

STATE OF UTAH GENERAL OUTLOOK

JANUARY 1, 1990

SUMMARY

The first three months of the young 1990 water year show no signs of reversing the much below normal precipitation pattern Utah and much of the rest of the West have been experiencing. Each month has produced below normal receipts in the rain bucket. January 1 snowpack is much below normal. Reservoir storage is below normal and projections for next spring and summer are for much below normal flows. The only bright point is that it is only January and normally more than half of our snowfall comes after the first of the year.

SNOWPACK

Snowpack on the watersheds of Utah is much below normal from one end of the State to the other. The north is in much better shape than the south, however. Snow water content as of January 1 ranges from sixty-three percent of average on the Uintas to 10% on the watersheds of southwestern Utah. The Statewide comparison is 49% of normal. The first of April is generally considered the time of maximum snowpack accumulation each year. In order to reach normal snow water content by April 1 the snowpack would have to increase from 29 to 59% more than usual during the next three months. Given the dry scenario of recent years a turnaround of such magnitude doesn't seem likely.

PRECIPITATION

The 1990 water year thus far has been characterized by below normal mountain precipitation every month (October through December). December received the least precipitation of the three months with as little as 5% of normal rainfall recorded in southwestern Utah. Seasonal totals range from 60% of normal on the Uintas to 35% of normal on southwestern watersheds.

Reports from National Weather Service stations indicate similar rainfall totals. Northern Utah sites received below to much below normal rainfall in December with most percentages in the single digits or teens. In southern Utah many stations received no precipitation during December and the average was only 9%. Seasonal precipitation at valley stations averages about 50% in the north for the first three months of the water year. Southern Utah has received about 39% of normal so far compared to 50 to 80% at this time last year.

RESERVOIRS

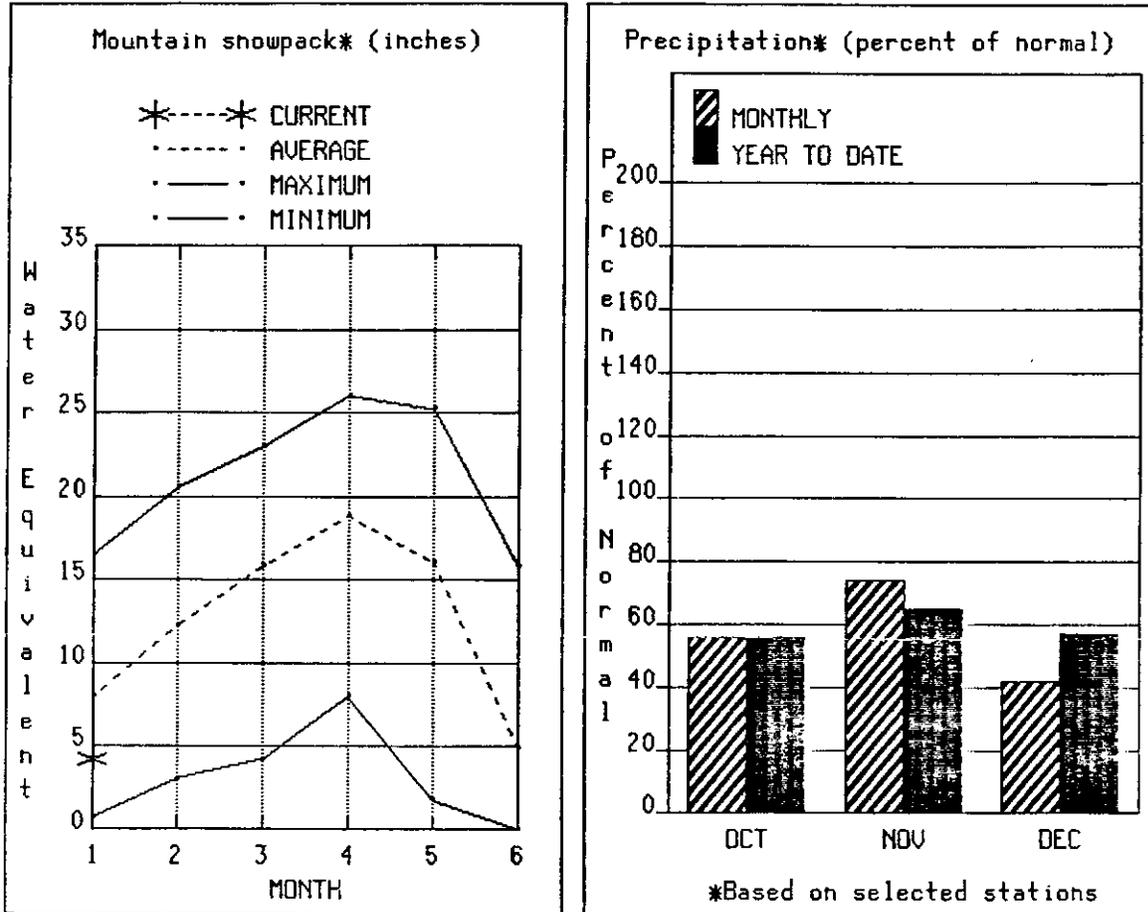
Twenty-six of the key irrigation reservoirs in the State contain 84% of average water supplies for the end of December. Reserves at the end of December are usually 63% of capacity. This year we have 53% of capacity filled. Last year storage was 59% of capacity by this time. Low projections for spring and summer runoff have prompted most reservoir operators to reduce releases to minimum levels. If the dry trend continues poor runoff volumes will prevent many of the reservoirs from filling this season.

STREAMFLOW

Projections of spring and summer streamflow for next season range from 27% of average on Salina Creek to 78% on the Bear near UT-WY stateline. Forecasts generally decrease from north to south. Between January first and the first of April approximately 60% of the total seasonal accumulation of snow falls in a normal year. The forecasts may improve somewhat by the first of April if abundant rainfall is forthcoming. If, however, much below normal rainfall continues streamflows will be even lower than now forecast.

BEAR RIVER BASIN

January 1, 1990



Water equivalent in the Bear River watershed snowpack is only slightly more than one-half of normal for the first of January. This is 59% of last year. Mountain precipitation has been below average each month so far this water year. Total accumulation for the water year (October 1 through December 31) is 57% of normal. Stored water reserves are only 72% of average in area reservoirs. Streams are forecast to flow at 50 to 78% of average next spring and summer provided precipitation and temperature are normal from now through the end of July. If below normal precipitation persists, streamflow will be even less.

BEAR RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	←----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
BEAR RIVER near UT-WY Stateline	APR-JUL	42	71	90	78	109	138	116
BEAR near Woodruff	APR-JUL	20	58	100	67	144	210	150
WOODRUFF CREEK near Woodruff	APR-JUL	4.4	8.3	11.0	64	13.7	17.6	17.3
BIG CREEK near Randolph	APR-JUL	0.6	1.9	3.5	66	5.1	7.4	5.3
BEAR near Randolph	APR-JUL	10.0	20	65	52	110	176	126
SMITHS FORK near Border	APR-SEP	17.0	47	82	67	126	190	123
THOMAS FORK near Stateline	APR-SEP	3.0	13.0	24	65	37	57	37
BEAR RIVER near Harer	APR-SEP	38	128	190	61	250	340	310
BEAR RIVER blw Stewart Dam	APR-SEP	27	100	150	50	200	275	298
CUB RIVER near Preston	APR-JUL	11.0	24	33	71	42	55	47
LITTLE BEAR RIVER near Paradise	APR-JUL	6.0	16.0	30	66	44	65	46
LOGAN RIVER near Logan	APR-JUL	40	67	85	70	103	130	122
BLACKSMITH FORK near Hyrum	APR-JUL	11.0	26	40	71	54	76	57

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
BEAR LAKE	1421.0	715.4	797.5	992.6	BEAR RIVER, UPPER IN UTAH	6	69	59
HYRUM	15.3	10.1	9.4	10.0	BEAR RIVER, LOWER IN UTAH	9	47	44
PORCUPINE	11.3	3.2	4.5	2.8	BEAR RIVER DRAINAGE IN UT	14	53	49
WOODRUFF NARROWS	55.8	3.5	9.4	---	BEAR RIVER, UPPER (above	11	75	63
WOODRUFF CREEK		NO REPORT			BEAR RIVER, LOWER (below	11	50	45
					BEAR RIVER DRAINAGE	20	59	54
					LOGAN RIVER	5	52	47
					RAFT RIVER	1	33	51
					BEAR RIVER BASIN	23	59	53

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

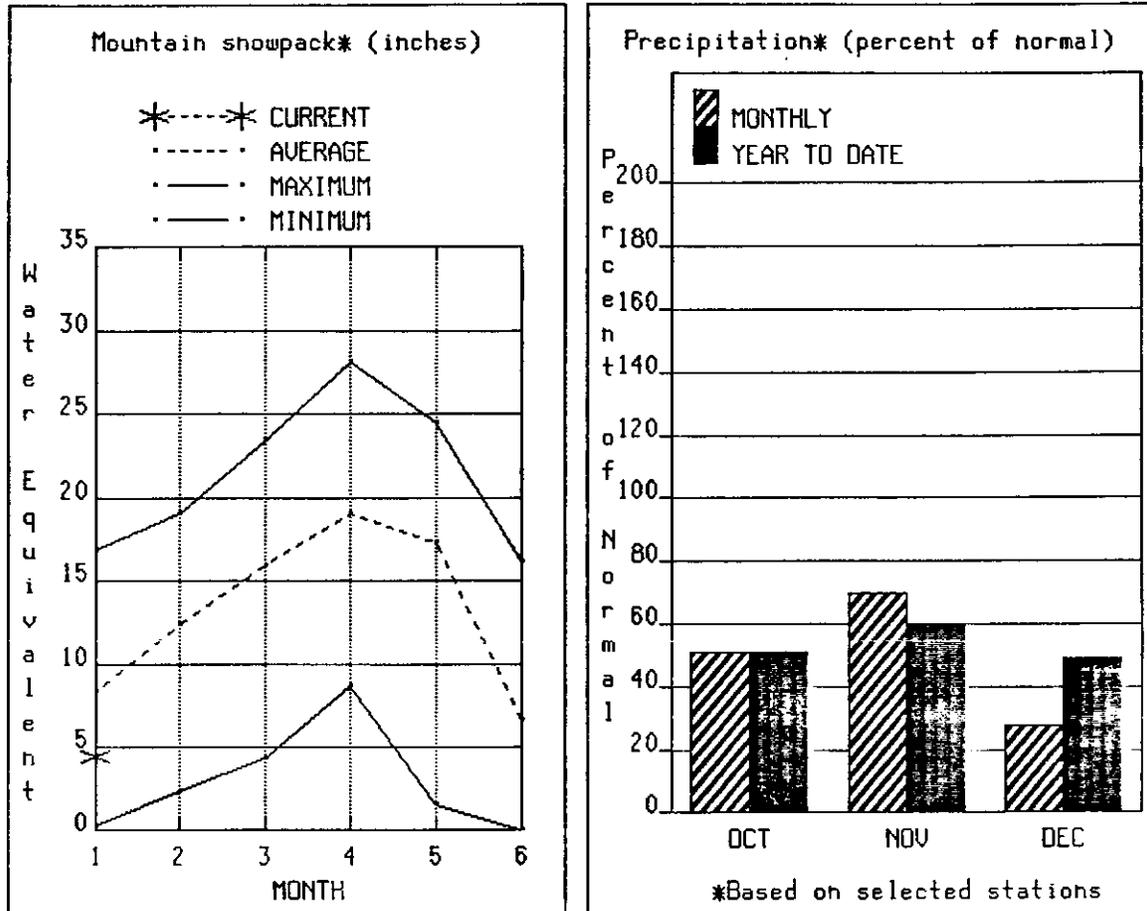
The average is computed for the 1961-1985 base period.

