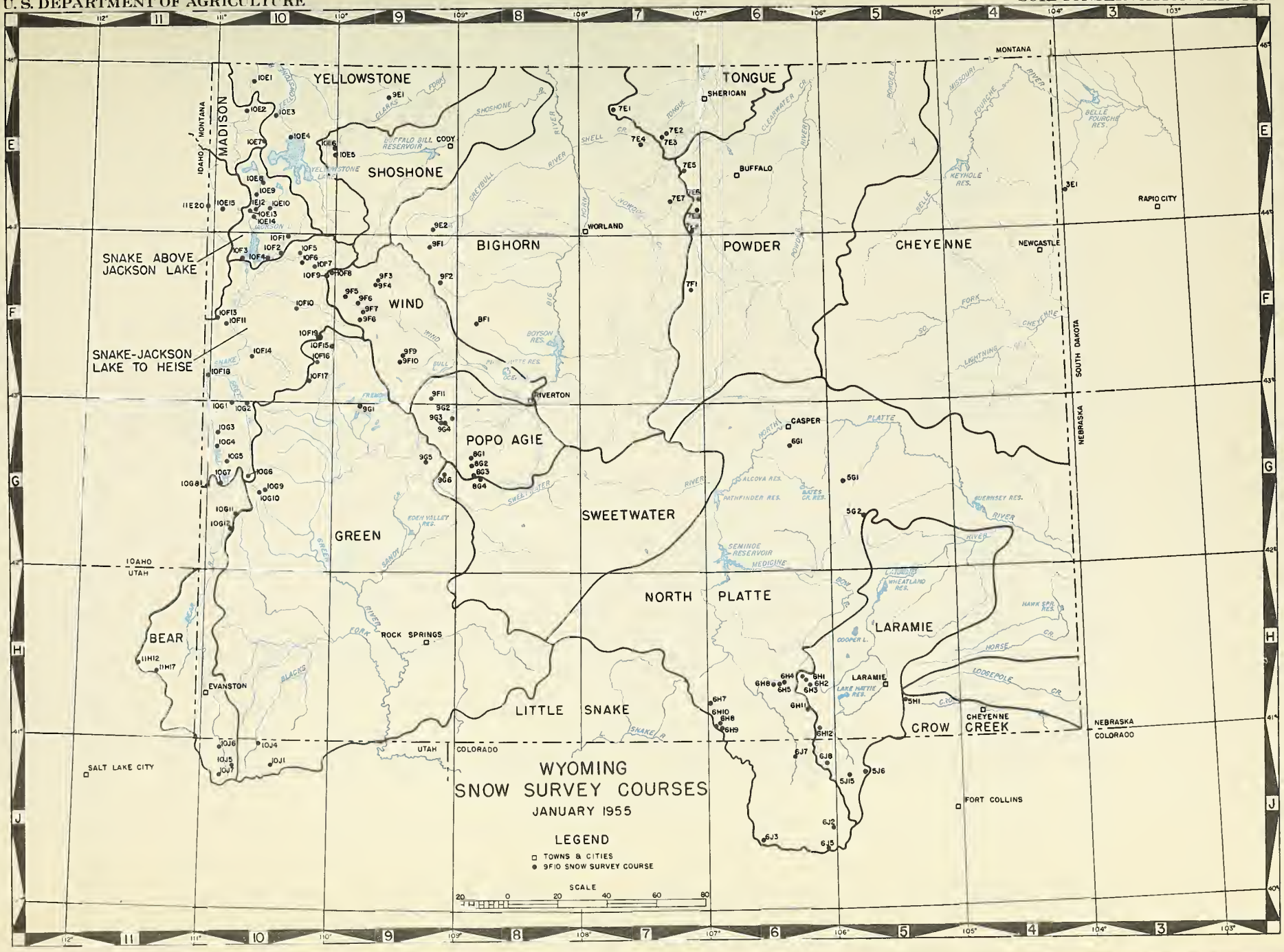
Boysen and Buffalo Bill reservoirs are standing at 93 percent and 43 percent of their respective ten year averages. The April 1, - September 30, discharge into Boysen is estimated to be 645,000 at 60 percent, and the Shoshone forecast is 560,000 acre-feet, or 70 percent of the 1943-1952, average.

THE POWDER AND TONGUE RIVER BASINS

The flow from the Big Horn Mountains is expected to range from 85 percent at Buffalo, to 93 percent for the Powder at Arvada and an estimated 100 percent for the Tongue at Dayton. The mountain soil in these areas is believed to be close to field capacity, requiring little more of the existing snow pack.

