



United States
Department of
Agriculture

Natural
Resources
Conservation
Service



Utah

Basin Outlook Report

January 1, 1996



Basin Outlook Reports and Federal - State - Private Cooperative Snow Surveys

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How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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STATE OF UTAH GENERAL OUTLOOK
Jan 1, 1996

SUMMARY

The 1996 Water Year got off to a poor start and has not yet recovered. With about 40% of the snow accumulation season past, snowpacks across the state are generally below to much below average. October had only 51% of average precipitation and only 20% of average snowpacks. November had more precipitation, 75% of average but snowpacks rose to only 44% of normal. Above average temperatures kept melting what snow accumulated, well into December. Precipitation during December was much below average in Southern Utah and somewhat above in the north. With record temperatures during the first part of the month, snowpacks continued to be much below normal. In general, snowpacks are near normal only on the Bear River Watershed and decrease dramatically the farther south one goes, untill ending up on the Virgin-Escalante watersheds where snowpacks are a meager 22% of average. Seasonal precipitation (Oct-Dec) ranges from 25% to 112% of normal. General water supply conditions are poor with the exception of the Bear River area which is near normal. Reservoir storage is in excellent condition at 58% of capacity.

SNOWPACK

Snowpacks in Utah, as measured by the NRCS SNOTEL system, are at 68% of normal, similar to some of the recent snowpacks of the late eighties and early nineties. The Bear River Watershed is the lone exception in the state and it, at 108%, is near average. Low elevation snowpacks are generally much below average, even on some areas of the Bear drainage. In order to get to an average April 1 snowpack, most watersheds except the Bear River, will need between 120% and 160% of average snowpack increases over the January through March accumulation period. There is only a 15% to 32% probability that the state will get that magnitude of snowpack increase during the coming months, although it can and has happened.

PRECIPITATION

Mountain precipitation in December, as measured by the NRCS SNOTEL system, was near average statewide at 104% of normal, bringing the seasonal accumulation (Oct-Dec) to 78% of average.

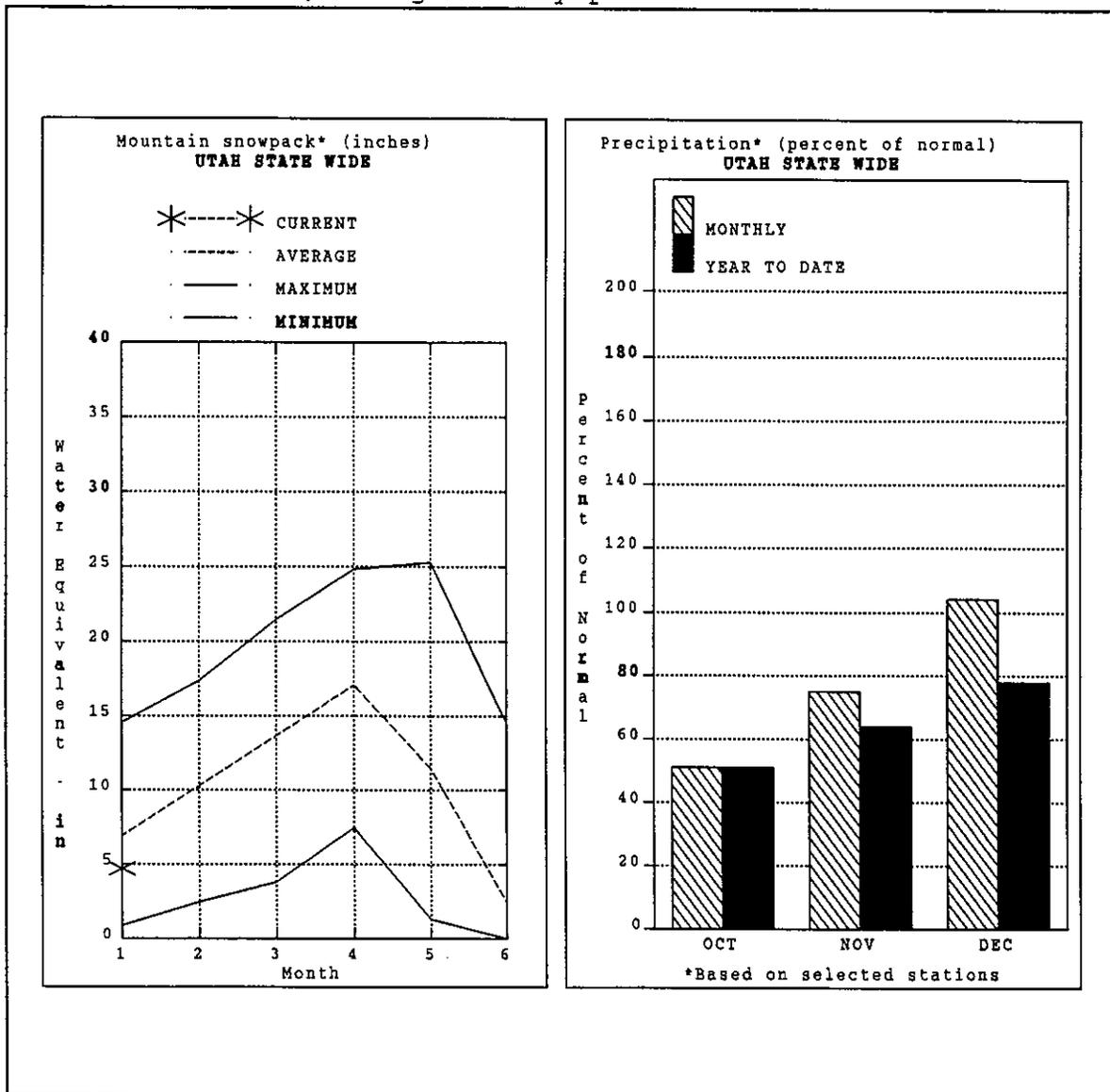
National Weather Service precipitation figures indicate the same general pattern, more precipitation in the north, less in the south with seasonal accumulations much below normal. Some figures for December show the north - south split: Randolph - 281%, Provo - 164%, Alta - 120%, Monticello - 5%, Green River - 24% and Blanding - 16% of average.

RESERVOIRS

Storage in 19 of Utah's key irrigation reservoirs is at 58% of capacity. Most reservoirs are in excellent shape for spring runoff.

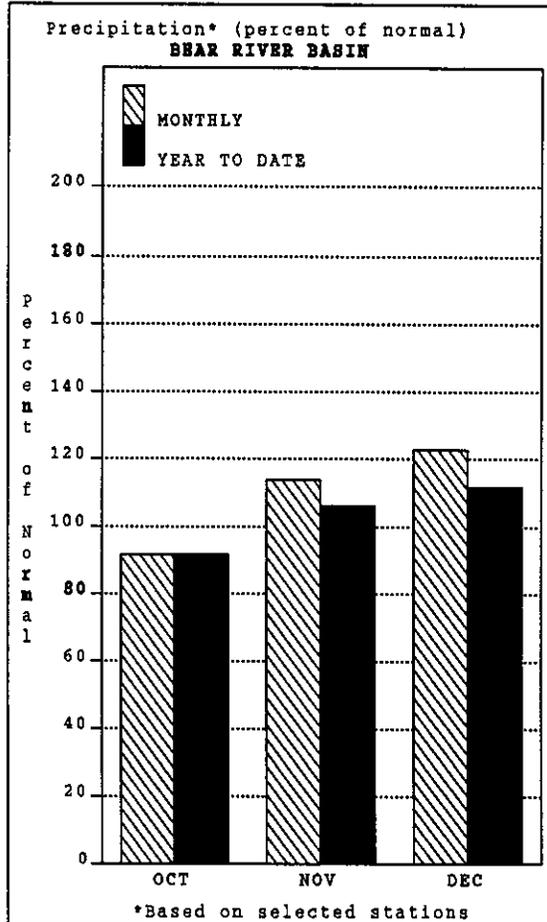
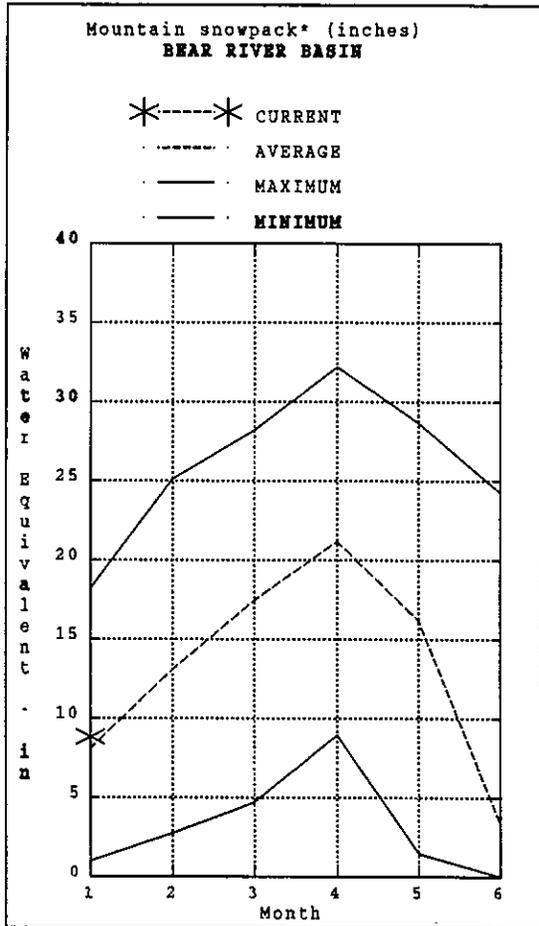
STREAMFLOW

Streamflow forecasts for snowmelt runoff are near average on the Bear River Watershed and below to much below average over the remainder of the state. Water supply conditions, statewide except for the Bear River, are generally poor.



BEAR RIVER BASIN
 Jan 1, 1996

Snowpack in the Bear River Basin on January 1 is 108% of average, about 30% higher than last year. Low elevation snowpacks are below normal, but the higher elevations have above average snowpacks. Mountain precipitation has been above average, 123% for December which brings the seasonal accumulation (Oct-Dec) to 112% of average. Water supply conditions are near normal for the Bear River Watershed. Reservoir storage in the Bear River Basin is near 41% of capacity.



BEAR RIVER BASIN
Streamflow Forecasts - January 1, 1996

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<===== Drier =====>>		=====		===== Wetter =====>>		
		Chance Of Exceeding *						
	90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)		
BEAR R nr UT-WY State Line	APR-JUL	70	88	102	89	119	149	115
BEAR R nr Woodruff (2)	APR-JUL	21	86	130	87	174	240	149
BIG CK nr Randolph	APR-JUL	0.2	1.8	3.4	89	5.0	7.3	3.8
BEAR R nr Randolph, UT	APR-JUL	27	75	107	91	140	187	118
SMITHS FORK nr Border, WY	APR-JUL	69	87	100	98	113	131	102
THOMAS FK nr WY-ID State Line	APR-JUL	14.0	23	31	94	42	67	33
BEAR R blw Stewart Dam nr Montpelier	APR-JUL	150	220	265	92	310	380	288
MONTPELIER CK nr Montpelier (2)	APR-JUL	5.3	7.6	9.6	79	12.2	17.3	12.2
CUB R nr Preston	APR-JUL	25	36	43	91	50	61	47
LOGAN R nr Logan	APR-JUL	59	81	100	93	123	169	107
BLACKSMITH Fk nr Hyrum	APR-JUL	26	35	43	80	53	70	54

BEAR RIVER BASIN
Reservoir Storage (1000 AF) - End of December

BEAR RIVER BASIN
Watershed Snowpack Analysis - January 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
BEAR LAKE	1421.0	576.2	299.5	992.6	BEAR RIVER, UPPER (abv Ha	6	136	112
HYRUM		NO REPORT			BEAR RIVER, LOWER (blw Ha	7	133	109
PORCUPINE	11.3	9.5	---	2.8	LOGAN RIVER	4	147	111
WOODRUFF NARROWS	57.3	44.0	8.5	---	RAFT RIVER	0	0	0
WOODRUFF CREEK	4.0	3.1	1.7	---	BEAR RIVER BASIN	13	134	110

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

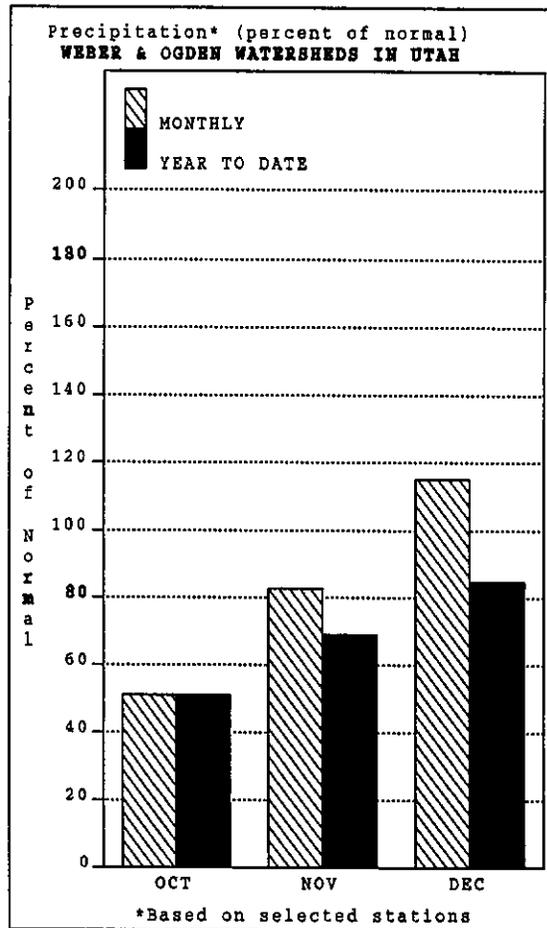
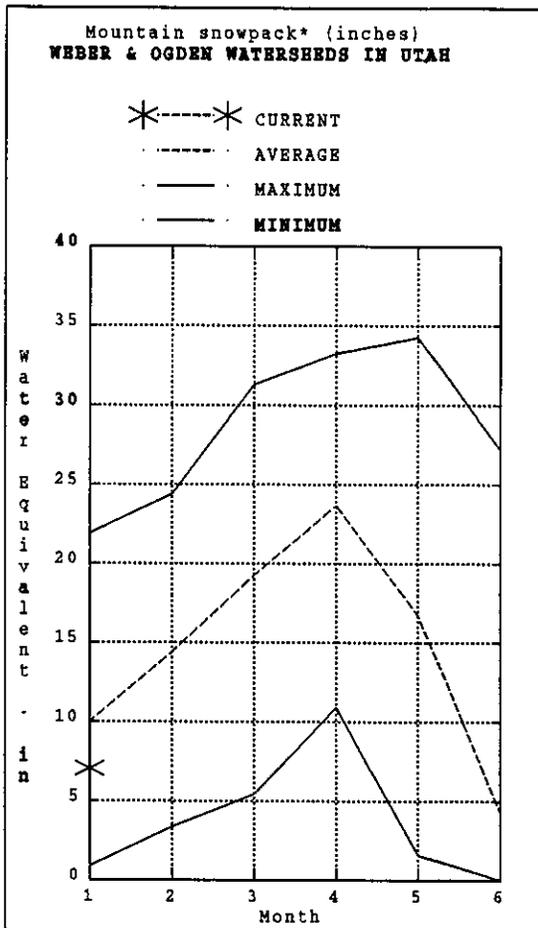
The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

WEBER & OGDEN BASINS
Jan 1, 1996

Snowpacks on the Weber and Ogden watersheds are below average at 71%, with individual sites ranging from 20% to 105% of normal. Low elevation snowpacks are generally much below average. Mountain precipitation for December was above normal at 115%, which brings the seasonal total (Oct-Dec) to 85% of average. General water supply conditions are below normal. Reservoir storage is near 78% of capacity.



WEBER & OGDEN WATERSHEDS in Utah
Streamflow Forecasts - January 1, 1996

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<==== Drier =====>>		=====		>>==== Wetter =====<<		
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * 50% (Most Probable) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
SMITH AND MOREHOUSE CK nr Oakley	APR-JUN	10.0	18.0	24	80	30	38	30
WEBER R nr Oakley	APR-JUL	53	74	89	73	104	125	122
ROCKPORT RESEROIR inflow	APR-JUL	41	71	91	68	111	141	134
CHALK CK at Coalville, Ut	APR-JUL	5.0	20	31	70	42	58	44
WEBER R nr Coalville, Ut	APR-JUL	38	69	90	66	111	143	136
ECHO RESEROIR Inflow	APR-JUL	40	85	115	65	145	190	176
LOST CK Res Inflow	APR-JUL	1.5	5.8	12.0	70	18.2	27	17.2
E CANYON CK nr Morgan	APR-JUL	6.0	15.0	20	67	26	34	30
WEBER R at Gateway	APR-JUL	146	187	215	62	245	285	347
S FORK OGDEN R nr Huntsville	APR-JUL	25	40	50	79	60	75	63
PINEVIEW RESEROIR Inflow	APR-JUL	42	77	100	81	124	158	124
WHEELER CK nr Huntsville	APR-JUL	2.0	3.7	4.8	77	5.9	7.6	6.2

WEBER & OGDEN WATERSHEDS in Utah
Reservoir Storage (1000 AF) - End of December

WEBER & OGDEN WATERSHEDS in Utah
Watershed Snowpack Analysis - January 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
CAUSEY	7.1	3.8	2.5	2.1	OGDEN RIVER	4	64	59
EAST CANYON	49.5	41.0	29.3	33.3	WEBER RIVER	8	80	81
ECHO	73.9	58.0	36.8	41.4	WEBER & OGDEN WATERSHEDS	12	74	72
LOST CREEK	22.5	17.0	14.5	12.7				
PINEVIEW	110.1	69.0	60.5	50.0				
ROCKPORT	60.9	45.0	22.7	34.1				
WILLARD BAY	215.0	175.0	113.2	104.9				

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

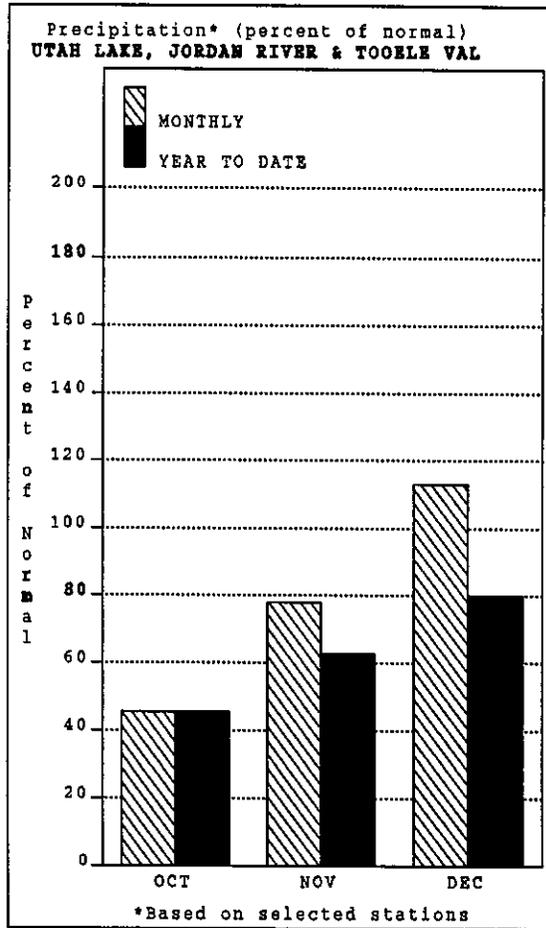
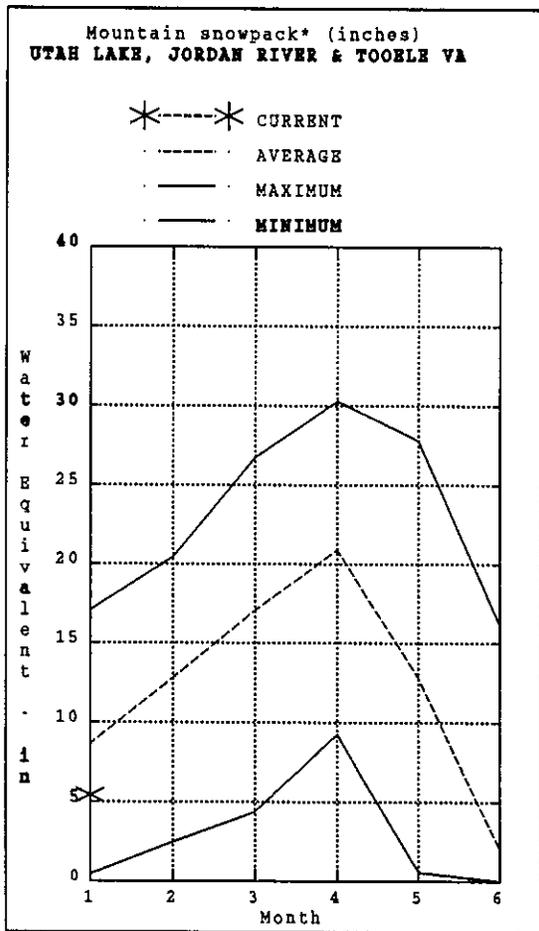
The average is computed for the 1961-1990 base period.

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(2) - The value is natural flow - actual flow may be affected by upstream water management.

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY BASINS
Jan 1, 1996

Snowpacks on the Provo - Utah Lake watershed are at 64% of average, far less than last year. Individual sites range from 30% to 117% of average. Mountain precipitation in December was 113%, bringing seasonal mountain precipitation, (Oct-Dec) to 80% of average. Water supply conditions are much below average. Storage in Deer Creek, 77% of capacity.



UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Streamflow Forecasts - January 1, 1996

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		Drier		50% (Most Probable)		Wetter		
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	Chance Of Exceeding * (% AVG.)	30% (1000AF)	10% (1000AF)	
PAYSON CK nr Payson	APR-JUL	2.0	2.3	2.9	66	4.1	6.7	4.4
SPANISH FORK nr Castilla	APR-JUL	8.0	24	48	65	73	114	74
HOBBLE CK nr Springville	APR-JUL	2.3	7.8	12.0	64	16.2	24	18.8
PROVO R nr Hailstone	APR-JUL	44	71	88	81	105	132	109
PROVO R below Deer Creek Dam	APR-JUL	26	70	97	76	124	168	128
AMERICAN FORK nr American Fk.	APR-JUL	6.0	17.0	23	72	29	40	32
UTAH LAKE inflow	APR-JUL	45	169	245	76	490	445	324
L COTTONWOOD CRK nr SLC	APR-JUL	20	28	33	85	38	46	39
BIG COTTONWOOD CRK nr SLC	APR-JUL	19.0	26	31	82	36	43	38
PARLEY'S CK nr SLC	APR-JUL	0.0	6.1	9.8	62	13.5	19.4	15.9
MILL CK nr SLC	APR-JUL	1.2	3.1	4.2	65	5.3	7.3	6.5
DELL FK nr SLC	APR-JUL	1.0	3.0	4.8	68	6.6	9.8	7.1
EMIGRATION CK nr SLC	APR-JUL	0.4	1.5	2.9	69	4.3	6.7	4.2
CITY CK nr SLC	APR-JUL	2.0	4.8	6.6	80	8.4	11.2	8.3
VERNON CK nr Vernon (in Acre Feet)	APR-JUL	305	500	700	52	981	1609	1340
SETTLEMENT CK nr Tooele (in Acre Fee	APR-JUL	265	635	1150	50	2083	4987	2300
S WILLOW CK nr Grantsville	APR-JUL	0.1	0.8	1.8	58	2.8	4.3	3.1

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Reservoir Storage (1000 AF) - End of December

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Watershed Snowpack Analysis - January 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
DEER CREEK	149.7	115.0	77.8	93.5	PROVO RIVER & UTAH LAKE	7	76	65
GRANTSVILLE	3.3	2.3	1.5	---	PROVO RIVER	4	83	71
SETTLEMENT CREEK	1.0	0.8	0.5	0.6	JORDAN RIVER & GREAT SALT	5	70	72
STRAWBERRY-ENLARGED	1105.9	663.0	468.2	---	TOOELE VALLEY WATERSHEDS	4	41	48
UTAH LAKE		NO REPORT			UTAH LAKE, JORDAN RIVER &	16	65	64
VERNON CREEK	0.6	0.5	0.4	0.4				

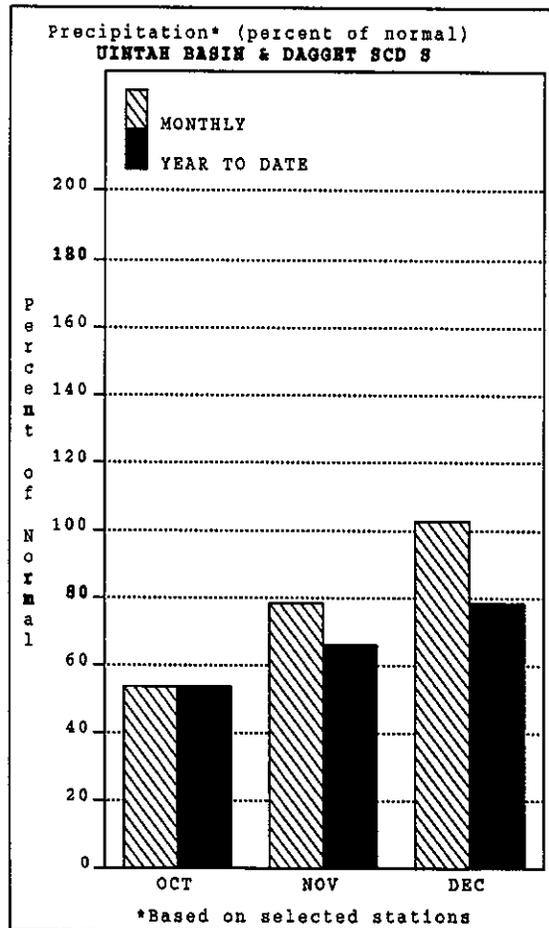
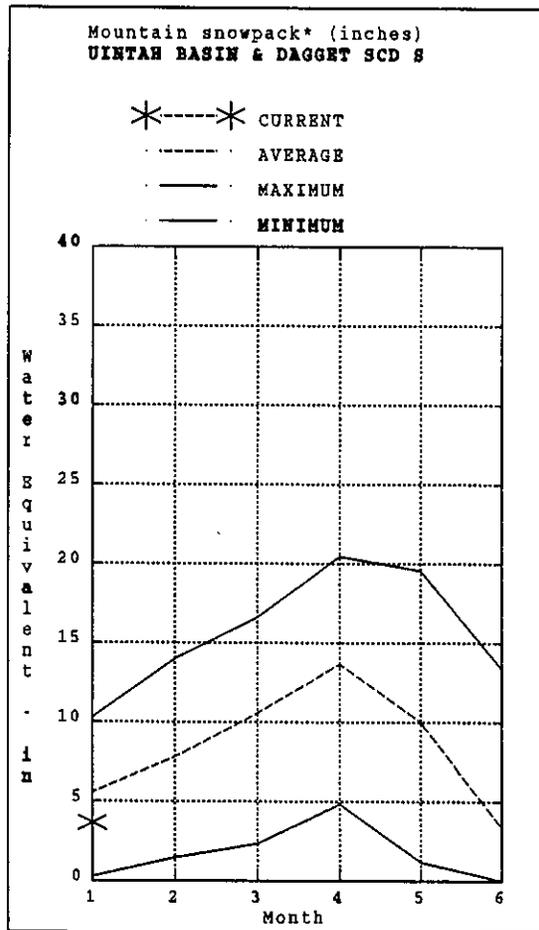
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural flow - actual flow may be affected by upstream water management.

UINTAH BASIN & DAGGET SCD'S
Jan 1, 1996

Snowpacks across the Uintas and the Strawberry area are at 66% of normal, far less than last year. The east end of the Uintah's has extremely low snowpacks, 20% to 40% of normal, whereas the Blacks Fork drainage is the highest at 103% of average. Mountain precipitation for December was 103% of average, bringing the seasonal accumulation (Oct-Dec) to 79% of normal, a little more than half of last year. Reservoir storage is at 63% of capacity.



UINTAH BASIN & DAGGET SCD'S
 Streamflow Forecasts - January 1, 1996

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
MEEKS CABIN RESERVOIR Inflow	APR-JUL	64	81	92	96	103	120	96
STATE LINE RESERVOIR INFLOW	APR-JUL	17.0	24	28	93	33	39	30
HENRYS FORK nr Manila	APR-JUL	9.0	25	35	83	46	61	42
FLAMING GORGE RES INFLOW	APR-JUL	575	1100	1270	106	1440	1960	1197
BIG BRUSH CK abv Red Fleet Resv	APR-JUL	4.4	8.9	12.0	61	15.1	19.6	19.8
ASHLEY CK nr Vernal	APR-JUL	11.0	14.0	22	43	30	42	51
WF DUCHESNE R nr Hanna	APR-JUL	7.0	13.0	18.0	69	23	29	26
DUCHESNE R nr Tabiona	APR-JUL	46	65	77	73	89	108	105
ROCK CK nr Mountain Home	APR-JUL	52	69	80	85	92	109	94
UPPER STILLWATER RESV inflow	APR-JUL	39	57	70	86	83	102	81
DUCHESNE R abv Knight Diversion	APR-JUL	80	122	150	79	178	220	191
STRAWBERRY RESV nr Soldier Springs	APR-JUL	13.0	29	40	68	51	67	59
CURRANT CREEK RESV Inflow	APR-JUL	6.0	11.0	15.0	71	19.0	24	21
STARVATION RESV Inflow	APR-JUL	17.0	52	75	64	98	133	117
MOON LAKE Inflow	APR-JUL	33	46	55	79	64	77	70
YELLOWSTONE R nr Altonah	APR-JUL	30	46	57	88	68	84	65
DUCHESNE R at Myton	APR-JUL	32	108	160	61	210	290	263
UINTA R nr Neola	APR-JUL	20	31	49	58	67	93	85
WHITEROCKS R nr Whiterocks	APR-JUL	13.0	20	32	55	44	62	58
UINTA R nr Neola	APR-JUL	20	31	49	58	67	93	85
DUCHESNE R nr Randlett	APR-JUL	71	107	170	52	270	420	328

UINTAH BASIN & DAGGET SCD'S
 Reservoir Storage (1000 AF) - End of December

UINTAH BASIN & DAGGET SCD'S
 Watershed Snowpack Analysis - January 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
FLAMING GORGE	3749.0	3279.0	2835.3	---	UPPER GREEN RIVER in UTAH	6	64	64
MOON LAKE	49.5	25.5	13.2	27.3	ASHLEY CREEK	2	18	23
RED FLEET	25.7	20.0	14.4	---	BLACK'S FORK RIVER	2	131	103
STEINAKER	33.4	27.0	8.8	18.2	SHEEP CREEK	1	32	27
STARVATION	165.3	135.0	117.1	105.2	DUCHESNE RIVER	11	63	67
STRAWBERRY-ENLARGED	1105.9	663.0	468.2	---	LAKE FORK-YELLOWSTONE CRE	4	94	92
					STRAWBERRY RIVER	4	56	50
					UINTAH-WHITEROCKS RIVERS	2	21	40
					UINTAH BASIN & DAGGET SCD	17	63	66

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

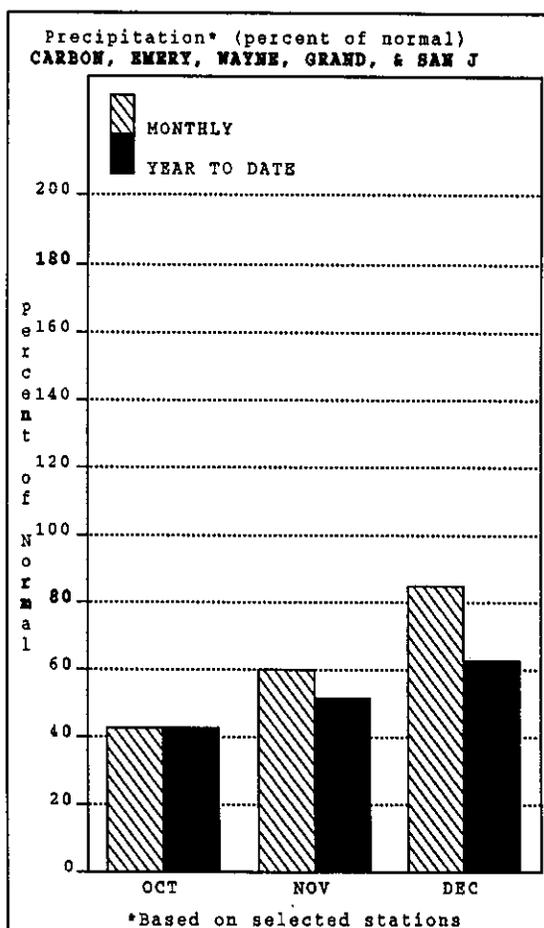
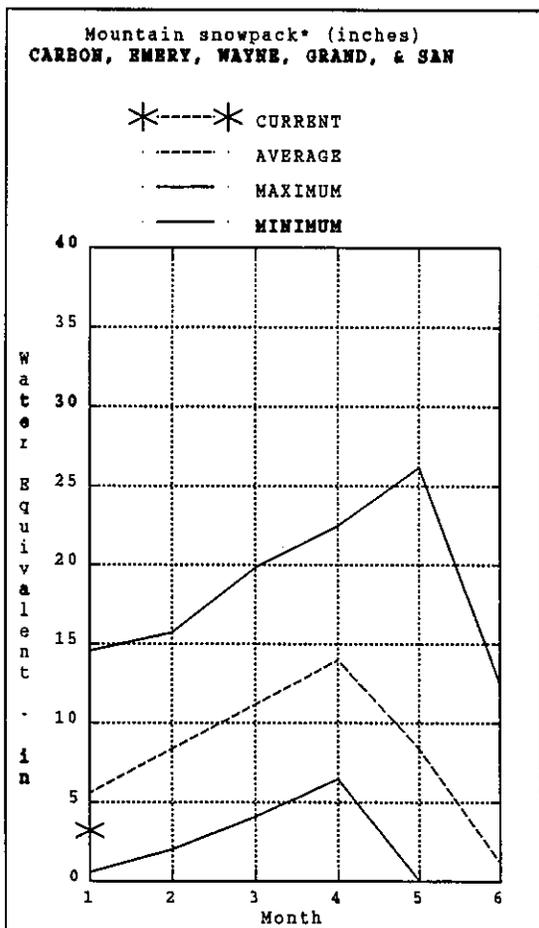
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(2) - The value is natural flow - actual flow may be affected by upstream water management.

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN CO
Jan 1, 1996

Snowpacks in this region of Utah are at 59% of normal, just over half of last year. Individual watersheds range from 21% on the LaSal's to 78% on the San Rafael. Mountain precipitation for December was 85% of normal, bringing the seasonal accumulation (Oct-Dec) to 63% of average, about half that of last year. Water supply conditions are much below average for these watersheds although much of the snow accumulation season is yet to come. Reservoir storage is currently near 61% of capacity.



CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Streamflow Forecasts - January 1, 1996

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<==== Drier =====		===== Wetter =====>>				
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * 50% (Most Probable) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
GOOSEBERRY CK nr Scofield	APR-JUL	1.3	5.7	8.0	68	10.3	14.7	11.7
SCOFIELD RESV Inflow	APR-JUL	10.0	23	30	68	37	68	44
WHITE R blw Tabbyune Ck	APR-JUL	0.9	8.1	13.0	70	17.9	25	18.7
GREEN R at Green River, UT	APR-JUL	1350	2330	2800	89	3270	4250	3151
HUNTINGTON CK nr Huntington	APR-JUL	4.0	21	30	73	39	56	41
JOE'S VALLEY RESV Inflow	APR-JUL	15.0	31	42	79	53	70	53
FERRON CK nr Ferron	APR-JUL	14.0	26	34	87	42	54	39
COLORADO R nr Cisco	APR-JUL	1820	2880	3600	87	4320	5370	4132
MILL CK nr Moab	APR-JUL	1.0	1.6	2.4	39	4.6	7.7	6.1
INDIAN CK + INDIAN CK TUNNEL	MAR-JUL	0.0	0.3	1.0	29	2.2	4.7	3.3
SEVEN MILE CK nr Fish Lake	APR-JUL	1.8	2.5	4.5	69	6.5	9.4	6.5
MUDDY CK nr Emery	APR-JUL	6.7	10.5	17.0	87	24	33	19.6
LLOYD'S RESERVOIR inflow	MAR-JUL	0.1	0.3	0.3	11	2.7	6.4	2.9
RECAPTURE RESERVOIR inflow	MAR-JUL	0.3	0.5	0.7	11	3.0	6.3	6.4
SAN JUAN R nr Bluff	APR-JUL	92	340	550	48	815	1280	1152

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Reservoir Storage (1000 AF) - End of December

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Watershed Snowpack Analysis - January 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
HUNTINGTON NORTH		NO REPORT			PRICE RIVER	3	69	68
JOE'S VALLEY	61.6	45.0	29.7	42.7	SAN RAFAEL RIVER	3	78	78
KEN'S LAKE	2.3	1.6	0.7	---	MUDDY CREEK	1	84	69
MILL SITE	16.7	13.0	10.3	3.0	FREMONT RIVER	3	36	35
SCOFIELD	65.8	30.0	12.4	30.3	LASAL MOUNTAINS	1	27	21
					BLUE MOUNTAINS	1	14	30
					WILLOW CREEK	1	17	30
					CARBON, EMERY, WAYNE, GRA	13	56	59

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

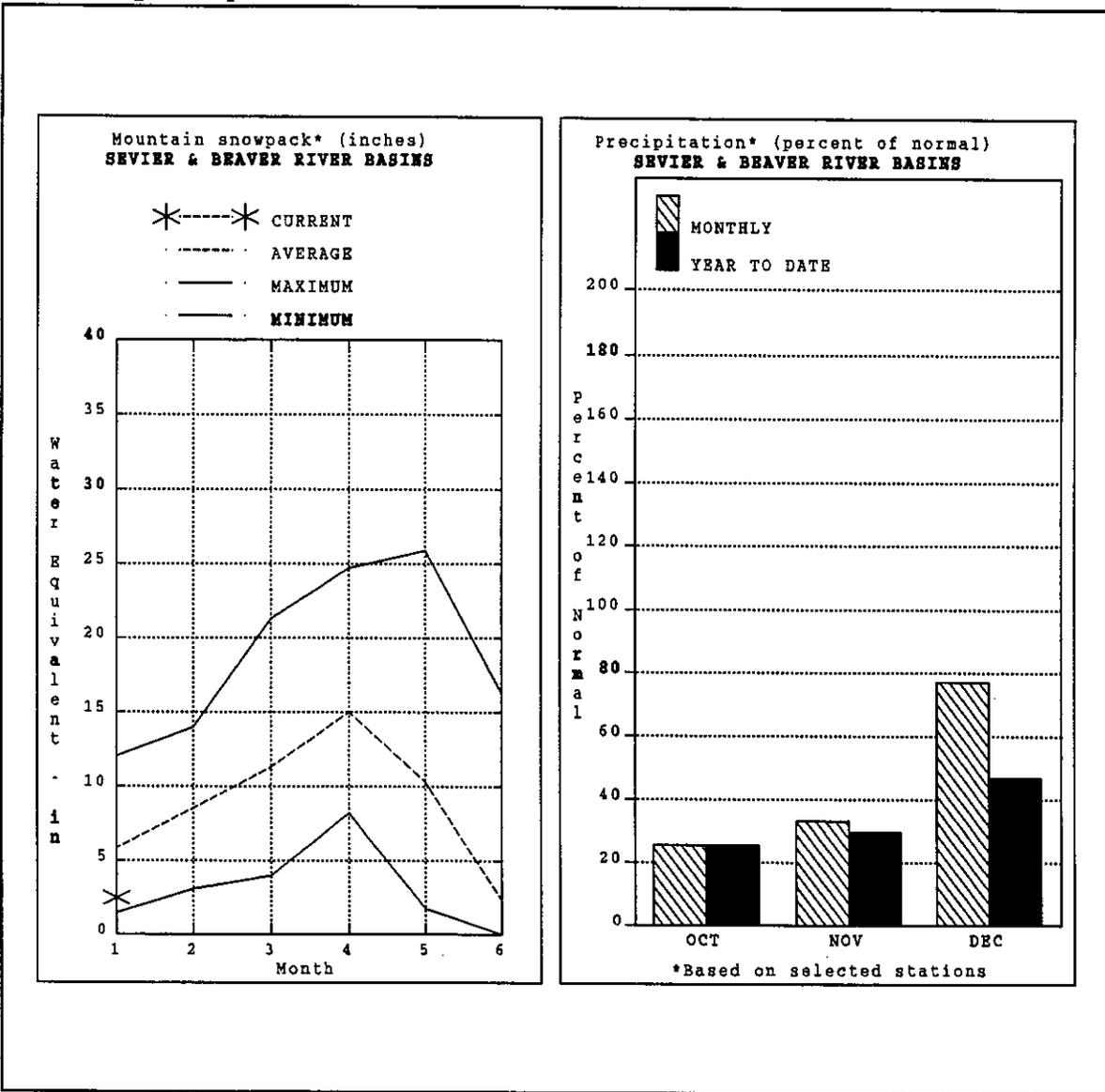
The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

SEVIER & BEAVER RIVER BASINS
Jan 1, 1996

Snowpacks in the Sevier River Basin are much below average at 44%, lowest since 1990. This area requires 138% of normal snowpack increase to reach an average April 1 value, with about a 1 in 4 chance of that actually happening. A normal snowpack increase would yield April 1 snow levels at about 75% of average. Mountain precipitation was 77% of normal in December, bringing the seasonal accumulation (Oct-Dec) to 47% of average. Water supply conditions are much below normal. Reservoir storage in the Sevier Basin is 90% of capacity.