(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 WATERSHEDS in Utah

January 1, 1990



The Weber River watershed has 53% of normal water content as of January first. This is less than half the water content of one year ago. The snowpack would have to increase more than one-third more than usual in the next three months in order to reach normal by the first of April. December precipitation at mountain stations was 28% of normal bringing seasonal (October 1 through December 31) totals to only 49% of average (54% of last year). Weber Basin reservoirs currently have 62% of their cumulative capacity filled. This is 13% more than last year and 108% of average. Forecasts of spring and summer streamflow average about 65% and range from 55 to 76% of normal. If drier than normal conditions persist forecasts will be lower next month.

WEBER & OGDEN WATERSHEDS in Utah

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						
		← DRIER		FUTURE CONDITIONS			→ WETTER →	
		90% (1000AF)	70% (1000AF)	CHANCE OF EXCEEDING * 50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	25 YR. (1000AF)
SMITH AND MOOREHOUSE CREEK near Oakl	APR-JUN	9.0	17.0	23	76	29	37	30
WEBER RIVER near Oakley	APR-JUN	31	60	80	75	100	129	107
ROCKPORT RESERVOIR inflow	APR-JUN	12.0	49	80	67	111	156	120
CHALK CREEK near Coalville	APR-JUN	6.0	14.0	23	56	32	46	41
WEBER RIVER near Coalville	APR-JUN	13.0	55	84	66	113	155	127
ECHO RESERVOIR inflow	APR-JUN	14.0	68	105	64	142	196	163
LOST CREEK near Croyden	APR-JUN	1.7	4.8	10.1	65	15.4	23	15.6
EAST CANYON CREEK near Morgan	APR-JUN	1.0	8.0	16.0	55	24	36	29
HARDSCRABBLE CREEK near Porterville	APR-JUN	3.2	7.8	12.5	68	19.8	31	18.4
WEBER RIVER at Gateway	APR-JUN	23	122	190	58	260	360	328
SOUTH FORK OGDEN RIVER near Huntsvil	APR-JUN	10.0	27	38	66	50	66	58
PINEVIEW RESERVOIR inflow	APR-JUN	27	58	79	65	100	131	122
WHEELER CREEK near Huntsville	APR-JUN	1.3	2.9	4.0	63	5.1	6.7	6.3
FARMINGTON CREEK near Farmington	APR-JUL	1.6	3.3	5.2	63	8.5	13.3	8.2

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
CAUSEY	7.1	1.6	2.5	2.1	OGDEN RIVER	4	34	45
EAST CANYON	48.1	32.2	27.5	33.3	WEBER RIVER	14	47	56
ECHO	73.9	29.8	42.0	41.4	WEBER & OGDEN WATERSHEDS	18	44	53
LOST CREEK	22.5	14.4	12.0	12.7				
PINEVIEW	110.1	59.7	30.2	50.0				
ROCKPORT	60.9	39.5	20.1	34.1				
WILLARD BAY	165.5	123.4	103.8	104.9				

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

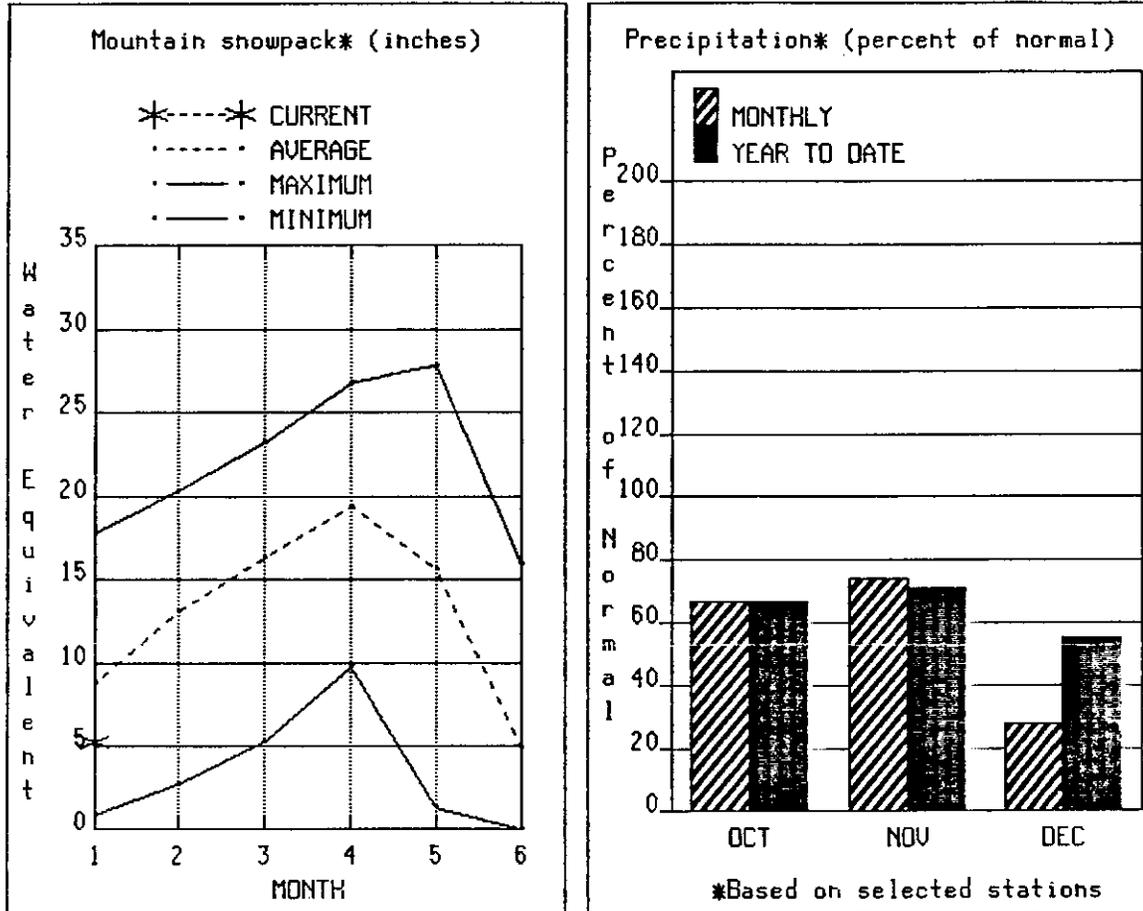
The average is computed for the 1961-1965 base period.

(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

January 1, 1990



The snowpack along the Wasatch Front from Little Cottonwood on the south to City Creek on the north has 67% of normal water content for the first of January. The watershed draining into Utah Lake has only 50%, however. Overall, the Utah Lake, Jordan River and Tooele Valley area has only 60% of normal snow water. This situation is the result of below normal mountain precipitation every month this water year. October 1 through December 31 precipitation was 55% of normal which is 59% of last year. Reservoir storage is sixteen percent below average (58% of capacity). Water supply forecasts for the coming season range from 33 to 73% of average given normal precipitation from now through the end of July. If the dry trend continues forecasts will drop lower.

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						
		← DRIER		FUTURE CONDITIONS			→ WETTER →	
		90% (1000AF)	70% (1000AF)	CHANCE OF EXCEEDING * 50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	25 YR. (1000AF)
SALT CREEK near Nephi	APR-JUL	1.9	5.3	9.0	67	15.9	26	13.5
PAYSON CREEK near Payson	APR-JUL			4.5	62			7.3
SPANISH FORK near Castilla	APR-JUL			35	44			80
HOBBLE CREEK near Springville	APR-JUL			10.0	43			23
PROVO near Hailstone	APR-JUL	20	56	80	71	104	140	113
PROVO below Deer Creek Dam	APR-JUL	8.0	54	85	64	116	162	133
AMERICAN FORK near American Fk.	APR-JUL	11.0	18.0	22	65	26	33	34
UTAH LAKE inflow	APR-JUL	30	71	150	51	230	345	295
LITTLE COTTONWOOD CRK near SLC	APR-JUL	18.0	25	30	73	35	42	41
BIG COTTONWOOD CRK near SLC	APR-JUL	19.0	24	28	72	32	37	39
PARLEY'S CREEK near SLC	APR-JUL	1.7	6.6	10.0	59	13.4	18.3	17.0
MILL CREEK near SLC	APR-JUL	0.3	0.9	2.5	36	4.1	6.5	6.9
EMIGRATION CREEK near SLC	APR-JUL			2.0	43			4.6
CITY CREEK near SLC	APR-JUL	0.4	1.7	3.0	33	4.3	6.3	9.0
VERNON CREEK near Vernon	APR-JUN	0.1	0.4	0.8	67	1.2	1.8	1.2
SETTLEMENT CREEK near Tooele	APR-JUL	0.2	0.7	1.5	65	2.3	3.4	2.3
SOUTH WILLOW CREEK near Grantsville	APR-JUL	0.4	1.0	2.0	67	3.0	4.5	3.0

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
DEER CREEK	149.6	93.0	81.7	93.5	PROVO RIVER & UTAH LAKE	9	52	50
GRANTSVILLE	3.3	1.0	1.3	---	PROVO RIVER	4	57	50
SETTLEMENT CREEK	1.0	0.7	0.4	0.6	JORDAN RIVER & GREAT SALT	15	58	67
STRAWBERRY-ENLARGED	951.4	348.2	403.2	---	TOOELE VALLEY WATERSHEDS	2	33	23
UTAH LAKE	855.5	493.0	550.0	601.6	UTAH LAKE, JORDAN RIVER &	26	55	60
VERNON CREEK	0.6	0.3	0.8	0.4				

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

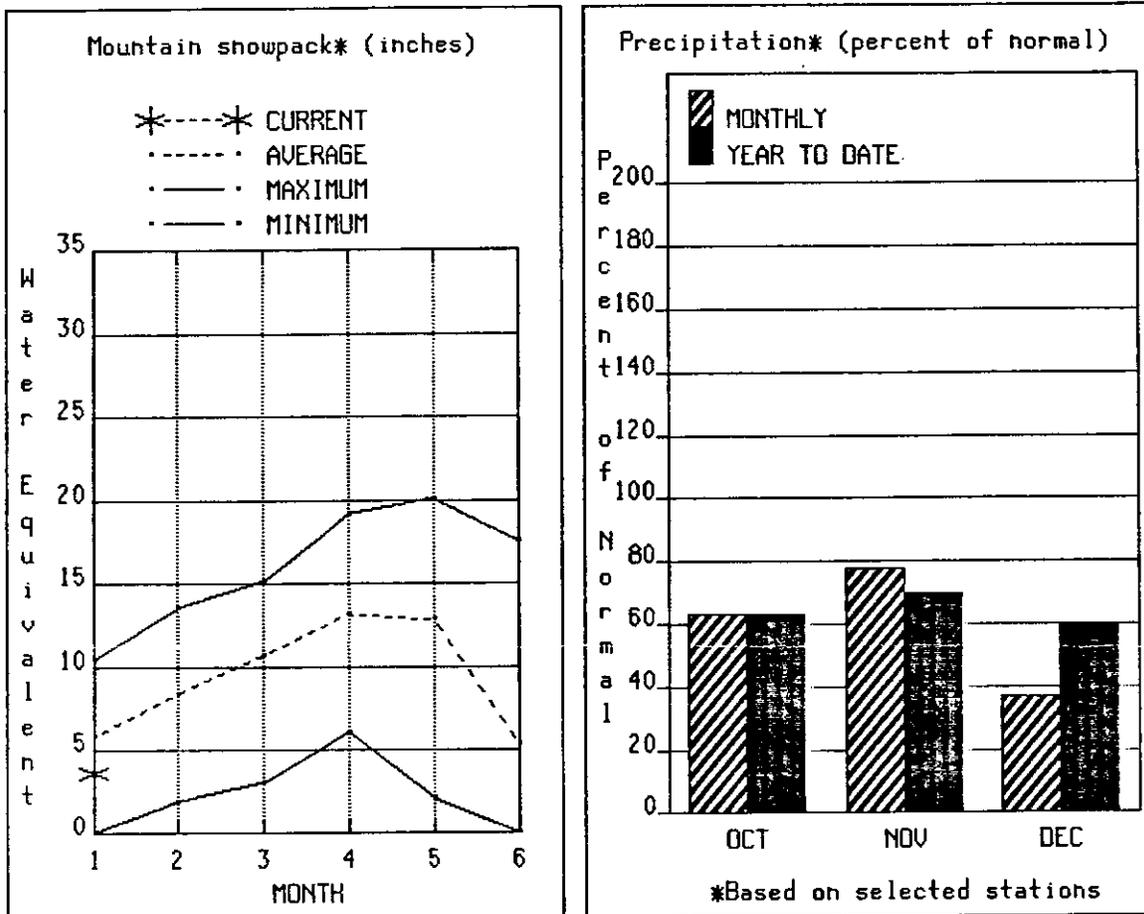
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UINTAH BASIN & DAGGET SCD'S