U. S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE



INDEX TO WYOMING SNOW COURSES

Drainage Basin and Course Name	Wyoming Number	Location: Elev.	Sec. Lat.	Twp.	Range Long.	Record Began	Measuring Dates[a]	Measured By:[b]
MISSOURI RIVER DRAINAGE								
YELLOWSTONE								
Canyon	10E3	7750	44°44'		110°30'	1938	1,2,3,4,5	4
Lake Camp	10E4	7850	44°34'		110°24'	1937	1,2,3,4,5	4
Lodgepole	9E1	8200	32	56N	106W	1940	4,5	1,4
Lupine Creek	10E1	7300	44°54'		110°37'	1938	1,2,3,4,5	2
WIND RIVER								
Brooks Lake #3	10F8	9200	23	44N	110W	1939	2,3,4,5	4
Burroughs Creek	9F4	8800	15	43N	107W	1948	2,3,4,5	4
Dinwoodie	9F10	10000	9	38N	105W	1948	2,3,4,5	4
Dry Creek	9F9	9500	34	4N	105W	1948	2,3,4,5	4
DuNoir	9F6	8750	27	42N	108W	1940	2,3,4,5	4
Geyser Creek	9F7	8500	12	41N	108W	1948	2,3,4,5	4
Little Warm	9F8	9500	24	41N	108W	1948	2,3,4,5	4
Sheridan R.S.	9F5	7500	3	42N	109W	1939	2,3,4,5	4
T-Cross Ranch	9F3	8000	1	43N	107W	1940	2,3,4,5	4
Togwotee Pass	10F9	9600	29	44N	110W	1936	2,3,4	5
POPO AGIE RIVER								
Blue Ridge	8G2	9500	23	31N	101W	1939	2,3,4,5	1
Hobbs Park	9G3	10000	22	2S	3W	1948	2,3,4,5	4
Mosquito Park R.S.	9G4	9500	23	2S	3W	1940	2,3,4,5	4
Sawmill Glade	8G1	8500	3	31N	101W	1939	2,3,4,5	4
South Pass	8G3	9000	13	30N	101W	1939	2,3,4,5	4
St. Lawrence R.S.	9F11	9000	26	1N	1W	1940	2,3,4,5	4
Trout Creek	9G2	8400	5	2S	2W	1948	2,3,4,5	4
BIG HORN RIVER								
Beavers Mill	9F2	8900	6	43N	102W	1948	2,3,4,5	4
Owl Creek	8F1	8700	36	43N	101W	1948	2,3,4,5	4
Tensleep R.S.	7E7	8300	30	49N	86W	1935	4,5	1,4
Timber Creek	9E2	8800	25	47N	103W	1948	4,5	1,4
Ranger Creek	7E4	8800	32	53N	88W	1935	4,5	1
Wood River	9F1	8000	28	46N	103W	1939	2,3,4,5	4
MADISON RIVER								
Norris Basin	10E2	7500	44°44'		110°42'	1936	3,4	2
Thumb Divide	10E7	7900	44°22'		110°35'	1946	1,2,3,4,5	5
SHOSHONE RIVER								
Sylvan Pass	10E5	7100	12	52N	110W	1936	1,2,3,4,5	2
East Entrance	10E6	7000	17	52N	109W	1948	1,2,3,4,5	2
TONGUE RIVER								
Burgess R.S.	7E1	7900	36	56N	89W	1950	3,4,5	4
Dome Lake	7E3	8800	11	53N	87W	1950	3,4,5	4
Big Goose	7E2	7700	4	53N	86W	1935	4,5	4
POWDER RIVER								
Red Fork	7F1	7000	18	43N	85W	1936	4,5	4
Sour Dough	7E6	8500	17	49N	84W	1936	4,5	1
Soldier Park	7E5	8700	36	51N	85W	1950	3,4,5	4
Muddy Pass	7E8	9700	11	48N	85W	1950	3,4,5	1,4
North Powder	7E9	8500	5	47N	85W	1951	3,4,5	4
SWEETWATER								
Grannier Meadows	8G4	9000	19	30N	100W	1937	2,3,4,5	4
Larsen Creek	9G6	9000	12	30N	103W	1949	2,3,4,5	4
NORTH PLATTE								
Bottle Creek	6E8	8200	24	1N	85W	1936	2,3,4,5	1,4
Webber Spring	6H9	9000	27	14N	85W	1936	2,3,4,5	1,4
Old Battle	6H10	9800	29	14N	85W	1936	2,3,4,5	1,4
North French Creek	6H4	10200	27	16N	80W	1938	2,3,4,5	1,4
North Barrett Cr.#2	6H5	9400	30	16N	80W	1936	2,3,4,5	1,4
Ryan Park #2	6H6	8400	34	16N	81W	1936	2,3,4,5	1,4
Spring Creek	6H7	9000	32	15N	85W	1949	2,3,4,5	1,4
Albany	6H11	9400	18	14N	78W	1949	2,3,4,5	4
LaBonte	5G2	8450	11	27N	74W	1949	2,3,4,5	4
Boxelder	5G1	9000	31	30N	75W	1950	2,3,4,5	4
Casper Mountain	6G1	8700	16	32N	79W	1954	1,2,3,4,5	4
LARAMIE RIVER								
Brooklyn Lake	6H1	10200	11	16N	79W	1936	2,3,4,5	1,4
Fox Park	6H12	9200	21	13N	78W	1936	2,3,4,5	1
Libby Lodge #2	6H3	8700	29	16N	78W	1936	2,3,4,5	1,4
Rairpin Turn #2	6H2	9500	24	16N	79W	1936	2,3,4,5	1,4
CROW CREEK								
Pole Mountain #2	5H1	8700	35	15N	72W	1936	2,3,4,5	4