SEVIER & BEAVER RIVER BASINS
Streamflow Forecasts - January 1, 1996

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<==== Drier =====		===== Chance Of Exceeding *		===== Wetter =====>>		
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
SEVIER R at Hatch	APR-JUL	14.0	22	34	63	51	78	54
SEVIER R nr Circleville	APR-JUL	30	40	45	60	64	94	75
SEVIER R nr Kingston	APR-JUL	27	39	50	60	70	105	83
ANTIMONY CK nr Antimony	APR-JUL	1.8	3.8	4.8	65	5.8	7.8	7.4
E F SEVIER R nr Kingston	APR-JUL	5.0	7.0	18.0	59	28	45	30
SEVIER R blw Piute Dam	APR-JUL	23	43	69	60	100	153	115
CLEAR CK nr Sevier	APR-JUL	1.0	9.0	14.0	67	19.0	27	21
SALINA CK at Salina	APR-JUL	0.5	3.7	10.0	57	18.8	36	17.6
PLEASANT CK nr Pleasant	APR-JUL	2.5	4.7	5.9	69	7.1	9.3	8.5
EPHRAIM CK nr Ephraim	APR-JUL	2.4	6.4	8.6	68	10.8	14.7	12.6
SEVIER R nr Gunnison	APR-JUL	65	88	129	54	215	355	239
CHICKEN CK nr Levan	APR-JUL	1.0	2.0	2.7	57	3.4	4.4	4.7
OAK CK nr Oak City	APR-JUL	0.0	0.4	0.9	53	1.7	2.9	1.7
BEAVER R nr Beaver	APR-JUL	1.0	5.0	13.0	49	22	36	26
MINERSVILLE RESEROIR inflow	APR-JUL	1.0	3.1	7.2	43	13.8	24	16.7

SEVIER & BEAVER RIVER BASINS
Reservoir Storage (1000 AF) - End of December

SEVIER & BEAVER RIVER BASINS
Watershed Snowpack Analysis - January 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
GUNNISON	20.3	17.5	3.1	9.5	UPPER SEVIER RIVER (south	7	27	33
MINERSVILLE (RkyFd)		NO REPORT			EAST FORK SEVIER RIVER	2	37	47
OTTER CREEK	52.5	46.9	26.2	23.8	SOUTH FORK SEVIER RIVER	5	23	28
PIUTE	71.8	57.5	40.3	29.3	LOWER SEVIER RIVER (inclu	6	58	55
SEVIER BRIDGE	236.0	219.2	94.0	87.0	BEAVER RIVER	2	42	41
PANGUITCH LAKE	22.3	18.2	10.1	---	SEVIER & BEAVER RIVER BAS	15	41	44

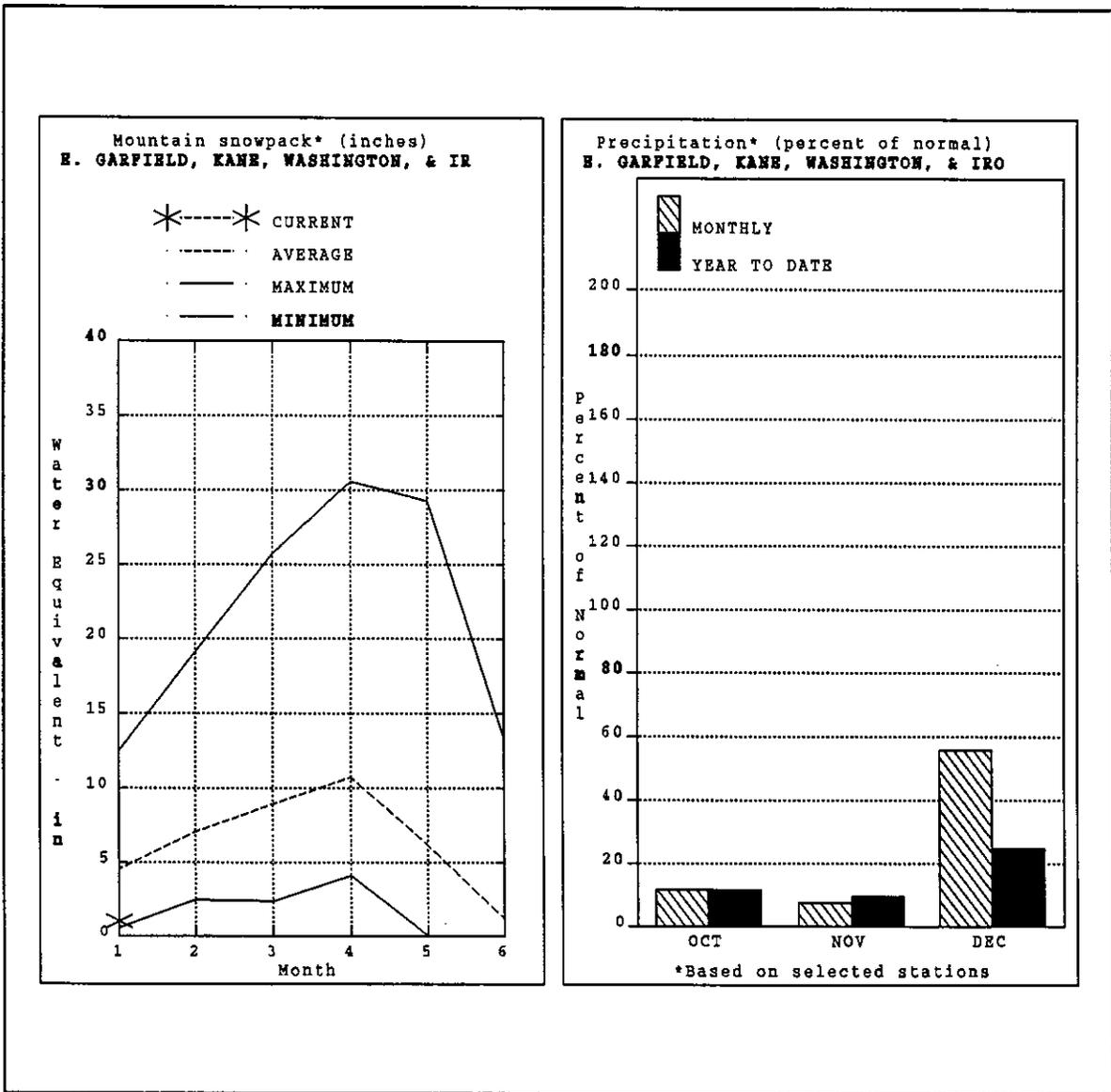
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural flow - actual flow may be affected by upstream water management.

E. GARFIELD, KANE, WASHINGTON, & IRON CO.
Jan 1, 1996

Snowpacks in this area are much below average at 23% of normal, only 20% of last year. This area will need almost 160% of a normal snowpack increase to get to an average April 1 figure, and there is a surprisingly high probability (32%) that it could. Mountain precipitation during December was 56% of normal, bringing the seasonal accumulation (Oct-Dec) to 25% of average, only 20% of last years figure. Water supply conditions for these watersheds are much below average. Reservoirs are at 81% of capacity.



E. GARFIELD, KANE, WASHINGTON, & IRON Co.
Streamflow Forecasts - January 1, 1996

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<==== Drier =====>>		===== Wetter =====>>		Chance Of Exceeding *		
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
COAL CK nr Cedar City	APR-JUL	4.1	5.6	10.9	58	16.2	26	18.8
LAKE POWELL INFLOW	APR-JUL	2860	5020	6300	81	7580	9750	7735
VIRGIN R nr Hurricane	APR-JUL	20	0.0	50	63	0.0	141	79
SANTA CLARA R nr Pine Valley	APR-JUL	1.4	0.0	3.5	66	0.0	10.1	5.3

E. GARFIELD, KANE, WASHINGTON, & IRON Co.
Reservoir Storage (1000 AF) - End of December

E. GARFIELD, KANE, WASHINGTON, & IRON Co.
Watershed Snowpack Analysis - January 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
GUNLOCK	10.4	8.7	6.1	---	VIRGIN RIVER	5	20	23
LAKE POWELL	24322.0	21401.0	17221.0	---	PAROWAN	2	21	20
QUAIL CREEK	40.0	35.0	25.0	---	ENTERPRISE TO NEW HARMONY	2	12	20
UPPER ENTERPRISE	10.0	7.4	4.5	---	COAL CREEK	2	25	23
LOWER ENTERPRISE	2.6	0.0	0.8	---	ESCALANTE RIVER	2	22	28
					E. GARFIELD, KANE, WASHIN	9	19	23

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

SNOW COURSE DATA
FOR THE STATE OF UTAH
AS OF JANUARY 1, 1996

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90
AGUA CANYON SNOTEL	8900	1/01	-	0.9S	4.7	-	DRY BREAD POND SNOTEL	8350	1/01	-	5.8S	9.4	9.6
ALTA CENTRAL	8800	1/02	55	14.9	17.3	19.0	DRY FORK SNOTEL	7160	1/01	-	3.9S	7.6	-
ASHLEY TWIN LAKES	10500						EAST SHINGLE LAKE	9800					
BEAVER DAMS SNOTEL	8000	1/01	-	3.6S	3.5	4.6	EAST WILLOW CREEK SN	8250	1/01	-	0.6S	3.6	2.0
BEAVER DIVIDE SNOTEL	8280	1/01	-	5.6S	4.1	4.8	FARMINGTON CANYON L.	6950					
BEN LOMOND PK SNOTEL	8000	1/01	-	8.6S	13.2	15.9	FARMINGTON CN SNOTEL	8000	1/01	-	6.7S	16.4	12.3
BEN LOMOND TR SNOTEL	6000	1/01	-	2.2S	8.5	11.1	FARNSWORTH LK SNOTEL	9600	1/01	-	4.6S	7.9	8.7
BEVAN'S CABIN	6450						FISH LAKE	8700					
BIG FLAT SNOTEL	10290	1/01	-	3.4S	7.8	8.7	FIVE POINTS LAKE SNO	10920	1/01	-	7.2S	7.8	8.4
BIRCH CROSSING	8100						FRANCES FLATS	6700	1/03	22	8.8	12.0	9.6
BLACK FLAT-U.M. CK S	9400	1/01	-	2.1S	1.9	4.2	G.B.R.C. HEADQUARTER	8700					
BLACK'S FORK GS-EF	9340						G.B.R.C. MEADOWS	10000					
BLACK'S FORK JUNCTN	8930						GARDEN CITY SUMMIT	7600					
BOX CREEK SNOTEL	9800	1/01	-	3.8S	6.8	5.5	GEORGE CREEK	8840					
BRIAN HEAD	10000						GOOSEBERRY R.S.	8400					
BRIGHTON CABIN	8700	12/29	30	8.5	11.6	12.5	GOOSEBERRY R.S. SNOT	7900	1/01	-	1.0S	2.3	4.7
BRIGHTON SNOTEL	8750	1/01	-	6.1S	8.4	8.9	HARDSCRABBLE SNOTEL	7250	1/01	-	5.5S	8.6	9.3
BROWN DUCK SNOTEL	10600	1/01	-	6.3S	9.7	8.5	HARRIS FLAT SNOTEL	7700	1/01	-	0.8S	5.0	3.1
BYRCE CANYON	8000	1/01	5	1.0	3.3	2.0	HAYDEN FORK SNOTEL	9100	1/01	-	7.6S	4.0	6.8
BUCK FLAT SNOTEL	9800	1/01	-	7.2S	7.3	7.2	HENRY'S FORK	10000					
BUCK PASTURE	9700						HEWINTA SNOTEL	9500	1/01	-	4.3S	2.5	3.9
BUCKBOARD FLAT	9000	1/04	7	1.9	-	-	HICKERSON PARK SNOTE	9100	1/01	-	0.7S	2.2	2.6
BUG LAKE SNOTEL	7950	1/01	-	9.0S	6.4	8.8	HIDDEN SPRINGS	5500	1/03	6	2.0	4.9	4.5
BURT'S-MILLER RANCH	7900						HOBBLE CREEK SUMMIT	7420					
CAMP JACKSON SNOTEL	8600	1/01	-	1.2S	8.7	4.0	HOLE-IN-ROCK SNOTEL	9150	1/01	-	2.1S	2.5	2.3
CASTLE VALLEY SNOTEL	9580	1/01	-	1.0S	4.6	5.2	HORSE RIDGE SNOTEL	8260	1/01	-	10.3S	8.5	10.0
CHALK CK #1 SNOTEL	9100	1/01	-	9.4S	9.8	10.3	HUNTINGTON-HORSESHOE	9800					
CHALK CK #2 SNOTEL	8200	1/01	-	4.0S	7.5	6.7	INDIAN CANYON SNOTEL	9100	1/01	-	1.8S	4.3	4.1
CHALK CREEK #3	7500						JOHNSON VALLEY	8850					
CHEPETA SNOTEL	10300	1/01	-	3.3S	8.2	6.1	KILFOIL CREEK	7300					
CITY CREEK	7500	1/03	39	10.9	13.9	15.7	KILLIYON CANYON	6300	12/27	0	0.0	6.1	4.7
CLEAR CK RIDG #1 SNT	9200	1/01	-	5.2S	7.5	8.1	KIMBERLY MINE SNOTEL	9300	1/01	-	3.1S	8.1	5.8
CLEAR CK RIDG #2 SNT	8000	1/01	-	3.9S	6.5	6.1	KING'S CABIN SNOTEL	8730	1/01	-	1.5S	6.7	5.4
CLEAR CREEK RIDGE #3	6600						KLONDIKE NARROWS	7400					
COLD WATER SPRINGS	6030						KOLOB SNOTEL	9250	1/01	-	1.7S	9.6	7.2
CORRAL	8200						LAKEFORK #1 SNOTEL	10100	1/01	-	5.6S	6.5	5.2
CURRENT CREEK SNOTEL	8000	1/01	-	1.9S	4.4	4.3	LAKEFORK BASIN SNOTE	10900	1/01	-	10.0S	6.8	9.6
DANIELS-STRAWBERRY S	8000	1/01	-	3.3S	6.0	7.3	LAKEFORK MOUNTAIN #3	8400					
DESERET PEAK	9250						LAMBS CANYON	7400	12/28	17	4.6	8.7	7.3
DESERET PEAK AM	9250						LASAL MOUNTAIN LOWER	8800	1/03	8	1.0	-	-
DESERET PEAK SNOTEL	9250	1/01	-	5.0S	9.3	7.7	LASAL MOUNTAIN SNOTE	9850	1/01	-	1.2S	4.4	5.6
DILL'S CAMP SNOTEL	9200	1/01	-	4.3S	5.1	6.2	LILLY LAKE SNOTEL	9050	1/01	-	6.2S	4.6	6.2
DONKEY RESERVOIR SNO	9800	1/01	-	1.4S	4.5	3.7	LITTLE BEAR LOWER	6000					

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST AVERAGE YEAR 1961-90	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST AVERAGE YEAR 1961-90
LITTLE BEAR SNOTEL	6550	1/01	-	1.0S	4.6	THISTLE FLAT	8500				
LITTLE GRASSY SNOTEL	6100	1/01	-	0.1S	2.4	TIMBERLINE	9100				
LONG FLAT SNOTEL	8000	1/01	-	0.8S	5.4	TIMPANGOS DIVIDE SN	8140	1/01	-	4.1S	9.8
LONG VALLEY JCT. SNT	7500	1/01	-	0.1S	3.0	TONY GROVE LK SNOTEL	8400	1/01	-	18.6S	10.7
LOOKOUT PEAK SNOTEL	8200	1/01	-	9.7S	14.0	TONY GROVE R.S.	6250				
LAST CREEK RESERVOIR	6130					TRIAL LAKE	9960				
MAMMOTH-COTTONWD SNT	8800	1/01	-	4.7S	8.5	TRIAL LAKE SNOTEL	9960	1/01	-	9.8S	7.6
MERCHANT VALLEY SNOT	8750	1/01	-	2.4S	6.0	TROUT CREEK SNOTEL	9400	1/01	-	0.8S	5.8
MIDDLE CANYON	7000					UPPER JOES VALLEY	8900				
MIDWAY VALLEY SNOTEL	9800	1/01	-	2.1S	10.5	VERNON CREEK SNOTEL	7500	1/01	-	1.3S	6.4
MILL CREEK	6950	12/28	12	3.5	11.5	VIPONT	7670				
MILL-D NORTH SNOTEL	8960	1/01	-	7.6S	10.5	WEBSTER FLAT SNOTEL	9200	1/01	-	1.8S	5.1
MILL-D SOUTH FORK	7400	12/29	16	4.0	8.6	WHITE RIVER #1 SNOTE	8550	1/01	-	4.5S	4.8
MINING FORK SNOTEL	8000	1/01	-	3.8S	8.7	WHITE RIVER #3	7400				
MONTE CRISTO SNOTEL	8960	1/01	-	11.5S	12.5	WIDTSON #3 SNOTEL	9500	1/01	-	0.9S	5.8
MOSBY MTN. SNOTEL	9500	1/01	-	0.9S	12.0	WRIGLEY CREEK	9000				
MT. BALDY R.S.	9500					YANKEE RESERVOIR	8700				
MUD CREEK #2	8600										
OAK CREEK	7760										
PANQUITCH LAKE	8200										
PARLEY'S CANYON SNOT	7500	1/01	-	4.5S	7.0						
PARLEY'S CANYON SUM.	7500	12/28	16	4.4	10.6						
PAYSON R.S. SNOTEL	8050	1/01	-	3.7S	5.3						
PICKLE KEG SNOTEL	9600	1/01	-	3.6S	5.4						
PINE CREEK SNOTEL	8800	1/01	-	4.2S	9.8						
RED PINE RIDGE SNOTE	9200	1/01	-	5.1S	6.1						
REDDEN MINE LOWER	8500										
REES'S FLAT	7300										
ROCK CREEK SNOTEL	7900	1/01	-	2.1S	2.8						
ROCKY BN-SETTLEMT SN	8900	1/01	-	4.2S	10.2						
SEELY CREEK SNOTEL	10000	1/01	-	4.7S	8.3						
SILVER LAKE (BRIGHT.)	8730	12/29	24	7.0	12.1						
SMITH MOREHOUSE SNTL	7600	1/01	-	4.6S	5.0						
SNOWBIRD SNOTEL	9700	1/01	-	11.4S	15.9						
SPIRIT LAKE	10300										
SQUAW SPRINGS	9300										
STEEL CREEK PARK SNO	10100	1/01	-	7.1S	6.2						
STILLWATER CAMP	8550										
STRAWBERRY DIVIDE SN	8400	1/01	-	4.9S	6.7						
STUART R.S.	7950										
SUSC RANCH	8200										
TALL POLES	8800										
THAYNES CANYON SNOTL	9200	1/01	-	9.0S	10.8						7.9

NOTE:
The S flag following Water Content for SNOTEL sites indicates telemetered data. The Depth reading preceding S flagged data was measured around the snow pillows at the time of the ground survey and may not be the same date as the telemetered value.

Issued by

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Utah
Basin Outlook Report
Natural Resources Conservation Service
Salt Lake City, UT





United States
Department of
Agriculture

Natural
Resources
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Service



Utah

Basin Outlook Report

February 1, 1996



Basin Outlook Reports and Federal - State - Private Cooperative Snow Surveys

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How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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STATE OF UTAH GENERAL OUTLOOK
Feb 1, 1996

SUMMARY

The 1996 Water Year got off to a poor start but the good news is "the snow is back", its on your roof, your driveways and sidewalks, across the freeways and byways and most important, it's in the mountains. January brought some phenomenal snowpack increases to the mountains of northern Utah, raising watershed totals from the 60% and 90% range to the 110% to 140% range. These are increases of 30% to 50%, and in most cases, more than double the normal gain. Snowpack increases of this magnitude can be expected on average, to occur about once in every 20 years. The paradox in this case is that the snowpacks in southern and southeastern Utah have remained in the doldrums. While the north has been pounded relentlessly by storm after storm, the southern areas have had little improvement in their snowpacks and consequently remain much below average, in fact tied for the worst February 1 snowpack ever on the Virgin Basin. The Virgin Basin will need almost double the average February through March snowpack increase to have normal snowpacks on April 1, and has a surprisingly high probability (35%) that it could. Precipitation during January was double the normal over most of the northern areas, about 140% over the Sevier but only 67% of normal across extreme southern Utah. The seasonal precipitation accumulation, (Oct-Jan) ranges from 35% in the south to 135% of average in the north. General water supply conditions have changed dramatically in the north, going from generally poor to excellent while in the south, they remain in the poor condition. Reservoir storage is in excellent condition at 69% of capacity.

SNOWPACK

Snowpacks in Utah, as measured by the NRCS SNOTEL system, are at 106% of normal, up an incredible 38% from last months 68% of normal. Most of this increase came in the northern and central portion of the state and has in effect, reversed water supply conditions from below and much below average to average and above over most of the northern areas. Some areas could, in fact, accumulate almost no snow during February and March and still be near average snowpack conditions on the first of April, traditionally the peak snowpack month. This is the best February 1 snowpack on the Bear and Weber Watersheds since the huge snow years of the early and mid eighties. January snowpack increases in northern Utah ranged from 170% to 240% of normal. Extreme southern Utah was virtually neglected in this snowpack frenzy, receiving only 60% of a normal increase and as a result, remains in the much below normal range for snowpacks at only 37% of average. In fact, almost every January snowpack increase has historically been larger than the one this year in this area.

PRECIPITATION

Mountain precipitation in December, as measured by the NRCS SNOTEL

system, was much above average statewide at 174% of normal, bringing the seasonal accumulation (Oct-Jan) to 104% of average. Areas in the north received 200% whereas the south received only 70% of normal.

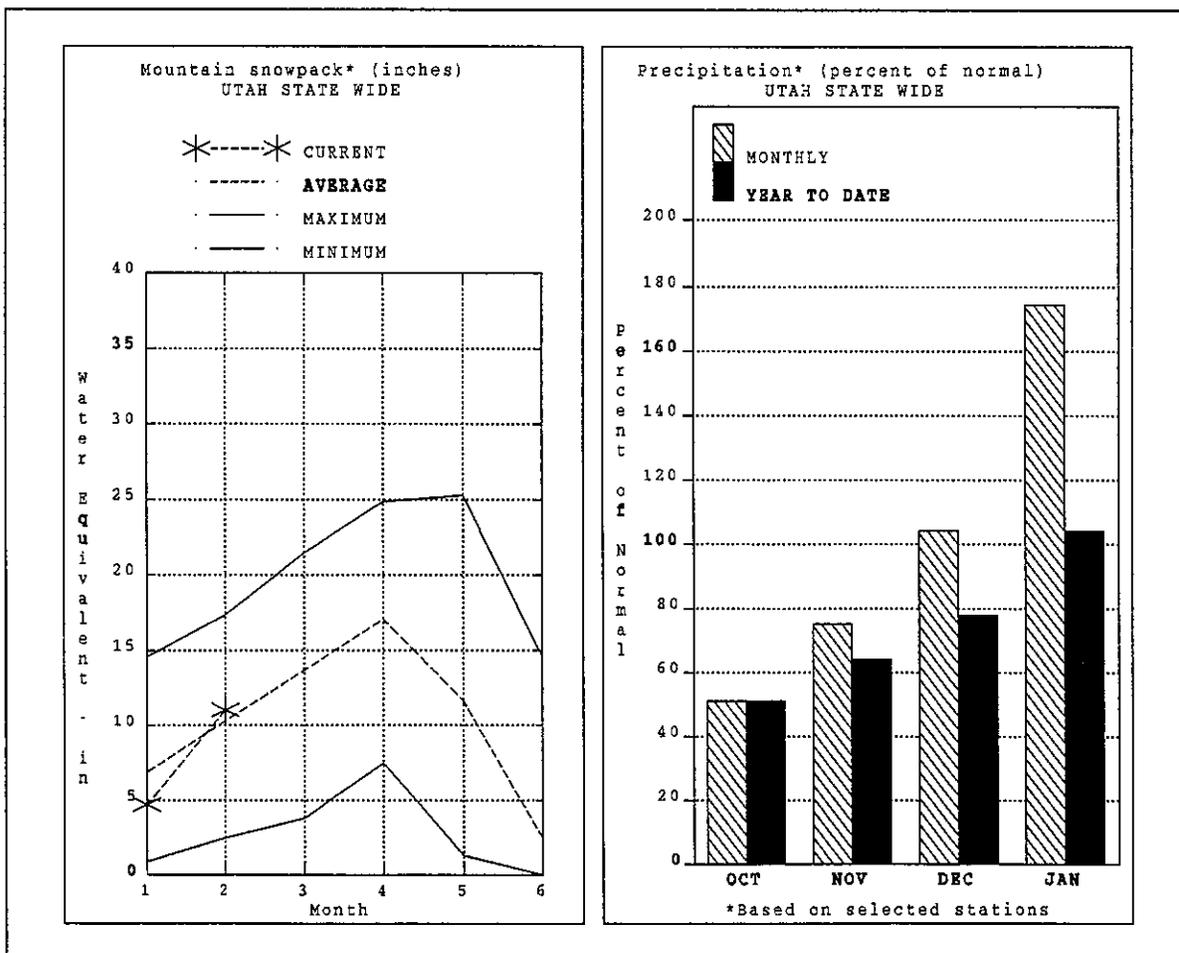
National Weather Service precipitation figures indicate the same general pattern, more precipitation (200% or more) in the north and less in the south. Some figures for January include: Coalville - 339%, Randolph - 451%, Timpanogos Cave - 305% and the Salt Lake Airport - 278% of average. Lower amounts include: St George - 39% and Zion National Park - 43% of normal.

RESERVOIRS

Storage in 40 of Utah's key irrigation reservoirs is at 69% of capacity. Most reservoirs are in excellent shape for spring runoff.

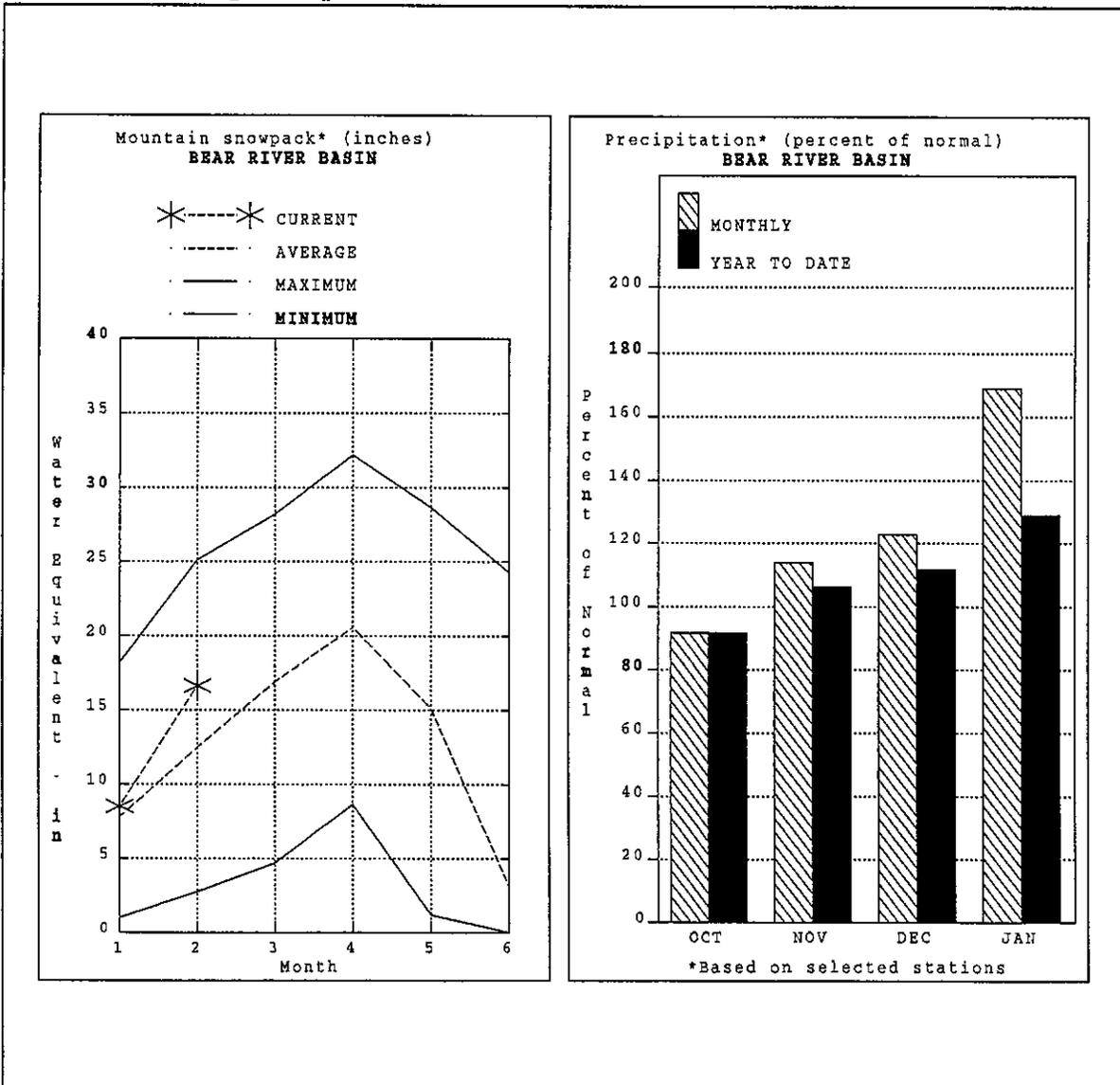
STREAMFLOW

Streamflow forecasts for snowmelt runoff range from near average to much above average in northern Utah to below and much below average in the southern areas of the state.



BEAR RIVER BASIN
Feb 1, 1996

The Bear River Basin has had a phenomenal snowpack increase over the past month, going from 108% of normal to 132% of average, almost double the normal increase. The amount of snowfall in Utah during this past January was exceeded only once in the historical record, in the 1986 water year. This is the best February 1 total snowpack on the Bear River since 1984. Precipitation during January was 169% of normal which brings the seasonal total (Oct-Jan) to 129% of average. Reservoir storage in Bear River Basin is near 44% of capacity.



BEAR RIVER BASIN
Streamflow Forecasts - February 1, 1996

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	10% (1000AF)	30% (1000AF)	10% (1000AF)	
BEAR R nr UT-WY State Line	APR-JUL	92	112	127	110	145	175	115
BEAR R nr Woodruff (2)	APR-JUL	58	121	164	110	207	270	149
BIG CK nr Randolph	APR-JUL	0.55	2.78	4.30	113	5.82	8.05	3.80
BEAR R nr Randolph, UT	APR-JUL	62	105	135	114	165	208	118
SMITHS FORK nr Border, WY	APR-JUL	89	107	120	118	133	151	102
THOMAS FK nr WY-ID State Line	APR-JUL	18.8	27	35	106	45	65	33
BEAR R blw Stewart Dam nr Montpelier	APR-JUL	199	262	305	106	348	411	288
MONTPELIER CK nr Montpelier (2)	APR-JUL	7.3	9.6	11.5	94	13.8	18.2	12.2
CUB R nr Preston	APR-JUL	33	41	47	100	53	61	47
LOGAN R nr Logan	APR-JUL	84	109	130	121	155	201	107
BLACKSMITH Fk nr Hyrum	APR-JUL	39	50	60	111	72	92	54

BEAR RIVER BASIN Reservoir Storage (1000 AF) - End of January					BEAR RIVER BASIN Watershed Snowpack Analysis - February 1, 1996			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
BEAR LAKE	1421.0	591.8	317.5	987.6	BEAR RIVER, UPPER (abv Ha	6	153	143
HYRUM	15.3	11.2	11.1	10.3	BEAR RIVER, LOWER (blw Ha	7	134	126
PORCUPINE	11.3	9.6	5.2	2.9	LOGAN RIVER	4	148	135
WOODRUFF NARROWS	57.3	44.0	8.5	---	RAFT RIVER	0	0	0
WOODRUFF CREEK	4.0	3.2	2.0	---	BEAR RIVER BASIN	13	142	133

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

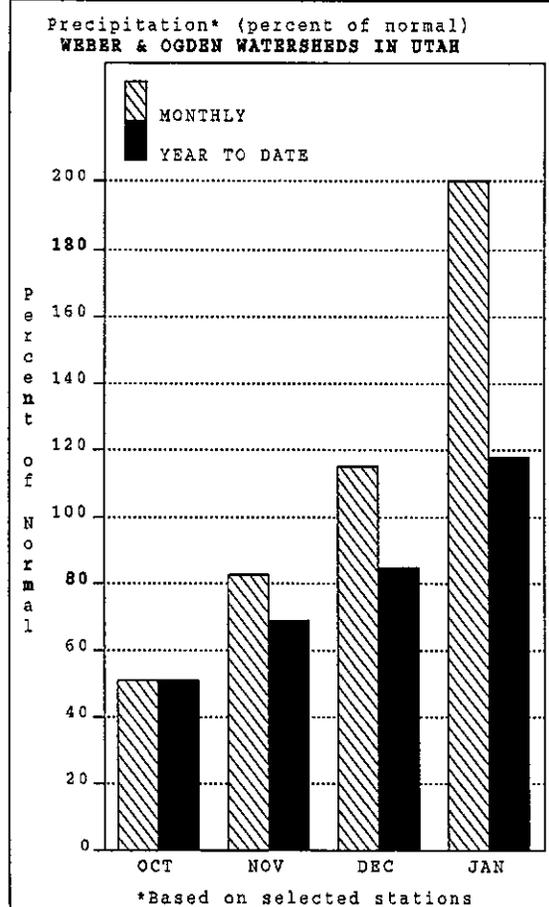
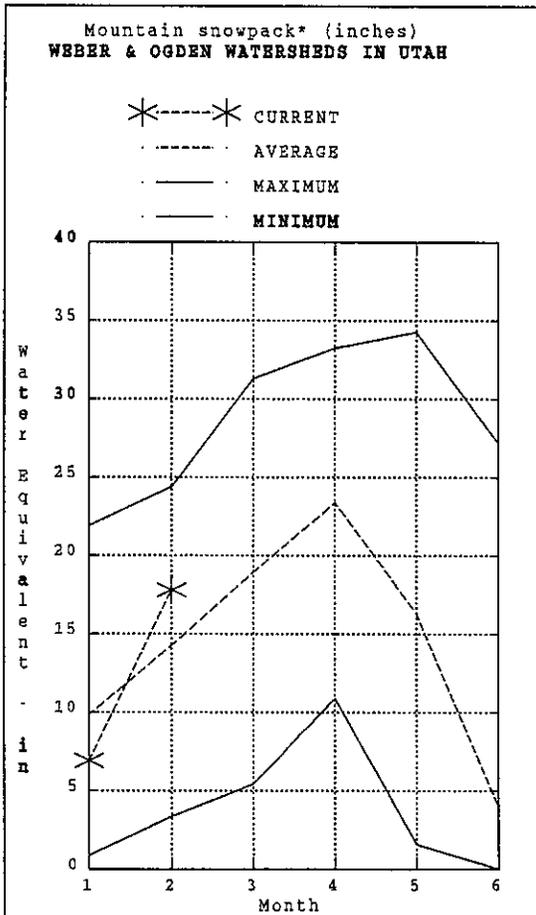
The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

WEBER & OGDEN BASINS
Feb 1, 1996

Snowpacks on the Weber and Ogden Watersheds have made an astounding rebound during the past month, going from a below average 71% to an incredible 124% of normal, a 53% total increase from January 1 and almost 250% of the average January gain. This is the best February 1 snowpack on the Weber system since the 1986 water year. Since 1961, there have been only 2 other January snowpack increases that have been this large. January precipitation was 207% of average bringing the seasonal accumulation (Oct-Jan) to 118% of normal. Reservoir storage is at 75% of capacity.



WEBER & OGDEN WATERSHEDS in Utah
Streamflow Forecasts - February 1, 1996

Forecast Point	Forecast Period	Future Conditions					30-Yr Avg. (1000AF)	
		<<===== Drier =====>>		===== Wetter =====>>				
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	Chance Of Exceeding * (% AVG.)	30% (1000AF)		10% (1000AF)
SMITH AND MOREHOUSE CK nr Oakley	APR-JUN	21	28	33	110	38	45	30
WEBER R nr Oakley	APR-JUL	96	117	132	108	147	168	122
ROCKPORT RESEROIR inflow	APR-JUL	95	125	145	108	165	195	134
CHALK CK at Coalville, Ut	APR-JUL	21	37	48	109	59	75	44
WEBER R nr Coalville, Ut	APR-JUL	93	124	145	107	166	197	136
ECHO RESEROIR Inflow	APR-JUL	110	155	185	105	215	260	176
LOST CK Res Inflow	APR-JUL	6.0	13.8	19.0	110	24	32	17.2
E CANYON CK nr Morgan	APR-JUL	20	29	34	113	40	48	30
WEBER R at Gateway	APR-JUL	321	362	390	112	418	459	347
S FORK OGDEN R nr Huntsville	APR-JUL	47	62	72	114	82	98	63
PINEVIEW RESEROIR Inflow	APR-JUL	77	111	135	109	159	195	124
WHEELER CK nr Huntsville	APR-JUL	4.77	6.25	7.20	116	8.15	9.61	6.20

WEBER & OGDEN WATERSHEDS in Utah
Reservoir Storage (1000 AF) - End of January

WEBER & OGDEN WATERSHEDS in Utah
Watershed Snowpack Analysis - February 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
CAUSEY	7.1	4.2	2.8	2.2	OGDEN RIVER	4	100	116
EAST CANYON	49.5	42.2	30.4	34.7	WEBER RIVER	8	115	129
ECHO	73.9	56.1	40.8	45.8	WEBER & OGDEN WATERSHEDS	12	109	124
LOST CREEK	22.5	16.7	14.6	13.1				
PINEVIEW	110.1	67.3	63.2	49.6				
ROCKPORT	60.9	44.3	27.5	31.9				
WILLARD BAY	215.0	174.7	118.0	110.6				

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

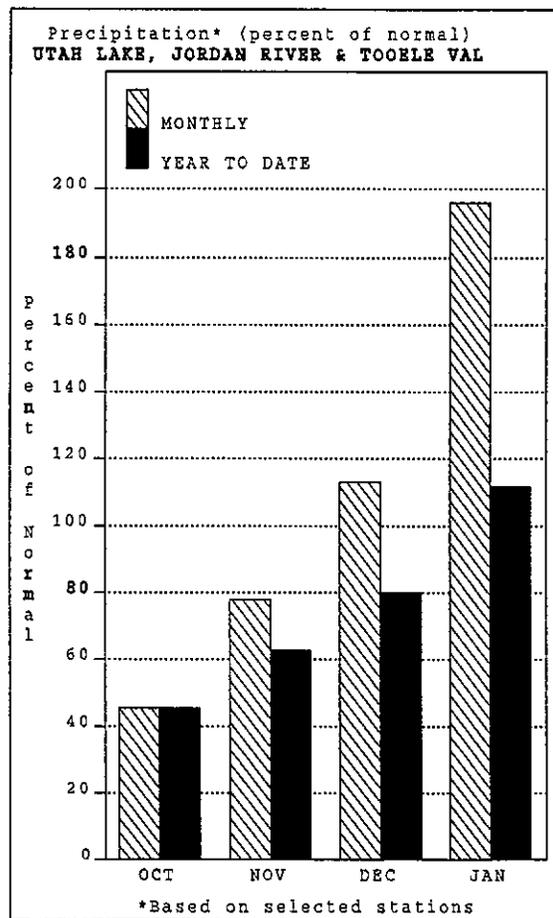
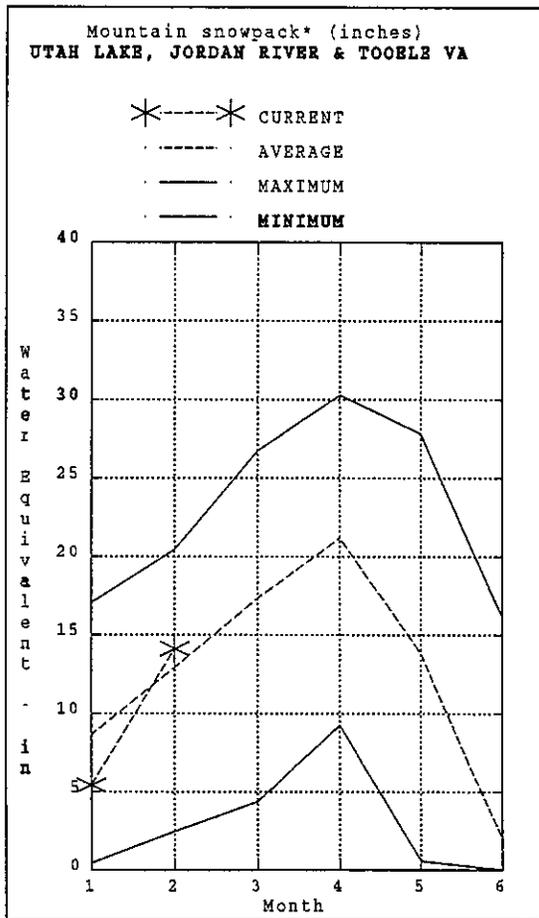
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(2) - The value is natural flow - actual flow may be affected by upstream water management.