January 1, 1990



The Uinta Mountains have 63% of normal snow water content for January 1. Individual watersheds range from 38% of average on the Strawberry River to 78% on Black's Fork. Overall, the snowpack is 65% of last year. Mountain precipitation has been below average every month so far this water year leaving seasonal (October 1 through December 31) accumulation at only 60% of average. Reservoir storage as of the end of December was only half of capacity. Last year the same reservoirs were nearly three-quarters full. This level of storage is 14% below average. Forecasts of streamflow for next season range from 52 to 72% of average with normal precipitation. Continued dry weather will reduce the forecasts.

UINTAH BASIN & DAGGET SCD'S

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		← DRIER		FUTURE CONDITIONS		← WETTER →		
		90% (1000AF)	70% (1000AF)	CHANCE OF EXCEEDING * 50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
BLACK'S FORK nr Millburne	APR-JUL	29	50	65	68	80	101	96
EF SMITHS FORK inf to State Line Res	APR-JUL	9.0	16.0	20	67	25	32	30
HENRY'S FORK nr Manila	APR-JUL	11.0	22	29	64	36	47	45
GREEN RIVER nr Greendale 2	APR-JUL	435	680	650	67	1020	1270	1267
BIG BRUSH CREEK ab Red Fleet Res	APR-JUL	8.0	11.6	14.0	71	16.4	20	19.8
ASHLEY CREEK nr Vernal 2	APR-JUL	16.0	26	32	62	38	48	52
WEST FORK DUCHESNE RIVER nr Hanna	APR-JUL	11.0	16.0	19.0	68	22	28	28
DUCHESNE RIVER nr Tabiona	APR-JUL	42	60	73	66	86	104	110
ROCK CREEK nr Mountain Home	APR-JUL	36	53	65	68	77	94	95
DUCHESNE RIVER abv Knight Diversion	APR-JUL	72	107	131	69	155	190	190
STRAWBERRY RIVER nr Soldier Springs	APR-JUL	22	35	44	67	53	66	66
CURRENT CREEK nr Fruitland 2	APR-JUL	7.0	11.0	14.0	59	16.0	20	23
STRAWBERRY RIVER nr Duchesne (natural)	APR-JUL	34	56	71	59	86	108	121
STRAWBERRY RIVER inflow to Starvation	APR-JUL	20	32	40	60	48	60	67
LAKEFORK RIVER blw Moon Lake 2	APR-JUL	29	42	51	72	60	73	71
YELLOWSTONE RIVER nr Altonah	APR-JUL	18.0	34	45	68	56	73	66
DUCHESNE RIVER at Myton 2	APR-JUL	63	90	143	52	197	275	275
UINTA RIVER nr Neola	APR-JUL	24	46	61	69	76	98	88
WHITEROCKS RIVER nr Whiterocks	APR-JUL	17.0	32	42	70	52	67	60
DUCHESNE RIVER nr Randlett	APR-JUL	75	126	176	52	275	425	340

RESERVOIR	RESERVOIR STORAGE (1000AF)				WATERSHED	NO. COURSES AVG'D	WATERSHED SNOWPACK ANALYSIS	
	USEABLE CAPACITY	** USEABLE STORAGE THIS YEAR	LAST YEAR	** AVG.			LAST YR.	THIS YEAR AS % OF AVERAGE
FLAMING GORGE	3749.0	2944.4	2959.0	---	UPPER GREEN RIVER in UTAH	9	65	67
MOON LAKE	35.8	11.7	6.5	13.6	ASHLEY CREEK	2	54	51
RED FLEET	26.0	12.3	18.8	---	BLACK'S FORK RIVER	3	77	78
STEINAKER	33.3	4.0	14.7	18.2	SHEEP CREEK	2	50	57
STARVATION	165.3	101.9	149.1	105.2	DUCHESNE RIVER	11	64	60
STRAWBERRY-ENLARGED	951.4	348.2	403.2	---	LAKE FORK-YELLOWSTONE CRE	5	79	72
					STRAWBERRY RIVER	3	39	38
					UINTAH-WHITEROCKS RIVERS	2	74	65
					UINTAH BASIN & DAGGET SCD	20	65	63

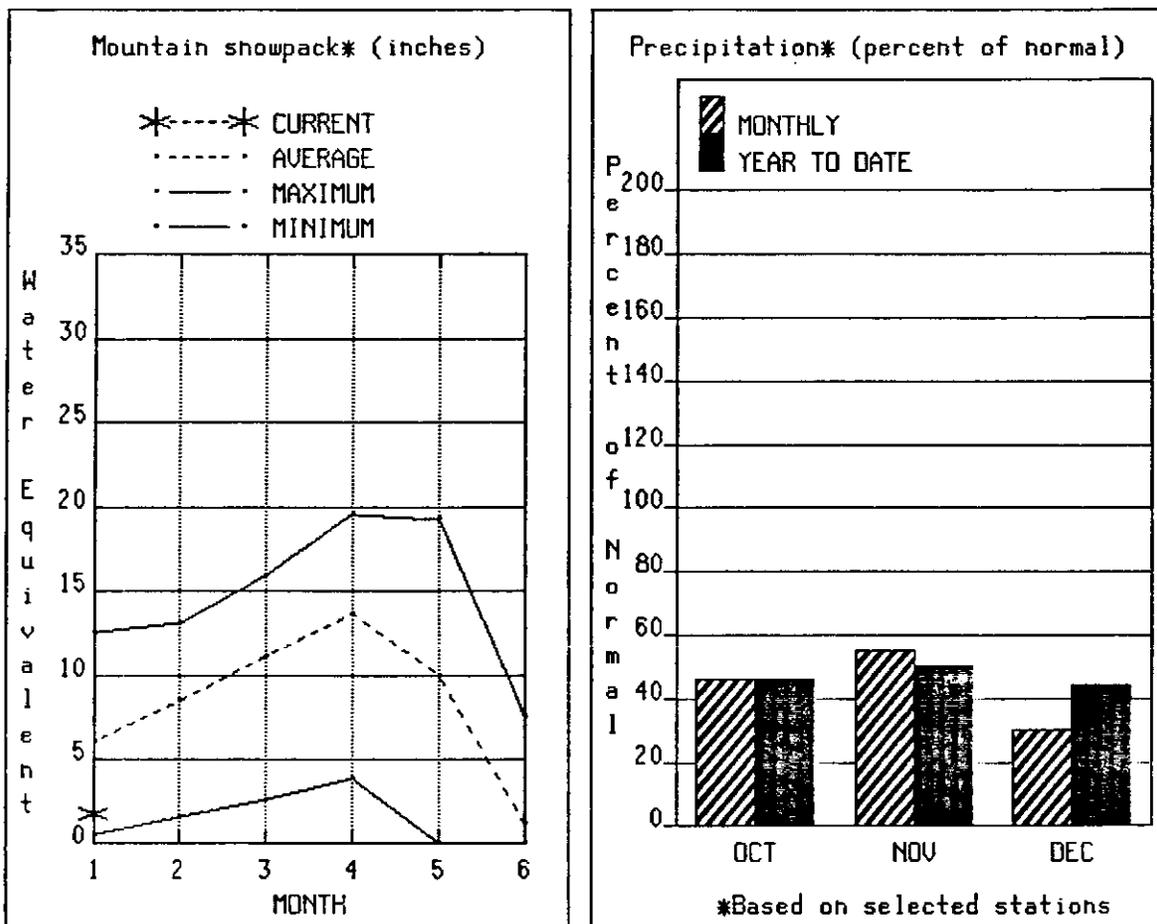
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The average is computed for the 1961-1985 base period.

- (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.

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN CO

January 1, 1990



The snowpack in southeastern Utah is 30% of average overall but varies from 2% of average on the Blues and La Sals to 64% on Muddy Creek. Snow water content would have to increase 57% more than usual for the next three months in southeastern Utah in order to reach normal April 1 levels. December was the third consecutive month of below normal precipitation this water year with only 30% of average during the month. Seasonal (October 1 through December 31) accumulation is 56% below normal. Stored water reserves in area reservoirs are 31% below average at 37% of capacity (17% less than last year at this time). Forecasts based on January 1 snowpack and normal precipitation through July average 62% and range from 47 to 71% for next spring and summer streamflows.

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

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	←----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						
		90% (1000AF)		70% (1000AF)		50% (MOST PROBABLE) (1000AF) (% AVG.)		25 YR. (1000AF)
		CHANCE OF EXCEEDING *		30% (1000AF)		10% (1000AF)		
GOOSEBERRY CREEK nr Scofield	APR-JUL	2.3	5.6	7.9	66	10.2	13.5	12.0
SCOFIELD RESERVOIR inflow	APR-JUL	11.0	21	28	61	35	45	46
PRICE RIVER nr Heiner 2	APR-JUL	15.0	29	38	64	47	61	59
GREEN RIVER at Green River, UT 2	APR-JUL	1030	1730	2200	69	2670	3370	3182
HUNTINGTON CREEK inf to Electric Lak	APR-JUL	4.0	7.6	10.0	66	12.4	16.0	15.1
HUNTINGTON CREEK nr Huntington 2	APR-JUL	15.0	28	37	67	46	59	55
COTTONWOOD CREEK nr Orangeville 2	APR-JUL	14.0	25	32	68	39	50	47
FERRON CREEK nr Ferron	APR-JUL	8.0	19.0	26	63	33	44	41
COLORADO nr Cisco, UT 2	APR-JUL	675	1730	2450	71	3170	4230	3443
MILL CREEK nr Moab	APR-JUL	1.0	1.9	2.6	47	4.0	5.2	5.5
SEVEN MILE CREEK nr Fish Lake	APR-JUL	1.3	2.3	3.2	49	4.8	6.3	6.5
MUDDY CREEK nr Emery	APR-JUL	4.0	7.0	13.0	60	15.0	20	21
SAN JUAN nr Bluff, UT 2	APR-JUL	240	335	600	55	865	1250	1091