Drainage Basin and Course Name	Wyoming Number	Location: Elev.	Sec. Lat.	Twp.	Range Long.	Record Began	Measuring Dates[a]	Measured By:[b]
COLORADO RIVER DRAINAGE								
GREEN RIVER								
Dutch Joe R.S.	9G5	8700	32	37N	104W	1936	4,5	4
Mulligan Park	9G1	8900	17	35N	108W	1936	3,4,5	4
Kendall R.S.	10F15	7900	23	38N	110W	1936	3,4,5	4
Loomis Park	10F16	8500	14	37N	111W	1936	3,4,5	4
Snyder Basin R.S.	10G9	8040	15	29N	111W	1937	4,5	4
Piney-LaBarge	10G10	8820	19	29N	111W	1937	4,5	4
East Rim Divide	10F17	7950	32	37N	111W	1936	1,2,3,4,5	4
COLUMBIA RIVER DRAINAGE								
SNAKE RIVER BASIN (Above Jackson Lake)								
Arizona	10F1	6850	3	46N	113W	1919	1,2,3,4	5
Aster Creek	10E8	7700	44°17'		110°37'	1919	1,2,3,4,5	5
Base Camp	10F2	6900	20	46N	113W	1947	1,2,3,4,5	5
Coulter Creek	10E10	7600	44°09'		110°33'	1919	1,2,3,4,5	2
Glade Creek	10E13	7200	44°08'		110°44'	1919	1,2,3,4,5	5
Huckleberry Divide	10E14	7300	32	48N	115W	1919	1,2,3,4,5	5
Lewis Lake Divide	10E9	7900	44°13'		110°40'	1919	1,2,3,4,5	5
Moran	10F4	6800	8 & 17	45N	111W	1919	1,2,3,4	5
Moran Bay	10F3	6800	14	45N	116W	1919	1,2,3,4	5
Snake River Station	10E12	6780	44°08'		110°40'	1919	1,2,3,4,5	5
Thumb Divide	10E7	7900	44°22'		110°35'	1951	1,2,3,4	5
JACKSON LAKE TO HEISE								
Afton Ranger Sta.	10G4	6200	30	32N	118W	1936	1,2,3,4,5	1
Blackrock	10F7	8600	4	44N	111W	1936	2,3,4,5	5
Blind Bull	10G2	8750	6	34N	115W	1948	3,4	4
Bryan Flat	10F14	6250	9	38N	115W	1936	1,2,3,4,5	4
CCC Camp	10G7	7500	9	29N	118W	1936	1,2,3,4,5	1,4
Cottonwood Lake	10G5	7500	25	31N	118W	1936	3,4	1,4
Deadman Ranch	10G1	6534	28	35N	116W	1936	1,2,3,4,5	4
Four Mile Meadows	10F6	7770	35	45N	112W	1936	2,3,4	5
Greys Boundary	10F18	5800	33	37N	118W	1936	1,2,3,4,5	1,4
Gros Ventre	10F19	8750	36	40N	111W	1948	3,4	4
Grover Park Divide	10G3	7500	27	33N	118W	1936	1,2,3,4,5	1,4
Poison Meadows	10G6	8500	29	30N	116W	1948	3,4	4
Teton Pass #2	10F13	8500	24	41N	118W	1936	1,2,3,4	1
Togwotee Pass	10F9	9600	29	44N	110W	1936	2,3,4,5	5
Turpin Meadows	10F5	6930	14	45N	112W	1936	2,3,4	5
Yellowjacket	10F10	7675	33	42N	112W	1936	3,4,5	1
Snow King Mount. #1	10F11	7600	4	40N	117W	1949	Semi. Mo.	4
Snow King Mount. #2	10F12	7200	4	40N	117W	1954	Semi. Mo.	4
HEISE TO AMERICAN FALLS								
Bechler R.S.	11E20	6400	44°09'		111°03'	1936	1,2,3,4,5	2
Grassy Lake	10E15	7265	6	48N	117W	1940	1,2,3,4,5	5
BEAR RIVER								
Salt River Summit	10G8	7900	----	----	----	----	----	--
Big Park	10G11	8700	7	27N	117W	1951	3,4	4
Kelly R.S.	10G12	8200	13	26N	118W	1951	3,4	4