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY BASINS
Feb 1, 1996

Snowpacks on the Provo - Utah Lake watershed have gone from a much below normal 64% of average on January 1 to 109% on February 1, an increase of 45% in just one month, more than double the normal gain. Since 1961, there have been only two other occasions with January increases of similar magnitude. January precipitation was 196% of normal, bringing the seasonal accumulation (Oct-Jan) to 112% of average. Water supply conditions are near average. Reservoir storage is at 91% of capacity.



UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Streamflow Forecasts - February 1, 1996

Forecast Point	Forecast Period	<<==== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90% (1000AF)		70% (1000AF)		Chance Of Exceeding *		
		50% (Most Probable) (1000AF) (% AVG.)		30% (1000AF)		10% (1000AF)		
PAYSON CK nr Payson	APR-JUL	0.31	2.67	3.80	86	4.93	7.30	4.40
SPANISH FORK nr Castilla	APR-JUL	5.2	46	70	95	94	135	74
HOBBLE CK nr Springville	APR-JUL	10.0	16.6	20	106	23	30	18.8
PROVO R nr Hailstone	APR-JUL	78		120	110		160	109
PROVO R below Deer Creek Dam	APR-JUL	72		140	109		207	128
AMERICAN FORK nr American Fk.	APR-JUL	19.2	26	30	94	34	41	32
UTAH LAKE inflow	APR-JUL	100		290	90		480	324
L COTTONWOOD CRK nr SLC	APR-JUL	34	41	45	115	49	55	39
BIG COTTONWOOD CRK nr SLC	APR-JUL	32	39	43	113	47	54	38
PARLEY'S CK nr SLC	APR-JUL	7.3	13.7	17.5	110	21	28	15.9
MILL CK nr SLC	APR-JUL	3.84	5.79	7.00	108	8.21	10.27	6.50
DELL FK nr SLC	APR-JUL	3.48	6.38	8.00	113	9.62	12.57	7.10
EMIGRATION CK nr SLC	APR-JUL	1.30	3.59	5.00	119	6.41	8.69	4.20
CITY CK nr SLC	APR-JUL	4.57	7.39	9.10	109	10.81	13.53	8.30
VERNON CK nr Vernon (in Acre Feet)	APR-JUL	659	941	1200	90	1530	2187	1340
SETTLEMENT CK nr Tooele (in Acre Fee	APR-JUL	697	1314	2020	88	3105	5854	2300
S WILLOW CK nr Grantsville	APR-JUL	0.34	1.75	2.70	87	3.65	5.06	3.10

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Reservoir Storage (1000 AF) - End of January

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Watershed Snowpack Analysis - February 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
DEER CREEK	149.7	133.1	83.6	94.3	PROVO RIVER & UTAH LAKE	7	110	109
GRANTSVILLE	3.3	2.7	1.8	---	PROVO RIVER	4	123	117
SETTLEMENT CREEK	1.0	0.8	0.6	0.5	JORDAN RIVER & GREAT SALT	5	104	119
STRAWBERRY-ENLARGED	1105.9	673.6	471.0	---	TOOELE VALLEY WATERSHEDS	4	63	90
UTAH LAKE	870.9	869.6	627.5	648.6	UTAH LAKE, JORDAN RIVER &	16	95	109
VERNON CREEK	0.6	0.6	---	---				

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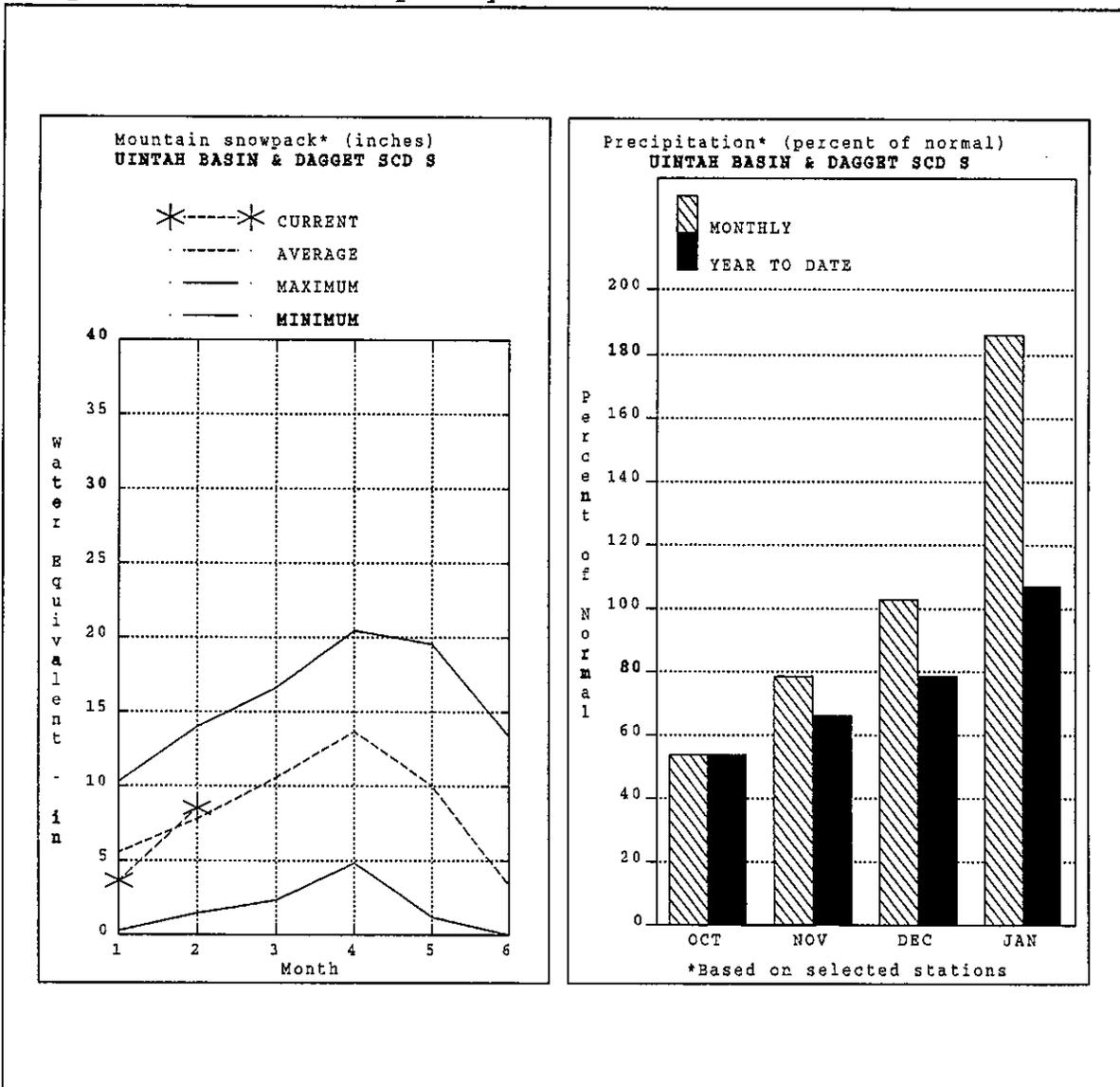
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UINTAH BASIN & DAGGET SCD'S
Feb 1, 1996

Snowpacks across the Uintas and the Strawberry area have rebounded from a scant 66% of normal last month to 109% of average on February 1, a 45% increase, more than double the normal January gain. While the overall basin has a near normal snowpack, the eastern edge (Uintah, Whiterocks and Ashley Creek) remain much below normal, near 65% of average. January precipitation was 186% of normal, bringing the seasonal accumulation (Oct-Jan) to 107% of average. Overall water supply conditions are good. Reservoir storage is at 64% of capacity.



UINTAH BASIN & DAGGET SCD'S
Streamflow Forecasts - February 1, 1996

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90% (1000AF)		70% (1000AF)		Chance Of Exceeding *		
		50% (Most Probable) (1000AF) (% AVG.)		30% (1000AF) 10% (1000AF)				
MEEKS CABIN RESERVOIR Inflow	APR-JUL	84	99	110	115	121	136	96
STATE LINE RESERVOIR INFLOW	APR-JUL	24	30	34	113	38	44	30
HENRYS FORK nr Manila	APR-JUL	25	40	50	119	60	75	42
FLAMING GORGE RES INFLOW	APR-JUL	1052	1355	1500	125	1645	1949	1196
BIG BRUSH CK abv Red Fleet Resv	APR-JUL	5.9	10.1	13.0	66	15.9	23	19.8
ASHLEY CK nr Vernal	APR-JUL	11.7	17.7	25	49	32	43	51
WF DUCHESNE R nr Hanna	APR-JUL	19.1	24	28	108	32	37	26
DUCHESNE R nr Tabiona	APR-JUL	93	109	120	114	131	147	105
ROCK CK nr Mountain Home	APR-JUL	82	96	105	112	115	128	94
UPPER STILLWATER RESV inflow	APR-JUL	64	79	90	111	101	116	81
DUCHESNE R abv Knight Diversion	APR-JUL	159	195	220	116	245	281	189
STRAWBERRY RESV nr Soldier Springs	APR-JUL	44	57	65	110	74	86	59
CURRENT CREEK RESV Inflow	APR-JUL	15.8	20	23	110	26	30	21
STARVATION RESV Inflow	APR-JUL	78	109	130	111	151	182	117
MOON LAKE Inflow	APR-JUL	51	63	72	104	81	93	69
YELLOWSTONE R nr Altonah	APR-JUL	42	58	68	105	79	94	65
DUCHESNE R at Myton	APR-JUL	191	262	310	118	358	429	263
WHITEROCKS R nr Whiterocks	APR-JUL	15.8	24	35	60	46	62	58
UINTA R nr Neola	APR-JUL	24	37	53	62	69	92	85
DUCHESNE R nr Randlett	APR-JUL	161	249	350	107	451	600	328

UINTAH BASIN & DAGGET SCD'S
Reservoir Storage (1000 AF) - End of January

UINTAH BASIN & DAGGET SCD'S
Watershed Snowpack Analysis - February 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
FLAMING GORGE	3749.0	3230.9	2815.0	---	UPPER GREEN RIVER in UTAH	6	95	102
MOON LAKE	49.5	25.6	15.0	29.1	ASHLEY CREEK	2	37	49
RED FLEET	25.7	20.5	15.3	---	BLACK'S FORK RIVER	2	168	146
STEINAKER	33.4	28.9	11.2	19.7	SHEEP CREEK	1	72	66
STARVATION	165.3	143.0	122.0	113.0	DUCHESNE RIVER	11	96	112
STRAWBERRY-ENLARGED	1105.9	673.6	471.0	---	LAKE FORK-YELLOWSTONE CRE	4	119	124
					STRAWBERRY RIVER	4	105	113
					UINTAH-WHITEROCKS RIVERS	2	35	64
					UINTAH BASIN & DAGGET SCD	17	96	109

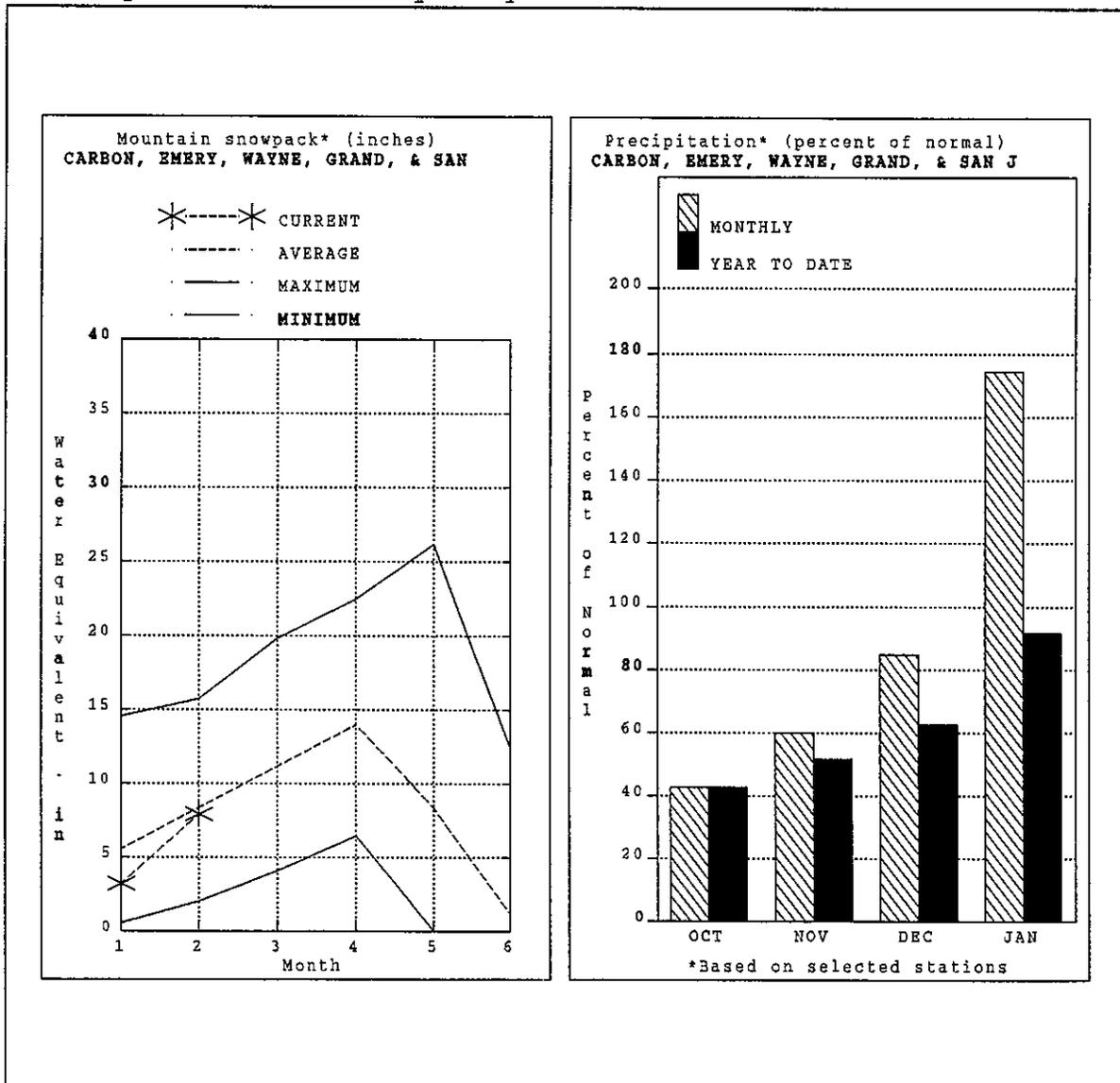
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CARBON, EMERY, WAYNE, GRAND, & SAN JUAN CO
Feb 1, 1996

Snowpacks in this region of Utah are much greater than last month, increasing from 59% to 95% of normal, a 36% gain and about 15% more than last years February 1 snowpack. Individual watersheds range from 38% on the Blue Mountains to 117% on the San Rafael. Mountain precipitation for January was 174% of normal, bringing the seasonal accumulation (Oct-Jan) to 92% of average. Water supply conditions are average to much below average over these watersheds with conditions worst in the southeastern areas. Reservoir storage is currently near 62% of capacity.



CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Streamflow Forecasts - February 1, 1996

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>					30-Yr Avg. (1000AF)		
		90% (1000AF)		70% (1000AF)		Chance Of Exceeding *			
		50% (Most Probable) (1000AF) (% AVG.)		30% (1000AF)		10% (1000AF)			
GOOSEBERRY CK nr Scofield	APR-JUL	7.5		13.0	111		18.5	11.7	
SCOFIELD RESV Inflow	APR-JUL	18.0		47	107		85	44	
WHITE R blw Tabbyune Ck	APR-JUL	7.1		17.0	91		27	18.7	
GREEN R at Green River, UT	APR-JUL	2615	3378	3800	121		4222	4979	3151
ELECTRIC LAKE inflow	APR-JUL	10.9	13.1	14.7	97		16.4	19.1	15.1
HUNTINGTON CK nr Huntington	APR-JUL	16.8	34	41	100		48	55	41
JOE'S VALLEY RESV Inflow	APR-JUL	35	50	60	113		70	85	53
FERRON CK nr Ferron	APR-JUL	30	39	46	118		53	62	39
COLORADO R nr Cisco	APR-JUL	2851	3992	4600	111		5208	6322	4132
MILL CK at Sheley Tunnel	APR-JUL	2.06	2.97	3.80	63		4.87	7.01	6.00
INDIAN CK + INDIAN CK TUNNEL	MAR-JUL	0.13	0.20	0.30	9		1.37	4.37	3.34
SEVEN MILE CK nr Fish Lake	APR-JUL	2.64	4.18	6.20	95		8.22	11.19	6.50
MUDDY CK nr Emery	APR-JUL	11.5	19.0	24	122		29	37	19.6
LLOYD'S RESERVOIR inflow	MAR-JUL	0.06	0.15	0.30	10		2.75	6.37	2.90
RECAPTURE RESERVOIR inflow	MAR-JUL	0.00	0.26	0.60	9		2.58	5.49	6.40
SAN JUAN R nr Bluff	APR-JUL	81	274	500	43		726	1117	1152

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Reservoir Storage (1000 AF) - End of January

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Watershed Snowpack Analysis - February 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
HUNTINGTON NORTH	4.2	3.8	2.0	2.3	PRICE RIVER	3	104	112
JOE'S VALLEY	61.6	44.4	30.0	43.6	SAN RAFAEL RIVER	3	104	121
KEN'S LAKE	2.3	1.8	0.9	---	MUDDY CREEK	1	116	115
MILL SITE	16.7	12.7	10.3	3.5	FREMONT RIVER	3	46	59
SCOFIELD	65.8	30.7	13.7	31.3	LASAL MOUNTAINS	1	73	76
					BLUE MOUNTAINS	1	19	38
					WILLOW CREEK	1	36	55
					CARBON, EMERY, WAYNE, GRA	13	80	96

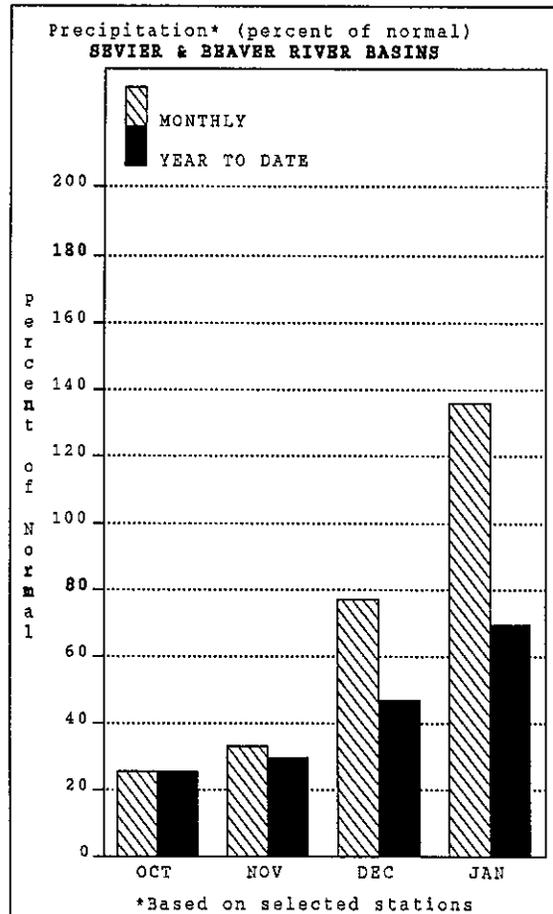
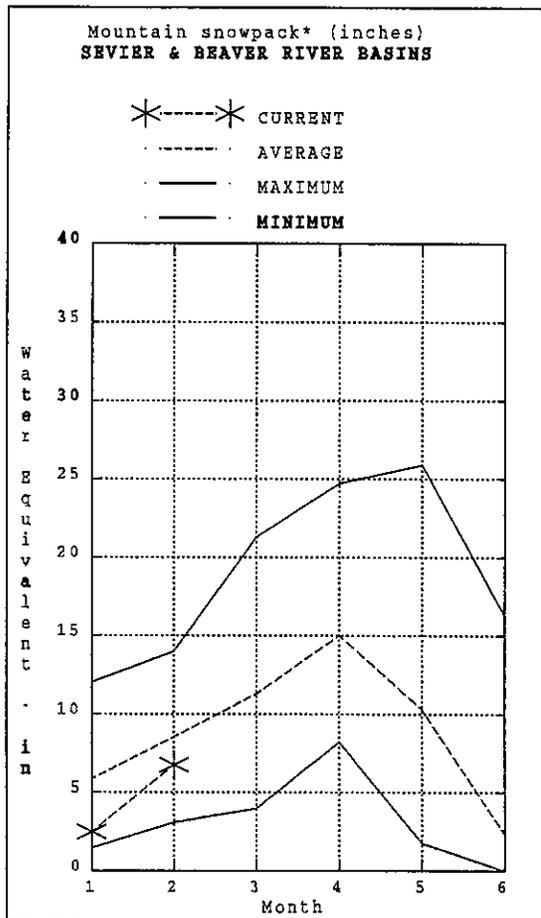
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SEVIER & BEAVER RIVER BASINS
Feb 1, 1996

Snowpacks in the Sevier River Basin remain below average at 79%, but have increased 35% during January. This area requires 154% of normal snowpack increase to reach an average April 1 value. A normal snowpack increase would yield April 1 snow levels at about 80% of average. Mountain precipitation was 136% of normal in January, bringing the seasonal accumulation (Oct-Jan) to 70% of average. Water supply conditions are below normal. Reservoir storage in the Sevier Basin is 96% of capacity.



SEVIER & BEAVER RIVER BASINS
Streamflow Forecasts - February 1, 1996

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)				
		90%		70%		50% (Most Probable)			30%		10%	
		(1000AF)	(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)		(1000AF)	(1000AF)	(1000AF)	(1000AF)
SEVIER R at Hatch	APR-JUL	14.0	18.4	25	46	35	54	54				
SEVIER R nr Circleville	APR-JUL	3.0	20	34	45	48	68	75				
SEVIER R nr Kingston	APR-JUL	0.8	21	35	42	49	73	83				
ANTIMONY CK nr Antimony	APR-JUL	0.37	2.38	3.40	46	4.42	6.44	7.40				
E F SEVIER R nr Kingston	APR-JUL	4.8	7.8	12.0	40	22	38	30				
SEVIER R blw Piute Dam	APR-JUL	23		60	52		128	115				
CLEAR CK nr Sevier	APR-JUL	0.4	8.2	13.0	62	17.8	25	21				
SALINA CK at Salina	APR-JUL	0.5	3.0	10.0	57	19.1	36	17.6				
PLEASANT CK nr Pleasant	APR-JUL	4.59	6.47	7.50	88	8.53	10.37	8.50				
EPHRAIM CK nr Ephraim	APR-JUL	3.3	7.0	9.0	71	11.0	14.7	12.6				
SEVIER R nr Gunnison	APR-JUL	65	93	135	56	209	354	239				
CHICKEN CK nr Levan	APR-JUL	1.76	2.80	3.50	74	4.20	5.24	4.70				
OAK CK nr Oak City	APR-JUL	0.07	0.46	1.20	71	1.94	3.02	1.70				
BEAVER R nr Beaver	APR-JUL	3.0	7.6	16.0	62	24	37	26				
MINERSVILLE RESEROIR inflow	APR-JUL	1.9	4.4	10.0	60	15.6	24	16.7				

SEVIER & BEAVER RIVER BASINS
Reservoir Storage (1000 AF) - End of January

SEVIER & BEAVER RIVER BASINS
Watershed Snowpack Analysis - February 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
GUNNISON	20.3	20.3	5.8	11.7	UPPER SEVIER RIVER (south	7	32	54
MINERSVILLE (RkyFd)	23.3	20.6	9.0	11.2	EAST FORK SEVIER RIVER	2	43	68
OTTER CREEK	52.5	51.0	30.9	27.5	SOUTH FORK SEVIER RIVER	5	28	48
PIUTE	71.8	62.0	50.5	36.9	LOWER SEVIER RIVER (inclu	6	98	97
SEVIER BRIDGE	236.0	234.0	109.0	101.1	BEAVER RIVER	2	67	92
PANGUITCH LAKE	22.3	19.8	9.8	---	SEVIER & BEAVER RIVER BAS	15	60	79

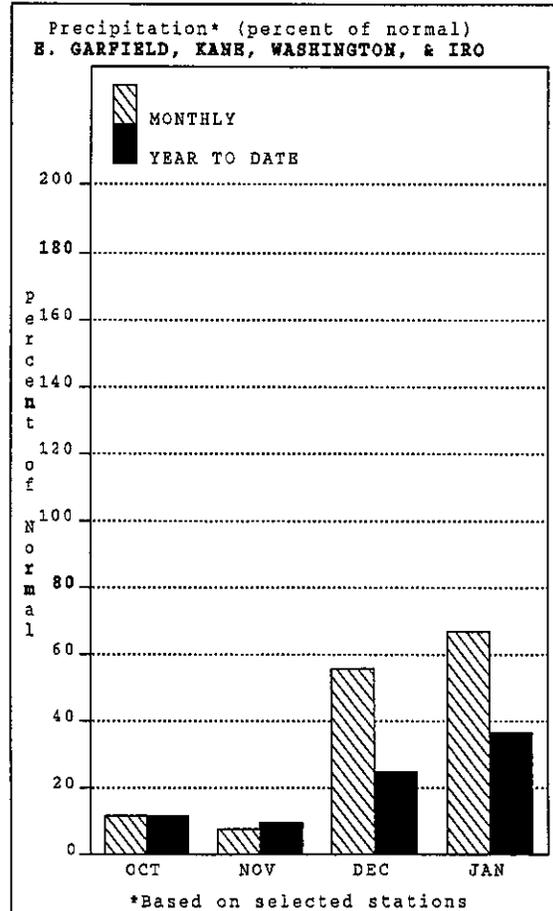
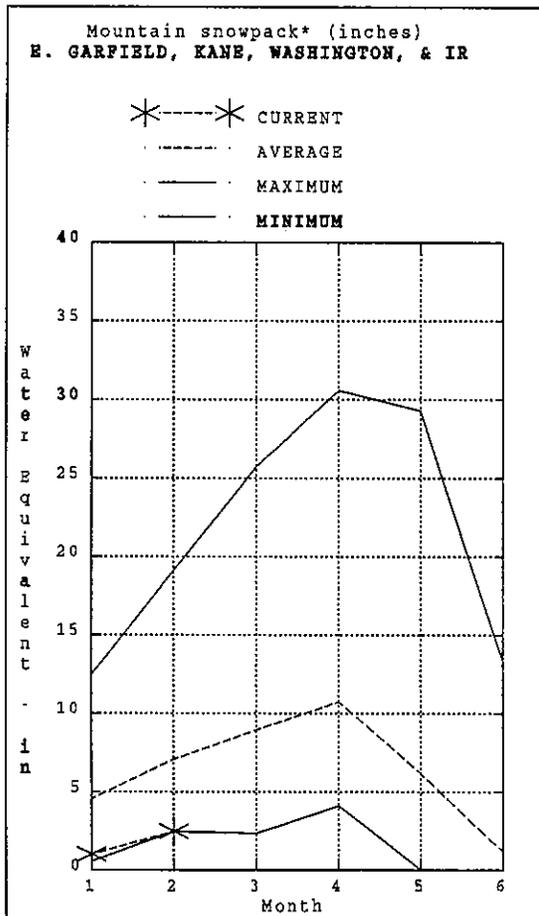
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E. GARFIELD, KANE, WASHINGTON, & IRON CO.
Feb 1, 1996

Snowpacks in this area are much below average at 37% of normal, about 20% of last year and tied with the 1990 snowpack as the lowest for this time of year. This area will need almost 186% of a normal snowpack increase to get to an average April 1 figure, and there is a surprisingly high probability (34%) that it could. Mountain precipitation during January was 67% of normal, bringing the seasonal accumulation (Oct-Jan) to 37% of average. Water supply conditions for these watersheds are much below average. Reservoirs are at 74% of capacity.



E. GARFIELD, KANE, WASHINGTON, & IRON Co.
Streamflow Forecasts - February 1, 1996

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<==== Drier =====		===== Chance Of Exceeding * ===== 90% 70% 50% (Most Probable) 30% 10%		===== Wetter =====>>		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
COAL CK nr Cedar City	APR-JUL	4.1	6.8	9.5	51	13.9	21	18.8
LAKE POWELL INFLOW	APR-JUL	5028		8200	106		11370	7735
VIRGIN R nr Hurricane	APR-JUL	15.8		50	63		130	79
SANTA CLARA R nr Pine Valley	APR-JUL	1.01		3.50	66		8.00	5.30

E. GARFIELD, KANE, WASHINGTON, & IRON Co.
Reservoir Storage (1000 AF) - End of January

E. GARFIELD, KANE, WASHINGTON, & IRON Co.
Watershed Snowpack Analysis - February 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
GUNLOCK	10.4	9.8	8.9	---	VIRGIN RIVER	5	21	36
LAKE POWELL	24322.0	20946.0	16843.0	---	PAROWAN	2	26	41
QUAIL CREEK	40.0	29.4	30.0	---	ENTERPRISE TO NEW HARMONY	2	12	28
UPPER ENTERPRISE	10.0	7.4	5.0	---	COAL CREEK	2	26	38
LOWER ENTERPRISE	2.6	0.0	1.1	---	ESCALANTE RIVER	2	28	44
					E. GARFIELD, KANE, WASHIN	9	21	37

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural flow - actual flow may be affected by upstream water management.

SNOW COURSE DATA
FOR THE STATE OF UTAH
As of FEBRUARY 1, 1996

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90
AGUA CANYON SNOTEL	8900	2/01	-	2.8S	10.5	-	DRY BREAD POND SNOTEL	8350	2/01	-	14.8S	13.5	12.5
ALTA CENTRAL	8800	1/29	99	25.6	34.7	24.6	DRY FORK SNOTEL	7160	2/01	-	10.2S	11.4	-
ASHLEY TWIN LAKES	10500						EAST SHINGLE LAKE	9800					
BEAVER DAMS SNOTEL	8000	2/01	-	7.9S	5.5	7.8	EAST WILLOW CREEK SN	8250	2/01	-	2.3S	6.4	4.2
BEAVER DIVIDE SNOTEL	8280	2/01	-	12.3S	7.0	7.6	FARMINGTON CANYON L.	6950					
BEN LOWMND PK SNOTEL	8000	2/01	-	27.0S	28.9	24.2	FARMINGTON CN SNOTEL	8000	2/01	-	21.6S	25.3	17.4
BEN LOWMND TR SNOTEL	6000	2/01	-	13.2S	16.8	14.9	FARNSWORTH LK SNOTEL	9600	2/01	-	9.8S	10.8	11.4
BEVAN'S CABIN	6450						FISH LAKE	8700					
BIG FLAT SNOTEL	10290	2/01	-	9.0S	13.6	10.7	FIVE POINTS LAKE SNO	10920	2/01	-	12.2S	11.1	10.3
BIRCH CROSSING	8100						FRANCES FLATS	6700				18.4	13.1
BLACK FLAT-U.M. CK S	9400	2/01	-	5.2S	4.4	6.0	G.B.R.C. HEADQUARTER	8700					
BLACK'S FORK GS-EF	9340						G.B.R.C. MEADOWS	10000					
BLACK'S FORK JUNCTN	8930						GARDEN CITY SUMMIT	7600					
BOX CREEK SNOTEL	9800	2/01	-	7.8S	10.7	7.6	GEORGE CREEK	8840					
BRIAN HEAD	10000						GOOSEBERRY R.S.	8400					
BRIGHTON CABIN	8700	1/31	87	20.4	21.3	17.2	GOOSEBERRY R.S. SNOT	7900	2/01	-	4.3S	3.6	7.2
BRIGHTON SNOTEL	8750	2/01	-	16.9S	16.2	14.2	HARDSCRABBLE SNOTEL	7250	2/01	-	16.8S	13.8	13.3
BROWN DUCK SNOTEL	10600	2/01	-	12.7S	12.7	11.8	HARRIS FLAT SNOTEL	7700	2/01	-	1.5S	11.0	5.2
BRYCE CANYON	8000	1/31	6	.7	8.7	3.2	HAYDEN FORK SNOTEL	9100	2/01	-	16.0S	8.1	10.2
BUCK FLAT SNOTEL	9800	2/01	-	15.0S	12.0	10.3	HENRY'S FORK	10000					
BUCK PASTURE	9700						HEWINTA SNOTEL	9500	2/01	-	10.2S	4.6	6.2
BUCKBOARD FLAT	9000	2/01	13	2.6	8.2	-	HICKERSON PARK SNOTE	9100	2/01	-	2.3S	3.2	3.5
BUG LAKE SNOTEL	7950	2/01	-	17.3S	11.5	12.9	HIDDEN SPRINGS	5500	2/01	33	7.4	6.1	6.0
BURT'S-MILLER RANCH	7900						HOBBLE CREEK SUMMIT	7420					
CAMP JACKSON SNOTEL	8600	2/01	-	2.7S	14.3	7.2	HOLE-IN-ROCK SNOTEL	9150	2/01	-	4.7S	4.1	3.2
CASTLE VALLEY SNOTEL	9580	2/01	-	3.9S	13.2	7.6	HORSE RIDGE SNOTEL	8260	2/01	-	20.4S	13.4	15.5
CHALK CK #1 SNOTEL	9100	2/01	-	20.5S	15.4	14.1	HUNTINGTON-HORSESHOE	9800					
CHALK CK #2 SNOTEL	8200	2/01	-	9.2S	11.4	9.1	INDIAN CANYON SNOTEL	9100	2/01	-	5.4S	7.8	6.1
CHALK CREEK #3	7500						JOHNSON VALLEY	8850					
CHEPETA SNOTEL	10300	2/01	-	5.9S	11.0	8.1	KILFOIL CREEK	7300					9.1
CITY CREEK	7500	2/01	88	21.4	22.2	18.6	KILLYON CANYON	6300	1/29	41	8.5	7.9	12.9
CLEAR CK RIDG #1 SNT	9200	2/01	-	12.8S	12.4	12.1	KIMBERLY MINE SNOTEL	9300	2/01	-	7.0S	11.8	8.2
CLEAR CK RIDG #2 SNT	8000	2/01	-	8.8S	10.6	8.7	KING'S CABIN SNOTEL	8730	2/01	-	3.7S	9.5	7.3
CLEAR CREEK RIDGE #3	6600						KLONDIKE NARROWS	7400					
COLD WATER SPRINGS	6030						KOLOB SNOTEL	9250	2/01	-	4.3S	21.0	11.9
CORRAL	8200						LAKEFORK #1 SNOTEL	10100	2/01	-	9.6S	10.5	7.2
CURRENT CREEK SNOTEL	8000	2/01	-	7.6S	7.9	6.8	LAKEFORK BASIN SNOTE	10900	2/01	-	18.6S	10.4	13.4
DANIELS-STRAWBERRY S	8000	2/01	-	13.2S	10.7	11.4	LAKEFORK MOUNTAIN #3	8400					
DESERET PEAK	9250						LAMES CANYON	7400	1/30	66	14.1	12.8	10.9
DESERET PEAK AM	9250						LASAL MOUNTAIN LOWER	8800	1/29	18	3.6	6.0	-
DESERET PEAK SNOTEL	9250	2/01	-	10.8S	15.5	10.9	LASAL MOUNTAIN SNOTE	9850	2/01	-	6.4S	8.8	8.4
DILL'S CAMP SNOTEL	9200	2/01	-	10.2S	8.8	8.9	LILY LAKE SNOTEL	9050	2/01	-	12.5S	7.5	8.1
DONKEY RESERVOIR SNO	9800	2/01	-	3.3S	6.7	5.0	LITTLE BEAR LOWER	6000					

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST AVERAGE YEAR	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST AVERAGE YEAR
LITTLE BEAR SNOTEL	6550	2/01	-	7.4S	9.4	THISTLE FLAT	8500				
LITTLE GRASSY SNOTEL	6100	2/01	-	0.1S	6.9	TIMBERLINE	9100				
LONG FLAT SNOTEL	8000	2/01	-	2.1S	11.7	TIMPANOGOS DIVIDE SN	8140	2/01	-	12.2S	16.8
LONG VALLEY JCT. SNT	7500	2/01	-	1.1S	8.2	TONY GROVE LK SNOTEL	8400	2/01	-	31.6S	19.1
LOOKOUT PEAK SNOTEL	8200	2/01	-	22.2S	21.3	TONY GROVE R.S.	6250				
LOST CREEK/RESERVOIR	6130	9960				15.4					
MAMMOTH-COTTONWD SNT	8800	2/01	-	13.5S	14.1	TRIAL LAKE SNOTEL	9960	2/01	-	20.5S	12.7
MERCHANT VALLEY SNOT	8750	2/01	-	7.2S	10.5	TROUT CREEK SNOTEL	9400	2/01	-	2.8S	8.2
MIDDLE CANYON	7000					UPPER JOES VALLEY	8900				
MIDWAY VALLEY SNOTEL	9800	2/01	-	4.9S	21.0	VERNON CREEK SNOTEL	7500	2/01	-	3.7S	12.0
MILL CREEK	6950	1/30	61	13.5	16.7	VIPONT	7670				
MILL-D NORTH SNOTEL	8960	2/01	-	19.2S	17.8	WEBSTER FLAT SNOTEL	9200	2/01	-	4.3S	14.6
MILL-D SOUTH FORK	7400	1/31	72	16.6	15.5	WHITE RIVER #1 SNOTE	8550	2/01	-	10.0S	8.4
MINING FORK SNOTEL	8000	2/01	-	13.1S	14.6	WHITE RIVER #3	7400				
MONTE CRISTO SNOTEL	8960	2/01	-	24.9S	20.7	WIDTSOE #3 SNOTEL	9500	2/01	-	1.8S	11.4
MOSBY MTN. SNOTEL	9500	2/01	-	3.0S	14.2	WRIGLEY CREEK	9000				
MT. BALDY R.S.	9500					YANKEE RESERVOIR	8700				
MUD CREEK #2	8600					NOTE:					
OAK CREEK	7760										
PANQUITCH LAKE	8200										
PARLEY'S CANYON SNOT	7500	2/01	-	13.3S	10.9						
PARLEY'S CANYON SUM.	7500	1/31	71	16.3	15.3						
PAYSON R.S. SNOTEL	8050	2/01	-	9.3S	11.1						
PICKLE KEG SNOTEL	9600	2/01	-	10.9S	9.2						
PINE CREEK SNOTEL	8800	2/01	-	10.5S	14.7						
RED PINE RIDGE SNOTE	9200	2/01	-	12.3S	10.1						
REDDEN MINE LOWER	8500										
REES'S FLAT	7300										
ROCK CREEK SNOTEL	7900	2/01	-	6.7S	5.0						
ROCKY BN-SETTLEMT SN	8900	2/01	-	11.0S	18.8						
SEEBLEY CREEK SNOTEL	10000	2/01	-	8.8S	12.6						
SILVER LAKE (BRIGHT.)	8730	1/31	78	19.0	20.4						
SMITH MOREHOUSE SNTL	7600	2/01	-	12.0S	10.0						
SNOWBIRD SNOTEL	9700	2/01	-	26.4S	28.0						
SPIRIT LAKE	10300										
SQUAW SPRINGS	9300										
STEEL CREEK PARK SNO	10100	2/01	-	13.1S	9.3						
STILLWATER CAMP	8550										
STRAWBERRY DIVIDE SN	8400	2/01	-	14.7S	12.6						
STUART R.S.	7950										
SUSC RANCH	8200										
TALL POLES	8800										
THAYNES CANYON SNOTL	9200	2/01	-	18.0S	18.5						

The S flag following Water Content for SNOTEL sites indicates telemetered data. The Depth reading preceding S flagged data was measured around the snow pillows at the time of the ground survey and may not be the same date as the telemetered value.

Issued by

Paul W. Johnson
Chief
Natural Resources Conservation Service
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Utah
Basin Outlook Report
Natural Resources Conservation Service
Salt Lake City, UT





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Agriculture

Natural
Resources
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Utah

Basin Outlook Report

March 1, 1996



Basin Outlook Reports

and Federal - State - Private Cooperative Snow Surveys

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How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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STATE OF UTAH GENERAL OUTLOOK

Mar 1, 1996

SUMMARY

General water supply conditions have been steadily improving throughout all areas of the state over the past few months. While snowpacks in the northern portion of the state are still much higher than the south, the southern areas have shown dramatic increases relative to a few short months ago. Snowpacks in the south remain below to much below average, but in some cases, are almost double what they were just last month. In the north, snowpacks are near average to much above. In fact, this is the best March 1 snowpack on the Bear River Watershed since the 1986 water year. Snowpacks in this area are already near their average April 1 values, and everything that accumulates for the remainder of the season could potentially put that much more water into Bear Lake or other storage facilities for later use. In extreme southern Utah, more than double the normal March snowpack accumulation is necessary to reach an average April 1 snowpack. Precipitation during February was typically greater in the southern areas of the state (125%-160%) than in the north (90%-135%) which brings the seasonal statewide accumulation (Oct-Feb) to 107% of normal. General water supply conditions remain near to above average in the north and have improved significantly in the south, with only two areas of great concern, the Virgin and southeast Utah where conditions are much below average. Reservoir storage is in excellent condition statewide, even in those areas where runoff is expected to be below average. In fact, many small and some large reservoirs are full and may spill water in the short term to make room for snowmelt streamflow.