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
HUNTINGTON NORTH	3.9	1.7	2.2	2.0	PRICE RIVER	3	45	43
JOE'S VALLEY	61.6	34.4	39.8	42.7	SAN RAFAEL RIVER	7	47	50
KEN'S LAKE	2.3	0.2	0.0	—	MUDDY CREEK	1	63	64
MILL SITE	16.7	6.9	9.2	3.0	FREMONT RIVER	5	27	22
SCOFIELD	65.8	11.2	28.7	30.3	LASAL MOUNTAINS	2	2	2
					BLUE MOUNTAINS	2	2	2
					WILLOW CREEK - WHITE RIVE	2	18	11
					CARBON, EMERY, WAYNE, GRA	22	35	30

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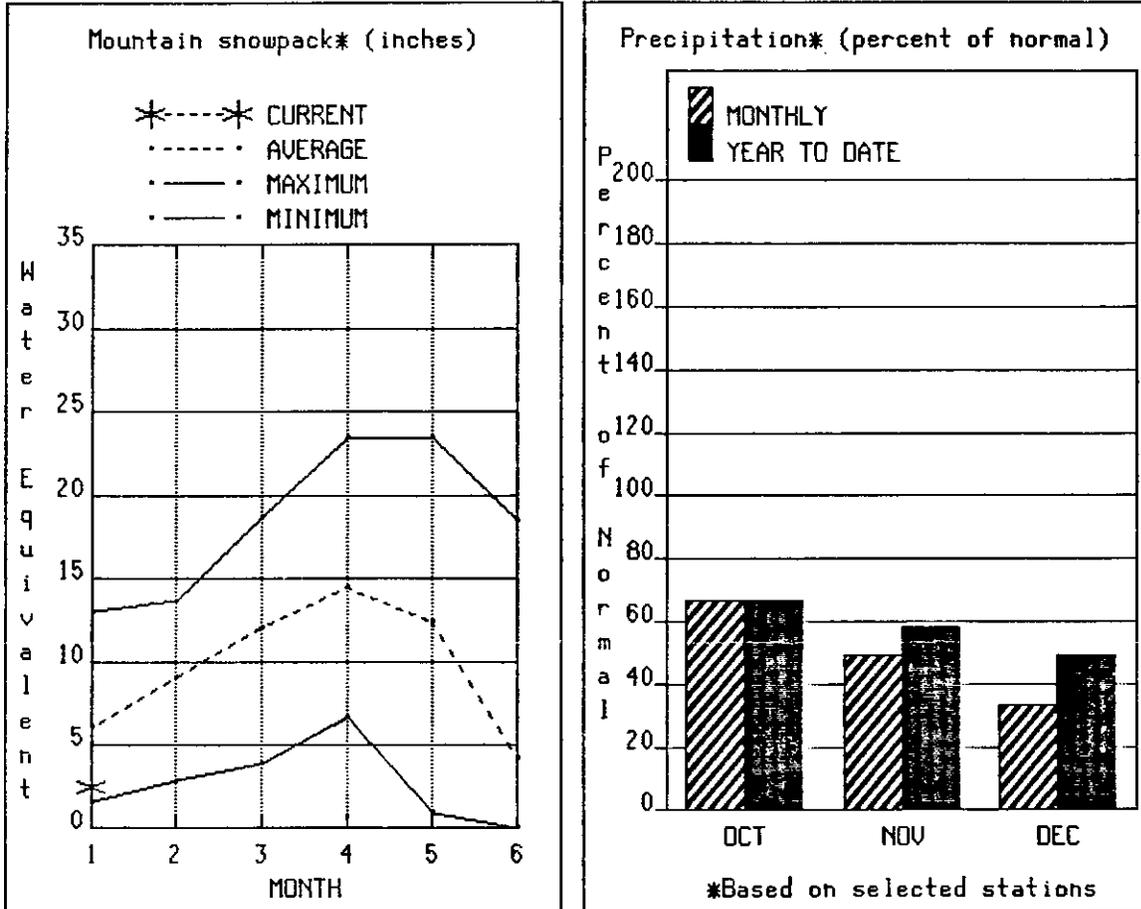
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(2) - The value is natural flow - actual flow may be affected by upstream water management.

SEVIER & BEAVER RIVER BASINS

January 1, 1990



The Sevier River watershed has 41% of the snow water content it should have as of the first of January. This is also 41% of last year. The snowpack would have to increase 44% more than usual from January 1 through March 31 in order to reach normal by the first of April. Precipitation at mountain stations since the beginning of the water year has been 49% of normal with all three months below average. The reservoirs in the Sevier Basin would normally be holding 39% of their cumulative capacity by the end of December, this year they are 45% full. Last year they were 67% of capacity. Streamflow forecasts range from 27 to 71% of average across the basin and average 55%. Should below average precipitation persist future forecasts will be even lower.

SEVIER & BEAVER RIVER BASINS

STREAMFLOW FORECASTS								
FORECAST POINT	FORECAST PERIOD	← DRIER		FUTURE CONDITIONS		← WETTER →		25 YR. (1000AF)
		CHANCE OF EXCEEDING *		CHANCE OF EXCEEDING *		CHANCE OF EXCEEDING *		
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
SEVIER at Hatch	APR-JUL	3.0	6.0	20	38	34	54	52
SEVIER near Circleville	APR-JUL			30	68			44
SEVIER near Kingston	APR-JUL	3.0	7.0	15.0	44	33	61	34
ANTIMONY CREEK near Antimony	APR-JUL			5.0	56			8.9
E F SEVIER near Kingston	APR-JUL	2.0	5.0	10.0	42	20	34	24
SEVIER blw Piute Dam	APR-JUL	6.0	11.0	30	54	58	98	56
CLEAR CREEK near Sevier	APR-JUL			12.0	55			22
SIGURD to GUNNISON	APR-JUL	4.0	9.0	25	57	49	85	44
KINGSTON to VERMILLION DAM	APR-JUL			10.0	53			18.9
VERMILLION DAM to GUNNISON	APR-JUN			20	50			40
SALINA CREEK at Salina	APR-JUN			5.0	27			18.2
PLEASANT CREEK near Pleasant	APR-JUL			6.5	57			11.5
EPHRAIM CREEK near Ephraim	APR-JUL			13.0	52			25
SEVIER nr Gunnison	APR-JUL			45	45			99
CHICKEN CREEK near Levan	APR-JUL	0.5	1.5	2.2	63	2.9	3.9	3.5
OAK CREEK near Oak City	APR-JUL	0.1	0.5	1.0	62	1.8	3.0	1.6
CHALK CREEK near Fillmore	APR-JUL	2.3	5.8	11.0	67	16.2	24	16.4
BEAVER RIVER near Beaver	APR-JUL	2.0	8.0	17.0	63	26	40	27
NORTH CREEK near Beaver (combined)	APR-JUL	1.3	4.9	10.0	68	17.5	29	14.6
MINERSVILLE RESERVOIR inflow	APR-JUN	2.0	4.4	10.1	71	15.8	24	14.3

RESERVOIR	RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS			
	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
	THIS YEAR	LAST YEAR	AVG.	LAST YR.			AVERAGE	
GUNNISON	20.3	2.5	6.1	9.5	UPPER SEVIER RIVER (south	10	23	20
MINERSVILLE (RkyFd)	26.0	6.9	15.1	9.3	EAST FORK SEVIER RIVER	4	26	23
OTTER CREEK	52.7	14.5	44.6	23.8	SOUTH FORK SEVIER RIVER	6	21	18
PIUTE	71.8	38.0	48.2	29.3	LOWER SEVIER RIVER (inclu	12	51	52
SEVIER BRIDGE	236.0	122.2	157.5	87.0	BEAVER RIVER	2	28	34
PANQUITCH LAKE	22.3	4.5	16.8	—	SEVIER & BEAVER RIVER BAS	24	41	41

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

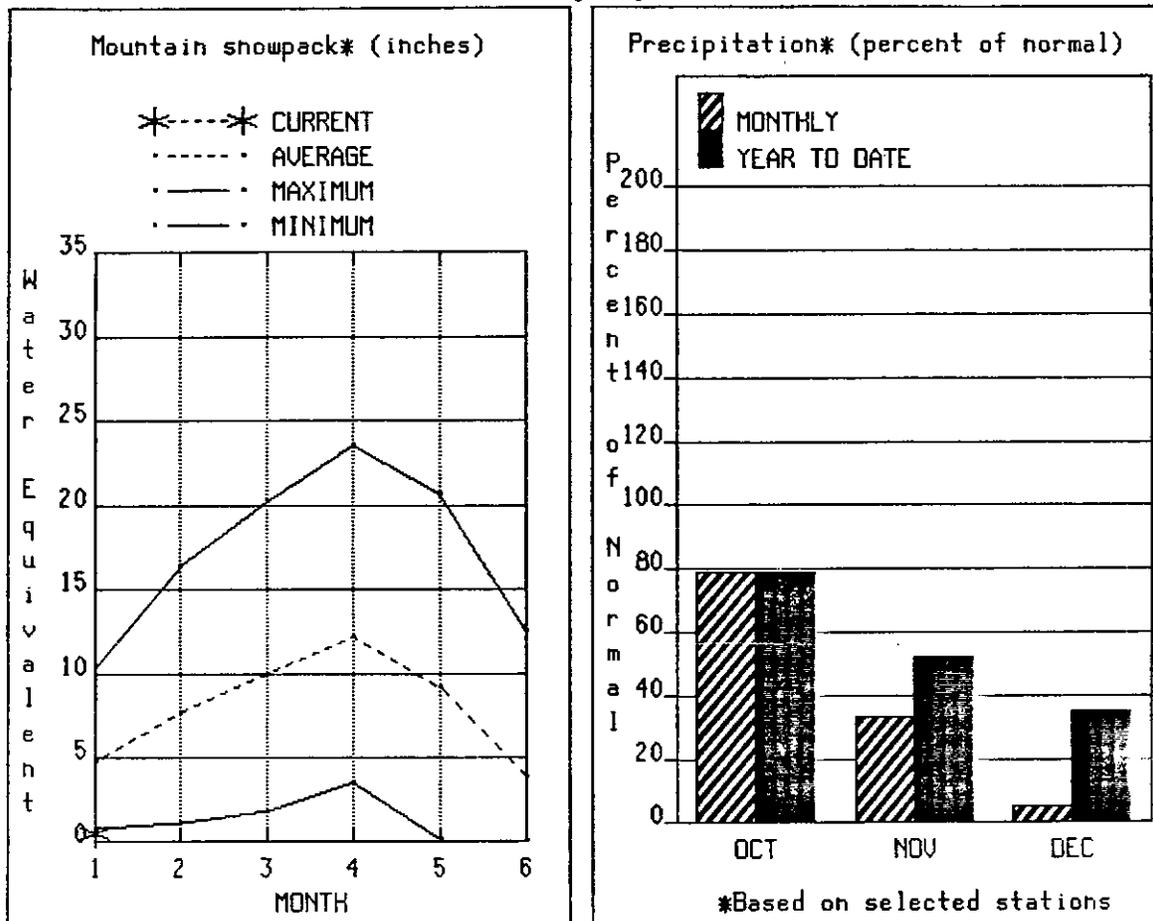
The average is computed for the 1961-1985 base period.