INDEX TO COLORADO SNOW COURSES

Drainage Basin and Course Name	Wyoming Number	Location: Elev.	Sec. Lat.	Twp.	Range Long.	Record Began	Measuring Dates[a]	Measured By:[b]
MISSOURI RIVER DRAINAGE								
NORTH PLATTE								
Deadman Hill	5J6	10200	26	10N	75W	1937	3,4,5	
Roach	6J8	9800	5	10N	77W	1940	2,3,4,5	4
McIntyre	5J15	9100	35	10N	76W	1949	2,3,4,5	
Park View	6J2	9200	24	5N	78W	1936	2,3,4,5	
Columbine	6J3	9300	21	5N	82W	1936	2,3,4,5	
Willow Cr. Pass	6J5	9500	1	4N	78W	1938	2,3,4,5	
Northgate	6J7	8500	7	11N	79W	1950	2,3,4,5	

INDEX TO SOUTH DAKOTA SNOW COURSES

Drainage Basin and Course Name	Wyoming Number	Location: Elev.	Sec. Lat.	Twp.	Range Long.	Record Began	Measuring Dates[a]	Measured By:[b]
MISSOURI RIVER DRAINAGE								
CHEYENNE RIVER								
Upper Spearfish	3E1	6500	21	3N	1E	1944	2,3,4	1

INDEX TO UTAH SNOW COURSES

Drainage Basin and Course Name	Wyoming Number	Location: Elev.	Sec. Lat.	Twp.	Range Long.	Record Began	Measuring Dates[a]	Measured By:[b]
COLUMBIA RIVER DRAINAGE								
BEAR RIVER								
Head of Bear River	10J5	8600	15	2N	10E	1935	4	
Goodman Ranch	10J6	7900	19	3N	10E	1937	4	
Hayden Fork	10J7	9300	1	1S	9E	1951	4,5	
Monte Cristo, R.S.	11H12	8960	3	8N	4E	1930	3,4,5	
Girl Hollow	11H17	8400	5	7N	5E	1951	3,4,5	
COLORADO RIVER DRAINAGE								
Hole-in-the-Rock	10J1	9150	13	2N	15E	1931	4	
Hewinta Ranger Sta.	10J4	9500	33	3N	13E	1930	4	

a. Numerals 1,2,3,4 and 5 refer to January 1, February 1, March 1, April 1, and May 1.

b. Numerals refer to Agency that secures the snow survey, as follows:

1. U. S. Forest Service
2. U. S. National Park Service
3. U. S. Indian Service
4. Soil Conservation Service
5. U. S. Bureau of Reclamation

Agr. S.C.S. Lincoln Jan. 1955 5S-13488

WYOMING DRAINAGE BASINS STREAMFLOW FORECASTS

May 1, 1955

BASIN AND TRIBUTARY	Seasonal Stream Flow in Thousands of Acre Feet				
	FORECAST		Measured Runoff		1943 to
	April	% of	April - September		1952
	September	Average	1953	1952	Average
UPPER YELLOWSTONE IN YELLOWSTONE PARK					
MADISON RIVER					
West Yellowstone (near)	180	84%	207	248	216
YELLOWSTONE RIVER					
Corwin Springs (at)	1610	80%	1649	2171	2012
CLARK FORK RIVER					
Chance (at)	408	65%	519	576	629
SNAKE RIVER BASIN					
SNAKE RIVER					
Moran (below)	770	84%	806	993	918
Heise, Idaho (near)	3300	79%	--	4363	4174
LOWER YELLOWSTONE BASIN					
WIND RIVER					
Riverton (at)	270	47%	239	354	575
BIGHORN RIVER					
Boysen Reservoir (below)	645	60%	611	884	1079
Kane (at)	820	54%	798	1276	1518
St. Xavier (near)	1375	60%	--	1286	2290
BULL LAKE CREEK					
Lenor (near)	160	80%	160	203	200
POPO AGIE RIVER					
Riverton (near)	280	70%	218	450	400
GREYBULL RIVER					
Meeteetse (at)	130	56%	157	278	233
Basin (near)	39	34%	37	173	116
SHOSHONE RIVER					
Buffalo Bill Dam (below)	560	70%	582	695	802
Byron (at)	377	60%	356	484	628
TONGUE RIVER					
Dayton (near)	115	100%	96	104	115
Acme (near)	247	90%	200	239	274
Decker, Montana (near)	254	90%	--	249	282

WYOMING DRAINAGE BASINS STREAMFLOW FORECASTS (Continued)

MAY 1, 1955

BASIN AND TRIBUTARY	Seasonal Stream Flow in Thousands of Acre Feet FORECAST April September	% of Average	Measured Runoff April - September 1953	1952	1943 to 1952 Average
POWDER RIVER					
Arvada (at)	132	93%	76	125	143
Moorhead, Montana (at)	205	72%	--	235	285
Locate, Montana (at)	265	73%	--	303	361
CLEAR CREEK					
Buffalo (near)	34	85%	27	35	40
Arvada (near)	101	80%	72	100	126
NORTH PLATTE BASIN					
SWEETWATER RIVER					
Alcova (at)	56	65%	42	100	86
NORTH PLATTE RIVER					
Saratoga (at)	500	70%	428	1053	718
MEDICINE BOW					
Hanna (near)	79	68%	60	144	116
LARAMIE					
Jelm (at)	65	64%	64	124	101
Lookout (at)	49	55%	28	96	89
UPPER COLORADO BASIN					
GREEN RIVER					
Linwood (at)	750	50%	1669	1651	1490
GREAT BASIN					
BEAR RIVER					
Evanston, Wyo. (near)	95	59%	113	268	161
Harer, Idaho (at)	155	45%	184	487	345
Smith's Fork, Border (near)	80	66%	99	126	122