SNOWPACK

Snowpacks in Utah, as measured by the NRCS SNOTEL system, are at 108% of normal, very similar to last months figures. In general, snowpacks in the north are much higher than in the south. In fact, most snowpacks in the north would only require a 20% to 60% of average March snowpack increase to be average on the traditional peak snowpack of April first. Snowpacks in the south increased dramatically during the month of February, some experiencing almost double their normal February increase. Although there were large snowpack increases, they remain below to much below average and will most likely see below normal streamflow conditions.

PRECIPITATION

Mountain precipitation in February, as measured by the NRCS SNOTEL system was above average statewide at 117% of normal, bringing the seasonal accumulation (Oct-Feb) to 107% of average. Areas in the north received 90% to 135% and the south received 125% to 160% of normal.

National Weather Service precipitation figures indicate that precipitation across the state was generally normal to above normal with the exception of the southeast. Some of the more impressive numbers include: Randolph - 291%, Spanish Fork - 201% and Zion N.P. - 248%. Some lower amounts include: Blanding - 48%, Hanksville - 56%, Monticello - 64% and Brigham City - 56%.

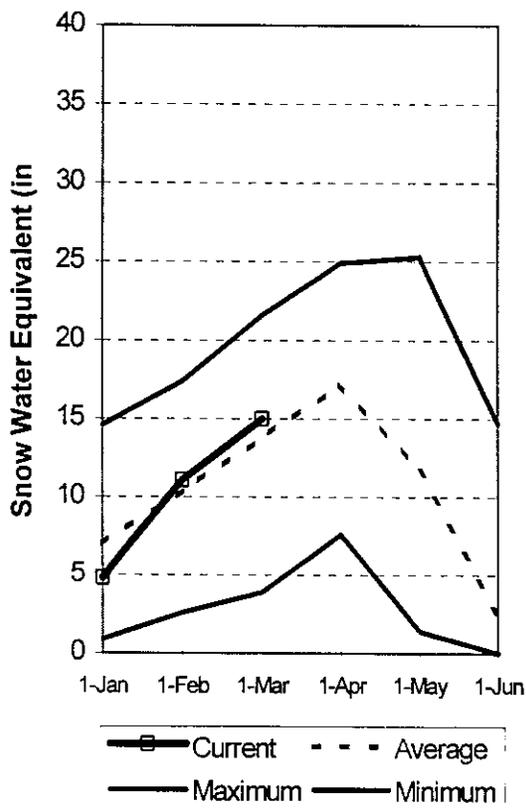
RESERVOIRS

Storage in 40 of Utah's key irrigation reservoirs is at 70% of capacity. Most reservoirs are in excellent shape for spring runoff.

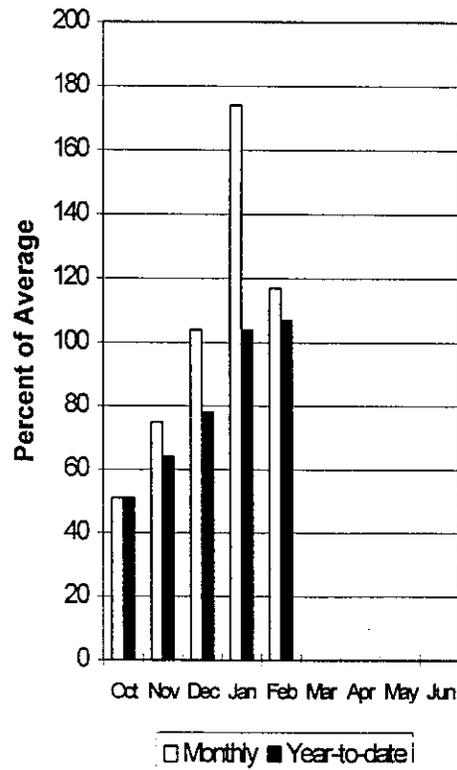
STREAMFLOW

Streamflow forecasts for snowmelt runoff range from near average to much above average in northern Utah and below to near average in the southern areas of the state.

Mountain Snowpack



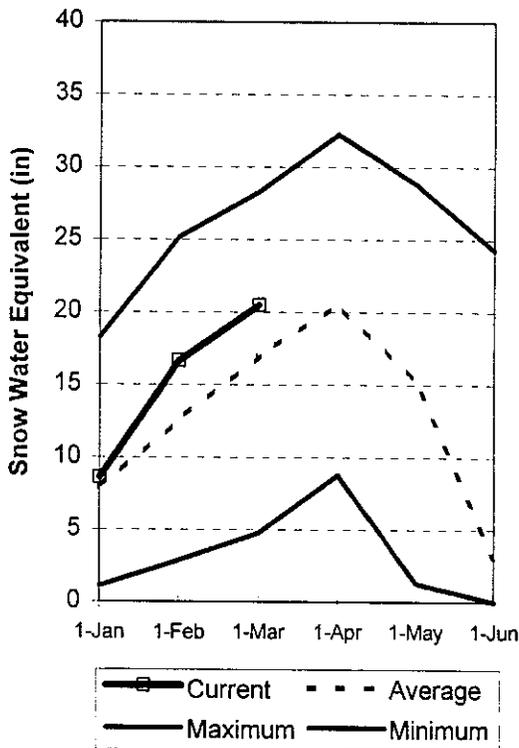
Precipitation



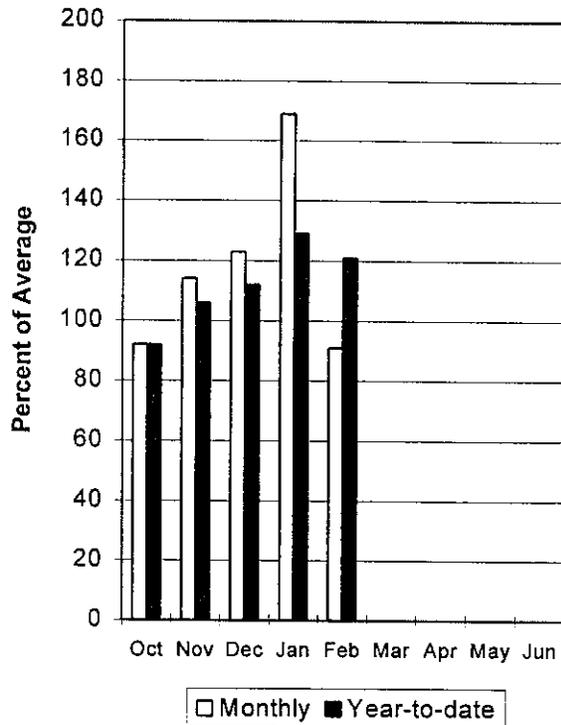
Bear River Basin Mar 1, 1996

Snowpack on the Bear River Basin is above average at 125% of normal, ranging from 75% to 149% of average at specific sites. The Bear Watershed is already very near its normal April 1 peak snowpack, and given a normal March accumulation, should be well above average for the spring runoff season. February precipitation across the Bear Watershed was actually a little below normal at 91%, which brings the seasonal accumulation (Oct-Feb) to 121% of average. Reservoir storage in the Bear River drainage is in excellent condition, with the exception of Bear Lake.

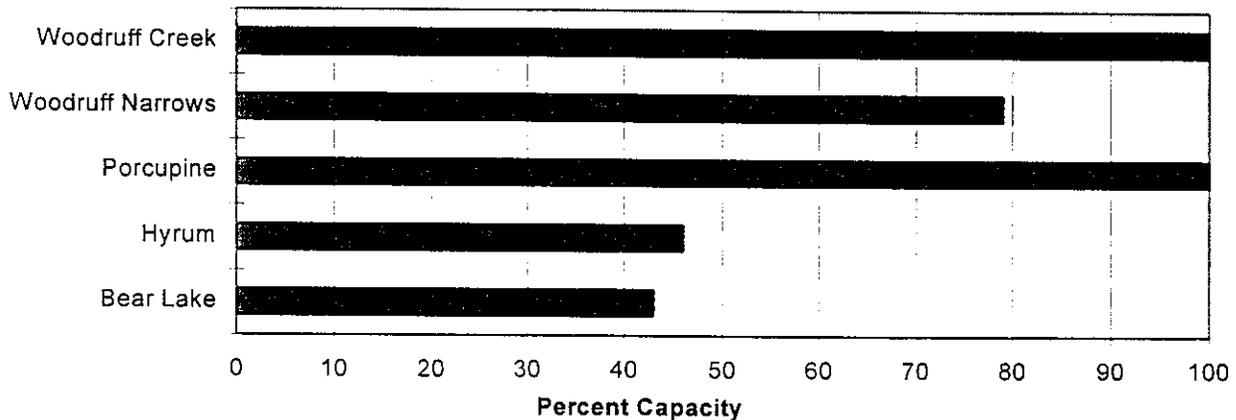
Mountain Snowpack



Precipitation



Reservoir Storage



BEAR RIVER BASIN
Streamflow Forecasts - March 1, 1996

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<==== Drier =====		===== Wetter =====>>				
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * 50% (Most Probable) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
BEAR R nr UT-WY State Line	APR-JUL	99	118	134	117	152	182	115
BEAR R nr Woodruff (2)	APR-JUL	71	132	173	116	214	275	149
BIG CK nr Randolph	APR-JUL	0.78	2.94	4.40	116	5.86	8.02	3.80
BEAR R nr Randolph, UT	APR-JUL	69	110	138	117	166	207	118
SMITHS FORK nr Border, WY	APR-JUL	99	114	125	123	136	151	102
THOMAS FK nr WY-ID State Line	APR-JUL	21	29	36	109	45	61	33
BEAR R blw Stewart Dam nr Montpelier	APR-JUL	206	268	310	108	352	414	288
MONTPELIER CK nr Montpelier (2)	APR-JUL	7.8	9.9	11.6	95	13.6	17.2	12.2
CUB R nr Preston	APR-JUL	36	43	47	100	52	58	47
LOGAN R nr Logan	APR-JUL	103	124	140	131	158	190	107
BLACKSMITH Fk nr Hyrum	APR-JUL	43	54	62	115	72	89	54

BEAR RIVER BASIN
Reservoir Storage (1000 AF) - End of February

BEAR RIVER BASIN
Watershed Snowpack Analysis - March 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
BEAR LAKE	1421.0	616.6	336.3	992.5	BEAR RIVER, UPPER (abv Ha	6	143	130
HYRUM	15.3	7.0	12.9	10.8	BEAR RIVER, LOWER (blw Ha	7	138	116
PORCUPINE	11.3	11.8	6.8	3.7	LOGAN RIVER	4	146	124
WOODRUFF NARROWS	57.3	45.0	14.0	---	RAFT RIVER	2	114	107
WOODRUFF CREEK	4.0	4.0	2.6	---	BEAR RIVER BASIN	13	140	122

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

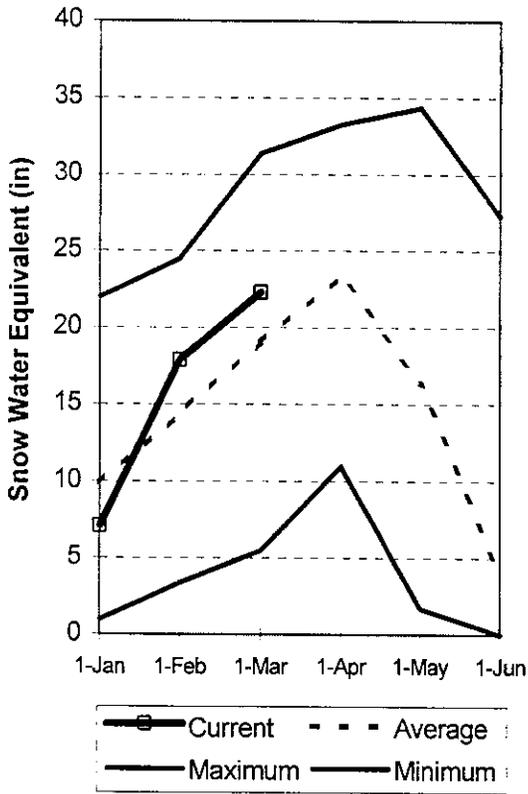
The average is computed for the 1961-1990 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural flow - actual flow may be affected by upstream water management.

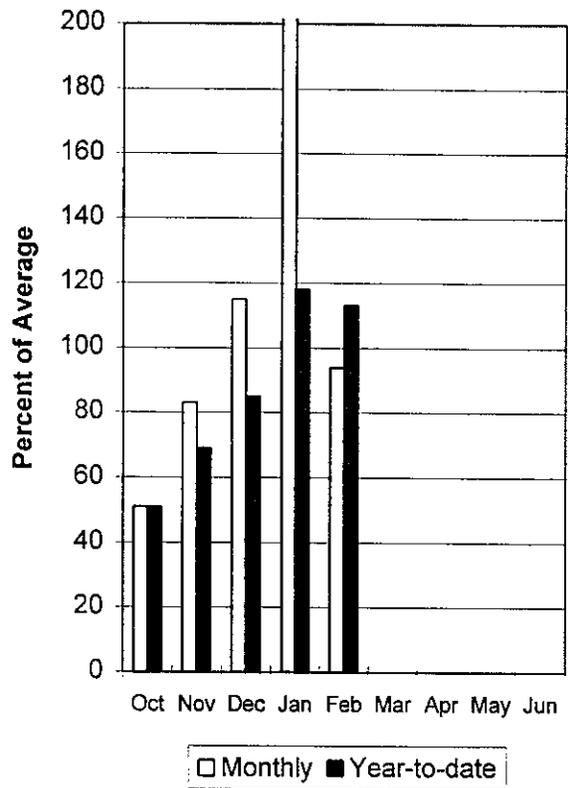
Weber and Ogden River Basins Mar 1, 1996

Snowpack on the Weber and Ogden Watersheds is at 117% of average. Individual sites ranges from 93% to 157 % of average. Snowpacks are slightly higher on the Weber mainstem (121%) than on the Ogden which is at 109% of normal. Precipitation during February was slightly below average at 94%, bringing the seasonal accumulation (Oct-Feb) to 113% of normal. Reservoir storage on the Weber system is in excellent condition. General water supply conditions are also excellent with the prospect of having above average runoff this spring.

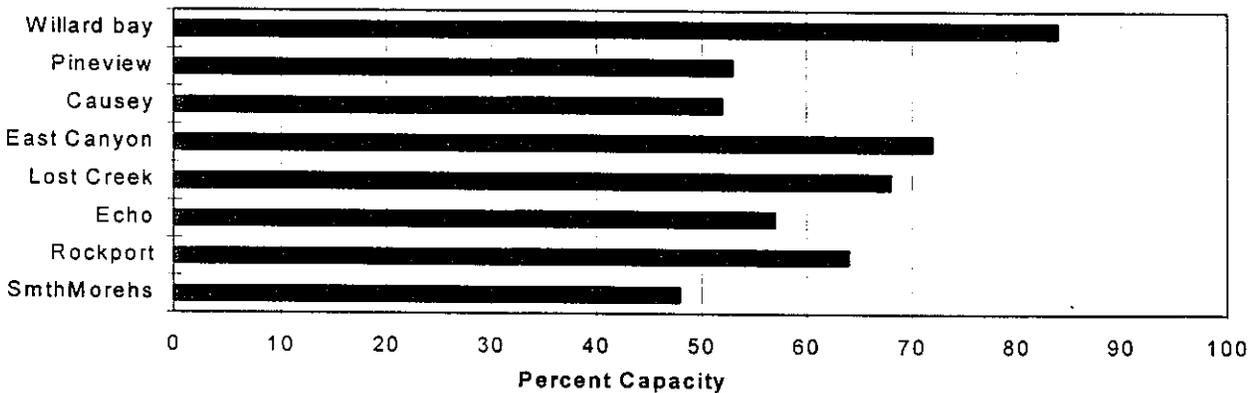
Mountain Snowpack



Precipitation



Reservoir Storage



WEBER & OGDEN WATERSHEDS in Utah
Streamflow Forecasts - March 1, 1996

Forecast Point	Forecast Period	<<==== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
				Chance Of Exceeding *				
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
SMITH AND MOREHOUSE CK nr Oakley	APR-JUN	25	30	34	113	38	43	30
WEBER R nr Oakley	APR-JUL	109	128	140	115	152	171	122
ROCKPORT RESERVOIR inflow	APR-JUL	113	138	155	116	172	197	134
CHALK CK at Coalville, Ut	APR-JUL	28	41	50	114	59	72	44
WEBER R nr Coalville, Ut	APR-JUL	115	142	160	118	178	205	136
ECHO RESERVOIR Inflow	APR-JUL	124	166	195	111	224	266	176
LOST CK Res Inflow	APR-JUL	9.7	15.8	20	116	24	30	17.2
E CANYON CK nr Morgan	APR-JUL	24	33	38	127	44	52	30
WEBER R at Gateway	APR-JUL	341	382	410	118	438	479	347
S FORK OGDEN R nr Huntsville	APR-JUL	54	65	73	116	81	92	63
PINEVIEW RESERVOIR Inflow	APR-JUL	90	120	140	113	160	190	124
WHEELER CK nr Huntsville	APR-JUL	5.43	6.54	7.30	118	8.06	9.17	6.20

WEBER & OGDEN WATERSHEDS in Utah
Reservoir Storage (1000 AF) - End of February

WEBER & OGDEN WATERSHEDS in Utah
Watershed Snowpack Analysis - March 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
CAUSEY	7.1	3.7	3.5	2.3	OGDEN RIVER	4	106	109
EAST CANYON	49.5	35.6	31.9	27.7	WEBER RIVER	8	118	122
ECHO	73.9	42.1	44.6	49.5	WEBER & OGDEN WATERSHEDS	12	113	117
LOST CREEK	22.5	15.3	15.0	13.4				
PINEVIEW	110.1	57.9	68.9	48.7				
ROCKPORT	60.9	39.0	32.5	30.2				
WILLARD BAY	215.0	180.1	129.6	116.4				

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

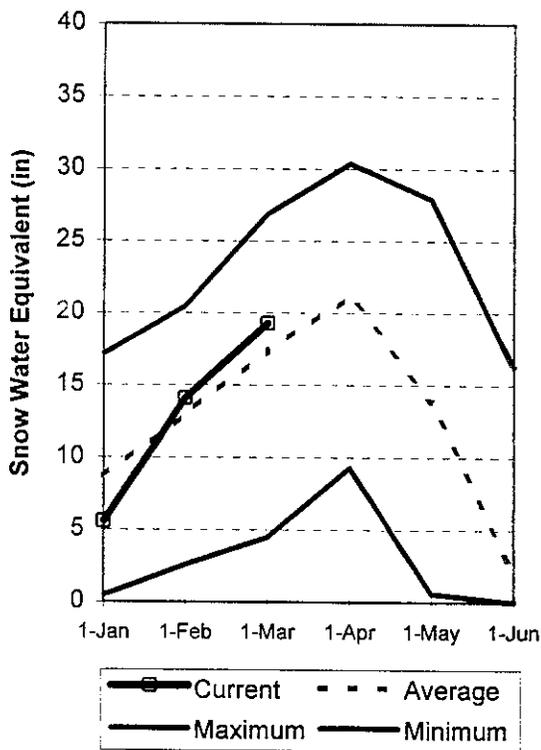
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(2) - The value is natural flow - actual flow may be affected by upstream water management.

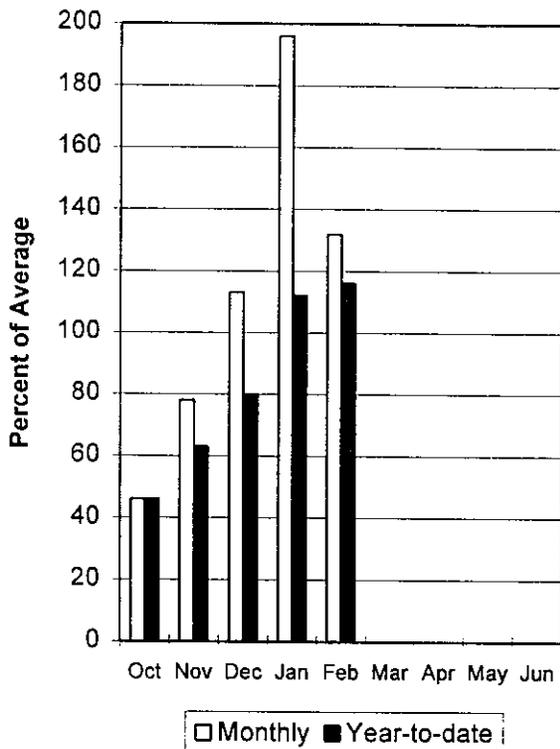
Utah Lake, Jordan River & Tooele Valley Basins Mar 1, 1996

Snowpacks over these watersheds are currently a little above average at 111% of normal. Individual sites range from 71% to 150% of average. Precipitation during February was much above average for the second straight month, at 132% of normal, bringing the seasonal accumulation (Oct-Feb) to 116% of average. Reservoir storage is in excellent condition. General water supply conditions are also in excellent shape with the prospects of above average streamflow this spring.

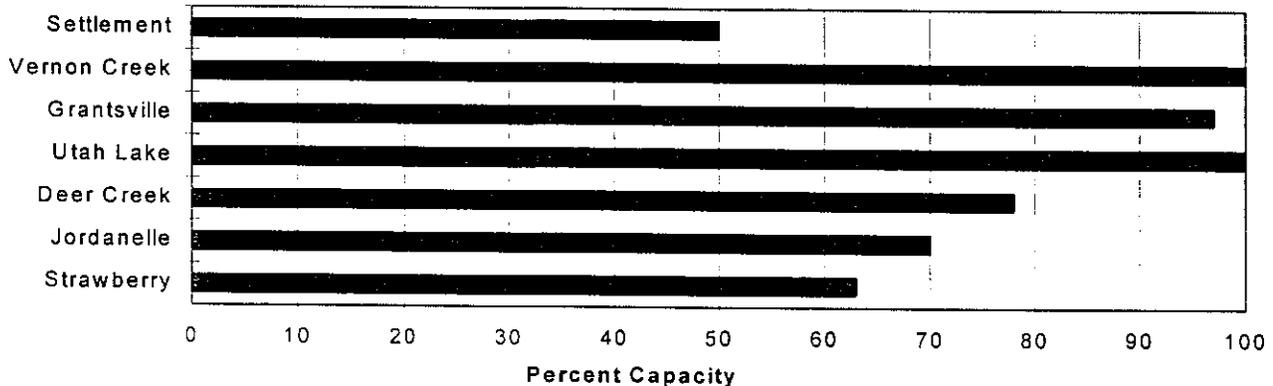
Mountain Snowpack



Precipitation



Reservoir Storage



UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

Streamflow Forecasts - March 1, 1996

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
PAYSON CK nr Payson	APR-JUL	0.48	2.69	3.80	86	4.91	7.08	4.40
SPANISH FORK nr Castilla	APR-JUL	11.8	52	75	101	99	138	74
HOBBLE CK nr Springville	APR-JUL	15.0	21	23	122	26	31	18.8
PROVO R nr Hailstone	APR-JUL	97	114	135	124	152	172	109
PROVO R below Deer Creek Dam	APR-JUL	97	125	155	121	182	212	128
AMERICAN FORK nr American Fk.	APR-JUL	27	32	35	109	38	43	32
UTAH LAKE inflow	APR-JUL	136	217	320	99	431	505	324
L COTTONWOOD CRK nr SLC	APR-JUL	38	45	49	126	53	59	39
BIG COTTONWOOD CRK nr SLC	APR-JUL	37	43	47	124	51	59	38
PARLEY'S CK nr SLC	APR-JUL	9.2	15.3	19.0	120	23	29	15.9
MILL CK nr SLC	APR-JUL	4.42	6.32	7.50	115	8.68	10.66	6.50
DELL FK nr SLC	APR-JUL	5.04	7.56	9.00	127	10.44	13.06	7.10
EMIGRATION CK nr SLC	APR-JUL	2.69	4.92	6.30	150	7.68	9.91	4.20
CITY CK nr SLC	APR-JUL	6.14	8.85	10.50	127	12.15	14.77	8.30
VERNON CK nr Vernon (in Acre Feet)	APR-JUL	604	863	1100	82	1403	2004	1340
SETTLEMENT CK nr Tooele (in Acre Fee	APR-JUL	647	1229	1900	83	2938	5584	2300
S WILLOW CK nr Grantsville	APR-JUL	0.26	1.59	2.50	81	3.41	4.74	3.10

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Reservoir Storage (1000 AF) - End of February

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Watershed Snowpack Analysis - March 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
DEER CREEK	149.7	117.4	98.2	95.5	PROVO RIVER & UTAH LAKE	7	127	114
GRANTSVILLE	3.3	3.2	2.2	---	PROVO RIVER	4	138	118
SETTLEMENT CREEK	1.0	0.5	0.6	0.7	JORDAN RIVER & GREAT SALT	5	113	119
STRAWBERRY-ENLARGED	1105.9	693.2	472.9	---	TOOELE VALLEY WATERSHEDS	4	80	90
UTAH LAKE	870.9	902.8	665.2	689.4	UTAH LAKE, JORDAN RIVER &	16	110	111
VERNON CREEK	0.6	0.6	0.6	0.5				

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

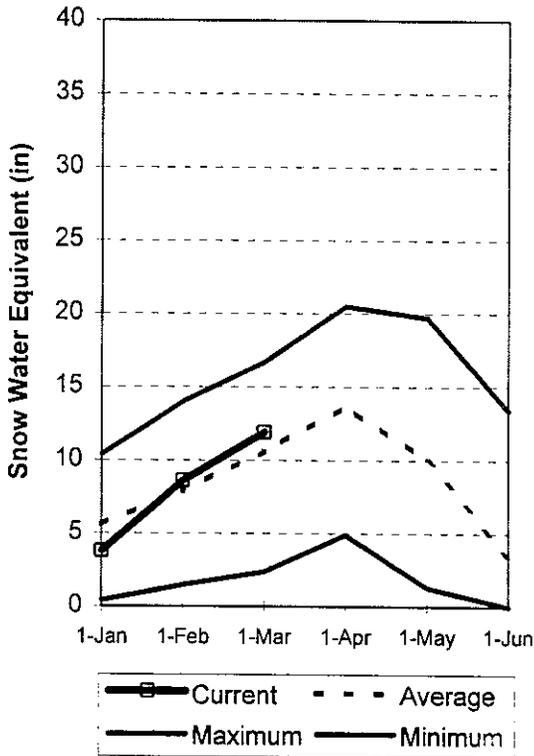
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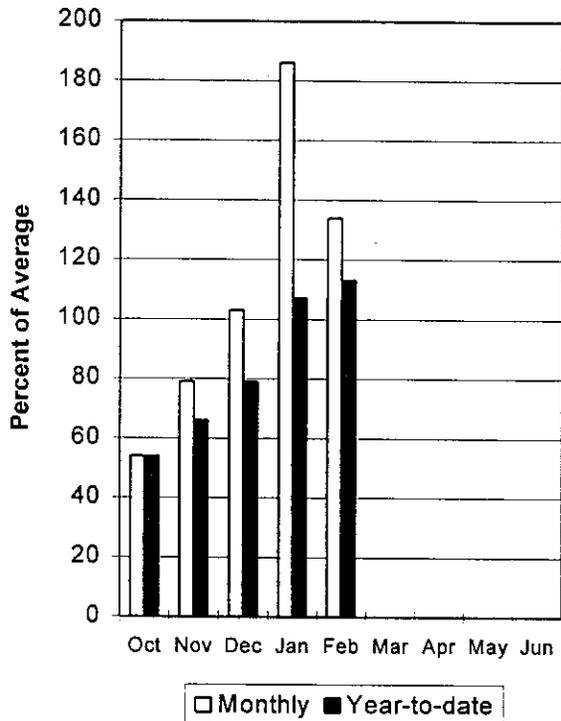
Uintah Basin and Dagget SCD's Mar 1, 1996

Snowpacks across the Uintah Basin and North Slope areas show a distinct west to east split, with the north and western area above to much above average and the eastern edge below normal. Basin averages range from 65% on Ashley Creek to 145% of normal on the Black's Fork. Precipitation during February was much above average at 134%, bringing the seasonal accumulation (Oct-Feb) to 113% of average. Reservoir storage is in excellent condition. General water supply conditions are excellent over the west portion of the basin and generally decrease towards the eastern end, where below normal streamflow can be expected.

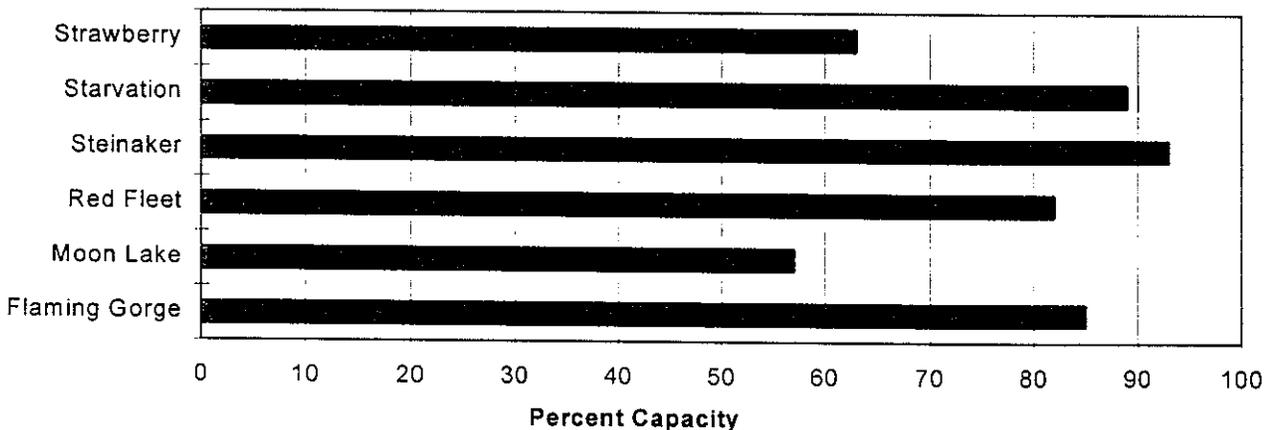
Mountain Snowpack



Precipitation



Reservoir Storage



UINTAH BASIN & DAGGET SCD'S
Streamflow Forecasts - March 1, 1996

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<===== Drier =====>>		===== Wetter =====>>				
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * 50% (Most Probable) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
MEEKS CABIN RESERVOIR Inflow	APR-JUL	107	118	125	130	132	143	96
STATE LINE RESERVOIR INFLOW	APR-JUL	31	36	40	133	44	50	30
HENRYS FORK nr Manila	APR-JUL	15.7	30	40	95	50	64	42
FLAMING GORGE RES INFLOW	APR-JUL	1100	1375	1500	125	1625	1902	1196
BIG BRUSH CK abv Red Fleet Resv	APR-JUL	5.8	10.1	13.0	66	15.9	20	19.8
ASHLEY CK nr Vernal	APR-JUL	17.3	28	35	69	42	53	51
WF DUCHESNE R nr Hanna	APR-JUL	21	27	30	115	34	39	26
DUCHESNE R nr Tabiona	APR-JUL	94	109	120	114	131	146	105
ROCK CK nr Mountain Home	APR-JUL	84	96	105	112	114	126	94
UPPER STILLWATER RESV inflow	APR-JUL	71	82	90	111	98	109	81
DUCHESNE R abv Knight Diversion	APR-JUL	161	196	220	116	244	279	189
STRAWBERRY RESV nr Soldier Springs	APR-JUL	51	62	70	119	78	89	59
CURRENT CREEK RESV Inflow	APR-JUL	17.9	22	25	119	28	32	21
STARVATION RESV Inflow	APR-JUL	90	120	140	120	160	190	117
MOON LAKE Inflow	APR-JUL	57	68	75	109	82	93	69
YELLOWSTONE R nr Altonah	APR-JUL	50	62	71	109	80	92	65
DUCHESNE R at Myton	APR-JUL	215	281	325	124	369	435	263
WHITEROCKS R nr Whiterocks	APR-JUL	14.6	30	40	69	50	65	58
UINTA R nr Neola	APR-JUL	23	45	60	71	75	97	85
DUCHESNE R nr Randlett	APR-JUL	120	263	360	110	457	600	328

UINTAH BASIN & DAGGET SCD'S
Reservoir Storage (1000 AF) - End of February

UINTAH BASIN & DAGGET SCD'S
Watershed Snowpack Analysis - March 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
FLAMING GORGE	3749.0	3194.4	2831.2	---	UPPER GREEN RIVER in UTAH	6	100	107
MOON LAKE	49.5	28.0	16.6	30.5	ASHLEY CREEK	2	51	65
RED FLEET	25.7	21.0	16.0	---	BLACK'S FORK RIVER	2	163	145
STEINAKER	33.4	31.0	13.5	21.1	SHEEP CREEK	1	76	74
STARVATION	165.3	147.9	135.4	112.1	DUCHESNE RIVER	11	106	114
STRAWBERRY-ENLARGED	1105.9	693.2	472.9	---	LAKE FORK-YELLOWSTONE CRE	4	117	122
					STRAWBERRY RIVER	4	124	117
					UINTAH-WHITEROCKS RIVERS	2	49	82
					UINTAH BASIN & DAGGET SCD	17	104	113

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

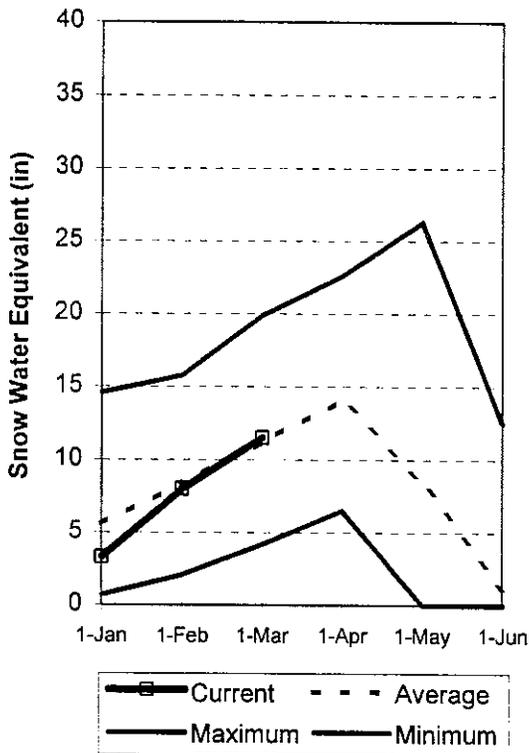
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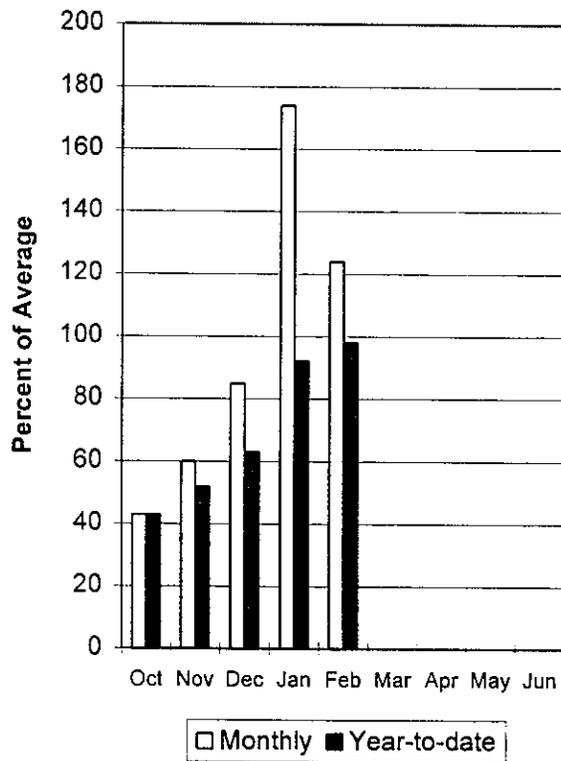
Carbon, Emery, Wayne, Grand and San Juan Co. Mar 1, 1996

Snowpacks in this region have increased again, from 95% last month to 103% of normal this month. There are however, large differences from watershed to watershed. Snowpacks over the Price, San Rafael and Muddy Basins are generally above average while those in the LaSal and Blue Mountain areas are below to much below normal. Precipitation during February was above average at 124%, bringing the seasonal accumulation (Oct-Feb) to 98% of normal. Reservoir storage is in excellent condition. General water supply conditions are average in the west and below to much below average in the southeast.

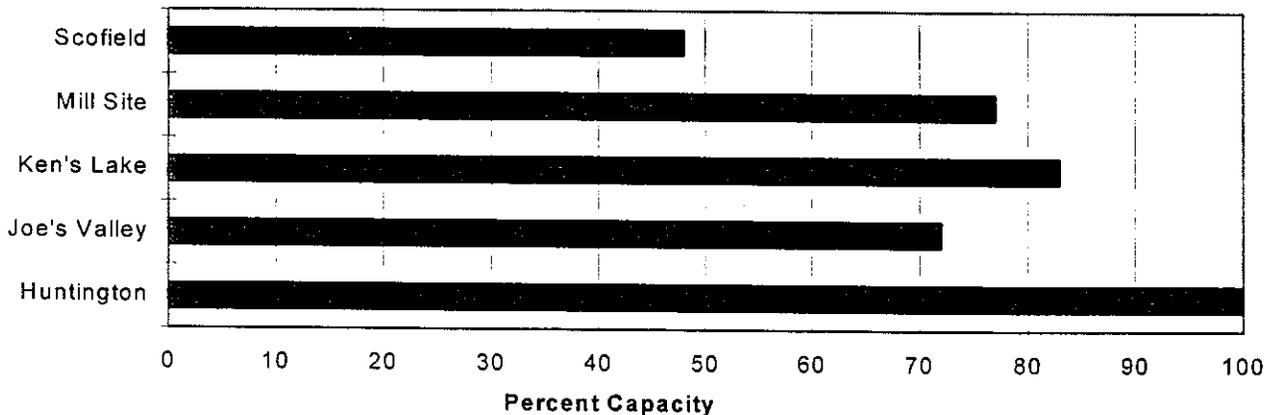
Mountain Snowpack



Precipitation



Reservoir Storage



CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.

Streamflow Forecasts - March 1, 1996

Forecast Point	Forecast Period	<<==== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
GOOSEBERRY CK nr Scofield	APR-JUL	8.4	11.4	13.0	111	14.6	17.5	11.7
SCOFIELD RESV Inflow	APR-JUL	15.0	46	50	114	54	85	44
WHITE R blw Tabbyune Ck	APR-JUL	11.0	16.3	20	107	24	29	18.7
GREEN R at Green River, UT	APR-JUL	3025	3805	4150	132	4495	5294	3151
ELECTRIC LAKE inflow	APR-JUL	12.9	14.4	15.5	103	16.6	18.3	15.1
HUNTINGTON CK nr Huntington	APR-JUL	21	38	43	105	48	65	41
JOE'S VALLEY RESV Inflow	APR-JUL	35	50	60	113	70	85	53
FERRON CK nr Ferron	APR-JUL	31	40	46	118	52	61	39
COLORADO R nr Cisco	APR-JUL	3430	4609	5100	123	5591	6776	4132
MILL CK at Sheley Tunnel	APR-JUL	2.83	3.83	4.70	78	5.77	7.80	6.00
INDIAN CK + INDIAN CK TUNNEL	MAR-JUL	0.10	0.20	0.30	9	2.21	8.22	3.34
SEVEN MILE CK nr Fish Lake	APR-JUL	2.66	4.14	6.20	95	8.26	11.28	6.50
MUDDY CK nr Emery	APR-JUL	8.5	16.5	22	112	28	36	19.6
LLOYD'S RESERVOIR inflow	MAR-JUL	0.00	0.06	0.20	7	2.29	5.37	2.90
RECAPTURE RESERVOIR inflow	MAR-JUL	0.00	0.06	0.40	6	2.19	4.81	6.40
SAN JUAN R nr Bluff	APR-JUL	92	372	560	49	748	1094	1152

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Reservoir Storage (1000 AF) - End of February

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Watershed Snowpack Analysis - March 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
HUNTINGTON NORTH	4.2	4.2	2.7	3.0	PRICE RIVER	3	120	118
JOE'S VALLEY	61.6	44.4	30.2	44.6	SAN RAFAEL RIVER	3	116	123
KEN'S LAKE	2.3	1.9	1.1	---	MUDDY CREEK	1	106	113
MILL SITE	16.7	12.9	8.2	4.0	FREMONT RIVER	3	63	76
SCOFIELD	65.8	31.6	14.8	32.2	LASAL MOUNTAINS	1	97	92
					BLUE MOUNTAINS	1	20	33
					WILLOW CREEK	1	55	77
					CARBON, EMERY, WAYNE, GRA	13	93	103

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

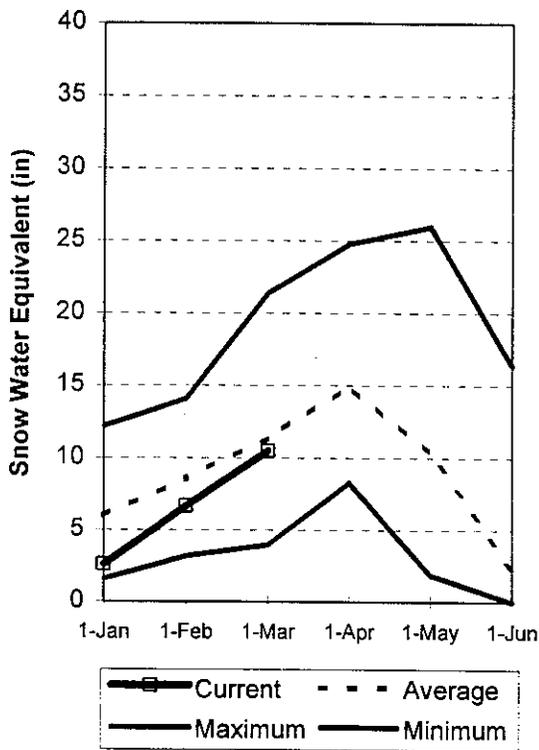
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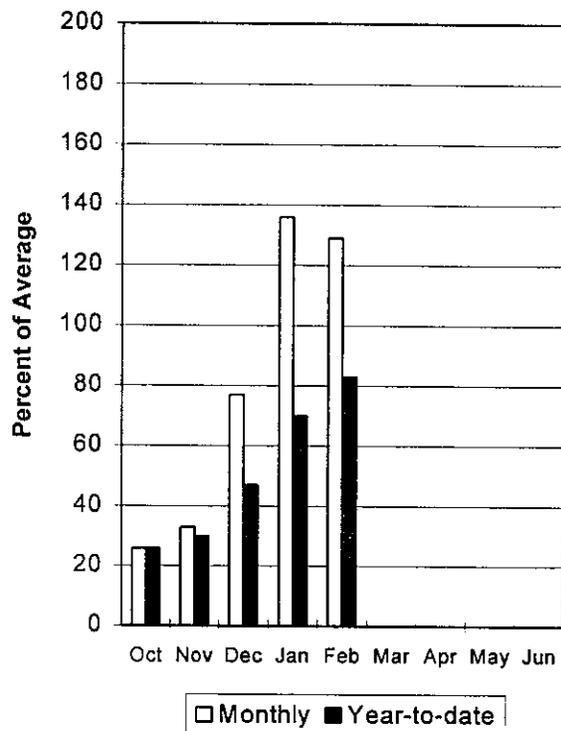
Sevier and Beaver River Basins Mar 1, 1996

Snowpacks on the Sevier River Basin have increased from 79% last month to 92% of normal this month. Individual sites range from 26% to 115% of average. Snowpacks are higher in the northern area of the basin and generally lower toward the south. Precipitation during February was 129% of normal, bringing the seasonal accumulation (Oct-Feb) to 83% of average. Reservoir storage is in excellent condition. General water supply conditions are below to near average, but have steadily improved since January.