(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

January 1, 1990



Snowpack on the watersheds of southwestern Utah is at record low levels. More than one-fourth of the snow courses measured on the January first survey were bare. None of the snow courses had more than one-fifth normal water content. Taken as a whole, the snowpack was only 10% of average which is 13% of last year. December rainfall was 5% of normal. Rainfall accumulation for the water year is 35% of average. Gunlock Reservoir is 45% full and the Enterprise Reservoirs are only holding about 3% of their combined capacity. Quail Creek is under reconstruction. Stream-flow forecasts based on January 1 data and normal subsequent precipitation range from 45 to 60% of average. Below normal precipitation in the future will further reduce projected flows.

E. GARFIELD, KANE, WASHINGTON, & IRON Co.

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						
		← DRIER		50% (MOST PROBABLE)		→ WETTER →		
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	CHANCE OF EXCEEDING * (% AVG.)	30% (1000AF)	10% (1000AF)	25 YR. (1000AF)
COAL CREEK near Cedar City	APR-JUL	3.6	5.7	9.0	45	12.3	17.2	20
COLORADO RIVER inf to Lake Powell 2	APR-JUL	2770	3400	4800	59	6200	8250	8086
VIRGIN near Hurricane	APR-JUN	14.0	20	35	51	50	72	68
SANTA CLARA near Pine Valley	APR-JUN	1.0	1.4	3.0	60	3.7	5.3	5.0

RESERVOIR	RESERVOIR STORAGE (1000AF)				WATERSHED	WATERSHED SNOWPACK ANALYSIS		
	USEABLE : CAPACITY :	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.		NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR.	AVERAGE
GUNLOCK	10.4	4.7	8.0	---	VIRGIN RIVER	5	15	12
LAKE POWELL	25002.0	18892.0	21880.0	---	PAROWAN	4	17	13
QUAIL CREEK	NO REPORT				ENTERPRISE TO NEW HARMONY	2	4	4
UPPER ENTERPRISE	10.0	0.2	0.5	---	COAL CREEK	3	15	11
LOWER ENTERPRISE	2.6	0.2	0.1	---	ESCALANTE RIVER	2	2	1
					E. GARFIELD, KANE, WASHIN	14	13	10

* 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 1961-1965 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
 JANUARY 1, 1990
 FOR UTAH

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
ALTA CENTRAL	8800	01/03	42	13.4	20.3	17.5	G.B.R.C. MEADOWS	10000	12/28	24	6.1	8.9	9.9
ASHLEY TWIN LAKES	10500					7.5	GARDEN CITY SUMMIT	7600	12/26	12	1.9	4.9	7.6
BEAVER DIVIDE SNOTL	8280	01/01	13	2.25	4.4	5.8	GEORGE CREEK	8840					8.8
BEAVER DAMS	8000	12/27	11	2.1	5.4	4.8	GOOSEBERRY R.S.	8000	12/27	12	2.9	6.1	5.3
BEAVER DAMS SNOTEL	8000	01/01		2.35	4.3	4.8	GOOSEBERRY R.S. SNOT	8000	01/01		2.05	4.4	4.7
BEN LOMOND PK SNOTL	8000	01/01	26	5.85	21.1	14.4	HARDSCRABBLE	6700	12/27	18	4.9	13.0	9.3
BEN LOMOND TR SNOTL	6000	01/01	14	2.35	15.1	8.6	HARRIS FLAT	7700	12/27	1	0.3	3.0	3.4
BEVAN'S CABIN	6450					2.6	HARRIS FLAT SNOTEL	7700	01/01		0.05	2.2	3.1
BIG FLAT SNOTEL	10290	01/01	13	2.85	6.6	6.3	HAYDEN FORK	9400	12/28	19	4.2	4.7	6.2
BIRCH CROSSING	8100	12/29	3	0.2	3.4	3.5	HAYDEN FORK SNOTEL	9100	01/01		4.75	7.7	7.5
BLACK FLAT-U.M. CK S	9400	01/01	10	1.65	3.6	4.3	HENRY'S FORK	10000					6.5
BLACK'S FORK GS-EF	9340	12/28	17	3.5	4.2	3.7	HEWINTA SNOTEL	9500	01/01	17	3.45	3.9	3.8
BLACK'S FORK JUNCTN	8930	12/28	15	3.1	5.4	3.9	HICKERSON PARK SNOTE	9100	01/01	9	1.45	3.8	3.8
BOX CREEK SNOTEL	9300	01/01	12	2.35	5.4	5.5	HIDDEN SPRINGS	5500	01/03	11	2.0	5.4	4.1
BRIAN HEAD	10000	12/26	8	1.5	5.8	9.1	HOLE-IN-ROCK SNOTEL	9150	01/01	12	1.85	2.9	2.8
BRIGHTON SNOTEL	8750	01/01	30	8.65	13.0	15.4	HOBBLE CREEK SUMMIT	7420	12/28	14	3.0	6.9	6.9
BRIGHTON CABIN	8700	01/02	32	9.5	14.1	12.9	HORSE RIDGE SNOTEL	8260	01/01	19	3.05	11.1	10.4
BROWN DUCK SNOTEL	10600	01/01		4.55	6.2	8.3	HUNTINGTON-HORSESHOE	9800	12/28	19	5.8	10.7	10.2
BRYCE CANYON	8000	12/28	0	0.0	1.5	2.1	INDIAN CANYON SNOTEL	9100	01/01	11	1.95	4.2	5.5
BUCK FLAT SNOTEL	9800	01/01	13	2.95	8.2	6.8	JOHNSON VALLEY	8850	12/27	7	1.2	3.9	3.3
BUCK PASTURE	9700					9.0	KILFOIL CREEK	7300	12/26	19	3.9	7.1	6.0
BUCKBOARD FLAT	9000	01/02	2	0.2	5.0	6.5	KILLION CANYON	6300	01/03	12	3.0	8.5	5.4
BUG LAKE SNOTEL	7950	01/01	20	5.05	6.0	9.6	KIMBERLY MINE SNOTEL	9300	01/01	12	3.05	5.5	4.3
BURT'S-MILLER RANCH	7900	12/27	9	1.6	2.5	2.4	KING'S CABIN SNOTEL	8730	01/01	14	2.95	5.0	5.8
CAMP JACKSON	8600	01/02	0	0.0	4.9	6.7	KLONDIKE NARROWS	7400	12/26	18	3.7	7.5	8.2
CAMP JACKSON SNOTEL	8600	01/01		0.05	4.9	6.7	KOLOB SNOTEL	9250	01/01		1.05	6.0	7.0
CASTLE VALLEY	9580	12/26	5	0.7	4.6	6.1	LAKEFORK BASIN SNOTE	10900	01/01		6.75	8.0	7.4
CASTLE VALLEY SNOTL	9580	01/01		0.45	4.4	5.4	LAKEFORK #1 SNOTEL	10100	01/01	15	3.85	5.3	6.1
CHALK CK #1 SNOTEL	9100	01/01	28	6.45	11.6	10.5	LAKEFORK MOUNTAIN #3	8400	12/27	6	1.1	2.7	3.1
CHALK CK #2 SNOTEL	8200	01/01	21	5.15	7.9	6.7	LAMBS CANYON	7400	01/02	34	6.3	10.4	7.3
CHALK CREEK #3	7500	12/27	10	1.3	3.7	3.6	LASAL MOUNTAIN LOWER	8800	01/02	0	0.0	3.5	4.5
CHEPETA SNOTEL	10300	01/01		5.05	6.2	5.2	LASAL MOUNTAIN SNOTE	9850	01/01	1	0.25	5.0	6.5
CITY CREEK	7500	01/03	28	7.8	16.6	13.0	LIGHTNING LAKE SNOTE	10500	01/01			8.2	12.2
CLEAR CREEK MEADOWS	9420	1/01		4.8E	14.7	9.5	LILY LAKE SNOTEL	9050	01/01	23	4.15	4.6	7.9
CLEAR CK RIDG #1 SNT	9200	01/01	16	4.45	9.0	9.1	LITTLE BEAR SNOTEL	6550	01/01	11	1.85	9.3	6.5
CLEAR CK RIDG #2 SNT	8000	01/01	16	3.15	6.6	7.0	LITTLE GRASSY CREEK	6100	12/27	1	0.2	2.5	1.0
CLEAR CREEK RIDGE #3	6600	12/28	10	2.0	5.0	3.8	LITTLE GRASSY SNOTEL	6100	01/01		0.05	2.5	1.0
CURRENT CREEK SNOTEL	8000	01/01	10	1.85	5.2	4.9	LONG FLAT SNOTEL	8000	01/01	0	0.05	2.3	3.6
DANTELS-STRABERRY S	8000	01/01	17	2.95	7.5	6.9	LONG VALLEY JCT. SNT	7500	12/27	0	0.0	2.8	2.3
DESERET PEAK	9250					12.2	LONG VALLEY JCT. SNT	7500	01/01		0.05	3.0	2.3
DESERET PEAK AM	9250					12.2	LOOKOUT PEAK SNOTEL	8200	01/01	26	6.95	13.6	10.8
DESERET PEAK SNOTEL	9250	01/01		4.35	8.5	12.2	LOST CREEK RESERVOIR	6130	12/26	8	1.1	3.0	2.3
DILL'S CAMP SNOTEL	9200	01/01	12	3.75	5.9	5.8	MAMMOTH-COTTONWOOD	8800	12/28	19	4.6	9.7	9.0
DONKEY RESERVOIR SNO	9800	01/01	4	0.15	2.5	3.3	MAMMOTH-COTTONWOOD SNT	8800	01/01		4.25	7.8	7.2
DRY BREAD POND	8350	12/26	18	4.4	6.8	8.5	MERCHANT VALLEY SNOT	8750	01/01	10	1.45	6.6	5.9
DRY BREAD POND SNOTL	8350	01/01		5.05	16.8	11.4	MIDDLE CANYON	7000					6.1
DUCK CREEK R.S.	8700				5.2	5.5	MIDWAY VALLEY	9800	12/26	5	1.0	5.8	9.0
EAST SHINGLE LAKE	9800					13.3	MIDWAY VALLEY SNOTEL	9800	01/01		3.05	5.8	9.2
EAST WILLOW CREEK SN	8250	01/01		1.55	3.2	5.7	MILL CREEK	6950	01/03	37	6.9	11.6	9.8
FARMINGTON CN SNOTEL	8000	01/01	27	6.75	19.9	12.9	MILL-D SOUTH FORK	7400	01/02	37	8.0	10.2	8.6
FARMINGTON CANYON L.	6950	12/27	24	6.0	15.3	10.4	MILL-D NORTH SNOTEL	8960	01/01	23	6.35	13.9	12.4
FARNSWORTH LAKE	9600	12/27	18	4.5	8.5	8.3	MINING FORK SNOTEL	8000	01/01		3.45	8.0	11.8
FARNSWORTH LK SNOTEL	9600	01/01		3.95	7.7	7.9	MONTE CRISTO R.S.	8960	12/26	22	6.0	11.2	9.6
FIVE POINTS LAKE SNO	10920	01/01	7	1.5	3.3	3.9	MONTE CRISTO SNOTEL	8960	01/01		4.35	14.6	11.2
FRANCES FLATS	6700	01/03	22	6.3	13.5	10.1	MOSSY MTN. SNOTEL	9500	01/01	16	2.45	3.8	6.2
G.B.R.C. HEADQUARTER	8700	12/28	18	4.7	7.1	7.3	MT. BALDY R.S.	9500	12/27	21	4.8	10.2	10.0
							MUD CREEK #2	8600	12/26	14	2.6	5.7	6.0