COMPARISON OF SNOW COVER WITH THAT OF PREVIOUS YEARS
Summary of Snow Survey Data by Watersheds as of May 1, 1955

BASIN	NO. OF COURSES AVERAGED	YEARS OF RECORD	SNOW WATER EXPRESSED AS PERCENTAGE OF 1955	1954	1953	Average
Snake River Basin in Wyoming	8	3-9	95%	127%	101%	
Upper Yellowstone in Yellowstone Park	3	7-10	113%	123%	144%	
Madison River in Yellowstone Park	2	4-21	182%	145%	235%	
Lower Yellowstone - Shoshone River	1	14	--	--	115%	
Lower Yellowstone - Clark Fork	1	17	78%	81%	103%	
Lower Yellowstone - Wind River	14	6-19	83%	93%	89%	
Lower Yellowstone - Popo Agie River	6	6-19	89%	126%	88%	
Lower Yellowstone - Owl Creek	2	6-6	67%	44%	69%	
Lower Yellowstone - Greybull River	2	4-15	79%	66%	56%	
Lower Yellowstone - Tongue River	3	5-18	105%	61%	105%	
Lower Yellowstone - Shell Creek	2	6-18	109%	88%	119%	
Lower Yellowstone - Nowood Creek	3	5-19	144%	108%	130%	
Lower Yellowstone - Clear Creek on the Powder River	2	4-18	96%	83%	93%	
Lower Yellowstone - Crazy Woman Creek on the Powder River	3	3-18	125%	97%	114%	
North Platte above Seminoe Reservoir	14	5-19	127%	86%	73%	
North Platte - Sweetwater River	3	5-18	88%	145%	80%	
Laramie River Basin	9	6-19	116%	78%	64%	
Pole Mountain	1	18	--	--	--	
North Laramie Mountains	2	5-6	42%	75%	113%	
Upper Colorado - Green River	8	3-19	85%	76%	75%	

WYOMING SNOW SURVEYS, MAY 1, 1955

DRAINAGE BASIN AND SNOW COURSE	STATE	ELEV.	SNOW COVER MEASUREMENTS 1955 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1954	1953	Ave.	Years of Record
SNAKE RIVER BASIN IN WYOMING									
Lewis Lake Divide	Wyo.	7900	4/29	105	40.8	49.0	41.2	44.9	3
CCC Camp	Wyo.	7500	4/29	22	7.5	2.7	2.4	4.7	5
East Rim Divide	Wyo.	7950	4/28	25	8.2	10.7	11.3	10.9	9
Grassy Lake	Wyo.	7265	4/29	87	36.4	30.5	NR	23.1	12
Grover Park Divide	Wyo.	7500	5/2	24	7.8	3.1	4.6	4.7	5
Snow King Mountain	Wyo.	7600	5/2	29	7.8	10.6	7.5	10.5	4
Teton Pass No. 2	Wyo.	8500	4/29	96	35.2	40.4	39.0	40.7	6
Togwotee Pass	Wyo.	9600	4/29	84	30.6	37.0	31.7	33.8	6
UPPER YELLOWSTONE IN YELLOWSTONE PARK									
Canyon	Wyo.	7750	4/28	45	14.5	NR	NR	11.6	6
Cooke City	Mont.	7400	4/30	18	6.6	5.2	5.4	5.0	10
Lake Camp	Wyo.	7850	4/30	28	8.7	8.1	6.5	7.7	9
Lupine Creek	Wyo.	7300	4/30	26	10.5	9.5	9.0	5.2	7
LOWER YELLOWSTONE - SHOSHONE RIVER									
Sylvan Pass	Wyo.	7100	4/30	25	9.0	NR	NR	7.8	14
MADISON RIVER IN YELLOWSTONE PARK									
Norris Basin	Wyo.	7500	5/2	26	8.3	6.3	--	3.4	4
West Yellowstone	Mont.	6700	4/28	22	8.4	2.8	5.8	3.7	21
LOWER YELLOWSTONE - WIND RIVER									
Brooks Lake	Wyo.	9200	4/23	69	27.9	32.3	28.6	25.8	19
Burroughs Creek	Wyo.	8800	4/26	29	9.4	16.7	17.0	16.4	6
Dinwoody	Wyo.	10000	4/22	38	11.9	16.9	14.9	15.5	6
Dry Creek	Wyo.	9500	4/22	21	5.7	8.6	9.4	8.3	6
DuNoir	Wyo.	8750	4/25	21	6.8	8.3	6.3	6.9	13
Geyser Creek	Wyo.	8500	4/25	22	7.1	6.5	5.8	5.4	6
Hobbs Park	Wyo.	10000	4/29	53	19.0	22.6	11.9	23.1	6
Little Warm	Wyo.	9500	4/25	61	19.2	23.3	19.0	21.9	6
Mosquito R. S.	Wyo.	9500	4/29	22	8.0	7.4	7.7	7.1	9
St. Lawrence R. S.	Wyo.	9000	4/30	20	6.8	5.4	5.1	7.4	11
Sheridan R. S.	Wyo.	7500	4/23	11	4.7	4.6	5.8	2.4	14
T-Cross Ranch	Wyo.	8000	4/26	8	2.7	5.8	5.5	3.9	13
Togwotee Pass	Wyo.	9600	4/29	84	30.6	37.0	31.7	33.8	6
Trout Creek	Wyo.	8400	4/29	2	0.8	0.0	4.7	2.4	6