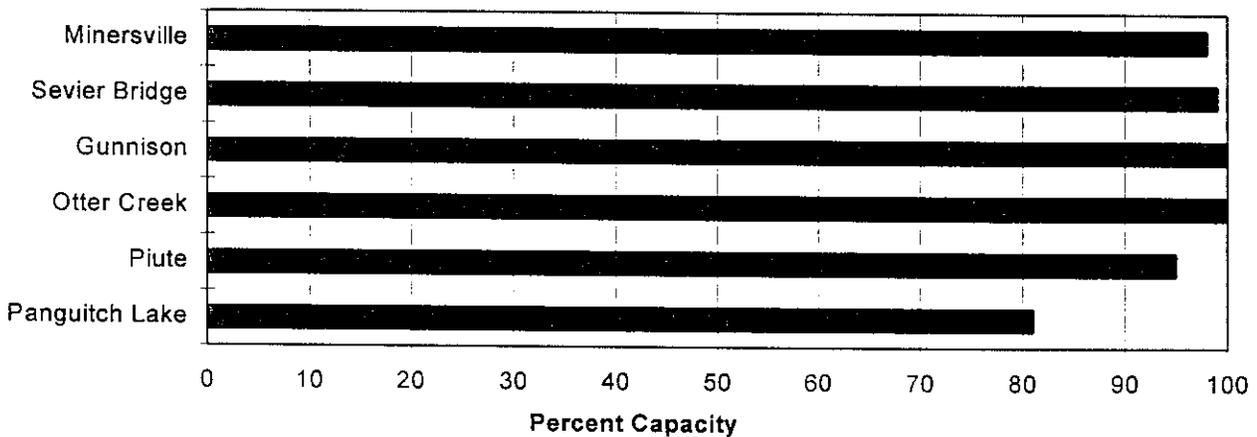
Mountain Snowpack



Precipitation



Reservoir Storage



SEVIER & BEAVER RIVER BASINS
Streamflow Forecasts - March 1, 1996

Forecast Point	Forecast Period	<<==== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)		
		90% (1000AF)		70% (1000AF)		50% (Most Probable) (1000AF) (% AVG.)			30% (1000AF) 10% (1000AF)	
		Chance Of Exceeding *								
SEVIER R at Hatch	APR-JUL	4.9	21	30	56	40	55	54		
SEVIER R nr Circleville	APR-JUL	6.0	27	40	53	54	74	75		
SEVIER R nr Kingston	APR-JUL	6.6	31	45	54	59	83	83		
ANTIMONY CK nr Antimony	APR-JUL	0.37	2.38	3.40	46	4.42	6.44	7.40		
E F SEVIER R nr Kingston	APR-JUL	4.8	8.4	15.0	50	24	40	30		
SEVIER R blw Piute Dam	APR-JUL	23	41	65	57	98	135	115		
CLEAR CK nr Sevier	APR-JUL	1.5	8.7	13.0	62	17.3	24	21		
SALINA CK at Salina	APR-JUL	0.5	3.2	10.0	57	16.7	34	17.6		
PLEASANT CK nr Pleasant	APR-JUL	4.93	6.62	7.50	88	8.38	10.11	8.50		
EPHRAIM CK nr Ephraim	APR-JUL	3.7	7.4	9.5	75	11.6	15.2	12.6		
SEVIER R nr Gunnison	APR-JUL	65	98	135	57	219	356	239		
CHICKEN CK nr Levan	APR-JUL	1.59	2.55	3.20	68	3.85	4.81	4.70		
OAK CK nr Oak City	APR-JUL	0.05	0.43	1.10	65	1.77	2.75	1.70		
BEAVER R nr Beaver	APR-JUL	2.7	12.7	19.5	75	26	36	26		
MINERSVILLE RESEROIR inflow	APR-JUL	1.3	7.7	12.0	72	16.3	23	16.7		

SEVIER & BEAVER RIVER BASINS
Reservoir Storage (1000 AF) - End of February

SEVIER & BEAVER RIVER BASINS
Watershed Snowpack Analysis - March 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
GUNNISON	20.3	20.3	8.7	14.0	UPPER SEVIER RIVER (south	7	53	81
MINERSVILLE (RkyFd)	23.3	22.8	10.1	12.9	EAST FORK SEVIER RIVER	2	62	88
OTTER CREEK	52.5	52.5	35.6	31.2	SOUTH FORK SEVIER RIVER	5	51	79
PIUTE	71.8	68.1	59.9	41.5	LOWER SEVIER RIVER (inclu	6	118	96
SEVIER BRIDGE	236.0	234.0	122.2	119.6	BEAVER RIVER	2	91	109
PANGUITCH LAKE	22.3	18.1	11.9	---	SEVIER & BEAVER RIVER BAS	15	80	92

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

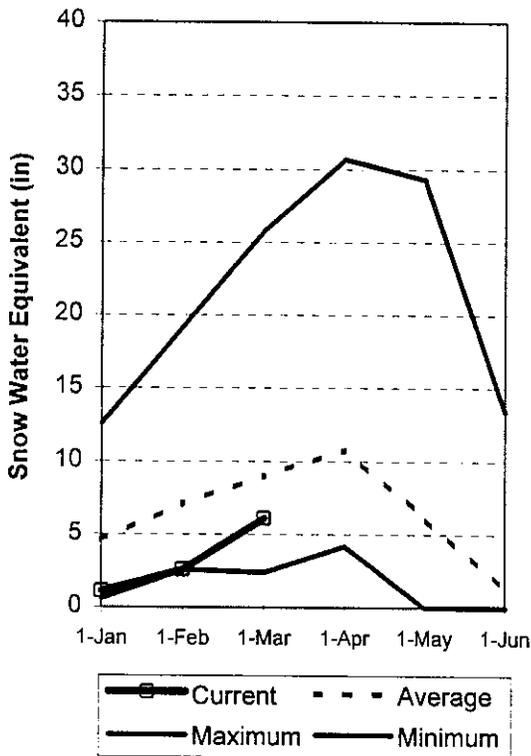
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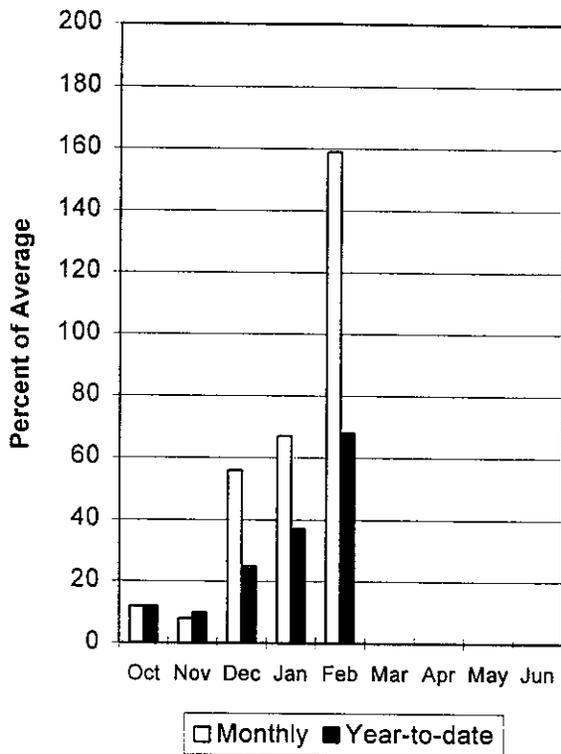
E. Garfield, Kane, Washington, & Iron co. Mar 1, 1996

Snowpacks in this region are almost double what they were last month, going from 37% to 67% of normal, much improved but still much below average. Individual sites range from 20% to 83% of normal. Precipitation during February was much above average at 159%, bringing the seasonal accumulation (Oct-Feb) to 68% of normal. Reservoir storage is in excellent condition. General water supply conditions are below to much below average.

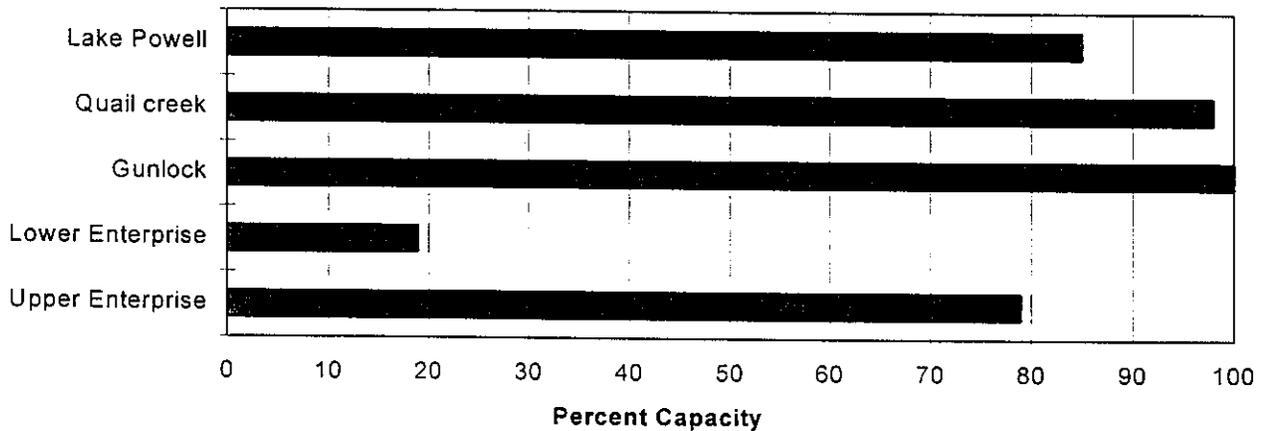
Mountain Snowpack



Precipitation



Reservoir Storage



E. GARFIELD, KANE, WASHINGTON, & IRON Co.
Streamflow Forecasts - March 1, 1996

Forecast Point	Forecast Period	<<==== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)				
		90% (1000AF)		70% (1000AF)		Chance Of Exceeding * 50% (Most Probable) (1000AF) (% AVG.)			30% (1000AF)		10% (1000AF)	
		COAL CK nr Cedar City	APR-JUL	0.4	7.4	11.5	61		15.6	23	18.8	
LAKE POWELL INFLOW	APR-JUL	6033		9100	118		12144	7735				
VIRGIN R nr Hurricane	APR-JUL	15.0		40	51		100	79				
SANTA CLARA R nr Pine Valley	APR-JUL	0.48		3.00	57		7.00	5.30				

E. GARFIELD, KANE, WASHINGTON, & IRON Co.
Reservoir Storage (1000 AF) - End of February

E. GARFIELD, KANE, WASHINGTON, & IRON Co.
Watershed Snowpack Analysis - March 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
GUNLOCK	10.4	10.4	10.4	---	VIRGIN RIVER	5	48	74
LAKE POWELL	24322.0	20692.0	16569.0	---	PAROWAN	2	51	80
QUAIL CREEK	40.0	39.0	34.1	---	ENTERPRISE TO NEW HARMONY	2	21	25
UPPER ENTERPRISE	10.0	7.9	10.0	0.8	COAL CREEK	2	55	79
LOWER ENTERPRISE	2.6	0.5	1.8	0.6	ESCALANTE RIVER	2	48	67
					E. GARFIELD, KANE, WASHIN	9	46	67

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

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- (2) - The value is natural flow - actual flow may be affected by upstream water management.

SNOW COURSE DATA
FOR THE STATE OF UTAH
As of MARCH 1, 1996

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90
AGUA CANYON SNOTEL	8900	3/01	-	5.2S	12.5	-	DRY BREAD POND SNOTEL	8350	3/01	-	17.9S	15.3	16.0
ALTA CENTRAL	8800	2/27	126	39.0	35.8	32.0	DRY FORK SNOTEL	7160	3/01	-	13.6S	13.7	-
ASHLEY TWIN LAKES	10500				17.4	13.4	EAST SHINGLE LAKE	9800				25.2	24.3
BEAVER DAMS SNOTEL	8000	3/01	-	10.0S	5.3	9.5	EAST WILLOW CREEK SN	8250	3/01	-	4.6S	8.4	6.0
BEAVER DIVIDE SNOTEL	8280	3/01	-	15.0S	9.0	10.0	FARMINGTON CANYON L.	6950	2/29	68	19.9	24.5	19.6
BEN LOMOND PK SNOTEL	8000	3/01	-	32.9S	33.8	33.0	FARMINGTON CN SNOTEL	8000	3/01	-	26.8S	29.7	23.6
BEN LOMOND TR SNOTEL	6000	3/01	-	16.8S	19.7	18.0	FARNSWORTH LK SNOTEL	9600	3/01	-	13.3S	12.7	15.5
BEVAN'S CABIN	6450	2/28	33	7.3	7.9	9.4	FISH LAKE	8700	2/27	20	5.3	6.1	7.1
BIG FLAT SNOTEL	10290	3/01	-	14.0S	15.4	14.1	FIVE POINTS LAKE SNO	10920	3/01	-	16.3S	14.1	13.6
BIRCH CROSSING	8100	2/28	17	3.8	7.5	6.3	FRANCES FLATS	6700	3/04	57	20.9	18.8	16.1
BLACK FLAT-U.M. CK S	9400	3/01	-	7.3S	6.4	7.9	G.B.R.C. HEADQUARTER	8700	2/27	47	12.4	13.7	13.8
BLACK'S FORK GS-EF	9340	2/28	42	11.1	6.8	7.6	G.B.R.C. MEADOWS	10000	2/27	70	21.1	17.7	19.2
BLACK'S FORK JUNCTN	8930	2/28	42	11.1	6.2	7.5	GARDEN CITY SUMMIT	7600	2/29	44	12.4	9.7	14.7
BOX CREEK SNOTEL	9800	3/01	-	11.3S	12.4	9.8	GEORGE CREEK	8840	2/26	66	18.4	15.7	17.4
BRIAN HEAD	10000	2/27	57	12.1	19.0	16.5	GOOSEBERRY R.S.	8400	2/27	32	8.2	6.7	9.9
BRIGHTON CABIN	8700	2/29	89	27.7	23.7	23.2	GOOSEBERRY R.S. SNOT	7900	3/01	24	6.3S	3.2	9.0
BRIGHTON SNOTEL	8750	3/01	76	23.2S	19.7	18.0	HARDSCRABBLE SNOTEL	7250	3/01	-	19.8S	15.0	17.1
BROWN DUCK SNOTEL	10600	3/01	-	16.7S	16.0	15.1	HARRIS FLAT SNOTEL	7700	3/01	-	2.9S	12.1	5.7
BRUCE CANYON	8000	2/29	7	1.1	7.0	4.3	HAYDEN FORK SNOTEL	9100	3/01	-	19.5S	11.1	13.7
BUCK FLAT SNOTEL	9800	3/01	-	20.4S	15.9	13.7	HENRY'S FORK	10000	2/28	43	10.8	9.2	11.2
BUCK PASTURE	9700	2/28	69	18.6	14.3	12.9	HEWINTA SNOTEL	9500	3/01	-	14.5S	6.7	8.5
BUCKBOARD FLAT	9000	3/01	17	4.2	11.5	10.6	HICKERSON PARK SNOTE	9100	3/01	-	3.7S	4.9	5.0
BUG LAKE SNOTEL	7950	3/01	-	20.7S	14.6	17.0	HIDDEN SPRINGS	5500	3/04	22	8.1	3.4	6.4
BURT'S-MILLER RANCH	7900	2/28	21	5.6	3.8	4.6	HOBBLE CREEK SUMMIT	7420	2/28	60	16.8	10.5	12.7
CAMP JACKSON SNOTEL	8600	3/01	-	3.4S	17.1	10.4	HOLE-IN-ROCK SNOTEL	9150	3/01	-	5.9S	5.6	4.5
CASTLE VALLEY SNOTEL	9580	3/01	-	8.4S	16.7	10.1	HORSE RIDGE SNOTEL	8260	3/01	-	25.2S	17.5	19.9
CHALK CK #1 SNOTEL	9100	3/01	-	24.6S	18.8	18.6	HUNTINGTON-HORSESHOE	9800	2/28	56	18.8	21.5	19.9
CHALK CK #2 SNOTEL	8200	3/01	-	11.9S	1	12.3	INDIAN CANYON SNOTEL	9100	3/01	-	9.1S	9.7	8.9
CHALK CREEK #3	7500	2/28	28	7.0	4.4	6.6	JOHNSON VALLEY	8850	2/27	22	6.0	6.3	6.1
CHEPETA SNOTEL	10300	3/01	-	9.5S	14.5	10.8	KILFOIL CREEK	7300	2/29	55	15.1	10.8	12.1
CITY CREEK	7500	3/04	83	29.0	24.1	23.5	KILLYON CANYON	6300	2/29	37	12.3	7.2	-
CLEAR CK RIDG #1 SNT	9200	3/01	-	19.1S	15.5	15.8	KIMBERLY MINE SNOTEL	9300	3/01	-	11.7S	14.9	11.6
CLEAR CK RIDG #2 SNT	8000	3/01	-	13.2S	13.5	11.3	KING'S CABIN SNOTEL	8730	3/01	-	6.1S	11.9	9.3
CLEAR CREEK RIDGE #3	6600	3/01	-	6.8	7.4	7.4	KLONDIKE NARROWS	7400	2/29	65	21.8	13.8	17.0
COLD WATER SPRINGS	6030						KOLOB SNOTEL	9250	3/01	-	13.7S	26.4	16.7
CORRAL	8200						LAKEFORK #1 SNOTEL	10100	3/01	-	12.2S	13.5	9.5
CURRENT CREEK SNOTEL	8000	3/01	-	11.3S	10.7	9.2	LAKEFORK BASIN SNOTE	10900	3/01	-	23.3S	14.8	18.0
DANIELS-STRAWBERRY S	8000	3/01	-	19.7S	12.2	15.5	LAKEFORK MOUNTAIN #3	8400	2/28	30	6.2	5.9	5.8
DESERET PEAK	9250	2/27	57	14.7	16.5	14.5	LAMBS CANYON	7400	2/28	67	18.4	15.2	14.3
DESERET PEAK AM	9250	2/27	54	14.0	12.4	13.3	LASAL MOUNTAIN LOWER	8800	2/29	27	6.3	8.0	7.6
DESERET PEAK SNOTEL	9250	3/01	-	14.6S	16.7	16.4	LASAL MOUNTAIN SNOTE	9850	3/01	43	10.0S	10.3	10.9
DILL'S CAMP SNOTEL	9200	3/01	-	13.4S	12.6	11.9	LILLY LAKE SNOTEL	9050	3/01	-	15.0S	10.8	10.6
DONKEY RESERVOIR SNO	9800	3/01	30	5.4S	7.5	6.7	LITTLE BEAR LOWER	6000	2/29	33	9.7	9.1	9.4

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST AVERAGE YEAR	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST AVERAGE YEAR
LITTLE BEAR SNOTEL	6550	3/01	-	9.7S	8.8	THISTLE FLAT	8500		-	18.8S	19.5
LITTLE GRASSY SNOTEL	6100	3/01	-	0.9S	0.0	TIMBERLINE	9100		-	38.3S	25.2
LONG FLAT SNOTEL	8000	3/01	-	1.4S	11.2	TIMPANOGOS DIVIDE SN	8140	3/01	-	13.8	10.0
LONG VALLEY JCT. SNT	7500	3/01	-	2.0S	6.3	TONY GROVE LK SNOTEL	8400	3/01	-	25.1	19.6
LOOKOUT PEAK SNOTEL	8200	3/01	95	27.7S	24.9	TONY GROVE R.S.	6250	2/29	43	26.0S	16.9
LOST CREEK RESERVOIR	6130	2/29	28	8.5	3.8	TRIAL LAKE	9960	2/28	86	5.2S	10.4
MAMMOTH-COTTONWD SNT	8800	3/01	-	18.8S	16.7	TRIAL LAKE SNOTEL	9960	3/01	-	10.7	8.7
MERCHANT VALLEY SNOT	8750	3/01	40	11.4S	12.6	TROUT CREEK SNOTEL	9400	3/01	-	6.5S	12.0
MIDDLE CANYON	7000	2/28	39	10.5	9.5	UPPER JOES VALLEY	8900	2/28	38	13.4	12.2
MIDWAY VALLEY SNOTEL	9800	3/01	-	14.1S	27.1	VERNON CREEK SNOTEL	7500	3/01	-	9.7S	15.9
MILL CREEK	6950	2/28	65	19.2	19.9	VIPONT	7670	2/25	46	14.2S	11.3
MILL-D NORTH SNOTEL	8960	3/01	-	24.9S	20.8	WEBSTER FLAT SNOTEL	9200	3/01	-	10.3	6.3
MILL-D SOUTH FORK	7400	2/27	78	22.1	15.5	WHITE RIVER #1 SNOTE	8550	3/01	-	4.8S	13.7
MINING FORK SNOTEL	8000	3/01	75	17.8S	16.7	WHITE RIVER #3	7400	2/28	33	10.2	8.0
MONTE CRISTO SNOTEL	8960	3/01	-	31.4S	24.8	WIDTSONE #3 SNOTEL	9500	3/01	-	5.7	9.7
MOOSBY MTN. SNOTEL	9500	3/01	-	5.8S	16.6	MRIGLEY CREEK	9000	2/27	39		
MT. BALDY R.S.	9500	2/27	73	20.3	16.1	YANKEE RESERVOIR	8700	2/27	28		
MUD CREEK #2	8600	2/28	58	15.6	11.0	NOTE:					
OAK CREEK	7760	2/27	30	6.4	10.6	The S flag following Water Content for SNOTEL sites indicates telemetered data. The Depth reading preceding S flagged data was measured around the snow pillows at the time of the ground survey and may not be the same date as the telemetered value.					
PANQUITCH LAKE	8200	2/27	10	1.2	8.7						
PARLEY'S CANYON SNOT	7500	3/01	-	16.8S	13.3						
PARLEY'S CANYON SUM.	7500	2/28	74	20.9	17.0						
PAYSON R.S. SNOTEL	8050	3/01	-	14.5S	12.7						
PICKLE KEG SNOTEL	9600	3/01	-	13.6S	10.6						
PINE CREEK SNOTEL	8800	3/01	-	14.6S	16.2						
RED PINE RIDGE SNOTE	9200	3/01	-	15.7S	12.4						
REDDEN MINE LOWER	8500	2/28	59	17.0	16.7						
REES'S FLAT	7300	2/27	31	7.9	10.7						
ROCK CREEK SNOTEL	7900	3/01	-	9.0S	6.5						
ROCKY BN-SETTLEMT SN	8900	3/01	-	15.2S	22.4						
SEELEY CREEK SNOTEL	10000	3/01	-	12.8S	13.7						
SILVER LAKE (BRIGHT.)	8730	2/29	79	25.4	23.6						
SMITH MOREHOUSE SNTL	7600	3/01	-	16.0S	12.5						
SNOWBIRD SNOTEL	9700	3/01	134	35.7S	34.6						
SPIRIT LAKE	10300	2/28	40	8.2	12.1						
SQUAW SPRINGS	9300	2/27	30	6.7	6.2						
STEEL CREEK PARK SNO	10100	3/01	-	16.0S	12.0						
STILLWATER CAMP	8550	2/28	47	12.8	7.8						
STRAWBERRY DIVIDE SN	8400	3/01	-	18.6S	14.7						
STUART R.S.	7950				7.5						
SUSC RANCH	8200	2/28	24	5.0	9.7						
TALL POLES	8800	2/28	37	9.7	14.7						
THAYNES CANYON SNOTL	9200	3/01	-	24.1S	22.3						

Issued by

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Utah
Basin Outlook Report
Natural Resources Conservation Service
Salt Lake City, UT





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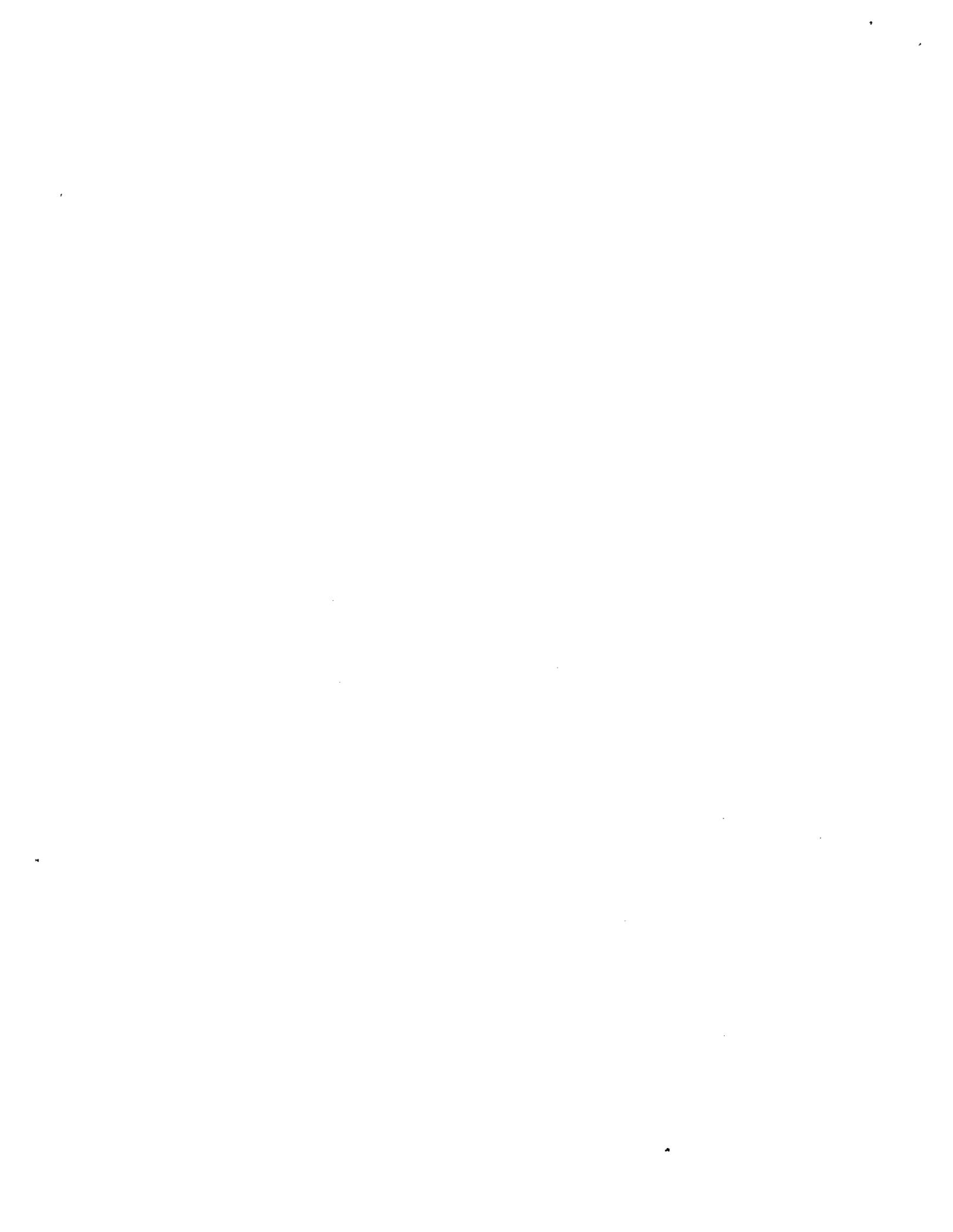


Utah

Basin Outlook Report

April 1, 1996





Basin Outlook Reports and Federal - State - Private Cooperative Snow Surveys

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How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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STATE OF UTAH GENERAL OUTLOOK

Apr 1, 1996

SUMMARY

General water supply conditions remain essentially the same as last month with relatively minor status changes on individual watersheds and basins. Snowpacks in the northern areas of Utah remain near to above average and in the southern regions they are below to much below average. Overall, the general outlook for snowmelt runoff is excellent. Snowpacks are high enough to produce above average streamflow and still low enough to have only minimal flood potential at this time. The Bear, Weber, Provo, western Uintah, Price River, San Rafael and Muddy Creek watersheds all have above average snowpacks with prospects of above normal streamflow. There are some areas that will experience a much below normal runoff season this year. These areas include the Virgin, Escalante, Abajo Mountain watersheds of southeast Utah and the eastern end of the Uintah's. In these areas, only high elevation snowpacks remain and these are much below normal. Some areas of southeastern Utah could have streamflow as low as 5% of average. Precipitation during March was 94% of average, bringing the seasonal accumulation (Oct-Mar) to 104% of normal. The Provo and Duchesne watersheds received above average precipitation while the north was near average and the south had much below to near average amounts. General water supply conditions remain near to above average in the north and much below normal in the south and southeast. Reservoir storage is in excellent shape statewide, even in those areas where runoff is expected to be below normal. Many reservoirs are currently spilling to make room for snowmelt streamflow.

SNOWPACK

Snowpacks in Utah, as measured by the NRCS SNOTEL system, are at 104% of normal, very similar to last months figures. In general, snowpacks in the north are much higher than in the south. April first is the typical peak for snowpack accumulation and begins the normal snowmelt season. Many different climatic factors influence snowmelt which determine the streamflow characteristics such as peak flow magnitude, timing and duration. This years snowpack has the potential for producing above average streamflow with relatively minimal potential for high peak flows.

PRECIPITATION

Mountain precipitation in March, as measured by the NRCS SNOTEL system was near average statewide at 94% of normal, bringing the seasonal accumulation (Oct-Mar) to 104% of average. Northern Utah, including the Uintah Basin (117%) received the most precipitation (85%-120%) with the south receiving only 40% to 70% of normal. National Weather Service precipitation figures indicate a similar pattern of greater amounts in the north and lesser amounts in the south with the exception of the Uintah Basin which received much below normal precipitation at the lower elevations.

Some individual amounts in northern Utah include: Randolph - 156%, Alta - 101% and Provo - 110%. Some lower amounts include: Roosevelt - 63%, Green River - 54%, Blanding - 32%, Monticello - 18% and Cedar City - 52%.

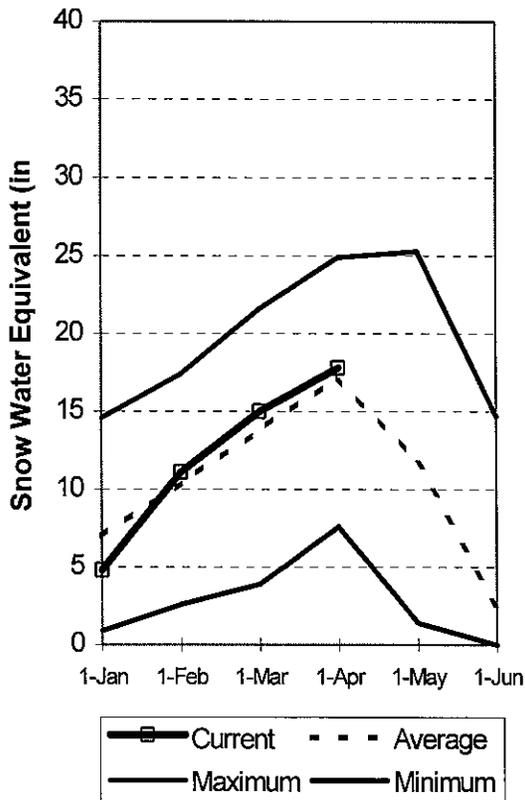
RESERVOIRS

Storage in 40 of Utah’s key irrigation reservoirs is at 71% of capacity. Most reservoirs are in excellent shape for spring runoff.

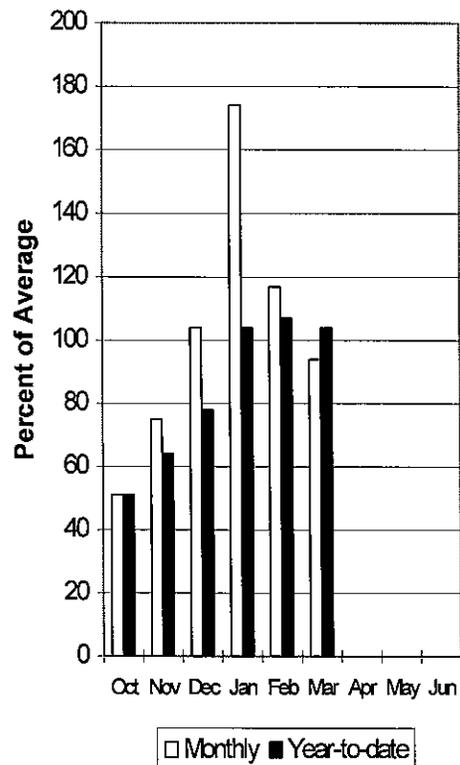
STREAMFLOW

Streamflow forecasts for snowmelt runoff range from near average to much above average in northern Utah and much below to near average in the southern areas of the state. With the potential for extremely low streamflow, areas of southern and southeastern Utah will rely on reservoir storage this year.

Mountain Snowpack



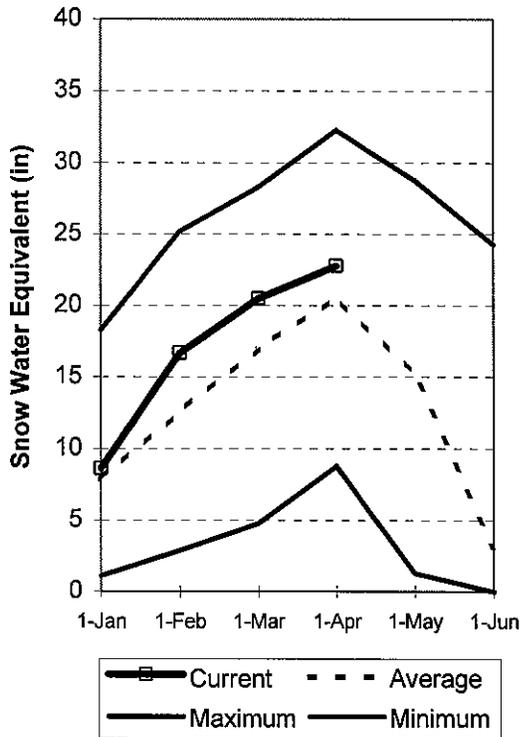
Precipitation



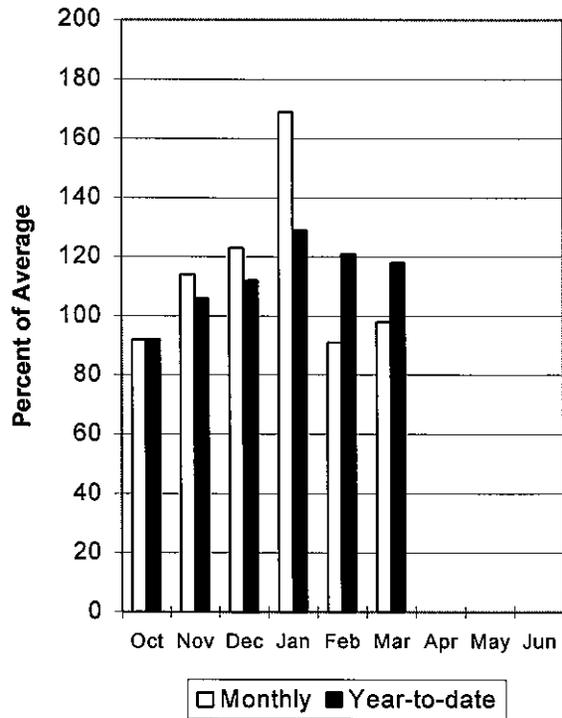
Bear River Basin Apr 1, 1996

Snowpack on the Bear River Basin is above average at 111% of normal, ranging from 50% to 137% of average at specific sites. The Upper Bear Watershed has a much larger snowpack (121%) than the Lower Watershed in Idaho and Wyoming (104%). March precipitation across the Bear Watershed was near normal at 98%, which brings the seasonal accumulation (Oct-Mar) to 118% of average. Water supply conditions are excellent and above average runoff is expected. Reservoir storage in the Bear River drainage is near capacity with the exception of Bear Lake which is 46% full.

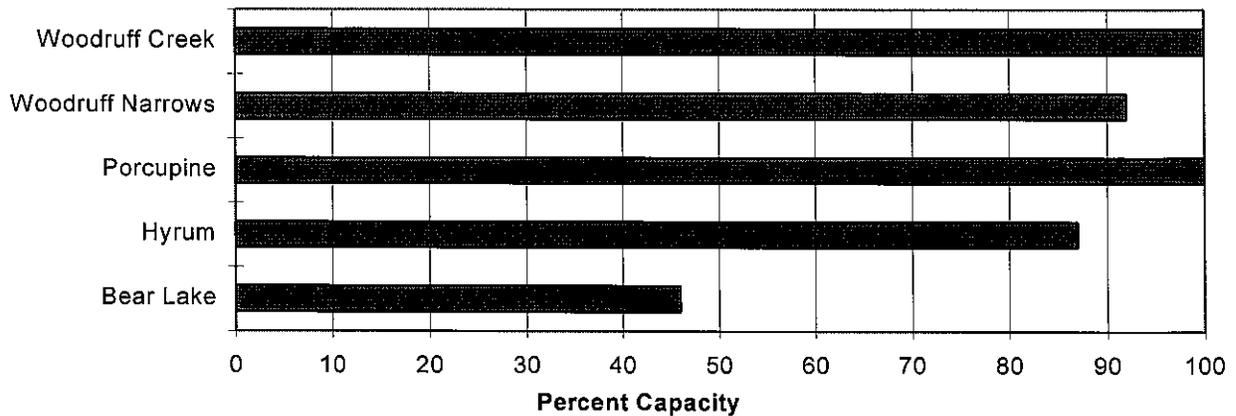
Mountain Snowpack



Precipitation



Reservoir Storage



BEAR RIVER BASIN
Streamflow Forecasts - April 1, 1996

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
BEAR R nr UT-WY State Line	APR-JUL	116	135	150	130	166	193	115
BEAR R nr Woodruff (2)	APR-JUL	95	154	195	131	236	295	149
BIG CK nr Randolph	APR-JUL	1.48	3.64	5.10	134	6.56	8.72	3.80
BEAR R nr Randolph, UT	APR-JUL	90	129	155	131	181	220	118
SMITHS FORK nr Border, WY	APR-JUL	102	116	125	123	134	148	102
THOMAS FK nr WY-ID State Line	APR-JUL	20	27	33	100	40	53	33
BEAR R blw Stewart Dam nr Montpelier	APR-JUL	248	303	340	118	377	432	288
MONTPELIER CK nr Montpelier (2)	APR-JUL	8.3	10.5	12.2	100	14.2	17.8	12.2
CUB R nr Preston	APR-JUL	42	47	51	109	55	60	47
LOGAN R nr Logan	APR-JUL	111	124	134	125	144	161	107
BLACKSMITH Fk nr Hyrum	APR-JUL	52	58	62	115	67	74	54

BEAR RIVER BASIN Reservoir Storage (1000 AF) - End of March					BEAR RIVER BASIN Watershed Snowpack Analysis - April 1, 1996			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
BEAR LAKE	1421.0	658.5	385.3	1002.1	BEAR RIVER, UPPER (abv Ha	6	122	126
HYRUM	15.3	15.3	13.4	12.2	BEAR RIVER, LOWER (blw Ha	7	125	107
PORCUPINE	11.3	11.3	11.3	5.0	LOGAN RIVER	4	128	112
WOODRUFF NARROWS	57.3	53.0	28.5	---	RAFT RIVER	2	110	107
WOODRUFF CREEK	4.0	4.0	4.0	---	BEAR RIVER BASIN	13	123	115

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

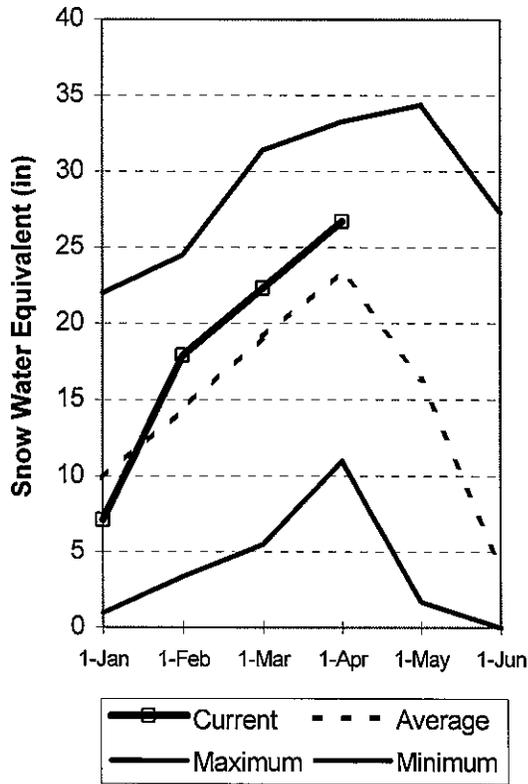
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

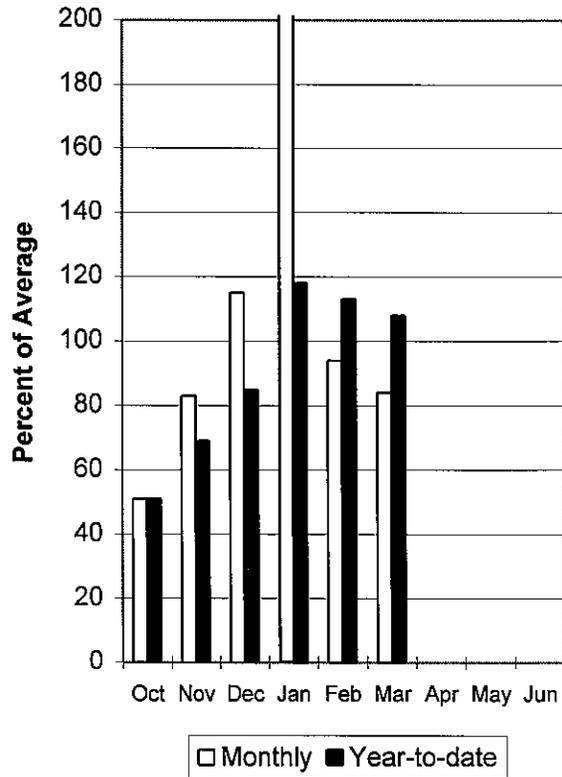
Weber and Ogden River Basins Apr 1, 1996

Snowpack on the Weber and Ogden Watersheds is at 114% of average. Individual sites ranges from 92% to 289 % of average. Lower elevation snowpacks on the Weber Mainstem are much above average and should provide above normal early streamflow. Precipitation during March was slightly below average at 84%, bringing the seasonal accumulation (Oct-Mar) to 108% of normal. Reservoir storage on the Weber system is in excellent condition. General water supply conditions are also excellent with the prospect of having above average runoff this spring.