SNOW COUN	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE YEAR 1961-85
ONE MILE SUMMIT	7760	12/26	16	3.2	5.5	6.1
PANQUITCH LAKE	8200	12/26	0	0.0	-	1.5
PARLEY'S CANYON SUM.	7500	01/02	28	5.8	11.6	2.4
PARLEY'S CANYON SNOT	7500	01/01	-	3.85	10.6	8.3
PAYSON R.S.	8050	12/26	19	4.9	8.9	8.3
PAYSON R.S. SNOTEL	8050	01/01	-	3.55	7.8	10.6
PICKLE KEG SPRING	9600	12/27	14	2.6	6.9	7.0
PICKLE KEG SNOTEL	9600	01/01	-	3.05	6.7	6.9
PINE CREEK	8800	12/26	14	3.2	7.9	7.7
PINE CREEK SNOTEL	8800	01/01	-	5.15	9.8	-
REDDEN HINE LOWER	8500	12/28	20	4.7	6.5	8.6
RED PINE RIDGE SNOTE	9200	01/01	19	3.75	8.0	8.2
REES'S FLAT	7300	12/26	19	4.4	6.4	6.6
ROCK CREEK SNOTEL	7900	01/01	9	1.85	4.3	4.4
ROCKY BASIN-SETTLEM	8900					13.7
ROCKY BR-SETTLEM SN	8900	01/01	-	6.45	9.3	11.3
SEELEY CREEK SNOTEL	10000	01/01	11	3.15	5.8	6.0
SHINGLE MILL	6200	09/28	7	1.6	5.6	4.0
SILVER LAKE (BRIGHT.)	8730	01/02	36	8.0	12.0	10.9
SMITH MOREHOUSE SNTL	7600	01/01	18	4.15	6.9	5.7
SNOWBIRD GAD VALLEY	9700	12/29	41	13.0	18.6	19.5
SNOWBIRD SNOTEL	9700	01/01	-	11.05	-	18.5
SPIRIT LAKE	10300	12/28	20	4.0	6.9	5.6
SQUAW SPRINGS	9300	12/27	7	1.4	4.3	3.9
STEEL CREEK PARK SNO	10100	01/01	25	5.75	6.3	8.1
STILLWATER CAMP	8550	12/27	15	2.8	4.5	4.4
STRAWBERRY DIVIDE	8400					8.5
STRAWBERRY DIVIDE SN	8400	01/01	-	3.55	8.0	9.0
STUART R.S.	7950	12/28	9	1.8	3.8	4.1
SUSC RANCH	8200	12/28	0	0.0	3.3	3.6
TALL POLES	8800	12/28	5	0.5	4.0	6.2
THAVNES CANYON SNOTL	9200	01/01	-	5.65	10.1	9.4
THRISTLE FLAT	8500					6.8
TIMPANOGOS DIVIDE SN	8140	01/01	23	5.95	9.3	9.7
TONY GROVE LK SNOTEL	8400	01/01	30	8.65	15.7	16.9
TONY GROVE R.S.	6250	12/26	14	2.4	5.2	5.1
TRIAL LAKE	9960	12/27	25	5.7	8.1	11.0
TRIAL LAKE SNOTEL	9960	01/01	-	5.75	8.9	14.0
TROUT CREEK SNOTEL	9400	01/01	-	2.55	5.0	4.7
UPPER JOES VALLEY	8900	12/28	13	2.7	4.8	4.4
VERNON CREEK SNOTEL	7500	01/01	-	0.55	3.8	5.2
VIPONIT	7670					6.2
WEBSTER FLAT SNOTEL	9200	01/01	2	1.25	5.4	6.8
WHITE RIVER #1 SNOTE	8550	01/01	13	1.35	5.1	6.3
WHITE RIVER #3	7400	12/28	12	3.0	4.7	3.9
WIDTSE #3 SNOTEL	9500	01/01	4	0.05	3.0	4.9
WRIGHT CREEK	9000	12/27	9	1.9	5.0	4.4
YANKEE RESERVOIR	8700	12/26	5	0.7	3.6	4.4

*****NOTE:
SNOW DEPTH DATA IS PROVIDED ON SOME SNOTEL SITES, AND MAY NOT
BE IN DIRECT RELATION TO THE SNOW WATER EQUIVALENT.

STATE OF UTAH GENERAL OUTLOOK

FEBRUARY 1, 1990

SUMMARY

January storms produced near normal increases to the snowpack in northern Utah but brought little to no improvement in the south. The best snowpack in the State, in fact, is still 30% below average. Forecasts for next season actually fell for most streams from levels forecast last month. Reservoir storage is only slightly better than last month. February and March will have to yield increases to the snowpack of from 52 to 118% greater than normal just to bring the snowpack to average by April first. Even with average snowpack, streamflows would be below average due to consecutive preceding dry years.

SNOWPACK

January storms brought near normal increases to northern Utah snowpack. Southern Utah saw little improvement, however, with some areas receiving less than half normal increases for the month. February first water content in Utah watershed snowpack ranges from 33% of normal in southwest Utah to 70% on the Uintas. Statewide water content is 59% of average which is only 64% of last year. Only two months remain to build the snowpack which will supply runoff water this spring and summer. In order to have average amounts of water in the snowpack by the first of April, February and March storms will have to generously yield 52 to 118% more snow water than normal across the State.

PRECIPITATION

Mountain precipitation during January was the best month so far this water year everywhere except on the Sevier. Northern watersheds received near normal quantities of rainfall during the month but the south received below to much below average amounts for the fourth consecutive month. Water year accumulations range from 46% of normal in southeastern Utah to 70% on the Bear and Provo.

National Weather Service stations reported January precipitation ranging from 80 to 105% of normal in the northern part of the State and 35 to 80% in the south. Seasonal totals (October through January) range from 40 to 70% of average in the north and 30 to 60% in the south.

RESERVOIRS

Our sample of twenty-six of the key irrigation reservoirs in the State indicates generally below average amounts of stored water reserve. Overall storage is 86% of average for the end of January. Normally these reservoirs would be holding 65% of capacity in storage at this time of the year. This year they only hold 56% of capacity. Last year at this time they held 61% of capacity. Storage in individual reservoirs ranges from 16% of capacity in Steinaker to 83% in Vernon Creek Reservoir.

STREAMFLOW

Streamflow projections for next spring and summer have been reduced slightly from those released last month in most areas of the State. Forecasts in southeastern Utah and the Sevier River basin are lowest with Salina Creek at 27% at the low end. At the upper end of the forecast spectrum are the Bear River at Ut-WY stateline, Smith and Morehouse Creek near Oakley and Little Cottonwood Creek near Salt Lake City at an unimpressive 73% of average. Heavy precipitation in February and March could improve the water supply outlook somewhat but with the current snowpack deficit facing the State and coming off of several preceding dry years water users should be prepared to deal with much below average water supplies this season.

BEAR RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		← DRIER →		FUTURE CONDITIONS		← WETTER →		
		90% (1000AF)	70% (1000AF)	CHANCE OF EXCEEDING * 50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
BEAR RIVER near UT-WY Stateline	APR-JUL	41	67	85	73	103	129	116
BEAR near Woodruff	APR-JUL	15.0	52	95	63	138	200	150
WOODRUFF CREEK near Woodruff	APR-JUL	3.4	7.0	9.5	55	12.0	15.6	17.3
BIG CREEK near Randolph	APR-JUL	0.5	1.5	3.0	57	4.5	6.7	5.3
BEAR near Randolph	APR-JUL	6.0	14.0	55	44	96	156	126
SMITHS FORK near Border	APR-SEP	22	35	75	61	115	173	123
THOMAS FORK near Stateline	APR-SEP	7.0	11.0	23	62	35	53	37
BEAR RIVER near Harer	APR-SEP	31	94	170	55	245	355	310
BEAR RIVER blw Stewart Dam	APR-SEP	17.0	84	130	44	176	245	298
CUB RIVER near Preston	APR-JUL	9.0	21	29	62	37	49	47
LITTLE BEAR RIVER near Paradise	APR-JUL	5.0	13.0	27	59	41	61	46
LOGAN RIVER near Logan	APR-JUL	32	61	80	66	99	128	122
BLACKSMITH FORK near Hyrum	APR-JUL	6.0	22	35	62	48	67	57

RESERVOIR	RESERVOIR STORAGE (1000AF)				WATERSHED	WATERSHED SNOWPACK ANALYSIS		
	USEABLE CAPACITY	** USEABLE STORAGE THIS YEAR	LAST YEAR	AVG.		NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR.	AVERAGE
BEAR LAKE	1421.0	730.6	802.9	987.6	BEAR RIVER, UPPER IN UTAH	6	79	68
HYRUM	15.3	10.1	---	10.3	BEAR RIVER, LOWER IN UTAH	8	66	57
PORCUPTINE	11.3	3.8	---	2.9	BEAR RIVER DRAINAGE IN UT	13	70	61
WOODRUFF NARROWS		NO REPORT			BEAR RIVER, UPPER (above	12	89	75
WOODRUFF CREEK		NO REPORT			BEAR RIVER, LOWER (below	10	69	58
					BEAR RIVER DRAINAGE	20	78	67
					LOGAN RIVER	5	65	54
					RAFT RIVER	1	81	89
					BEAR RIVER BASIN	23	79	68

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

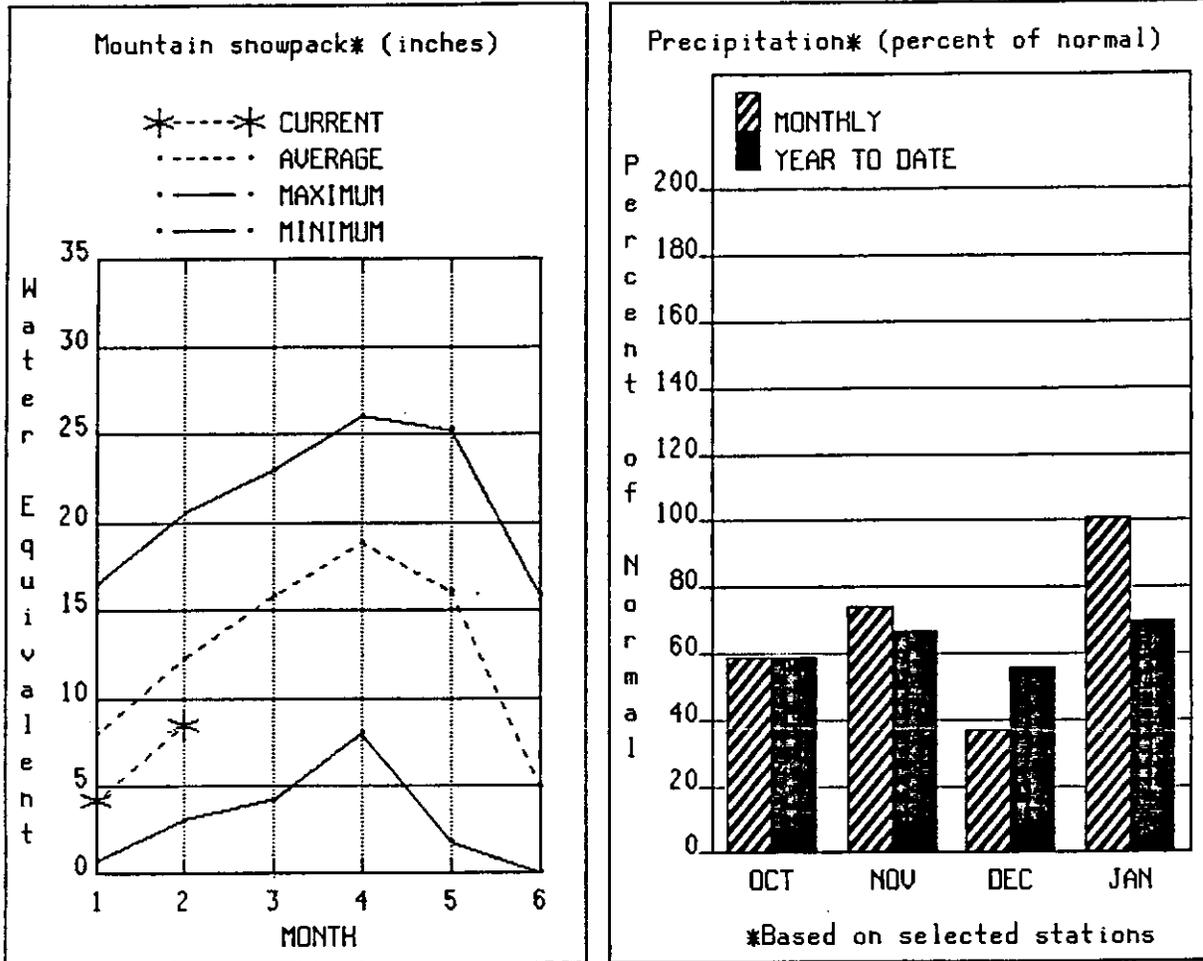
The average is computed for the 1961-1985 base period.