WYOMING SNOW SURVEYS, MAY 1, 1955

DRAINAGE BASIN AND SNOW COURSE	State	Elev.	SNOW COVER MEASUREMENTS 1955 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content(In.) 1954	1953	Ave.	Years of Record
LOWER YELLOWSTONE - POPO AGIE RIVER									
Blue Ridge	Wyo.	9500	5/1	28	11.0	12.3	9.3	12.4	15
Grannier Meadows	Wyo.	9000	5/1	35	13.1	16.0	9.7	14.0	18
Hobbs Park	Wyo.	10000	4/29	53	19.0	22.6	11.9	23.1	6
Mosquito R. S.	Wyo.	9500	4/29	22	8.0	7.4	7.7	7.1	9
Sawmill Glade	Wyo.	8500	5/1	8	3.2	2.0	5.6	6.8	15
South Pass	Wyo.	9000	5/1	37	14.0	16.8	10.2	14.0	15
LOWER YELLOWSTONE - OWL CREEK									
Beavers Mill	Wyo.	8900	5/4	20	5.1	8.7	14.3	8.0	6
Owl Creek	Wyo.	8700	5/4	20	5.8	7.6	10.4	7.7	6
LOWER YELLOWSTONE - GREYBULL RIVER									
Timber Creek	Wyo.	8800	4/30	9	2.7	3.1	NR	5.1	4
Wood River	Wyo.	8000	5/1	7	2.3	3.2	3.5	3.9	15
LOWER YELLOWSTONE - CLARK'S FORK									
Lodge Pole	Wyo.	8200	4/30	28	9.2	11.8	11.3	8.9	17
LOWER YELLOWSTONE - TONGUE RIVER									
Big Goose	Wyo.	7700	5/3	7	2.6	1.1	5.9	2.8	18
Dome Lake	Wyo.	8800	5/2	24	7.9	8.9	11.2	7.2	6
LOWER YELLOWSTONE - SHELL CREEK									
Dome Lake*	Wyo.	8800	5/2	24	7.9	8.9	11.2	7.2	6
Ranger Creek	Wyo.	8800	4/29	29	8.3	5.9	7.3	6.4	18

* Adjacent Basin

WYOMING SNOW SURVEYS, MAY 1, 1955

DRAINAGE BASIN AND SNOW COURSE	STATE	ELEV.	SNOW COVER MEASUREMENTS 1955 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content(In.) 1954	1953	Ave.	Years of Record
LOWER YELLOWSTONE - NOWOOD CREEK									
Muddy Pass	Wyo.	9700	4/30	33	9.5	7.8	10.0	8.3	5
Ranger Creek*	Wyo.	8800	4/29	29	8.3	5.9	7.3	6.4	18
Tensleep	Wyo.	8300	4/29	19	7.1	3.6	5.8	4.4	19
LOWER YELLOWSTONE - CLEAR CREEK ON THE POWDER RIVER									
Soldier Park	Wyo.	8700	5/5	12	4.5	3.6	3.8	4.3	4
Sour Dough	Wyo.	8500	4/29	17	4.2	5.5	6.7	5.1	18
LOWER YELLOWSTONE - CRAZY WOMAN CREEK ON THE POWDER RIVER									
Muddy Pass	Wyo.	9700	4/30	33	9.5	7.8	10.0	8.3	5
North Powder	Wyo.	8500	5/4	16	5.5	2.0	3.0	3.4	3
Sour Dough	Wyo.	8500	4/29	17	4.2	5.5	6.7	5.1	18
NORTH PLATTE ABOVE SEMINOE RESERVOIR									
Albany*	Wyo.	9400	4/30	10	4.1	2.0	10.4	11.3	6
Bottle Creek**	Wyo.	8200	4/26	29	10.0	7.0	9.9	9.6	19
Cameron Pass	Colo.	10300	4/28	44	16.9	17.5	21.8	23.7	19
Columbine Lodge	Colo.	9300	4/29	43	19.3	8.7	25.9	20.2	19
Fox Park*	Wyo.	9200	4/29	0	0.0	0.0	1.8	5.2	19
North Barrett Creek	Wyo.	9400	4/25	48	16.9	14.9	13.7	21.2	19
North Gate	Colo.	8500	4/29	0	0.0	0.0	1.8	2.5	5
North French Creek	Wyo.	10200	4/25	68	26.3	26.5	26.3	32.5	17
Old Battle	Wyo.	9800	4/26	66	26.0	24.2	27.2	33.4	19
Park View	Colo.	9200	4/29	7	1.5	0.8	6.6	7.0	19
Ryan Park	Wyo.	8400	4/25	21	7.7	3.2	3.9	7.1	19
Spring Creek**	Wyo.	9000	4/26	33	12.8	8.2	12.2	15.4	6
Webber Spring**	Wyo.	9000	4/26	35	13.0	9.0	13.7	16.8	19
Willow Creek Pass*	Colo.	9300	4/29	17	4.2	2.7	8.3	12.6	17