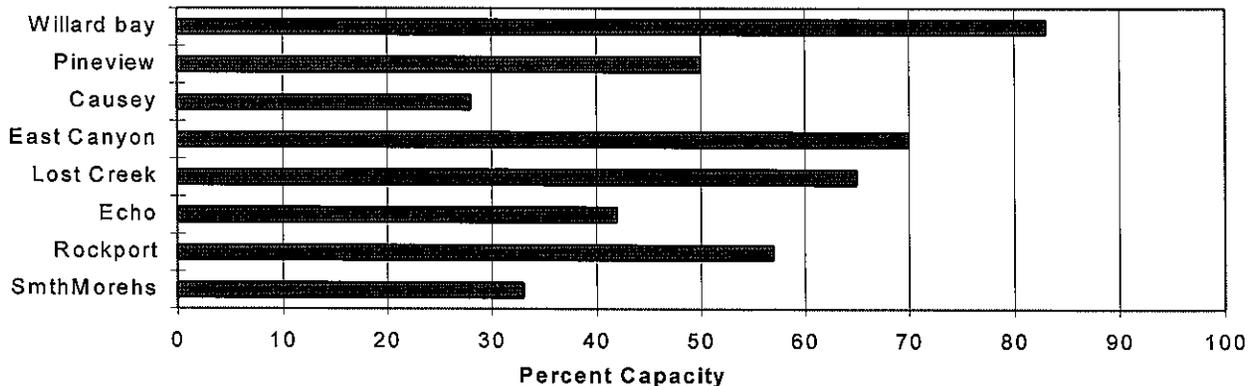
Mountain Snowpack



Precipitation



Reservoir Storage



WEBER & OGDEN WATERSHEDS in Utah
Streamflow Forecasts - April 1, 1996

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
SMITH AND MOREHOUSE CK nr Oakley	APR-JUN	28	32	35	117	38	42	30
WEBER R nr Oakley	APR-JUL	122	137	148	121	159	174	122
ROCKPORT RESEROIR inflow	APR-JUL	133	152	165	123	178	197	134
CHALK CK at Coalville, Ut	APR-JUL	36	47	55	125	63	74	44
WEBER R nr Coalville, Ut	APR-JUL	134	155	170	125	185	206	136
ECHO RESEROIR Inflow	APR-JUL	145	184	210	119	236	275	176
LOST CK Res Inflow	APR-JUL	13.2	17.9	21	122	24	29	17.2
E CANYON CK nr Morgan	APR-JUL	30	35	39	130	43	48	30
WEBER R at Gateway	APR-JUL	376	417	445	128	473	514	347
S FORK OGDEN R nr Huntsville	APR-JUL	63	70	75	119	80	87	63
PINEVIEW RESEROIR Inflow	APR-JUL	110	131	145	117	159	180	124
WHEELER CK nr Huntsville	APR-JUL	5.97	6.88	7.50	121	8.12	9.03	6.20

WEBER & OGDEN WATERSHEDS in Utah
Reservoir Storage (1000 AF) - End of March

WEBER & OGDEN WATERSHEDS in Utah
Watershed Snowpack Analysis - April 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
CAUSEY	7.1	2.0	3.4	2.6	OGDEN RIVER	4	100	103
EAST CANYON	49.5	34.7	39.7	36.6	WEBER RIVER	8	113	121
ECHO	73.9	30.8	51.1	49.5	WEBER & OGDEN WATERSHEDS	12	108	114
LOST CREEK	22.5	14.6	17.0	13.3				
PINEVIEW	110.1	54.8	81.1	55.6				
ROCKPORT	60.9	34.7	42.5	30.9				
WILLARD BAY	215.0	178.6	156.8	125.3				

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

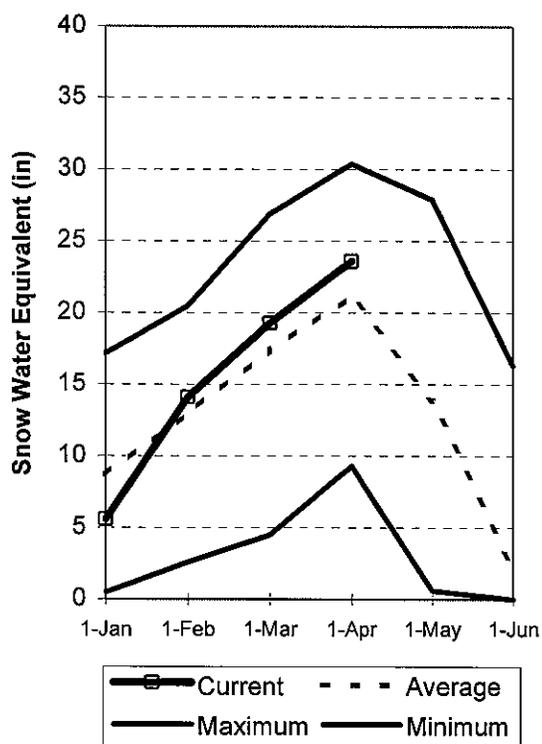
(2) - The value is natural flow - actual flow may be affected by upstream water management.

Utah Lake, Jordan River & Tooele Valley Basins

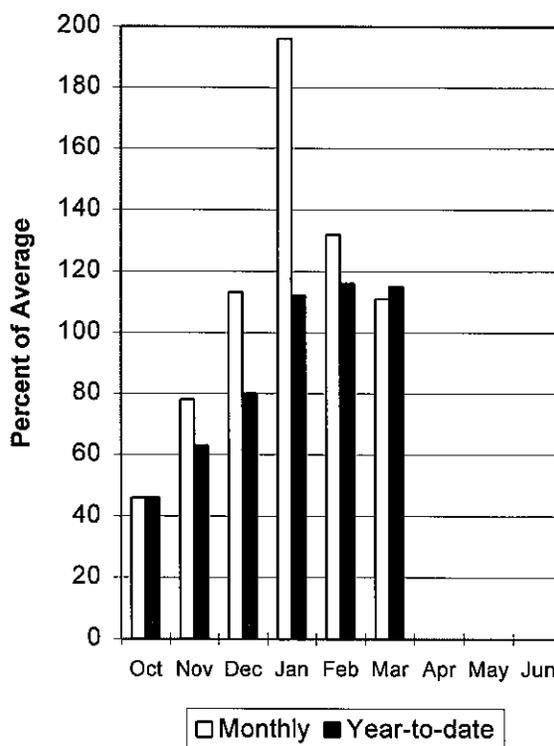
Apr 1, 1996

Snowpacks over these watersheds are currently a little above average at 111% of normal. Individual sites range from 77% to 146% of average. Precipitation during March was slightly above average at 111% of normal, bringing the seasonal accumulation (Oct-Mar) to 115% of average. Reservoir storage is in excellent condition. Jordanelle Reservoir remains under a 1/2 foot per day fill criteria and all other reservoirs are expected to easily fill. General water supply conditions are also in excellent shape with the prospects of above average streamflow this spring.

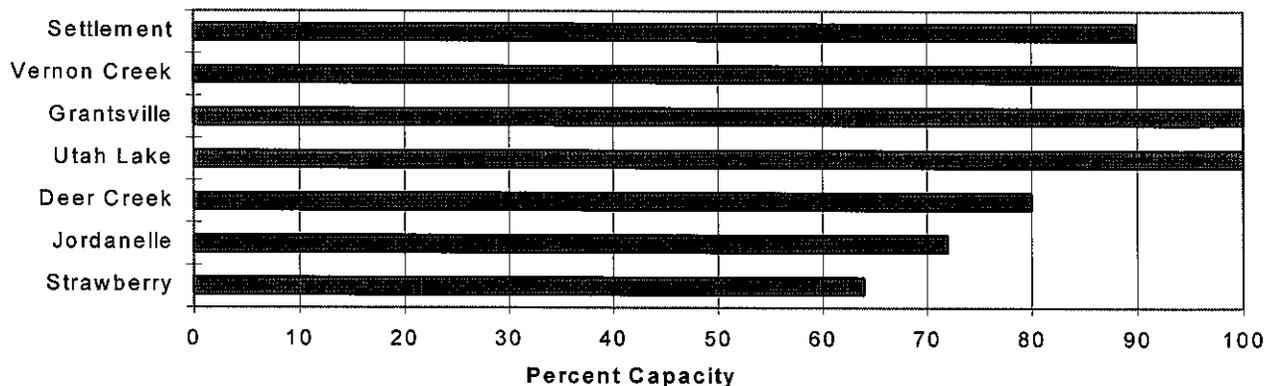
Mountain Snowpack



Precipitation



Reservoir Storage



UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Streamflow Forecasts - April 1, 1996

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		=====		Chance Of Exceeding *		=====		
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
PAYSON CK nr Payson	APR-JUL	0.88	2.87	3.90	89	4.93	6.91	4.40
SPANISH FORK nr Castilla	APR-JUL	23	57	77	104	97	130	74
HOBBLE CK nr Springville	APR-JUL	19.9	23	25	133	27	30	18.8
PROVO R nr Hailstone	APR-JUL	102	113	140	128	155	177	109
PROVO R below Deer Creek Dam	APR-JUL	108	140	160	125	180	211	128
AMERICAN FORK nr American Fk.	APR-JUL	29	33	36	113	39	43	32
UTAH LAKE inflow	APR-JUL	175	243	325	100	405	476	324
L COTTONWOOD CRK nr SLC	APR-JUL	42	47	50	128	53	57	39
BIG COTTONWOOD CRK nr SLC	APR-JUL	40	45	48	126	51	57	38
PARLEY'S CK nr SLC	APR-JUL	10.8	16.0	19.1	120	22	27	15.9
MILL CK nr SLC	APR-JUL	4.74	6.43	7.50	115	8.57	10.40	6.50
DELL FK nr SLC	APR-JUL	5.11	7.74	9.20	130	10.66	13.35	7.10
EMIGRATION CK nr SLC	APR-JUL	3.32	5.30	6.50	155	7.70	9.70	4.20
CITY CK nr SLC	APR-JUL	7.30	9.62	11.00	133	12.38	14.69	8.30
VERNON CK nr Vernon (in Acre Feet)	APR-JUL	595	811	1000	75	1234	1680	1340
SETTLEMENT CK nr Tooele (in Acre Ft)	APR-JUL	661	1160	1700	74	2491	4374	2300
S WILLOW CK nr Grantsville	APR-JUL	0.30	1.49	2.30	74	3.11	4.30	3.10

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Reservoir Storage (1000 AF) - End of March

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Watershed Snowpack Analysis - April 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
DEER CREEK	149.7	119.7	97.5	97.9	PROVO RIVER & UTAH LAKE	7	119	112
GRANTSVILLE	3.3	3.3	3.2	---	PROVO RIVER	4	122	118
SETTLEMENT CREEK	1.0	0.9	0.7	0.6	JORDAN RIVER & GREAT SALT	5	102	122
STRAWBERRY-ENLARGED	1105.9	706.1	485.8	---	TOOELE VALLEY WATERSHEDS	4	76	91
UTAH LAKE	870.9	914.2	708.8	722.9	UTAH LAKE, JORDAN RIVER &	16	102	111
VERNON CREEK	0.6	0.6	0.6	0.5				

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

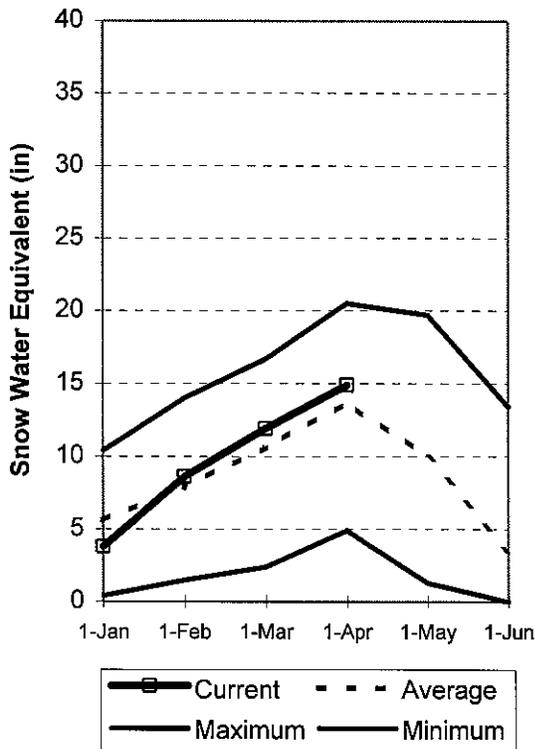
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- (2) - The value is natural flow - actual flow may be affected by upstream water management.

Uintah Basin and Dagget SCD's

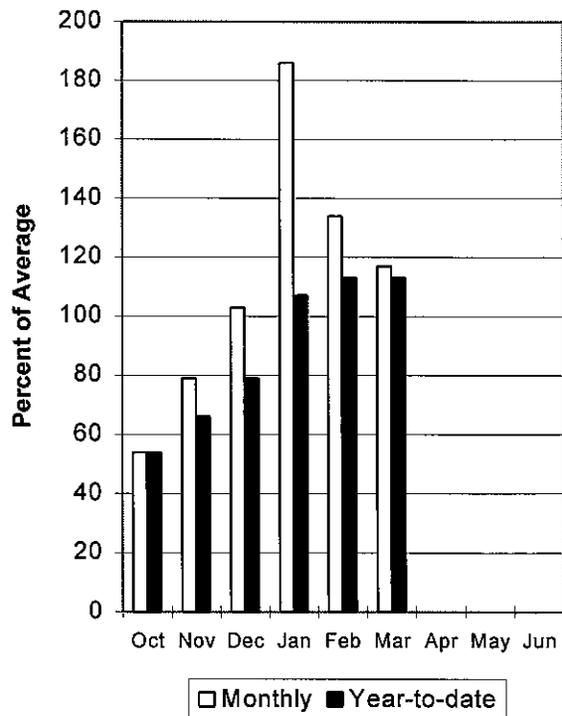
Apr 1, 1996

Snowpacks across the Uintah Basin and North Slope areas remain divided with a west to east split. The north and western area is above to much above average and the eastern edge below normal. Basin averages range from 69% on Ashley Creek to 133% of normal on the Black's Fork. Precipitation during March was above average at 117%, bringing the seasonal accumulation (Oct-Mar) to 113% of average. Reservoir storage is in excellent condition. General water supply conditions are excellent over the west portion of the basin and generally decrease towards the eastern end, where below normal streamflow can be expected.

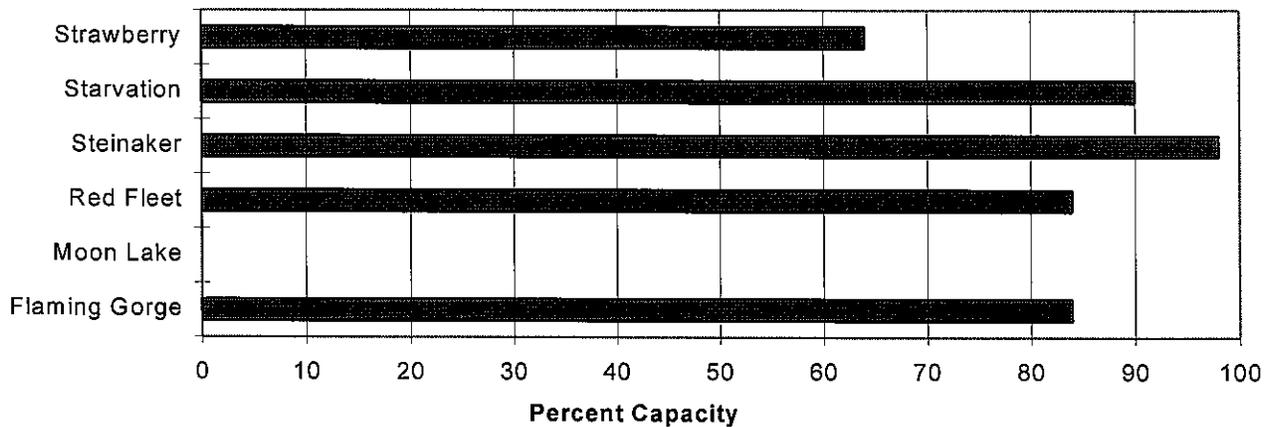
Mountain Snowpack



Precipitation



Reservoir Storage



UINTAH BASIN & DAGGET SCD'S
Streamflow Forecasts - April 1, 1996

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)		
		90% (1000AF)		70% (1000AF)		Chance Of Exceeding * 50% (Most Probable) (1000AF) (% AVG.)			30% (1000AF) 10% (1000AF)	
MEEKS CABIN RESERVOIR Inflow	APR-JUL	106	114	120	125	126	134	96		
STATE LINE RESERVOIR INFLOW	APR-JUL	28	34	37	123	41	46	30		
HENRYS FORK nr Manila	APR-JUL	22	36	45	107	55	69	42		
FLAMING GORGE RES INFLOW	APR-JUL	1208	1448	1550	130	1652	1890	1196		
BIG BRUSH CK abv Red Fleet Resv	APR-JUL	6.3	10.3	13.0	66	15.7	19.7	19.8		
ASHLEY CK nr Vernal	APR-JUL	19.4	29	35	69	41	51	51		
WF DUCHESNE R nr Hanna	APR-JUL	23	27	30	115	33	37	26		
DUCHESNE R nr Tabiona	APR-JUL	98	111	120	114	129	142	105		
ROCK CK nr Mountain Home	APR-JUL	81	92	100	106	108	119	94		
UPPER STILLWATER RESV inflow	APR-JUL	69	82	90	111	99	111	81		
DUCHESNE R abv Knight Diversion	APR-JUL	158	189	210	111	231	262	189		
STRAWBERRY RESV nr Soldier Springs	APR-JUL	60	69	75	127	81	90	59		
CURRENT CREEK RESV Inflow	APR-JUL	21	25	27	129	29	33	21		
STARVATION RESV Inflow	APR-JUL	104	132	150	128	168	196	117		
MOON LAKE Inflow	APR-JUL	59	69	75	109	81	91	69		
YELLOWSTONE R nr Altonah	APR-JUL	52	63	70	108	77	88	65		
DUCHESNE R at Myton	APR-JUL	224	284	325	124	366	426	263		
WHITEROCKS R nr Whiterocks	APR-JUL	19.7	30	37	64	44	54	58		
UINTA R nr Neola	APR-JUL	31	46	56	66	66	81	85		
DUCHESNE R nr Randlett	APR-JUL	154	254	350	107	446	544	328		

UINTAH BASIN & DAGGET SCD'S
Reservoir Storage (1000 AF) - End of March

UINTAH BASIN & DAGGET SCD'S
Watershed Snowpack Analysis - April 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
FLAMING GORGE	3749.0	3151.0	2895.8	---	UPPER GREEN RIVER in UTAH	6	97	104
MOON LAKE		NO REPORT			ASHLEY CREEK	2	58	69
RED FLEET	25.7	21.5	17.0	---	BLACK'S FORK RIVER	2	135	133
STEINAKER	33.4	32.8	15.7	22.6	SHEEP CREEK	1	82	86
STARVATION	165.3	148.9	150.6	114.1	DUCHESNE RIVER	11	96	111
STRAWBERRY-ENLARGED	1105.9	706.1	485.8	---	LAKE FORK-YELLOWSTONE CRE	4	96	115
					STRAWBERRY RIVER	4	125	117
					UINTAH-WHITEROCKS RIVERS	2	48	81
					UINTAH BASIN & DAGGET SCD	17	96	109

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

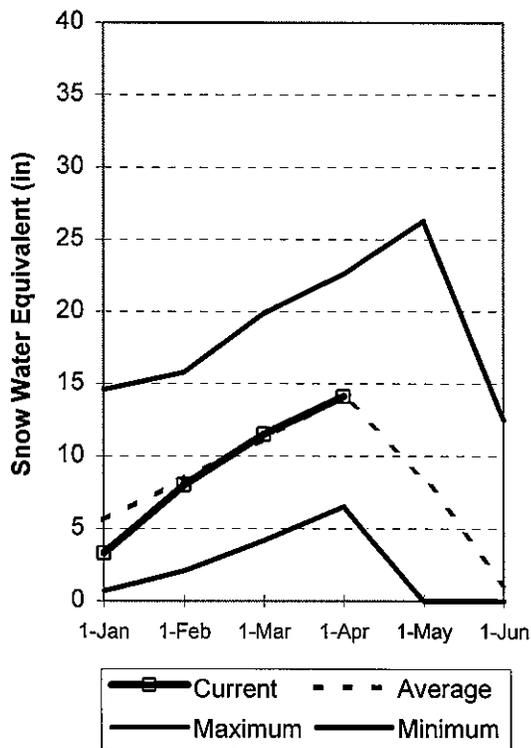
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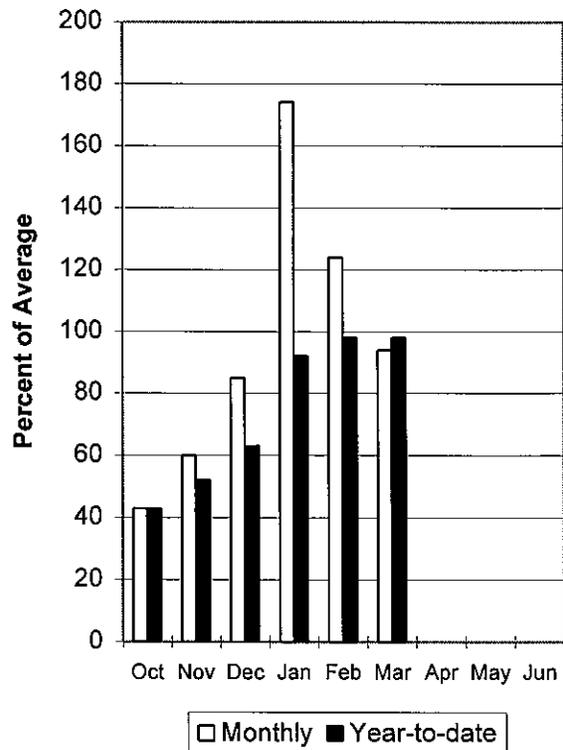
Carbon, Emery, Wayne, Grand and San Juan Co. Apr 1, 1996

Snowpacks in this region are at 100% of average. There are large differences across the geographic region with areas in the southeast as low as 18% and on the Price River as high as 120% of average. Individual sites range from 18% to 170% of normal. Precipitation during March was near average at 94%, bringing the seasonal accumulation (Oct-Mar) to 98% of normal. Reservoir storage is in excellent condition. General water supply conditions are average in the north and west and below to much below average in the southeast.

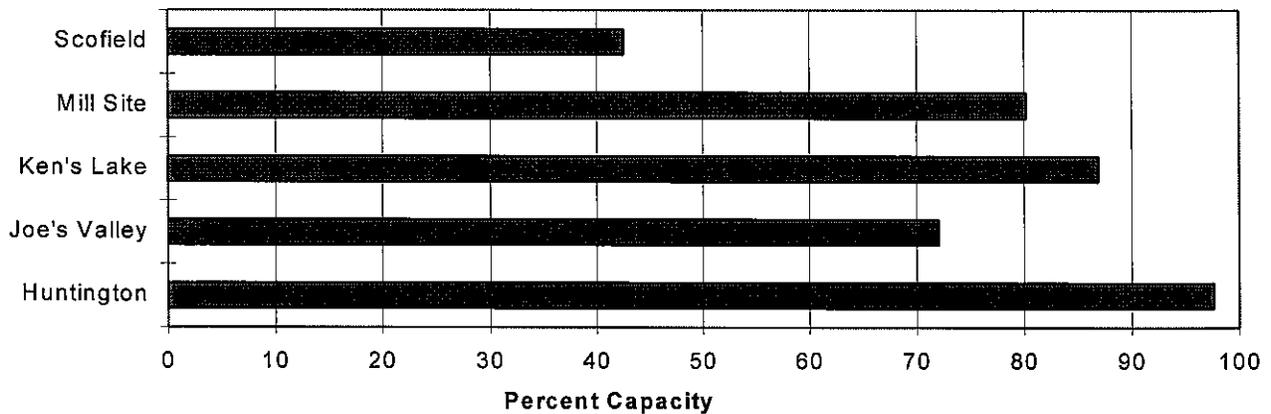
Mountain Snowpack



Precipitation



Reservoir Storage



CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Streamflow Forecasts - April 1, 1996

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)		
		90% (1000AF)		70% (1000AF)		Chance Of Exceeding * 50% (Most Probable) (1000AF) (% AVG.)			30% (1000AF) 10% (1000AF)	
GOOSEBERRY CK nr Scofield	APR-JUL	9.5	11.8	13.0	111	14.2	16.5	11.7		
SCOFIELD RESV Inflow	APR-JUL	22	47	50	114	53	78	44		
WHITE R blw Tabbyune Ck	APR-JUL	13.1	17.4	20	107	23	27	18.7		
GREEN R at Green River, UT	APR-JUL	3406	3819	4100	130	4381	4794	3151		
ELECTRIC LAKE inflow	APR-JUL	13.6	14.7	15.5	103	16.3	17.5	15.1		
HUNTINGTON CK nr Huntington	APR-JUL	18.9	40	43	105	47	67	41		
JOE'S VALLEY RESV Inflow	APR-JUL	37	47	54	102	61	71	53		
FERRON CK nr Ferron	APR-JUL	35	41	45	115	49	55	39		
COLORADO R nr Cisco	APR-JUL	3961	4520	4900	119	5280	5839	4132		
MILL CK at Sheley Tunnel	APR-JUL	2.78	3.66	4.40	73	5.29	6.96	6.00		
INDIAN CK + INDIAN CK TUNNEL	MAR-JUL	0.20	0.23	0.30	9	2.15	7.94	3.34		
SEVEN MILE CK nr Fish Lake	APR-JUL	1.68	4.07	5.70	88	7.33	9.72	6.50		
MUDDY CK nr Emery	APR-JUL	16.1	17.7	22	112	26	28	19.6		
LLOYD'S RESERVOIR inflow	MAR-JUL	0.06	0.15	0.20	7	1.68	3.85	2.90		
RECAPTURE RESERVOIR inflow	MAR-JUL	0.06	0.19	0.40	6	1.60	3.37	6.40		
SAN JUAN R nr Bluff	APR-JUL	138	375	530	46	685	922	1152		

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Reservoir Storage (1000 AF) - End of March

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Watershed Snowpack Analysis - April 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
HUNTINGTON NORTH		NO REPORT			PRICE RIVER	3	123	120
JOE'S VALLEY	61.6	44.4	---	45.6	SAN RAFAEL RIVER	3	103	112
KEN'S LAKE	2.3	2.0	1.3	---	MUDDY CREEK	1	89	109
MILL SITE	16.7	13.4	10.3	4.6	FREMONT RIVER	3	54	75
SCOFIELD	65.8	28.0	18.7	33.3	LASAL MOUNTAINS	1	78	89
					BLUE MOUNTAINS	1	9	18
					WILLOW CREEK	1	59	83
					CARBON, EMERY, WAYNE, GRA	13	84	100

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

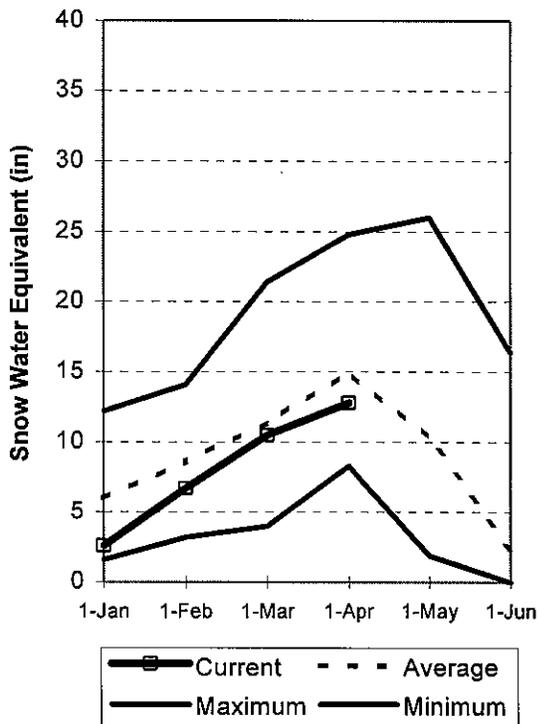
- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
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Sevier and Beaver River Basins

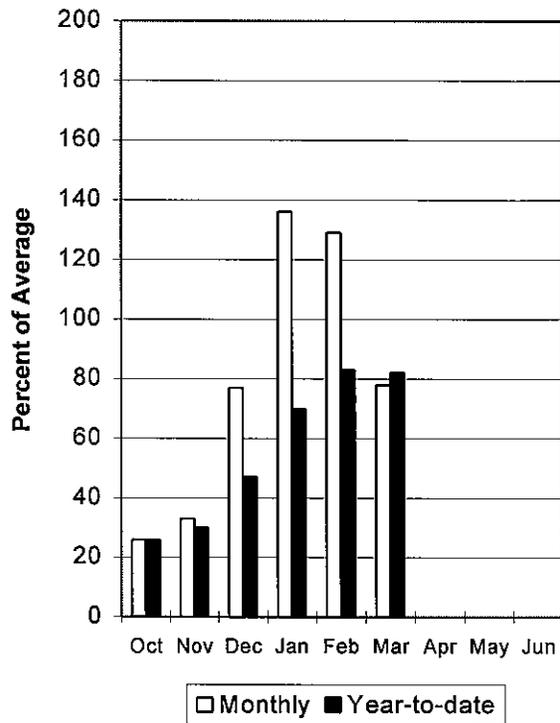
Apr 1, 1996

Snowpacks on the Sevier River Basin are at 85% of average. The northern part of the basin has higher figures (90%) than the southern end which is near 70% of normal. Individual sites range from 0% to 113% of average. Precipitation during March was 78% of normal, bringing the seasonal accumulation (Oct-Mar) to 82% of average. Reservoir storage is in excellent condition. General water supply conditions are below to near average and streamflow will be below average.

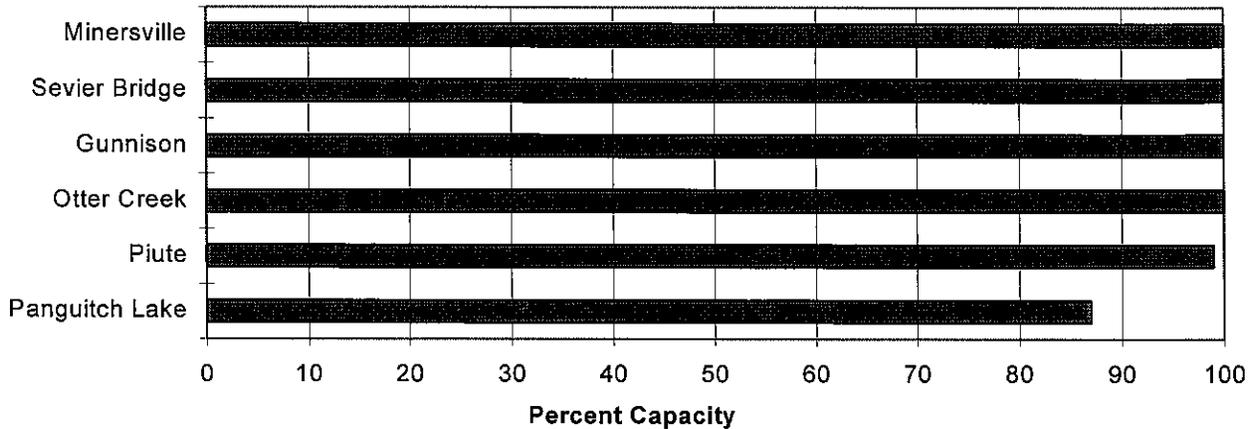
Mountain Snowpack



Precipitation



Reservoir Storage



SEVIER & BEAVER RIVER BASINS
Streamflow Forecasts - April 1, 1996

Forecast Point	Forecast Period	<<==== Drier ==== Future Conditions ==== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
SEVIER R at Hatch	APR-JUL	15.1	26	32	59	38	49	54
SEVIER R nr Circleville	APR-JUL	20	35	45	60	55	71	75
SEVIER R nr Kingston	APR-JUL	18.3	36	46	55	56	75	83
ANTIMONY CK nr Antimony	APR-JUL	1.04	2.55	3.40	46	4.25	5.85	7.40
E F SEVIER R nr Kingston	APR-JUL	4.8	9.0	15.0	50	21	36	30
SEVIER R blw Piute Dam	APR-JUL	9.0	31	65	57	100	121	115
CLEAR CK nr Sevier	APR-JUL	4.4	10.1	13.5	64	16.9	22	21
SALINA CK at Salina	APR-JUL	0.5	3.2	10.0	57	17.4	32	17.6
PLEASANT CK nr Pleasant	APR-JUL	5.61	6.86	7.50	88	8.14	9.44	8.50
EPHRAIM CK nr Ephraim	APR-JUL	5.5	8.5	10.0	79	11.5	14.4	12.6
SEVIER R nr Gunnison	APR-JUL	65	84	135	57	209	342	239
CHICKEN CK nr Levan	APR-JUL	2.12	2.88	3.40	72	3.92	4.68	4.70
OAK CK nr Oak City	APR-JUL	0.03	0.59	1.20	71	1.81	2.71	1.70
BEAVER R nr Beaver	APR-JUL	6.0	14.4	20	77	26	34	26
MINERSVILLE RESEROIR inflow	APR-JUL	2.4	8.1	12.0	72	15.9	22	16.7

SEVIER & BEAVER RIVER BASINS
Reservoir Storage (1000 AF) - End of March

SEVIER & BEAVER RIVER BASINS
Watershed Snowpack Analysis - April 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
GUNNISON	20.3	20.3	11.8	16.3	UPPER SEVIER RIVER (south	7	50	74
MINERSVILLE (RkyFd)	23.3	23.3	12.2	14.3	EAST FORK SEVIER RIVER	2	56	79
OTTER CREEK	52.5	52.5	43.6	35.8	SOUTH FORK SEVIER RIVER	5	47	72
PIUTE	71.8	71.4	71.4	46.2	LOWER SEVIER RIVER (inclu	6	119	93
SEVIER BRIDGE	236.0	235.0	131.9	136.2	BEAVER RIVER	2	74	92
PANGUITCH LAKE	22.3	19.4	13.3	---	SEVIER & BEAVER RIVER BAS	15	76	85

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

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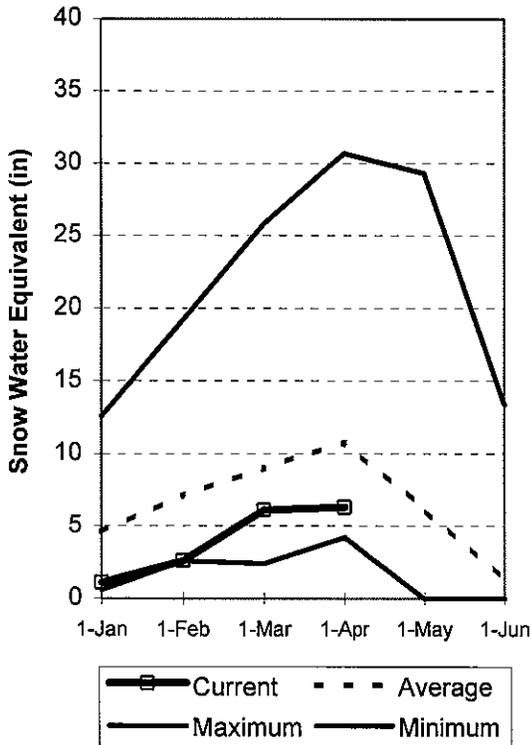
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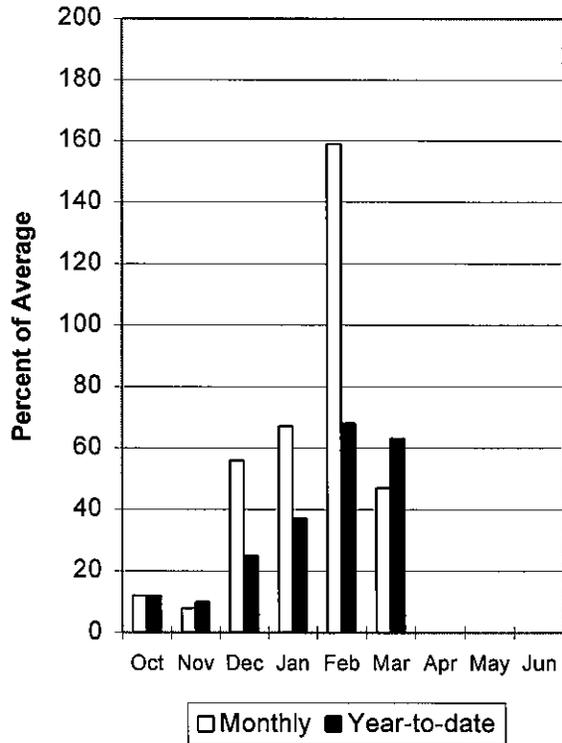
E. Garfield, Kane, Washington, & Iron co. Apr 1, 1996

Snowpacks in this region are much below normal at 59% of average, about 1/3 of last year. Individual sites range from 0% to 88% of normal. All of the low elevation and much of the mid elevation snowpacks have melted and the high elevation sites are all below average. Precipitation during March was much below average at 47%, bringing the seasonal accumulation (Oct-Mar) to 63% of normal. Reservoir storage is in excellent condition. General water supply conditions are below to much below average and snowmelt runoff will be much less than normal and shorter in duration.