(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.

BEAR RIVER BASIN

FEBRUARY 1, 1990



The Bear River watershed snowpack has 68% of normal snow water content as of February first. January storms produced near normal increase to the snowpack for the month. The snowpack will have to increase 58% more than usual during February and March in order to reach normal water content by the first of April (approximate time of maximum annual accumulation). Precipitation at mountain stations was above normal for January marking the first month this water year with precipitation in excess of average. Total accumulation for the water year is still only 70% of average, however. Reservoir storage is half of capacity and 74% of average. Streamflow forecasts are slightly less than last month and range from 44 to 73% of the April through July average.

WEBER & OGDEN WATERSHEDS in Utah

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		← DRIER →		FUTURE CONDITIONS		← WETTER →		
		90% (1000AF)	70% (1000AF)	CHANCE OF EXCEEDING * 50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
SMITH AND MOOREHOUSE CREEK near Oaki	APR-JUN	10.0	17.0	22	73	27	34	30
WEBER RIVER near Oakley	APR-JUN	34	58	75	70	92	116	107
ROCKPORT RESERVOIR inflow	APR-JUN	14.0	52	78	65	104	142	120
CHALK CREEK near Coalville	APR-JUN	4.0	11.0	19.0	46	27	39	41
WEBER RIVER near Coalville	APR-JUN	19.0	53	76	60	99	133	127
ECHO RESERVOIR inflow	APR-JUN	25	69	99	61	129	173	163
LOST CREEK near Croyden	APR-JUN	1.6	5.0	9.5	61	14.0	21	15.6
EAST CANYON CREEK near Morgan	APR-JUN	3.0	9.0	15.0	52	22	31	29
HARDSCRABBLE CREEK near Porterville	APR-JUN	1.8	4.9	11.0	60	17.1	26	18.4
WEBER RIVER at Gateway	APR-JUN	28	110	166	51	220	305	328
SOUTH FORK OGDEN RIVER near Huntsvil	APR-JUN	10.0	25	35	60	45	60	58
PINEVIEW RESERVOIR inflow	APR-JUN	31	57	75	61	93	119	122
WHEELER CREEK near Huntsville	APR-JUN	1.7	3.1	4.0	63	4.9	6.3	6.3
FARMINGTON CREEK near Farmington	APR-JUL	0.8	2.2	4.9	60	7.6	11.7	8.2

RESERVOIR	RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS			
	USEABLE : CAPACITY :	++ USEABLE STORAGE ++ THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR.	AVERAGE
CAUSEY	7.1	1.9	2.5	2.2	OGDEN RIVER	4	48	59
EAST CANYON	48.1	33.4	30.2	34.7	WEBER RIVER	14	69	69
ECHO	73.9	39.5	46.4	45.8	WEBER & OGDEN WATERSHEDS	18	62	66
LOST CREEK	22.5	14.6	14.8	13.1				
PINEVIEW	110.1	62.7	32.1	49.6				
ROCKPORT	60.9	38.2	23.9	31.9				
WILLARD BAY	185.0	127.9	108.5	110.6				

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

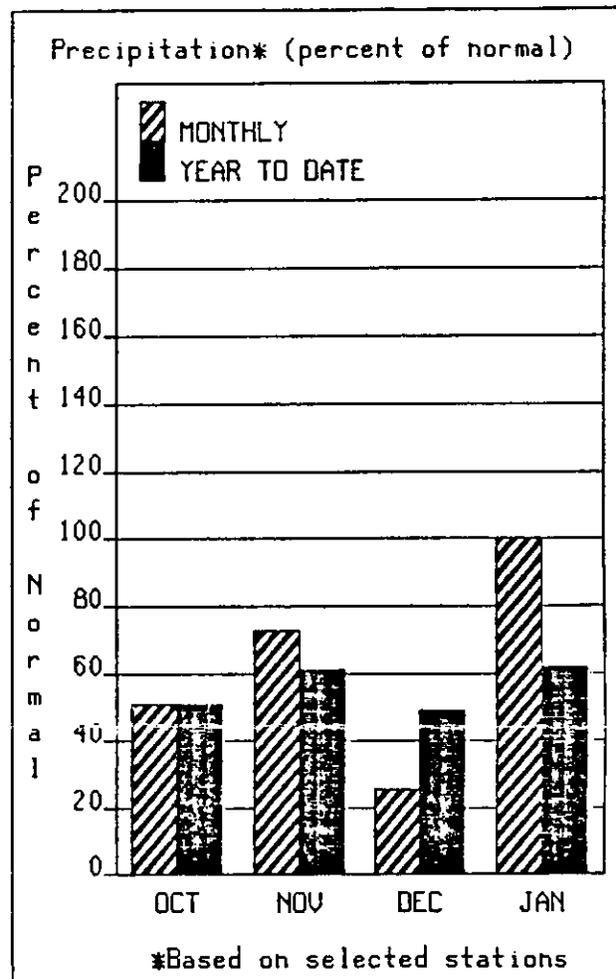
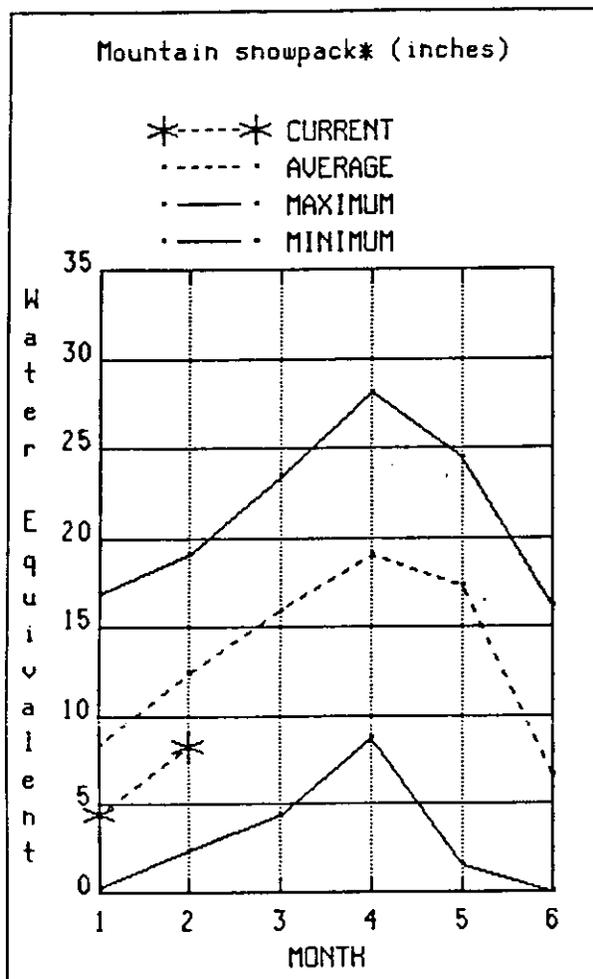
The average is computed for the 1961-1985 base period.

(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 WATERSHEDS in Utah

FEBRUARY 1, 1990



Snow water equivalent on the Weber River watershed increased slightly more than usual during January but is still only 66% of average for the first of February. The next two months would have to receive 152% of normal additional accumulation in order to reach normal water content by the first of April. Mountain stations reported normal January precipitation which breaks the unbroken string of months with below normal precipitation this water year. Seasonal precipitation (October through January) is now 62% of average. Reservoirs are holding sixty-three percent of their combined capacity in storage (111% of average). Projections for spring and summer streamflows range from 46 to 73% of normal--down slightly from last month.

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						
		← DRIER →		FUTURE CONDITIONS			← WETTER →	
		90% (1000AF)	70% (1000AF)	CHANCE OF EXCEEDING * 50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	25 YR. (1000AF)
SALT CREEK near Nephi	APR-JUL	1.4	2.8	9.0	67	15.2	24	13.5
PAYSON CREEK near Payson	APR-JUL			4.5	62			7.3
SPANISH FORK near Castilla	APR-JUL			35	44			80
HOBBLE CREEK near Springville	APR-JUL			10.0	43			23
PROVO near Hailstone	APR-JUL	30	60	80	71	100	130	113
PROVO below Deer Creek Dam	APR-JUL	22	60	85	64	110	148	133
AMERICAN FORK near American Fk.	APR-JUL	13.0	18.0	22	65	26	31	34
UTAH LAKE inflow	APR-JUL	15.0	95	150	51	205	285	295
LITTLE COTTONWOOD CRK near SLC	APR-JUL	20	26	30	73	34	40	41
BIG COTTONWOOD CRK near SLC	APR-JUL	20	25	28	72	31	36	39
PARLEY'S CREEK near SLC	APR-JUL	3.1	7.2	10.0	59	12.8	16.9	17.0
MILL CREEK near SLC	APR-JUL	0.5	0.9	2.5	36	4.1	6.4	6.9
EMIGRATION CREEK near SLC	APR-JUL			2.0	43			4.6
CITY CREEK near SLC	APR-JUL	0.2	1.9	3.0	33	4.1	5.8	9.0
VERNON CREEK near Vernon	APR-JUN	0.1	0.3	0.7	58	1.1	1.6	1.2
SETTLEMENT CREEK near Tooele	APR-JUL	0.2	0.6	1.3	57	2.0	3.1	2.3
SOUTH WILLOW CREEK near Grantsville	APR-JUL	0.3	0.8	1.8	60	2.8	4.2	3.0

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
DEER CREEK	149.6	101.2	91.9	94.3	PROVO RIVER & UTAH LAKE	9	82	62
GRANTSVILLE	3.3	1.3	1.5	—	PROVO RIVER	4	92	65
SETTLEMENT CREEK	1.0	0.7	0.8	0.5	JORDAN RIVER & GREAT SALT	15	64	76
STRAWBERRY-ENLARGED	951.4	344.6	399.5	—	TOOELE VALLEY WATERSHEDS	2	61	30
UTAH LAKE	855.5	530.6	581.0	648.6	UTAH LAKE, JORDAN RIVER &	26	68	69
VERNON CREEK	0.6	0.5	0.4	0.5				