* Adjacent Basin
** Geological Survey Elevation

WYOMING SNOW SURVEYS, MAY 1, 1955

DRAINAGE BASIN AND SNOW COURSE	STATE	ELEV.	SNOW COVER MEASUREMENTS 1955 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content(In.) 1954	1953	Ave.	Years Record
NORTH PLATTE - SWEETWATER RIVER									
Grannier Meadows	Wyo.	8800	5/1	35	13.1	16.0	9.7	14.0	18
Larson Creek	Wyo.	9000	4/24	4	1.7	0.0	0.0	8.2	5
South Pass	Wyo.	9040	5/1	37	14.0	16.8	10.2	14.0	15
NORTH PLATTE - LARAMIE RIVER									
Albany	Wyo.	9400	4/30	10	4.1	2.0	10.4	11.3	6
Brooklyn Lake	Wyo.	10200	4/30	44	17.5	18.0	27.0	25.4	19
Deadman Hill	Colo.	10200	4/29	41	14.6	11.2	12.8	16.7	16
Fox Park	Wyo.	9200	4/29	0	0.0	0.0	1.8	5.2	19
Hairpin Turn	Wyo.	9500	4/29	22	6.7	6.5	11.7	11.4	19
Libby Lodge	Wyo.	8700	4/29	11	3.6	1.5	8.5	6.0	19
McIntryre	Colo.	9100	5/1	21	6.1	4.4	NS	8.8	6
Pole Mountain #2*	Wyo.	8700	5/2	0	0.0	0.4	0.0	2.1	18
Roach	Colo.	9800	4/30	45	16.4	15.7	15.9	20.4	14
NORTH PLATTE - POLE MOUNTAIN									
Pole Mountain	Wyo.	8700	5/2	0	0.0	0.4	0.0	2.1	18
NORTH PLATTE - NORTH LARAMIE MOUNTAINS									
Box Elder	Wyo.	9000	4/28	19	6.2	1.4	8.3	5.5	5
UPPER COLORADO - GREEN RIVER									
Big Park	Wyo.	8700	4/30	53	18.3	19.4	16.7	21.6	3
Dutch Joe	Wyo.	8700	4/24	5	1.9	0.9	0.6	4.0	18
East Rim Divide	Wyo.	7950	4/28	25	8.1	10.7	11.3	10.9	9
Kendall R. S.	Wyo.	7900	4/23	9	3.4	2.2	6.8	6.0	19
Loomis Park	Wyo.	8500	4/28	35	12.8	17.3	15.1	11.5	19
Mulligan Park	Wyo.	8900	4/26	20	6.0	8.5	6.5	6.9	19
Piney LaBarge	Wyo.	8820	4/28	26	9.3	7.9	14.7	14.2	19
Snyder Basin R. S.	Wyo.	8040	4/28	9	2.9	6.5	10.7	8.7	19