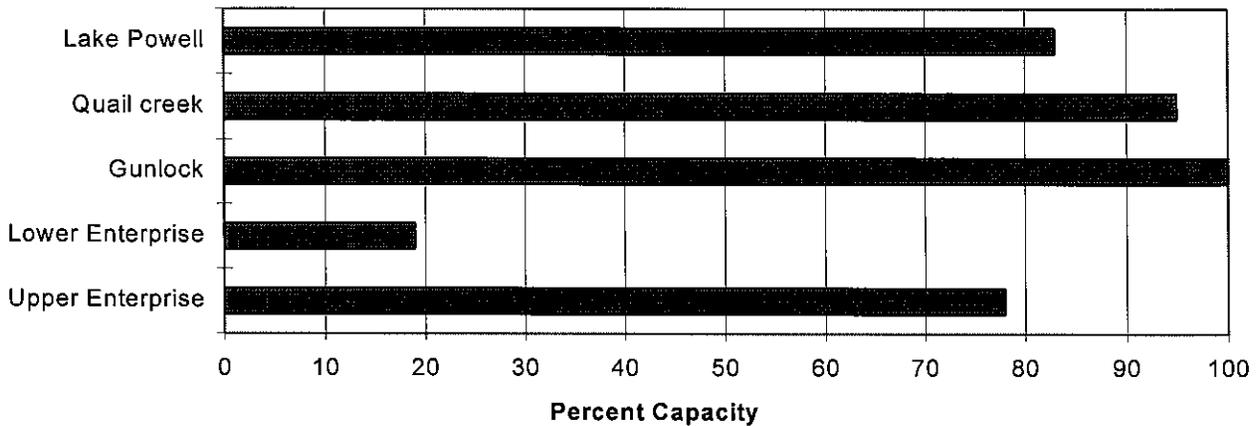
Mountain Snowpack



Precipitation



Reservoir Storage



E. GARFIELD, KANE, WASHINGTON, & IRON Co.
Streamflow Forecasts - April 1, 1996

Forecast Point	Forecast Period	<<==== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
COAL CK nr Cedar City	APR-JUL	3.9	8.7	11.9	63	15.1	19.9	18.8
LAKE POWELL INFLOW	APR-JUL	6497		8900	115		11293	7735
VIRGIN R nr Hurricane	APR-JUL	15.0		37	47		90	79
SANTA CLARA R nr Pine Valley	APR-JUL	0.48		2.60	49		5.99	5.30

E. GARFIELD, KANE, WASHINGTON, & IRON Co.
Reservoir Storage (1000 AF) - End of March

E. GARFIELD, KANE, WASHINGTON, & IRON Co.
Watershed Snowpack Analysis - April 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
GUNLOCK	10.4	10.4	10.4	---	VIRGIN RIVER	5	38	61
LAKE POWELL	24322.0	20220.0	16627.0	---	PAROWAN	2	47	75
QUAIL CREEK	40.0	38.0	38.0	---	ENTERPRISE TO NEW HARMONY	2	0	0
UPPER ENTERPRISE	10.0	7.8	10.0	---	COAL CREEK	2	39	62
LOWER ENTERPRISE	2.6	0.5	2.5	---	ESCALANTE RIVER	2	44	67
					E. GARFIELD, KANE, WASHIN	9	35	59

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

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- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural flow - actual flow may be affected by upstream water management.

SNOW COURSE DATA

FOR THE STATE OF UTAH

As of APRIL 1, 1996

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE
AGUA CANYON SNOTEL	8900	4/01	-	2.4S	15.5	-	DRY BREAD POND SNOTEL	8350	4/01	-	21.1S	19.6	19.9
ALTA CENTRAL	8800	3/28	111	42.9	47.2	38.7	DRY FORK SNOTEL	7160	4/01	-	18.7S	15.2	-
ASHLEY TWIN LAKES	10500				24.3	16.8	EAST SHINGLE LAKE	9800				34.6	29.0
BEAVER DAMS SNOTEL	8000	4/01	-	9.9S	4.5	12.3	EAST WILLOW CREEK SN	8250	4/01	-	5.9S	10.0	7.1
BEAVER DIVIDE SNOTEL	8280	4/01	-	16.7S	9.6	11.4	FARMINGTON CANYON L.	6950	3/30	75	26.4	29.2	24.4
BEN LOWMOND PK SNOTEL	8000	4/01	-	37.5S	43.1	40.8	FARMINGTON CN SNOTEL	8000	4/01	-	34.0S	39.2	31.1
BEN LOWMOND TR SNOTEL	6000	4/01	-	18.4S	16.0	20.0	FARNSWORTH LK SNOTEL	9600	4/01	-	17.6S	19.3	20.5
BEVAN'S CABIN	6450	3/30	37	11.1	6.6	11.7	FISH LAKE	8700	3/27	20	6.9	6.4	8.3
BIG FLAT SNOTEL	10290	4/01	-	15.5S	22.1	18.9	FIVE POINTS LAKE SNO	10920	4/01	-	20.3S	22.0	17.5
BIRCH CROSSING	8100	3/28	6	1.7	4.8	6.0	FRANCES FLATS	6700	4/02	52	22.4	20.4	14.5
BLACK FLAT-U.M. CK S	9400	4/01	-	9.4S	12.1	10.3	G.B.R.C. HEADQUARTER	8700	3/27	44	14.8	14.6	17.2
BLACK'S FORK GS-EF	9340	3/28	42	12.9	9.6	9.6	G.B.R.C. MEADOWS	10000	3/27	76	26.4	23.4	24.2
BLACK'S FORK JUNCIN	8930	3/28	42	12.6	8.2	9.4	GARDEN CITY SUMMIT	7600	3/30	48	17.2	12.2	17.6
BOX CREEK SNOTEL	9800	4/01	-	14.1S	16.2	13.8	GEORGE CREEK	8840	3/27	68	24.0	25.4	23.1
BRIAN HEAD	10000	3/27	46	14.0	29.4	21.2	GOOSEBERRY R.S.	8400	3/27	32	9.5	8.8	12.5
BRIGHTON CABIN	8700	4/01	88	34.7	32.3	27.3	GOOSEBERRY R.S. SNOT	7900	4/01	-	5.4S	2.3	11.7
BRIGHTON SNOTEL	8750	4/01	75	28.2S	28.1	23.1	HARDSCRABBLE SNOTEL	7250	4/01	-	22.0S	14.0	18.2
BROWN DUCK SNOTEL	10600	4/01	-	20.2S	22.7	18.9	HARRIS FLAT SNOTEL	7700	4/01	-	0.0S	11.2	6.5
BRYCE CANYON	8000	3/31	0	0.0	5.2	3.6	HAYDEN FORK	9100	4/01	-	21.3e	-	16.5
BUCK FLAT SNOTEL	9800	4/01	-	25.4S	20.7	18.1	HAYDEN FORK SNOTEL	9100	4/01	-	23.0S	17.3	16.5
BUCK PASTURE	9700	3/29	71	22.6	22.8	16.1	HENRY'S FORK	10000	3/28	57	16.8	15.7	14.0
BUCKBOARD FLAT	9000	4/01	13	4.8	13.6	12.6	HEWINTA SNOTEL	9500	4/01	-	17.7S	11.4	11.5
BUG LAKE SNOTEL	7950	4/01	-	25.1S	19.9	21.3	HICKERSON PARK SNOTE	9100	4/01	-	5.9S	7.2	6.9
BURT'S-MILLER RANCH	7900	3/28	19	6.4	1.1	5.7	HIDDEN SPRINGS	5500	4/02	6	1.9	.4	3.6
CAMP JACKSON SNOTEL	8600	4/01	8	1.8S	20.6	9.8	HOBBLE CREEK SUMMIT	7420	3/28	48	18.0	9.6	14.3
CASTLE VALLEY SNOTEL	9580	4/01	-	12.1S	22.3	14.4	HOLE-IN-ROCK SNOTEL	9150	4/01	-	8.4S	7.2	6.5
CHALK CK #1 SNOTEL	9100	4/01	-	29.6S	25.3	23.9	HORSE RIDGE SNOTEL	8260	4/01	-	28.8S	21.9	23.3
CHALK CK #2 SNOTEL	8200	4/01	-	17.6S	17.4	15.8	HUNTINGTON-HORSESHOE	9800	3/27	70	23.2	25.3	24.2
CHALK CREEK #3	7500	3/28	27	9.1	4.2	7.5	INDIAN CANYON SNOTEL	9100	4/01	-	12.0S	14.1	11.8
CHEPETA SNOTEL	10300	4/01	-	12.6S	21.5	14.3	JOHNSON VALLEY	8850	3/27	24	7.6	7.2	7.1
CITY CREEK	7500	4/02	81	32.6	29.8	27.3	KILFOIL CREEK	7300	3/30	53	17.6	13.1	14.2
CLEAR CK RIDG #1 SNT	9200	4/01	-	24.3S	20.1	19.8	KILLYON CANYON	6300	3/28	19	8.8	1.2	-
CLEAR CK RIDG #2 SNT	8000	4/01	-	16.0S	16.5	14.7	KIMBERLY MINE SNOTEL	9300	4/01	-	14.9S	20.2	16.2
CLEAR CREEK RIDGE #3	6600				1.0	5.5	KING'S CABIN SNOTEL	8730	4/01	-	8.5S	13.8	11.8
COLD WATER SPRINGS	6030				-	-	KLONDIKE NARROWS	7400	3/30	57	22.4	16.3	19.9
CORRAL	8200	3/28	14	5.3	8.3	9.4	KOLOB SNOTEL	9250	4/01	-	18.0S	38.8	23.6
CURRENT CREEK SNOTEL	8000	4/01	-	12.7S	10.9	11.0	LAKEFORK #1 SNOTEL	10100	4/01	-	15.2S	19.4	12.1
DANIELS-STRAWBERRY S	8000	4/01	-	23.9S	15.1	18.3	LAKEFORK BASIN SNOTE	10900	4/01	-	26.9S	22.2	23.4
DESERET PEAK	9250	3/28	57	19.7	22.2	19.2	LAKEFORK MOUNTAIN #3	8400	3/28	24	7.4	5.0	6.1
DESERET PEAK AM	9250	3/28	48	15.4	20.4	16.7	LAMBS CANYON	7400	3/27	55	18.9	15.8	17.0
DESERET PEAK SNOTEL	9250	4/01	-	19.4S	24.3	21.7	LASAL MOUNTAIN LOWER	8800	3/25	31	10.0	12.0	9.7
DILL'S CAMP SNOTEL	9200	4/01	-	16.5S	18.5	15.1	LASAL MOUNTAIN SNOTE	9850	4/01	45	12.3S	15.8	13.8
DONKEY RESERVOIR SNO	9800	4/01	-	7.4S	10.7	8.4	LILLY LAKE SNOTEL	9050	4/01	-	18.4S	14.9	13.4

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90
LITTLE BEAR LOWER	6000	3/30	26	9.4	5.5	9.7	TALL POLES	8800	3/28	33	10.6	19.0	14.7
LITTLE BEAR SNOTEL	6550	4/01	-	8.7S	4.3	12.4	THAYNES CANYON SNOTEL	9200	4/01	-	29.7S	30.3	22.1
LITTLE GRASSY SNOTEL	6100	4/01	-	0.0S	0.0	.1	THISTLE FLAT	8500	3/27	50	17.2	15.5	17.3
LONG FLAT SNOTEL	8000	4/01	-	0.0S	15.0	5.5	TIMBERLINE	9100	3/28	35	10.6	17.6	14.8
LONG VALLEY JCT. SNT	7500	4/01	-	0.0S	.0	.1	TIMPANOGOS DIVIDE SN	8140	4/01	-	22.1S	28.0	25.5
LOOKOUT PEAK SNOTEL	8200	4/01	-	32.6S	31.5	26.5	TONY GROVE LK SNOTEL	8400	4/01	-	42.2S	33.6	36.9
LOST CREEK RESERVOIR	6130	3/30	12	5.5	.2	1.9	TONY GROVE R.S.	6250	3/30	37	13.1	8.8	11.5
MAMMOTH-COTTONWD SNT	8800	4/01	68	23.8S	20.2	21.0	TRIAL LAKE	9960	3/28	83	29.3	26.9	24.2
MERCHANT VALLEY SNOT	8750	4/01	-	13.4S	16.8	12.4	TRIAL LAKE SNOTEL	9960	4/01	-	31.7S	24.7	25.0
MIDDLE CANYON	7000	3/30	36	12.4	8.6	14.4	TROUT CREEK SNOTEL	9400	4/01	-	7.8S	14.4	11.8
MIDWAY VALLEY SNOTEL	9800	4/01	-	17.2S	40.5	24.6	UPPER JOES VALLEY	8900	3/27	41	13.1	8.9	10.4
MILL CREEK	6950	3/27	63	21.8	22.8	20.9	VERNON CREEK SNOTEL	7500	4/01	-	7.3S	12.5	12.1
MILL-D NORTH SNOTEL	8960	4/01	-	28.8S	26.6	24.1	VIPONT	7670	3/27	50	17.6	12.4	15.8
MILL-D SOUTH FORK	7400	3/29	68	24.6	18.5	19.6	WEBSTER FLAT SNOTEL	9200	4/01	-	8.2S	24.7	16.5
MINING FORK SNOTEL	8000	4/01	71	22.6S	22.1	16.4	WHITE RIVER #1 SNOTE	8550	4/01	-	17.8S	13.2	13.9
MONTE CRISTO SNOTEL	8960	4/01	-	37.1S	35.1	29.9	WHITE RIVER #3	7400	3/28	29	11.9	0.2	7.0
MOSSY MTN. SNOTEL	9500	4/01	-	8.2S	21.8	11.3	WIDTSONE #3 SNOTEL	9500	4/01	-	6.3S	20.1	12.1
MT. BALDY R.S.	9500	3/27	75	25.1	20.8	24.3	WRIGLEY CREEK	9000	3/27	38	11.9	10.5	11.4
MUD CREEK #2	8600	3/27	59	18.7	12.2	13.7	YANKEE RESERVOIR	8700	3/27	25	7.8	13.5	10.0
OAK CREEK	7760	3/27	37	9.9	12.6	12.9	NOTE:						
PANQUITCH LAKE	8200	3/27	-	2.8e	7.7	4.0	The S flag following Water Content for SNOTEL sites indicates telemetered						
PARLEY'S CANYON SNOT	7500	4/01	-	19.6S	14.3	19.1	data. The Depth reading preceding S flagged data was measured around the						
PARLEY'S CANYON SUM.	7500	3/27	68	23.7	20.4	18.8	snow pillows at the time of the ground survey and may not be the same date as						
PAYSON R.S. SNOTEL	8050	4/01	-	19.3S	15.0	22.6	the telemetered value.						
PICKLE KEG SNOTEL	9600	4/01	-	17.4S	15.1	18.8							
PINE CREEK SNOTEL	8800	4/01	56	23.9S	20.8	21.4							
RED PINE RIDGE SNOTE	9200	4/01	-	18.9S	17.4	18.0							
REDDEN MINE LOWER	8500	3/28	59	20.5	20.1	18.2							
REES'S FLAT	7300	3/27	35	10.6	8.9	13.3							
ROCK CREEK SNOTEL	7900	4/01	-	10.8S	6.9	8.6							
ROCKY BN-SETTLEMT SN	8900	4/01	-	19.9S	32.0	26.0							
ROCKY BN-SETTLEMT (d)	8900				-	26.0							
SEELY CREEK SNOTEL	10000	4/01	43	13.2S	17.5	15.3							
SILVER LAKE (BRIGHT.)	8730	3/29	80	29.6	34.6	25.8							
SMITH MOREHOUSE SNTL	7600	4/01	-	20.4S	13.3	14.6							
SNOWBIRD SNOTEL	9700	4/01	129	44.5S	50.1	33.5							
SPIRIT LAKE	10300	3/28	38	11.3	16.8	13.5							
SQUAW SPRINGS	9300	3/27	22	6.9	7.8	7.2							
STEEL CREEK PARK SNO	10100	4/01	-	19.7S	16.3	16.6							
STILLWATER CAMP	8550	3/28	46	14.4	10.4	10.8							
STRAWBERRY DIVIDE SN	8400	4/01	-	22.4S	16.9	19.8							
STUART R.S.	7950				5.8	7.6							
SUSC RANCH	8200	3/28	0	0.0	11.2	7.0							

Issued by

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Basin Outlook Report

May 1, 1996



Basin Outlook Reports

and Federal - State - Private Cooperative Snow Surveys

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How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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STATE OF UTAH GENERAL OUTLOOK

May 1, 1996

SUMMARY

General water supply conditions range from extremely poor in the south and southeastern portions of Utah to much above average over most of the northern region. Some areas of southern and southeastern Utah could have streamflows less than 10% of normal. Agriculture and ranching operations could be severely curtailed. Wildland forage production could be far less than normal and wildfire potential will be extreme if sustained precipitation does not occur over this region. Many springs and streams will most likely go dry forcing wildlife to seek other sources of food and water. In the north, the opposite conditions exist with snowpacks much above normal. A relatively cool April produced only 30% to 40% of average snowmelt, mostly at the low elevations, leaving higher elevation snowpacks virtually intact. This is essentially a repeat of last years snowmelt which lasted well past the normal melt period. The Bear, Weber and Provo watersheds all have much above average snowpacks and should produce excellent streamflow well into the summer months. At many high and mid elevation sites, snowpacks are higher than in 1983 and 1984, however most low elevation snowpack has already melted, greatly diminishing overall flood potential. Cool, wet weather could aggravate the potential for high flows whereas warm, dry weather will melt much of the remaining mid elevation snowpack, mitigating the flood potential.

SNOWPACK

Snowpacks in Utah, as measured by the NRCS SNOTEL system, are at 122% of normal, up almost 20% compared to last months figures. Snowpacks in the north are much above average and are virtually melted out in the south. April produced much below average snowmelt in the north and consequently, much of the mid and high elevation snowpacks remain. This has shortened the normal melt window by several weeks, which could increase seasonal peak flows. Overall potential for widespread snowmelt flooding does not appear great at this time.

PRECIPITATION

Mountain precipitation in April, as measured by the NRCS SNOTEL system was slightly below average statewide at 81% of normal, bringing the seasonal accumulation (Oct-Apr) to 101% of average. Northern Utah, received the most precipitation (80%-95%) with the south receiving only 40% to 70% of normal. Extreme southeast Utah received only 13% of normal.

National Weather Service precipitation figures indicate above normal precipitation in the north while the south and east remained quite dry during April. Some individual northern amounts include: Alta - 146%, Pineview Dam - 129% and Heber with 125% of average.

Southerly and eastern extremes include: Capitol Reef - 9%, Escalante - 4%, Blanding - 34%, Delta - 79%, Duchesne - 32%, Green River - 72% and Monticello -24% of normal.

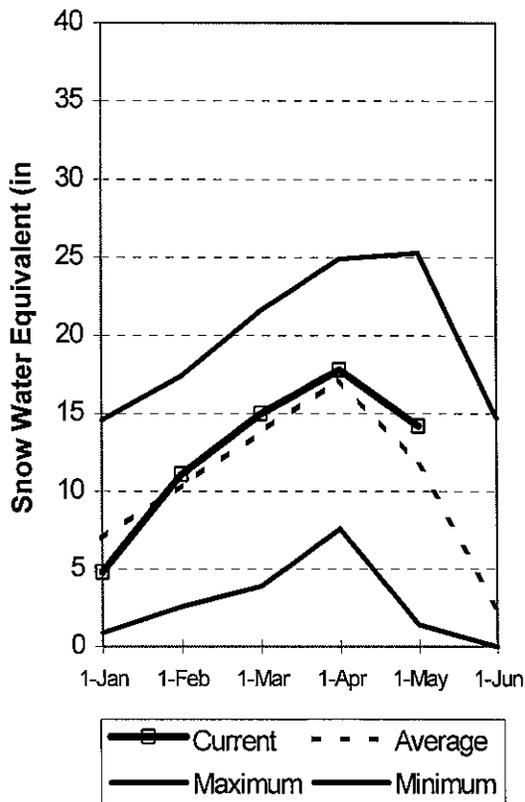
RESERVOIRS

Storage in 41 of Utah's key irrigation reservoirs is at 72% of capacity. Most reservoirs are in excellent shape for spring runoff.

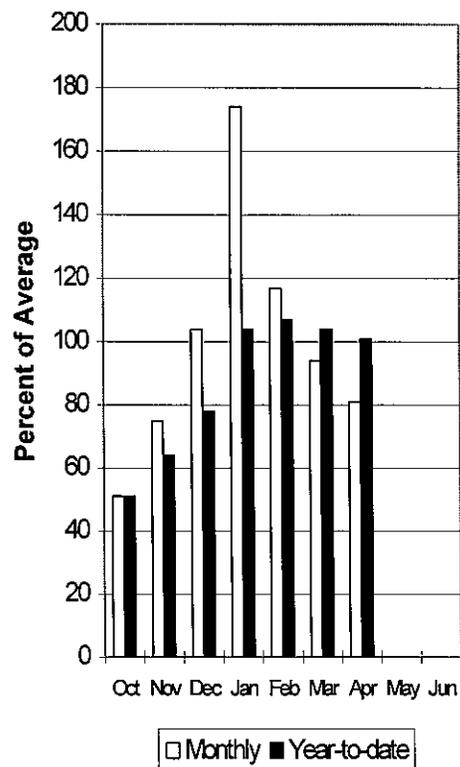
STREAMFLOW

Streamflow forecasts for snowmelt runoff range from near average to much above average in northern Utah and much below to near average in the southern areas of the state. With the potential for extremely low streamflow, areas of southern and southeastern Utah will rely on reservoir storage this year. Northern Utah will be able to catch up on some storage in Bear Lake and Strawberry Reservoir.

Mountain Snowpack



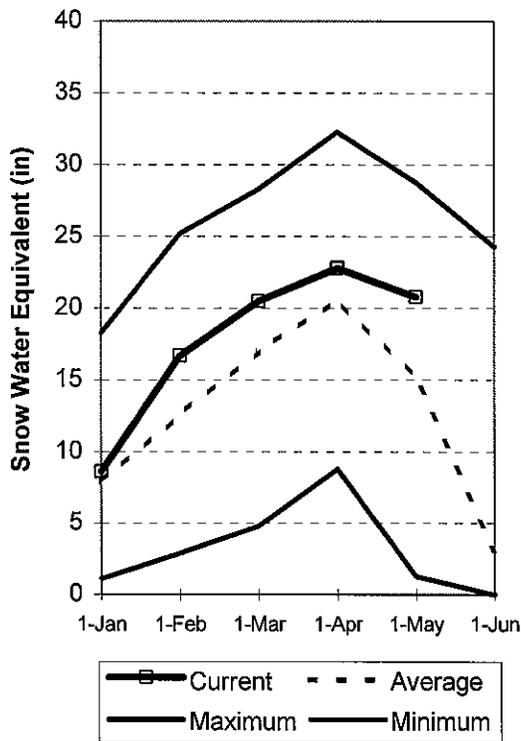
Precipitation



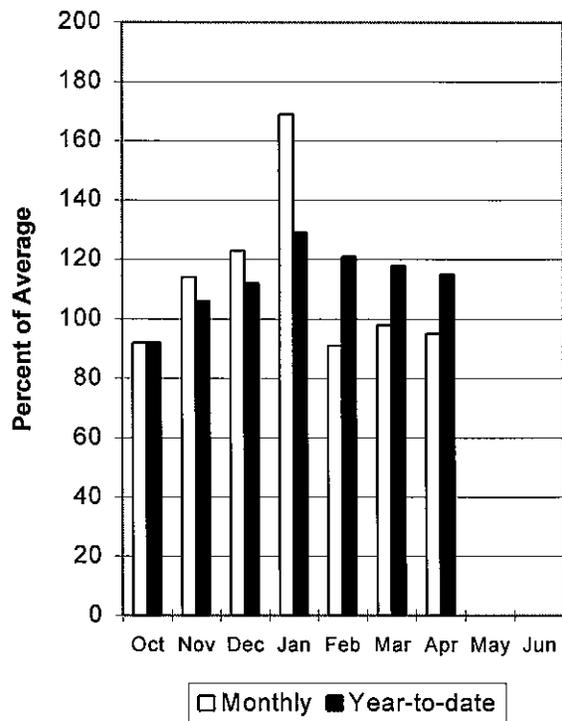
Bear River Basin May 1, 1996

Snowpack on the Bear River Basin is much above average at 137% of normal, ranging from 0% to 171% of average at specific sites. This is the highest snowpack on the Bear since 1986. The upper Bear Watershed has a much larger snowpack (158%) than the lower Watershed in Idaho and Wyoming (121%). April precipitation was near normal at 95%, which brings the seasonal accumulation (Oct-Apr) to 115% of average. Water supply conditions are excellent and much above average runoff is expected. Reservoir storage is at capacity with the exception of Bear Lake which is 51% full.

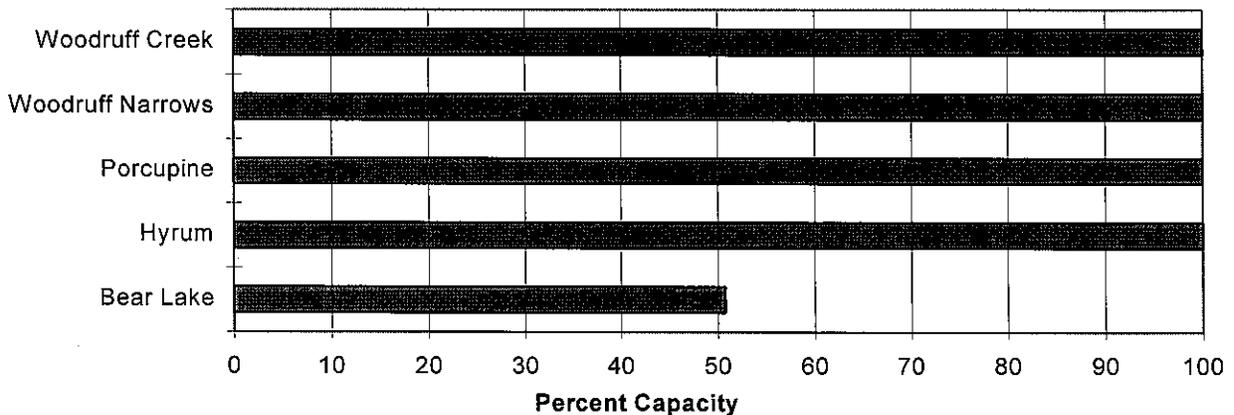
Mountain Snowpack



Precipitation



Reservoir Storage



BEAR RIVER BASIN
Streamflow Forecasts - May 1, 1996

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		Drier		Wetter				
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	30% (1000AF)	10% (1000AF)	Chance Of Exceeding * (% AVG.)	
BEAR R nr UT-WY State Line	APR-JUL	127	143	155	135	168	189	115
BEAR R nr Woodruff (2)	APR-JUL	106	162	200	134	238	294	149
BIG CK nr Randolph	APR-JUL	1.76	3.87	5.30	140	6.73	8.84	3.80
BEAR R nr Randolph, UT	APR-JUL	110	140	160	136	180	210	118
SMITHS FORK nr Border, WY	APR-JUL	110	120	127	125	134	144	102
THOMAS FK nr WY-ID State Line	APR-JUL	24	30	35	106	41	52	33
BEAR R blw Stewart Dam nr Montpelier	APR-JUL	266	313	345	120	377	424	288
MONTPELIER CK nr Montpelier (2)	APR-JUL	8.6	10.6	12.2	100	14.0	17.3	12.2
CUB R nr Preston	APR-JUL	43	48	51	109	54	59	47
LOGAN R nr Logan	APR-JUL	133	143	150	140	158	170	107
BLACKSMITH Fk nr Hyrum	APR-JUL	57	63	68	126	73	82	54

BEAR RIVER BASIN
Reservoir Storage (1000 AF) - End of April

BEAR RIVER BASIN
Watershed Snowpack Analysis - May 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
BEAR LAKE	1421.0	722.0	429.1	1059.0	BEAR RIVER, UPPER (abv Ha	6	114	158
HYRUM	15.3	15.3	15.3	13.2	BEAR RIVER, LOWER (blw Ha	7	125	126
PORCUPINE	11.3	11.3	11.3	9.5	LOGAN RIVER	4	125	146
WOODRUFF NARROWS	57.3	57.3	24.5	---	RAFT RIVER	0	0	0
WOODRUFF CREEK	4.0	4.0	4.0	---	BEAR RIVER BASIN	13	119	141

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

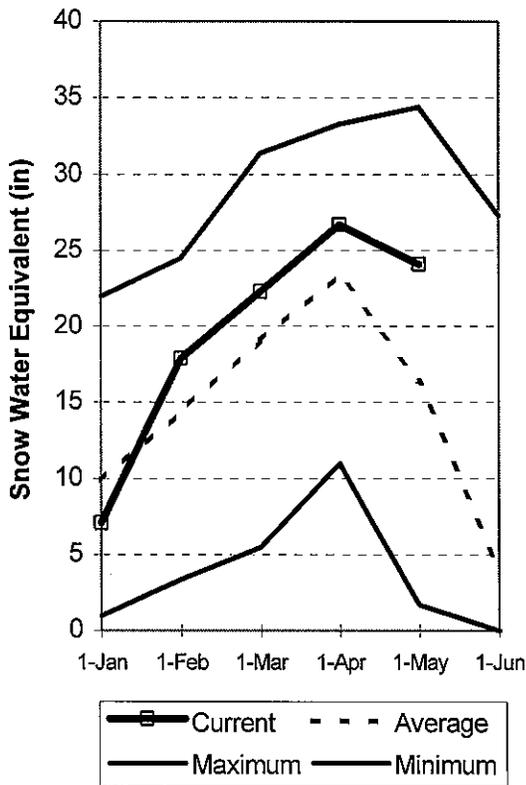
The average is computed for the 1961-1990 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 (2) - The value is natural flow - actual flow may be affected by upstream water management.

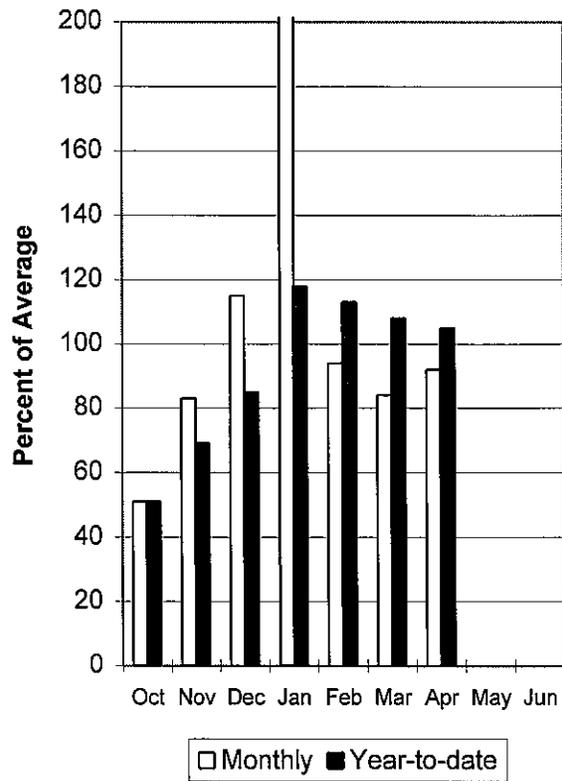
Weber and Ogden River Basins May 1, 1996

Snowpack on the Weber and Ogden Watersheds is at 147% of average. Individual sites range from 0% to 271 % of average. this is the best May 1 snowpack on the Weber since 1986. Precipitation during April was near average at 92%, bringing the seasonal accumulation (Oct-Apr) to 105% of normal. Reservoir storage on the Weber system is in excellent condition. General water supply conditions are also excellent with the prospect of having above average runoff this spring. Streamflows will have higher peaks and longer duration than normal years.

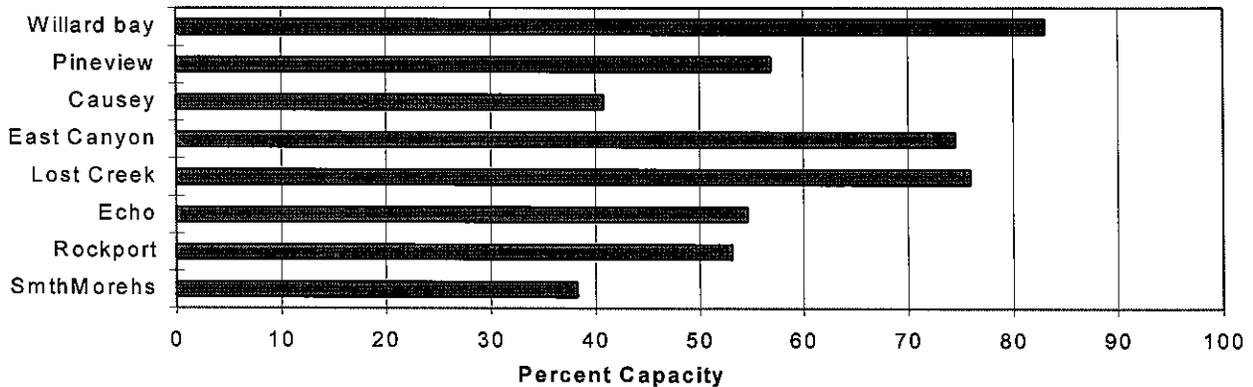
Mountain Snowpack



Precipitation



Reservoir Storage



WEBER & OGDEN WATERSHEDS in Utah
Streamflow Forecasts - May 1, 1996

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>							
		Chance Of Exceeding *							30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)		
SMITH AND MOREHOUSE CK nr Oakley	APR-JUN	32	36	38	127	41	44	30	
WEBER R nr Oakley	APR-JUL	144	154	160	131	166	176	122	
ROCKPORT RESEROIR inflow	APR-JUL	157	168	175	131	182	193	134	
CHALK CK at Coalville, Ut	APR-JUL	45	53	58	132	63	71	44	
WEBER R nr Coalville, Ut	APR-JUL	158	171	180	132	189	202	136	
ECHO RESEROIR Inflow	APR-JUL	189	213	230	131	247	271	176	
LOST CK Res Inflow	APR-JUL	15.0	19.2	22	128	25	29	17.2	
E CANYON CK nr Morgan	APR-JUL	32	37	41	137	45	50	30	
WEBER R at Gateway	APR-JUL	396	437	465	134	493	534	347	
S FORK OGDEN R nr Huntsville	APR-JUL	69	76	80	127	84	91	63	
PINEVIEW RESEROIR Inflow	APR-JUL	124	142	155	125	168	186	124	
WHEELER CK nr Huntsville	APR-JUL	6.39	7.35	8.00	129	8.65	9.61	6.20	

WEBER & OGDEN WATERSHEDS in Utah
Reservoir Storage (1000 AF) - End of April

WEBER & OGDEN WATERSHEDS in Utah
Watershed Snowpack Analysis - May 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
CAUSEY	7.1	2.9	3.4	2.6	OGDEN RIVER	4	100	116
EAST CANYON	49.5	36.9	40.8	41.5	WEBER RIVER	8	110	173
ECHO	73.9	40.4	55.6	54.2	WEBER & OGDEN WATERSHEDS	12	106	149
LOST CREEK	22.5	17.1	19.4	14.3				
PINEVIEW	110.1	62.7	86.7	76.6				
ROCKPORT	60.9	32.4	41.6	36.8				
WILLARD BAY	215.0	178.6	188.3	139.7				

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

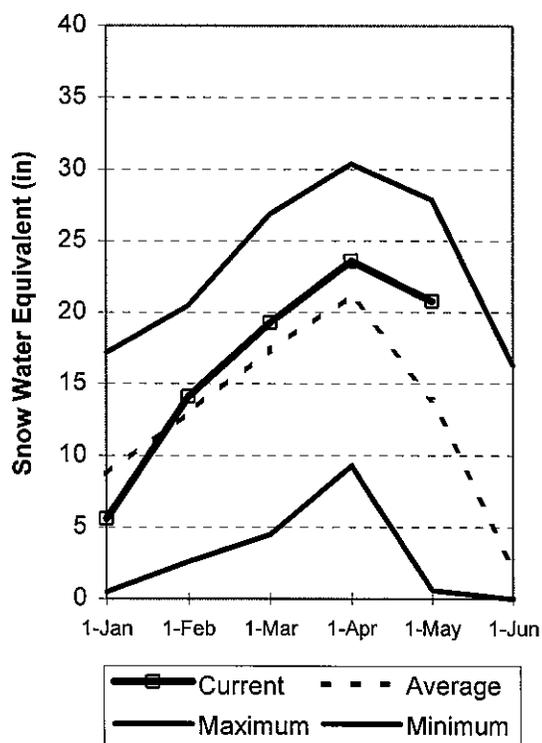
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

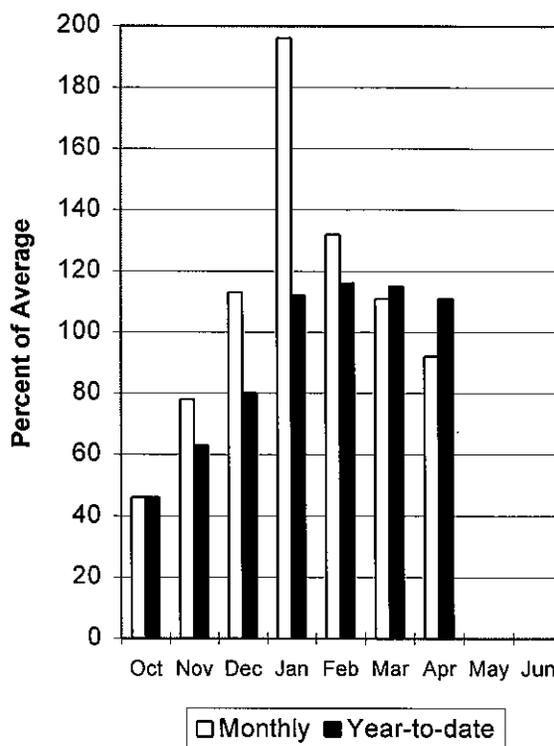
Utah Lake, Jordan River & Tooele Valley Basins May 1, 1996

Snowpacks over these watersheds are much above average at 149% of normal with the exception of the Tooele Valley which is near average. Individual sites range from 0% to 317% of average. Precipitation during April was near average at 92% of normal, bringing the seasonal accumulation (Oct-Apr) to 111% of average. Reservoir storage is in excellent condition. Jordanelle Reservoir remains under a 1/2 foot per day fill criteria and all other reservoirs are expected to easily fill. With the exception of the Tooele Valley, general water supply conditions are excellent with much above average streamflow expected.

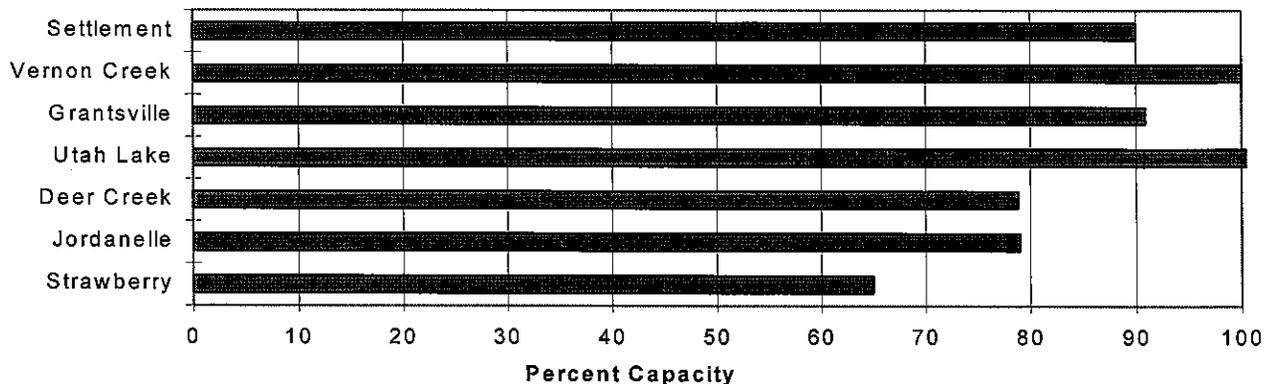
Mountain Snowpack



Precipitation



Reservoir Storage



UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Streamflow Forecasts - May 1, 1996

Forecast Point	Forecast Period	<<==== Drier ==== Future Conditions ==== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
PAYSON CK nr Payson	APR-JUL	0.48	2.32	3.50	80	4.68	6.51	4.40
SPANISH FORK nr Castilla	APR-JUL	29	62	81	110	100	133	74
HOBBLE CK nr Springville	APR-JUL	19.0	23	24	128	25	29	18.8
PROVO R nr Hailstone	APR-JUL	110		140	128		169	109
PROVO R below Deer Creek Dam	APR-JUL	115		160	125		205	128
AMERICAN FORK nr American Fk.	APR-JUL	29	33	35	109	37	41	32
UTAH LAKE inflow	APR-JUL	201		345	107		489	324
L COTTONWOOD CRK nr SLC	APR-JUL	46	51	53	136	56	59	39
BIG COTTONWOOD CRK nr SLC	APR-JUL	45	48	51	134	54	59	38
PARLEY'S CK nr SLC	APR-JUL	11.9	16.4	19.1	120	22	26	15.9
MILL CK nr SLC	APR-JUL	4.94	6.50	7.50	115	8.50	10.20	6.50
DELL FK nr SLC	APR-JUL	5.32	7.65	8.90	125	10.15	12.57	7.10
EMIGRATION CK nr SLC	APR-JUL	3.19	4.95	6.00	143	7.05	8.82	4.20
CITY CK nr SLC	APR-JUL	8.72	10.75	12.00	145	13.25	15.27	8.30
VERNON CK nr Vernon (in Acre Feet)	APR-JUL	570	773	950	71	1167	1582	1340
SETTLEMENT CK nr Tooele (in Acre Fee	APR-JUL	1305	1473	1600	70	1738	1962	2300
S WILLOW CK nr Grantsville	APR-JUL	0.29	1.37	2.10	68	2.83	3.91	3.10

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Reservoir Storage (1000 AF) - End of April

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Watershed Snowpack Analysis - May 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
DEER CREEK	149.7	118.1	103.1	106.9	PROVO RIVER & UTAH LAKE	7	99	143
GRANTSVILLE	3.3	3.0	2.7	---	PROVO RIVER	4	112	144
SETTLEMENT CREEK	1.0	0.9	0.9	0.7	JORDAN RIVER & GREAT SALT	5	96	194
STRAWBERRY-ENLARGED	1105.9	719.1	501.6	---	TOOELE VALLEY WATERSHEDS	4	62	99
UTAH LAKE	870.9	922.0	742.1	766.8	UTAH LAKE, JORDAN RIVER &	16	89	149
VERNON CREEK	0.6	0.6	0.6	0.6				

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

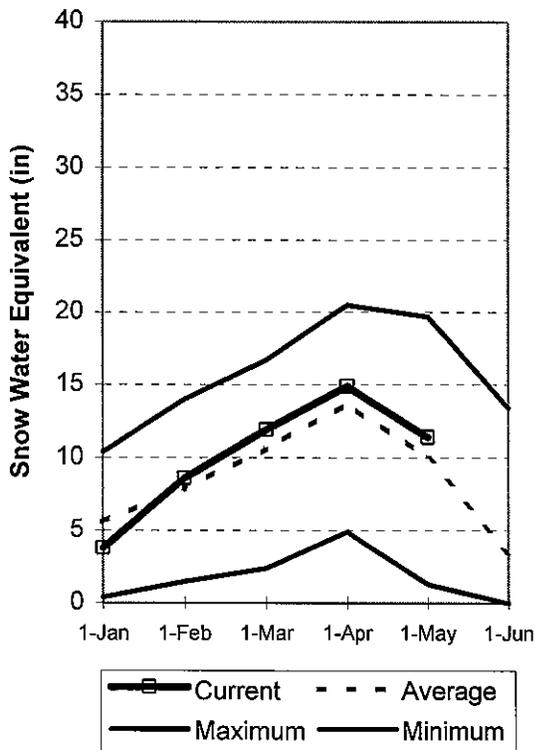
The average is computed for the 1961-1990 base period.