* Adjacent Basin

STATUS OF RESERVOIR STORAGE
WYOMING AND SOUTH DAKOTA
MAY 1, 1955

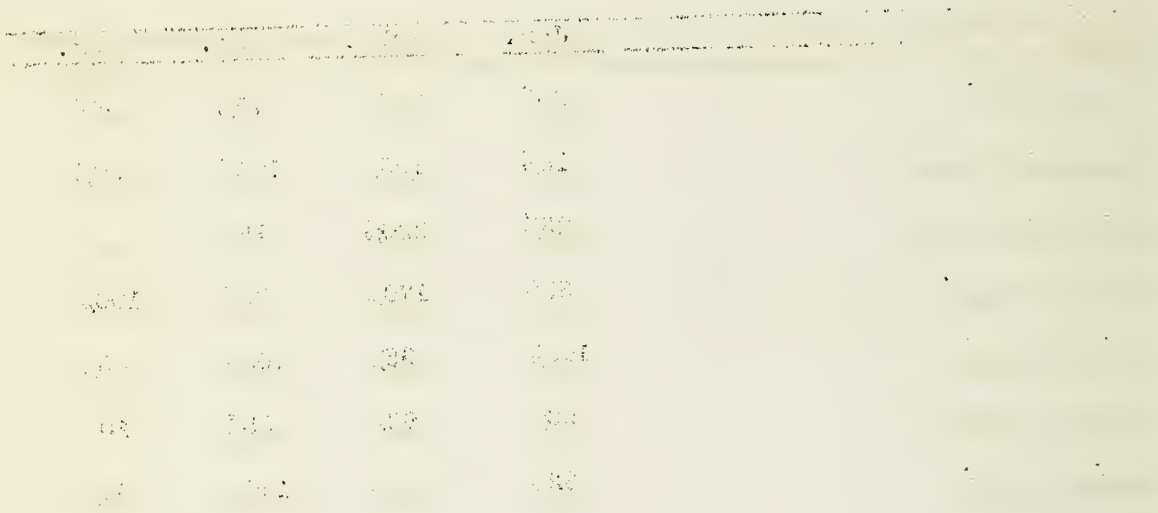
BASIN and STREAM	RESERVOIR	USABLE CAPACITY 1000 AF	ACTIVE STORAGE - 1000s ACRE FEET 1955	1954	1953	1952	10 yr. Ave. 1943-52***
Snake River	Jackson	847.0	503	450	485	406	520.5
North Platte	Seminoe*	957.0	309.1	265.9	557.3	625.3	471.2
North Platte	Pathfinder*	1011.0	508.2	918.0	894.5	1017.4	618.1
North Platte	Alcova**	190.5	21.6	186.9	180.0	185.2	147.4
North Platte	Guernsey	39.8	25.8	38.8	17.5	49.7	29.8
North Platte	Southerland	185.0	50.0	45	64	--	43.3
North Platte	Kingsley	1995.0	1232.0	1590	1826	--	1397
North Platte	Lake Alice & Minatare	67.0	39.0	37.4	60.0	55.4	55.0
Kansas Basin	Box Butte	31.6		20.5	24.3	30.8	25.2
Kansas Basin	Bonny	39.9	40.1	39.2	30.5	29.6	17.1
Kansas Basin	Swanson Lake	116.1	45.0	25.1			
Kansas Basin	Enders	36.0	42.8	34.4	26.1	28.3	19.9
Kansas Basin	Harry Strunk	33.9	37.8	30.2	32.6	32.0	27.4
Kansas Basin	Harlan County	252.9	195.1	64.9			
Kansas Basin	Cedar Bluff	176.8	95.4	100.3	113.9	143.3	72.0
Laramie River	Wheatland	95.0	1.5	12.2	32.5	76.9	44.9
Belle Fourche	Belle Fourche	185.2	101.7	136.4	76.6	143.4	146.2
Shoshone River	Buffalo Bill	439.8	119.3	156.4	164.7	233.7	278.6
Wind River	Boysen	758.0	216.1	360.3	455.4	233.4	233.4
Wind River	Pilot Butte	31.6	29.4	25.3	29.4	19.1	20.5
Wind River	Bull Lake	152.0	61.1	62.3	51.0	33.9	51.5
Cheyenne River	Angostura	92.0	89.8	34.2	46.2	33.6	33.6
Cheyenne River	Deerfield	15.1	12.1	15.1	13.9	15.1	14.2
Cheyenne River	Keyhole	190.3	32.1	8.4	11.8	0.5	0.5
Grand River	Shadehill	84.0	79.7	83.3	83.4	118.8	118.8
Green River	Big Sandy	38.3	12.8	11.1			

*Seminoe, January 1943, August 1953, Usable Capacity 993,200 Acre Feet.
*Pathfinder, January 1943, August 1953, Usable Capacity 1,040,500 Acre Feet.
**Alcova, downstream from Seminoe and Pathfinder and containing 166,000 Acre Feet of inactive storage that is unavailable to the Kendrick Project.
***Some for Less.

VALLEY PRECIPITATION

In Percent of Normal

Basin	Jan.	Febr.	Mar.	Apr.
Wind River	25%	265%	75%	55%
Shoshone River	15%	195%	105%	50%
Big Horn River	25%	220%	75%	85%
Powder River	60%	170%	90%	100%
North Platte	100%	95%	105%	35%
Laramie River	90%	90%	85%	20%
Snake River	82%	86%	120%	99%



The data included in this report were obtained by the Soil Conservation Service in cooperation with the agencies named below:

STATE

State Engineer of Wyoming

FEDERAL

U. S. Department of Agriculture
Forest Service

U. S. Department of Commerce
Weather Bureau

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

PRIVATE

Wheatland Irrigation District

Federal - State - Private

COOPERATIVE SNOW SURVEYS

—

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"