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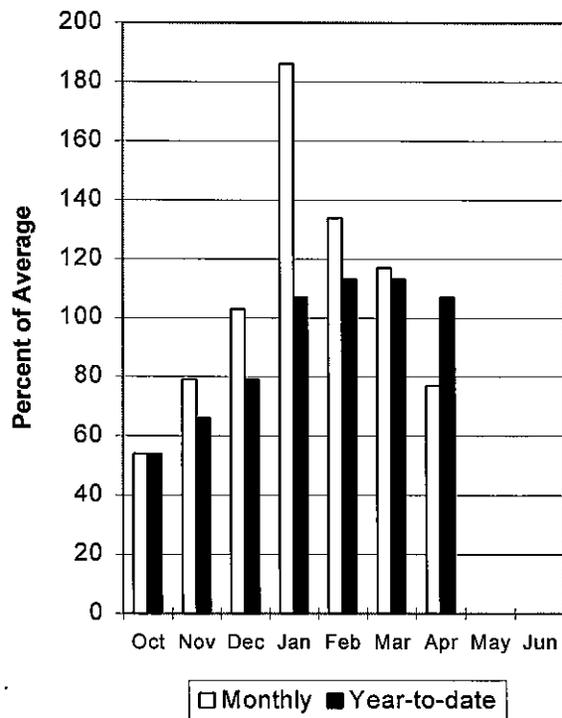
Uintah Basin and Dagget SCD's May 1, 1996

Snowpacks across the Uintah Basin and North Slope areas remain divided with a west to east split. The north and western area is above to much above average and the eastern edge below normal. Basin averages range from 42% on Ashley Creek to 147% of normal on the Black's Fork. Precipitation during April was below average at 77%, bringing the seasonal accumulation (Oct-Apr) to 107% of average. Reservoir storage is in excellent condition. General water supply conditions are excellent over the west portion of the basin and generally decrease towards the eastern end, where below normal streamflow can be expected.

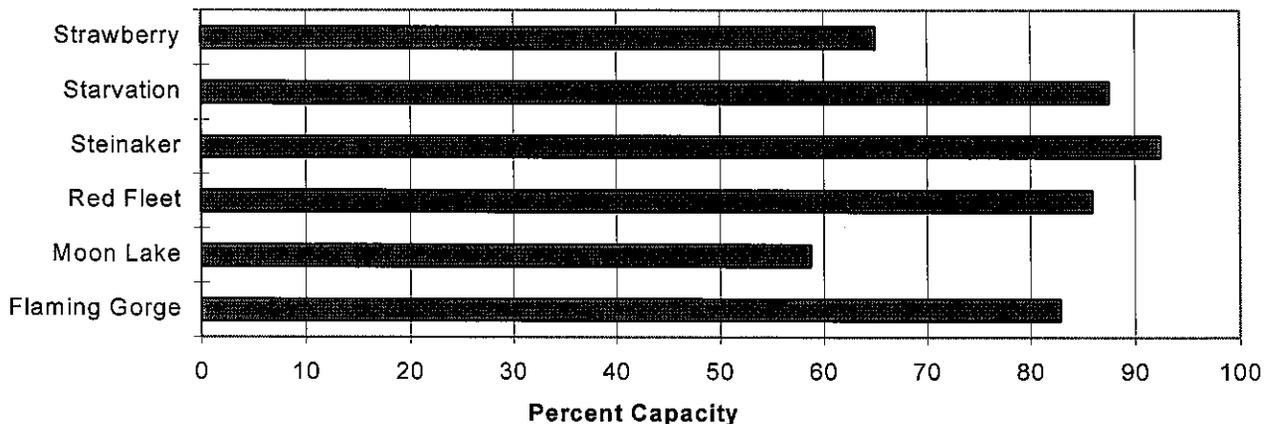
Mountain Snowpack



Precipitation



Reservoir Storage



UINTAH BASIN & DAGGET SCD'S
 Streamflow Forecasts - May 1, 1996

Forecast Point	Forecast Period	<<==== Drier ==== Future Conditions ==== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
MEEKS CABIN RESERVOIR Inflow	APR-JUL	107	115	120	125	125	133	96
STATE LINE RESERVOIR INFLOW	APR-JUL	30	34	37	123	40	44	30
HENRYS FORK nr Manila	APR-JUL	17.8	31	40	95	49	62	42
FLAMING GORGE RES INFLOW	APR-JUL	1100	1314	1400	117	1486	1698	1196
BIG BRUSH CK abv Red Fleet Resv	APR-JUL	5.4	9.3	12.0	61	14.7	18.6	19.8
ASHLEY CK nr Vernal	APR-JUL	16.0	24	30	59	36	44	51
WF DUCHESNE R nr Hanna	APR-JUL	25	29	32	123	35	39	26
DUCHESNE R nr Tabiona	APR-JUL	105	114	120	114	126	135	105
ROCK CK nr Mountain Home	APR-JUL	88	98	105	112	112	122	94
UPPER STILLWATER RESV inflow	APR-JUL	72	83	90	111	98	108	81
DUCHESNE R abv Knight Diversion	APR-JUL	177	203	220	116	237	263	189
STRAWBERRY RESV nr Soldier Springs	APR-JUL	65	74	80	136	86	96	59
CURRENT CREEK RESV Inflow	APR-JUL	23	26	28	133	30	34	21
STARVATION RESV Inflow	APR-JUL	114	141	160	137	179	206	117
MOON LAKE Inflow	APR-JUL	58	66	72	104	78	86	69
YELLOWSTONE R nr Altonah	APR-JUL	54	63	70	108	77	86	65
DUCHESNE R at Myton	APR-JUL	246	302	340	129	378	434	263
WHITEROCKS R nr Whiterocks	APR-JUL	24	33	40	69	47	56	58
UINTA R nr Neola	APR-JUL	36	50	60	71	70	84	85
DUCHESNE R nr Randlett	APR-JUL	216	289	380	116	471	544	328

UINTAH BASIN & DAGGET SCD'S
 Reservoir Storage (1000 AF) - End of April

UINTAH BASIN & DAGGET SCD'S
 Watershed Snowpack Analysis - May 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
FLAMING GORGE	3749.0	3107.3	2933.3	---	UPPER GREEN RIVER in UTAH	6	59	105
MOON LAKE	49.5	29.1	17.0	31.8	ASHLEY CREEK	2	22	42
RED FLEET	25.7	22.1	19.0	---	BLACK'S FORK RIVER	2	99	147
STEINAKER	33.4	30.9	16.9	23.0	SHEEP CREEK	1	0	0
STARVATION	165.3	144.8	153.2	113.5	DUCHESNE RIVER	11	75	116
STRAWBERRY-ENLARGED	1105.9	719.1	501.6	---	LAKE FORK-YELLOWSTONE CRE	4	80	115
					STRAWBERRY RIVER	4	105	150
					UINTAH-WHITEROCKS RIVERS	2	34	71
					UINTAH BASIN & DAGGET SCD	17	71	113

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

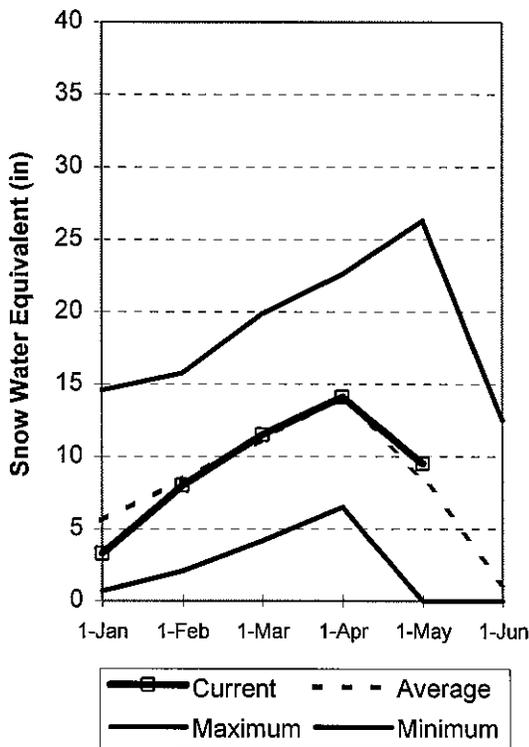
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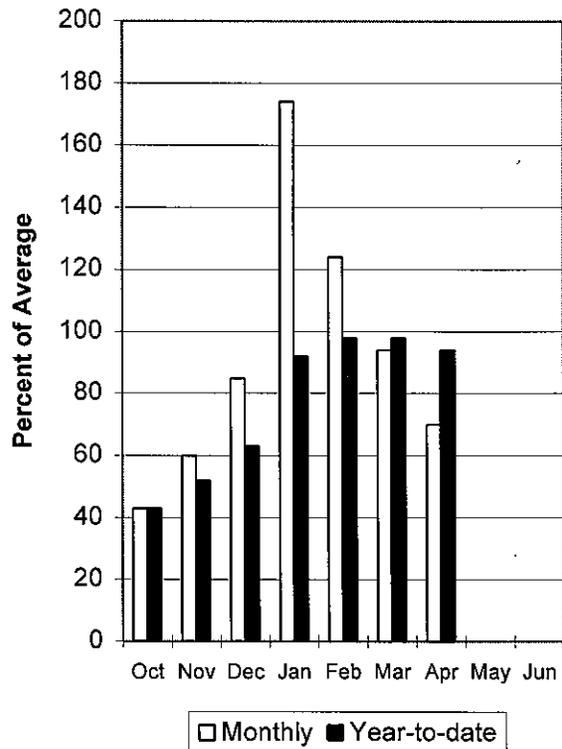
Carbon, Emery, Wayne, Grand and San Juan Co. May 1, 1996

Snowpacks in this region are at 112% of average. There are large differences across the geographic region with areas in the southeast at 0% and on the Price River at 163% of average. Individual sites range from 0% to 204% of normal. Precipitation during April was below average at 70%, bringing the seasonal accumulation (Oct-Apr) to 94% of normal. Reservoir storage is in excellent condition. General water supply conditions are above average in the north and west and below to much below average in the southeast. Extremely dry conditions exist in the southeast, along with all the associated drought problems.

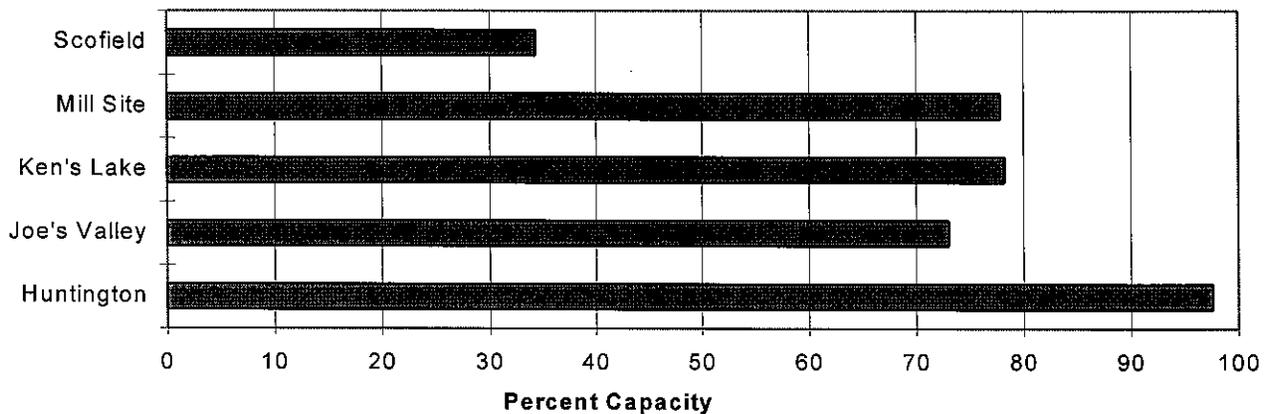
Mountain Snowpack



Precipitation



Reservoir Storage



CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Streamflow Forecasts - May 1, 1996

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		Drier		Wetter		Chance Of Exceeding *		
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	30% (1000AF)	10% (1000AF)	(% AVG.)	
GOOSEBERRY CK nr Scofield	APR-JUL	9.8	12.4	13.5	115	14.6	17.2	11.7
SCOFIELD RESV Inflow	APR-JUL	28	52	55	125	58	82	44
WHITE R blw Tabbyune Ck	APR-JUL	15.0	18.6	21	112	23	27	18.7
GREEN R at Green River, UT	APR-JUL	3246	3807	4050	129	4293	4853	3151
ELECTRIC LAKE inflow	APR-JUL	14.7	15.7	16.5	109	17.3	18.4	15.1
HUNTINGTON CK nr Huntington	APR-JUL	22	42	45	110	48	68	41
JOE'S VALLEY RESV Inflow	APR-JUL	43	53	60	113	67	77	53
FERRON CK nr Ferron	APR-JUL	36	41	45	115	49	54	39
COLORADO R nr Cisco	APR-JUL	3925	4689	5000	121	5311	6074	4132
MILL CK at Sheley Tunnel	APR-JUL	1.65	2.16	2.60	43	3.13	4.10	6.00
INDIAN CK + INDIAN CK TUNNEL	MAR-JUL	0.20	0.23	0.30	9	1.98	7.12	3.34
SEVEN MILE CK nr Fish Lake	APR-JUL	1.72	3.79	5.20	80	6.61	8.68	6.50
MUDDY CK nr Emery	APR-JUL	15.1	15.7	20	102	24	25	19.6
LLOYD'S RESERVOIR inflow	MAR-JUL	0.06	0.12	0.20	7	1.63	3.74	2.90
RECAPTURE RESERVOIR inflow	MAR-JUL	0.00	0.19	0.40	6	1.52	3.16	6.40
SAN JUAN R nr Bluff	APR-JUL	92	278	400	35	522	714	1152

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Reservoir Storage (1000 AF) - End of April

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Watershed Snowpack Analysis - May 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
HUNTINGTON NORTH	4.2	4.1	4.2	3.9	PRICE RIVER	3	93	163
JOE'S VALLEY	61.6	45.0	30.8	46.8	SAN RAFAEL RIVER	3	74	117
KEN'S LAKE	2.3	1.8	1.3	---	MUDDY CREEK	1	66	129
MILL SITE	16.7	13.0	7.7	6.3	FREMONT RIVER	3	16	40
SCOFIELD	65.8	22.6	23.6	36.6	LASAL MOUNTAINS	1	28	44
					BLUE MOUNTAINS	1	0	0
					WILLOW CREEK	1	0	0
					CARBON, EMERY, WAYNE, GRA	13	60	112

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

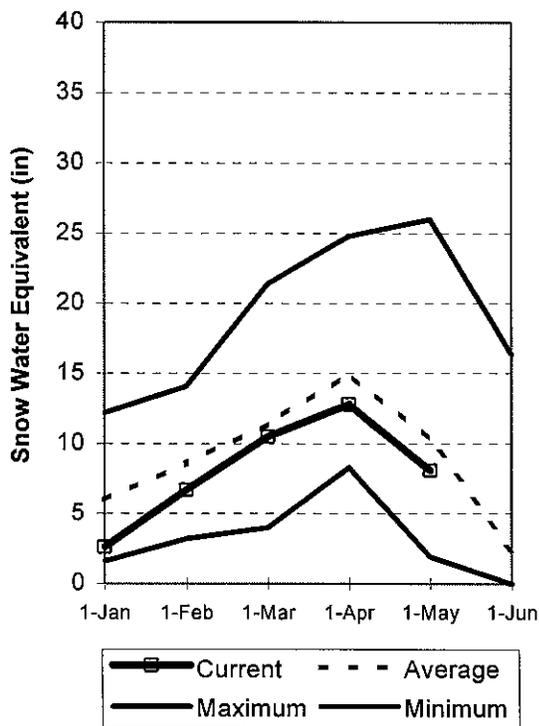
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Sevier and Beaver River Basins

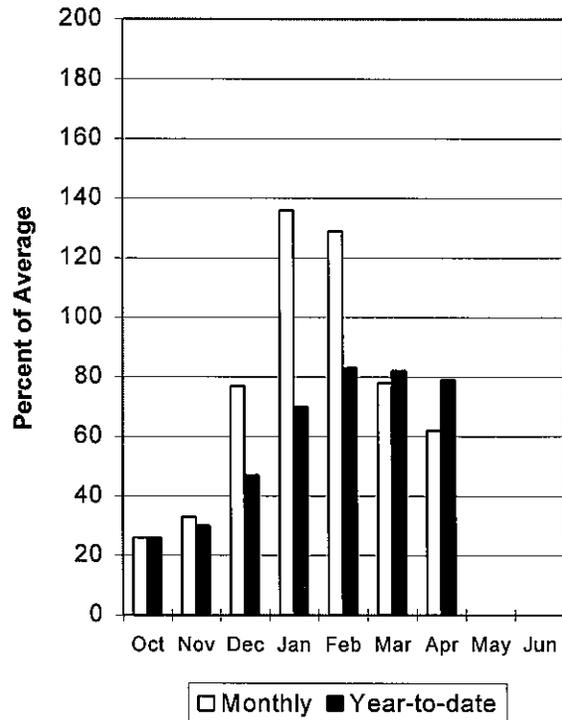
May 1, 1996

Snowpacks on the Sevier River Basin are at 78% of average. The northern part of the basin has higher figures (101%) than the southern end which is near 49% of normal. Individual sites range from 0% to 166% of average. Precipitation during April was 62% of normal, bringing the seasonal accumulation (Oct-Apr) to 79% of average. Reservoir storage is in excellent condition. General water supply conditions are below to near average and streamflows will be below average with smaller peaks and shorter durations.

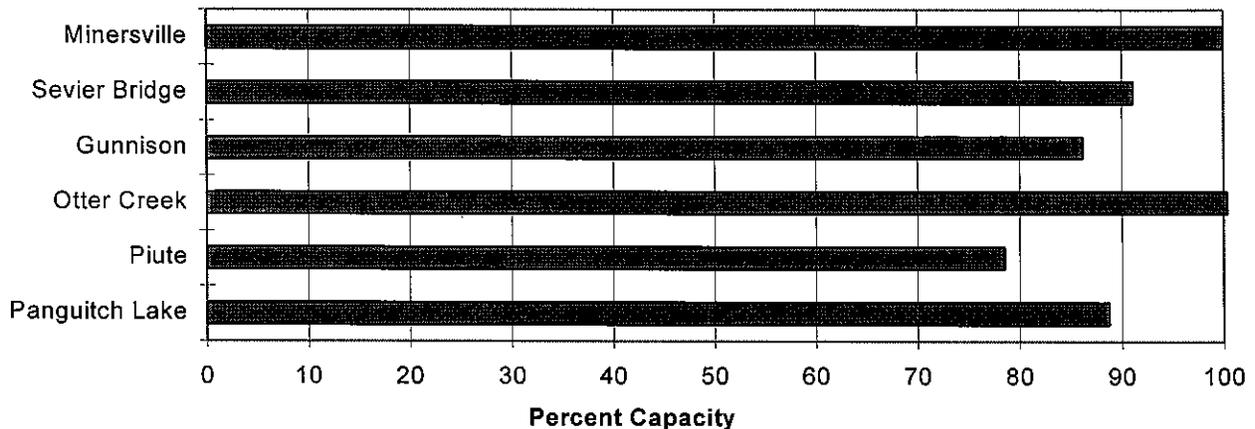
Mountain Snowpack



Precipitation



Reservoir Storage



SEVIER & BEAVER RIVER BASINS
Streamflow Forecasts - May 1, 1996

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<==== Drier =====>>		=====> Wetter <====>		Chance Of Exceeding *		
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
SEVIER R at Hatch	APR-JUL	14.0	24	30	56	36	46	54
SEVIER R nr Circleville	APR-JUL	21	36	45	60	54	69	75
SEVIER R nr Kingston	APR-JUL	19.1	36	46	55	56	73	83
ANTIMONY CK nr Antimony	APR-JUL	1.63	2.76	3.40	46	4.04	5.25	7.40
E F SEVIER R nr Kingston	APR-JUL	4.8	7.6	15.0	50	22	35	30
SEVIER R blw Piute Dam	APR-JUL	8.0		63	55		118	115
CLEAR CK nr Sevier	APR-JUL	5.3	9.5	12.0	57	14.5	18.3	21
SALINA CK at Salina	APR-JUL	0.5	3.6	10.0	57	16.4	30	17.6
PLEASANT CK nr Pleasant	APR-JUL	6.03	7.01	7.50	88	7.99	9.01	8.50
EPHRAIM CK nr Ephraim	APR-JUL	6.4	8.7	10.0	79	11.3	13.6	12.6
SEVIER R nr Gunnison	APR-JUL	65		135	57		342	239
CHICKEN CK nr Levan	APR-JUL	1.62	2.44	3.00	64	3.56	4.42	4.70
OAK CK nr Oak City	APR-JUL	0.05	0.62	1.10	65	1.58	2.29	1.70
BEAVER R nr Beaver	APR-JUL	6.0	13.1	18.0	69	23	30	26
MINERSVILLE RESEROIR inflow	APR-JUL	2.5	7.5	11.0	66	14.5	19.5	16.7

SEVIER & BEAVER RIVER BASINS
Reservoir Storage (1000 AF) - End of April

SEVIER & BEAVER RIVER BASINS
Watershed Snowpack Analysis - May 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
GUNNISON	20.3	17.5	12.7	14.9	UPPER SEVIER RIVER (south	7	24	49
MINERSVILLE (RkyFd)	23.3	23.3	12.8	14.6	EAST FORK SEVIER RIVER	2	21	43
OTTER CREEK	52.5	52.7	50.8	39.5	SOUTH FORK SEVIER RIVER	5	26	51
PIUTE	71.8	56.4	68.9	44.7	LOWER SEVIER RIVER (inclu	6	77	101
SEVIER BRIDGE	236.0	215.1	129.4	136.0	BEAVER RIVER	2	57	85
PANGUITCH LAKE	22.3	19.8	15.9	---	SEVIER & BEAVER RIVER BAS	15	49	78

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

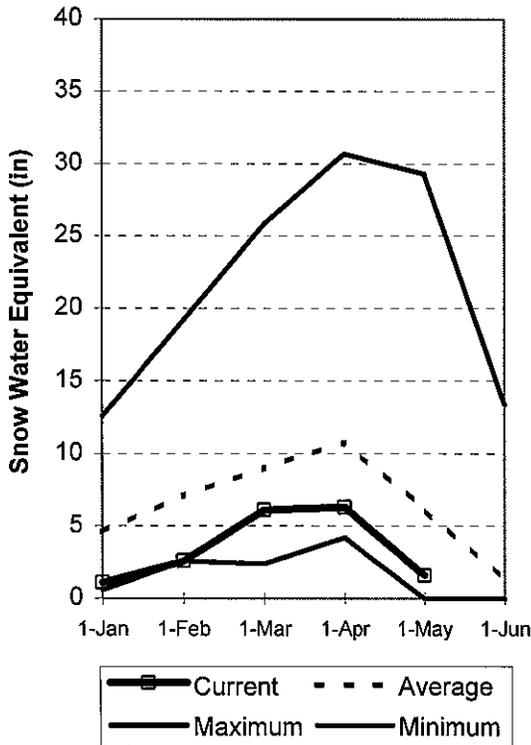
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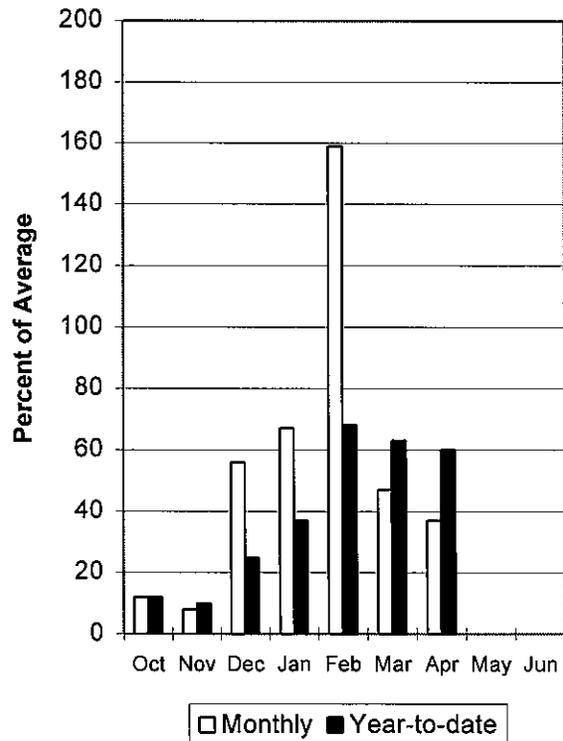
E. Garfield, Kane, Washington, & Iron co. May 1, 1996

Snowpacks in this region are much below normal at 26% of average, about 1/10 of last year. There are only two sites with any snow remaining, Midway Valley and Kolob, and these sites will melt out very quickly. Precipitation during April was much below average at 37%, bringing the seasonal accumulation (Oct-Apr) to 60% of normal. There has been only one month of above average precipitation all year. Reservoir storage is in excellent condition. Extremely dry conditions exist throughout the region and may persist throughout the year.

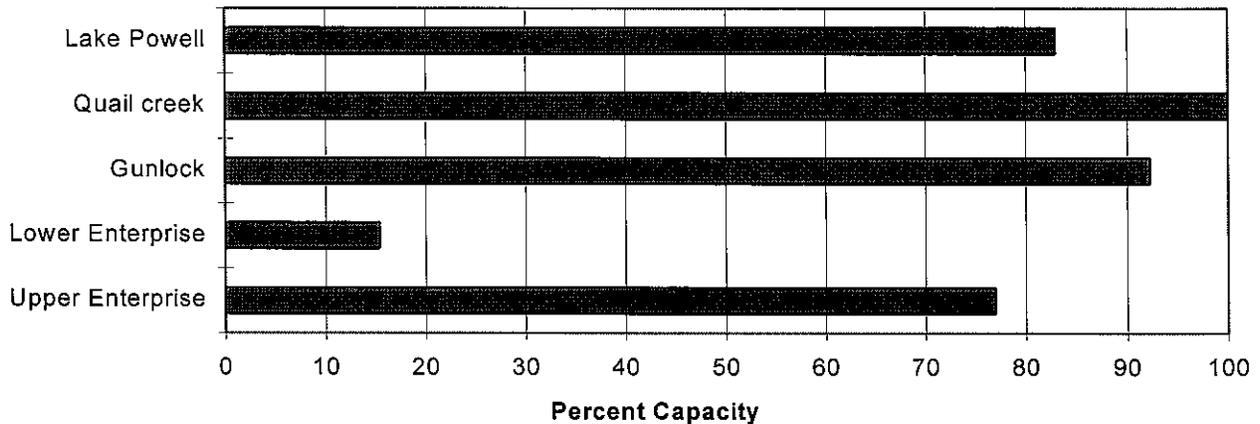
Mountain Snowpack



Precipitation



Reservoir Storage



E. GARFIELD, KANE, WASHINGTON, & IRON Co.
Streamflow Forecasts - May 1, 1996

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
COAL CK nr Cedar City	APR-JUL	2.1	7.1	10.0	53	12.9	17.9	18.8
LAKE POWELL INFLOW	APR-JUL	6807		8800	114		10752	7735
VIRGIN R nr Hurricane	APR-JUL	7.9		18	23		30	79
SANTA CLARA R nr Pine Valley	APR-JUL	0.32		.90	17		3.02	5.30

E. GARFIELD, KANE, WASHINGTON, & IRON Co.
Reservoir Storage (1000 AF) - End of April

E. GARFIELD, KANE, WASHINGTON, & IRON Co.
Watershed Snowpack Analysis - May 1, 1996

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
GUNLOCK	10.4	9.6	10.4	---	VIRGIN RIVER	5	14	33
LAKE POWELL	24322.0	20186.0	16786.0	---	PAROWAN	2	17	38
QUAIL CREEK	40.0	40.0	40.0	---	ENTERPRISE TO NEW HARMONY	2	0	0
UPPER ENTERPRISE	10.0	7.7	10.0	---	COAL CREEK	2	16	41
LOWER ENTERPRISE	2.6	0.4	2.6	---	ESCALANTE RIVER	2	0	0
					E. GARFIELD, KANE, WASHIN	9	11	26

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

SNOW COURSE DATA
FOR THE STATE OF UTAH
AS OF MAY 1, 1996

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST AVERAGE YEAR	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST AVERAGE YEAR
AGUA CANYON SNOTEL	8900	5/01	-	0.0S	5.8	DRY BREAD POND SNOTEL	8350	5/01	-	18.6S	17.0
ALTA CENTRAL	8800	5/02	102	46.2	48.4	DRY FORK SNOTEL	7160	5/01	-	12.7S	14.3
ASHLEY TWIN LAKES	10500				28.0	EAST SHINGLE LAKE	9800				35.5
BEAVER DAMS SNOTEL	8000	5/01	-	0.0S	0.0	EAST WILLOW CREEK SN	8250	5/01	-	0.0S	0.3
BEAVER DIVIDE SNOTL	8280	5/01	-	7.2S	1.7	FARMINGTON CANYON L.	6950	4/28	59	25.6	27.6
BEN LOMOND PK SNOTL	8000	5/01	-	36.5S	43.3	FARMINGTON CN SNOTEL	8000	5/01	-	35.8S	40.9
BEN LOMOND TR SNOTL	6000	5/01	-	3.3S	0.0	FARNSWORTH LK SNOTEL	9600	5/01	-	18.6S	28.1
BEVAN'S CABIN	6450	4/28	13	4.0	5.3	FISH LAKE	8700	4/26	0	0.0	6.8
BIG FLAT SNOTEL	10290	5/01	-	17.2S	26.8	FIVE POINTS LAKE SNO	10920	5/01	-	21.6S	26.9
BIRCH CROSSING	8100	5/01	0	0.0	0.0	FRANCES FLATS	6700	4/30	31	14.9	12.0
BLACK FLAT-U.M. CK S	9400	5/01	-	6.8S	14.5	G.B.R.C. HEADQUARTER	8700	4/26	30	12.0	16.3
BLACK'S FORK GS-EF	9340	4/28	32	10.0	12.0	G.B.R.C. MEADOWS	10000	4/26	68	29.2	28.7
BLACK'S FORK JUNCTN	8930	4/28	31	10.2	8.6	GARDEN CITY SUMMIT	7600	4/28	36	13.8	12.8
BOX CREEK SNOTEL	9800	5/01	-	7.5S	15.9	GEORGE CREEK	8840				-
BRIAN HEAD	10000	4/26	31	12.8	33.5	GOOSEBERRY R.S.	8400	4/26	18	6.4	12.3
BRIGHTON CABIN	8700	5/02	77	33.8	36.4	GOOSEBERRY R.S. SNOT	7900	5/01	-	0.0S	0.0
BRIGHTON SNOTEL	8750	5/01	-	29.9S	30.8	HARDSCRABBLE SNOTEL	7250	5/01	-	11.6S	6.2
BROWN DUCK SNOTEL	10600	5/01	-	21.2S	28.1	HARRIS FLAT SNOTEL	7700	5/01	-	0.0S	0.0
BRYCE CANYON	8000	5/01	0	0.0	0.0	HAYDEN FORK SNOTEL	9100	5/01	-	21.6S	19.3
BUCK FLAT SNOTEL	9800	5/01	-	20.4S	22.0	HENRY'S FORK	10000	4/28	55	18.0	16.5
BUCK PASTURE	9700	4/28	63	19.9	23.8	HEWINTA SNOTEL	9500	5/01	-	12.6S	13.2
BUCKBOARD FLAT	9000				11.6	HICKERSON PARK SNOTE	9100	5/01	-	0.0S	5.3
BUG LAKE SNOTEL	7950	5/01	-	24.1S	20.5	HIDDEN SPRINGS	5500	4/30	0	0.0	0.0
BURT'S-MILLER RANCH	7900	4/28	0	0.0	0.0	HOBBLE CREEK SUMMIT	7420	4/27	26	11.5	3.7
CAMP JACKSON SNOTEL	8600	5/01	-	0.0S	10.6	HOLE-IN-ROCK SNOTEL	9150	5/01	-	3.6S	9.3
CASTLE VALLEY SNOTL	9580	5/01	-	0.0S	17.9	HORSE RIDGE SNOTEL	8260	5/01	-	25.5S	17.6
CHALK CK #1 SNOTEL	9100	5/01	-	30.6S	29.1	HUNTINGTON-HORSESHOE	9800	4/26	62	26.4	28.2
CHALK CK #2 SNOTEL	8200	5/01	-	16.1S	15.1	INDIAN CANYON SNOTEL	9100	5/01	-	7.0S	12.8
CHALK CREEK #3	7500	4/28	4	1.3	0.0	JOHNSON VALLEY	8850	4/26	3	1.2	7.1
CHEPETA SNOTEL	10300	5/01	-	9.6S	23.7	KILFOIL CREEK	7300	4/28	40	15.5	10.0
CITY CREEK	7500	4/30	67	30.1	26.7	KILLYON CANYON	6300	4/29	0	0.0	0.0
CLEAR CK RIDG #1 SNT	9200	5/01	-	21.1S	23.8	KIMBERLY MINE SNOTEL	9300	5/01	-	10.6S	22.0
CLEAR CK RIDG #2 SNT	8000	5/01	-	10.4S	11.8	KING'S CABIN SNOTEL	8730	5/01	-	1.5S	12.2
CLEAR CREEK RIDGE #3	6600				0.0	KLONDIKE NARROWS	7400	4/28	38	17.0	11.2
COLD WATER SPRINGS	6030				-	KOLOB SNOTEL	9250	5/01	-	4.2S	40.8
CORRAL	8200				-	LAKEFORK #1 SNOTEL	10100	5/01	-	12.8S	23.8
CURRENT CREEK SNOTEL	8000	5/01	-	4.8S	4.4	LAKEFORK BASIN SNOTE	10900	5/01	-	29.6S	27.6
DANIELS-STRAWBERRY S	8000	5/01	-	16.5S	12.3	LAKEFORK MOUNTAIN #3	8400	4/28	0	0.0	0.0
DESERET PEAK	9250				-	LAMBS CANYON	7400	5/01	26	11.5	10.9
DESERET PEAK AM	9250				25.0	LASAL MOUNTAIN LOWER	8800	4/30	0	0.0	10.6
DESERET PEAK SNOTEL	9250	5/01	-	21.4S	28.9	LASAL MOUNTAIN SNOTE	9850	5/01	-	3.5S	12.6
DILL'S CAMP SNOTEL	9200	5/01	-	11.5S	17.4	LILY LAKE SNOTEL	9050	5/01	-	14.9S	14.3
DONKEY RESERVOIR SNO	9800	5/01	-	0.0S	9.2	LITTLE BEAR LOWER	6000	4/28	0	0.0	0.0

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90
LITTLE BEAR SNOTEL	6550	5/01	-	0.0S	0.0	2.4	THISILE FLAT	8500					
LITTLE GRASSY SNOTEL	6100	5/01	-	0.0S	0.0	.0	TIMBERLINE	9100					
LONG FLAT SNOTEL	8000	5/01	-	0.0S	0.0	2.0	TIMPANOGOS DIVIDE SN	8140	5/01	-	17.4S	25.1	16.8
LONG VALLEY JCT. SNT	7500	5/01	-	0.0S	0.0	.0	TONY GROVE LK SNOTEL	8400	5/01	-	41.9S	33.5	30.5
LOOKOUT PEAK SNOTEL	8200	5/01	-	31.7S	32.6	10.0	TONY GROVE R.S.	6250	4/28	6	2.1	0.4	3.2
LOST CREEK RESERVOIR	6130	4/28	0	0.0	0.0	0.0	TRIAL LAKE	9960	4/28	80	30.7	27.7	25.7
MAMMOTH-COTTONWD SNT	8800	5/01	-	20.6S	20.7	12.4	TRIAL LAKE SNOTEL	9960	5/01	-	36.3S	29.9	24.0
MERCHANT VALLEY SNOT	8750	5/01	-	5.7S	13.2	6.7	TROUT CREEK SNOTEL	9400	5/01	-	4.0S	12.5	7.0
MIDDLE CANYON	7000	4/28	16	5.8	6.1	8.5	UPPER JOES VALLEY	8900	4/26	22	9.0	6.9	5.7
MIDWAY VALLEY SNOTEL	9800	5/01	-	10.2S	40.6	20.0	VERNON CREEK SNOTEL	7500	5/01	-	0.0S	3.7	4.6
MILL CREEK	6950	5/01	54	23.8	22.0	18.8	VIPONT	7670					
MILL-D NORTH SNOTEL	8960	5/01	-	28.3S	29.7	13.2	WEBSTER FLAT SNOTEL	9200	5/01	-	0.0S	21.8	5.1
MILL-D SOUTH FORK	7400	4/29	48	20.8	16.0	13.4	WHITE RIVER #1 SNOTE	8550	5/01	-	11.6S	12.7	6.2
MINING FORK SNOTEL	8000	5/01	58	19.7S	24.7	13.1	WHITE RIVER #3	7400	4/27	0	0.0	0.0	0.6
MONTE CRISTO SNOTEL	8960	5/01	-	39.7S	38.2	26.2	WIDTSONE #3 SNOTEL	9500	5/01	-	0.0S	19.3	8.7
MOSBY MTN. SNOTEL	9500	5/01	-	6.4S	23.6	10.4	WRIGLEY CREEK	9000	4/26	22	9.1	10.9	8.0
MT. BALDY R.S.	9500	4/26	63	25.8	26.9	25.2	YANKEE RESERVOIR	8700	4/26	6	2.3	13.0	6.6
MUD CREEK #2	8600	4/26	39	16.7	11.9	8.2	NOTE:						
OAK CREEK	7760	4/26	22	7.6	13.9	9.0	The S flag following Water Content for SNOTEL sites indicates telemetered data. The Depth reading preceding S flagged data was measured around the snow pillows at the time of the ground survey and may not be the same date as the telemetered value.						
PANQUITCH LAKE	8200	4/26	0	0.0	2.8	1.1							
PARLEY'S CANYON SNOT	7500	5/01	-	12.0S	9.8	8.5							
PARLEY'S CANYON SUM.	7500	5/01	46	19.8	17.6	12.8							
PAYSON R.S. SNOTEL	8050	5/01	-	12.7S	18.0	11.6							
PICKLE KEG SNOTEL	9600	5/01	-	12.6S	16.7	14.0							
PINE CREEK SNOTEL	8800	5/01	42	18.2S	25.6	13.0							
RED PINE RIDGE SNOTE	9200	5/01	-	15.3S	19.3	12.2							
REDDEN MINE LOWER	8500	4/28	48	19.5	20.2	16.5							
REES'S FLAT	7300	4/26	13	6.5	7.1	7.8							
ROCK CREEK SNOTEL	7900	5/01	-	1.8S	1.1	1.1							
ROCKY BN-SETTLEMT SN	8900	5/01	-	17.9S	37.3	21.0							
SBELEY CREEK SNOTEL	10000	5/01	-	12.5S	23.5	15.1							
SILVER LAKE(BRIGHT.)	8730	5/02	69	35.2	34.1	26.8							
SMITH MOREHOUSE SNTL	7600	5/01	-	14.6S	8.0	6.1							
SNOWBIRD SNOTEL	9700	5/01	-	50.2S	54.9	30.0							
SPIRIT LAKE	10300	4/28	37	9.3	19.1	15.3							
SQUAW SPRINGS	9300	4/26	2	0.5	5.6	4.1							
STEEL CREEK PARK SNO	10100	5/01	-	22.9S	22.6	18.9							
STILLWATER CAMP	8550	4/28	31	11.5	7.6	7.5							
STRAWBERRY DIVIDE SN	8400	5/01	-	17.2S	13.7	11.5							
STUART R.S.	7950				0.0	1.9							
SUSC RANCH	8200	5/01	0	0.0	3.5	2.6							
TAIL POLES	8800	5/01	0	0.0	21.7	11.9							
THAYNES CANYON SNOTL	9200	5/01	-	32.5S	34.2	12.0							

Issued by

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