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

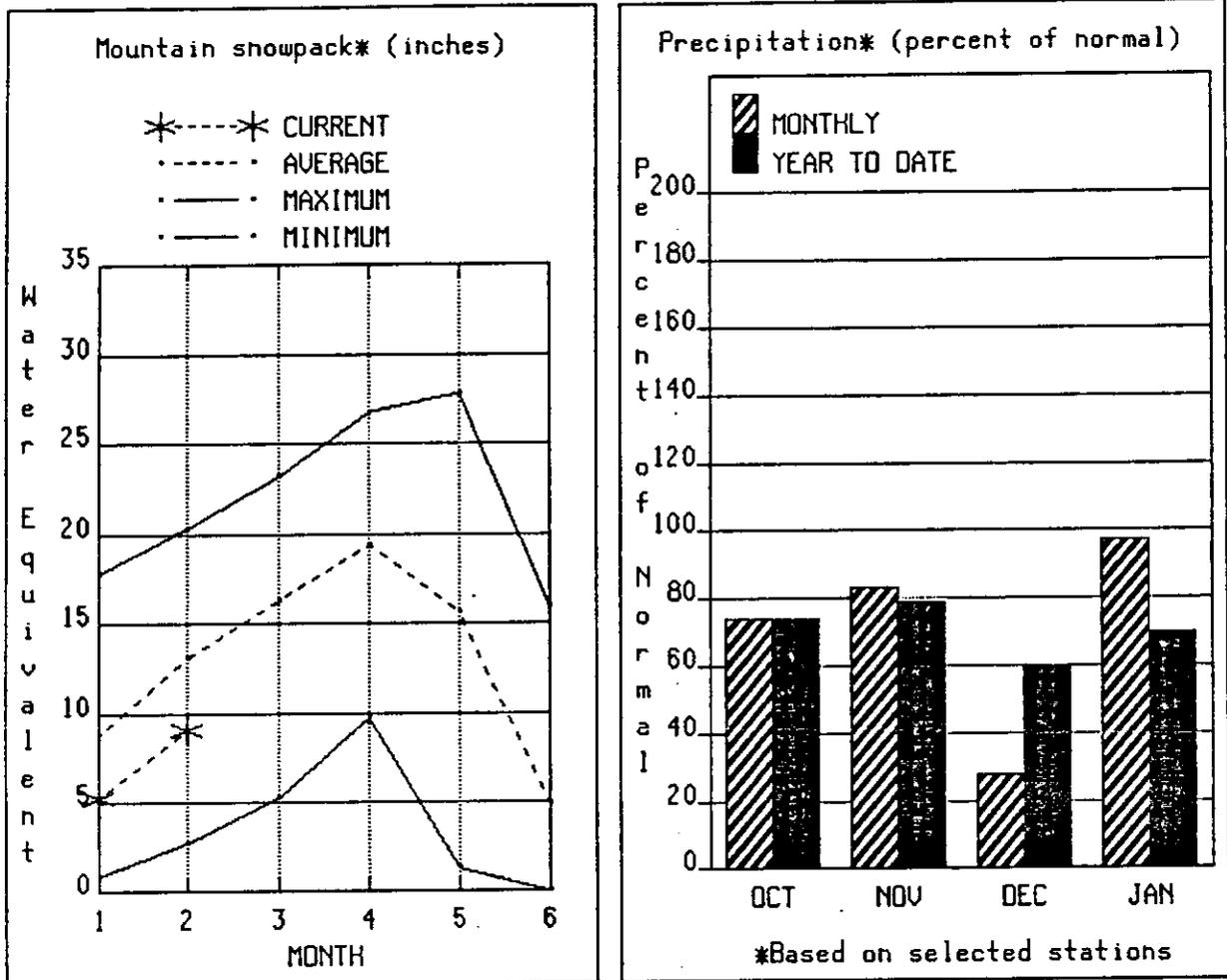
The average is computed for the 1961-1985 base period.

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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

FEBRUARY 1, 1990



The watershed area draining into Utah Lake, the Jordan River and Tooele Valley possesses 69% of normal snow water content as of February first. This represents only 68% of last year. More than half again as much as normal additional snow would have to accumulate during the next two months in order to attain normal water content by the first of April. Mountain precipitation was near normal in January bringing water year accumulation to 70% of average. Stored reserves of water are running slightly greater than last year at this time with 85% of average. Streams are forecast to flow 30 to 70% below average next spring and summer.

UINTAH BASIN & DAGGET SCD'S

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		← DRIER →		50% (MOST PROBABLE) (% AVG.)		→ WETTER →		
		90% (1000AF)	70% (1000AF)	50% (1000AF)	30% (1000AF)	10% (1000AF)	CHANCE OF EXCEEDING *	
BLACK'S FORK nr Millburne	APR-JUL	40	52	68	71	82	102	96
EF SMITHS FORK inf to State Line Res	APR-JUL	10.0	17.0	21	70	25	32	30
HENRY'S FORK nr Manila	APR-JUL	12.0	22	29	64	36	46	45
GREEN RIVER nr Greendale 2	APR-JUL	490	705	850	67	995	1210	1267
BIG BRUSH CREEK ab Red Fleet Res	APR-JUL	8.8	11.9	14.0	71	16.1	19.2	19.8
ASHLEY CREEK nr Vernal 2	APR-JUL	18.0	27	32	62	38	46	52
MEST FORK DUCHESNE RIVER nr Hanna	APR-JUL	10.0	15.0	18.0	64	21	25	28
DUCHESNE RIVER nr Tabiona	APR-JUL	42	58	68	62	78	94	110
ROCK CREEK nr Mountain Home	APR-JUL	35	49	59	62	69	83	95
DUCHESNE RIVER abv Knight Diversion	APR-JUL	71	100	120	63	140	169	190
STRAWBERRY RIVER nr Soldier Springs	APR-JUL	24	34	41	62	48	58	66
CURRENT CREEK nr Fruitland 2	APR-JUL	7.0	10.0	13.0	54	15.0	18.0	23
STRAWBERRY RIVER nr Duchesne (natural)	APR-JUL	44	63	75	62	87	106	121
STRAWBERRY RIVER inflow to Starvation	APR-JUL	17.0	27	34	51	41	51	67
LAKEFORK RIVER blw Moon Lake 2	APR-JUL	31	43	51	72	59	71	71
YELLOWSTONE RIVER nr Altonah	APR-JUL	23	37	46	70	55	69	66
DUCHESNE RIVER at Myton 2	APR-JUL	22	89	135	49	181	250	275
UINTA RIVER nr Neola	APR-JUL	20	42	57	65	72	94	88
WHITEROCKS RIVER nr Whiterocks	APR-JUL	16.0	30	40	67	50	64	60
DUCHESNE RIVER nr Randlett	APR-JUL	20	58	150	44	250	400	340

RESERVOIR	RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS			
	USEABLE CAPACITY	USEABLE STORAGE THIS YEAR	USEABLE STORAGE LAST YEAR	USEABLE STORAGE AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE	
FLAMING GORGE	3749.0	2941.6	2922.4	—	UPPER GREEN RIVER in UTAH	9	81	73
MOON LAKE	35.8	11.8	7.9	15.4	ASHLEY CREEK	2	74	59
RED FLEET	26.0	13.1	19.5	—	BLACK'S FORK RIVER	3	82	81
STEINAKER	33.3	5.4	16.3	19.7	SHEEP CREEK	2	74	70
STARVATION	165.3	110.7	151.1	113.0	DUCHESNE RIVER	11	87	70
STRAWBERRY-ENLARGED	951.4	344.6	399.5	—	LAKE FORK-YELLOWSTONE CRE	5	98	80
					STRAWBERRY RIVER	3	67	51
					UINTAH-WHITEROCKS RIVERS	2	94	82
					UINTAH BASIN & DAGGET SCD	20	84	71

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

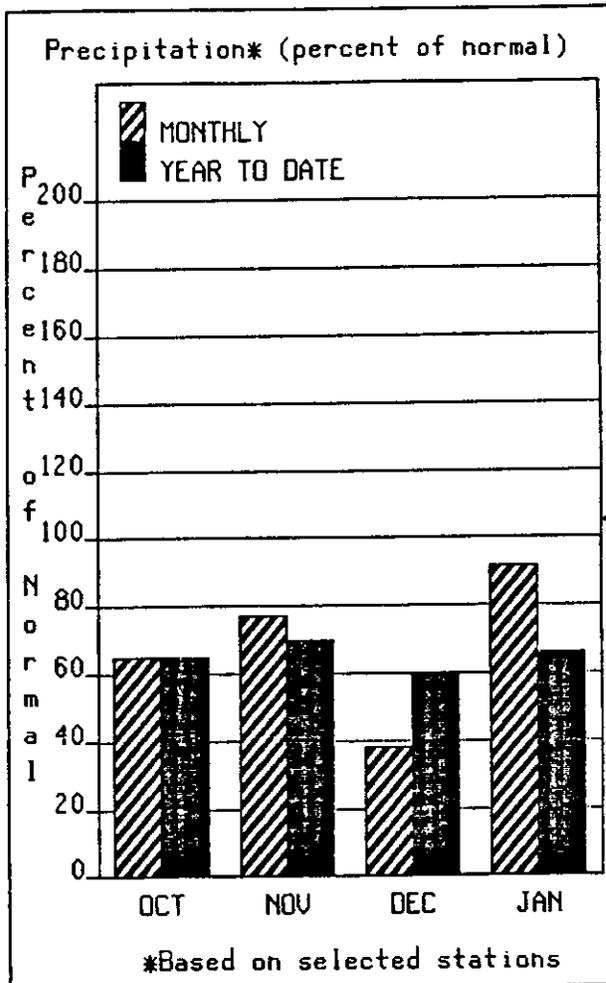
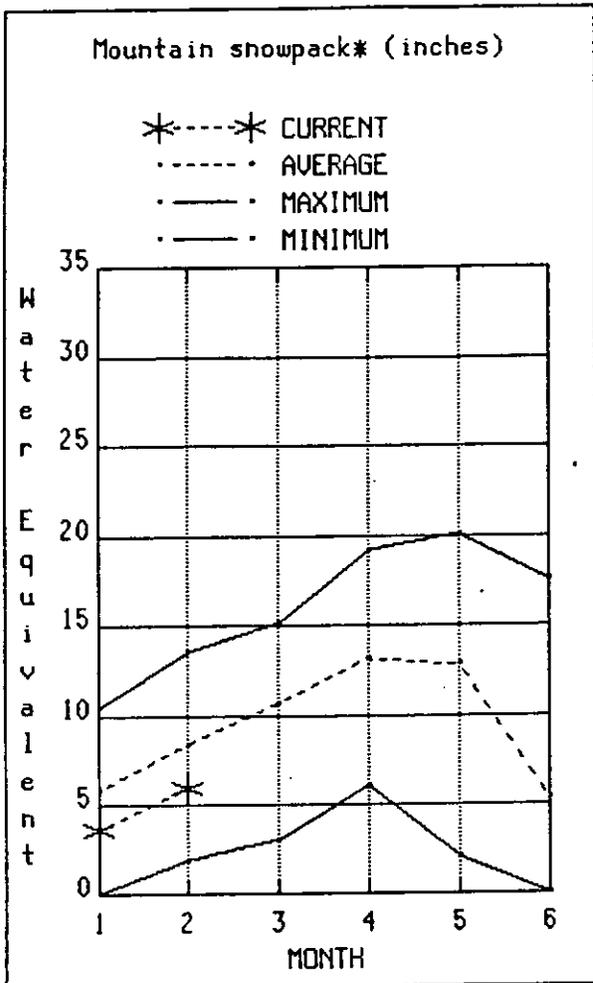
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UINTAH BASIN & DAGGET SCD'S

FEBRUARY 1, 1990



Snowpack on the Uinta Mountains contains 70% of normal February first water content. This is 83% of last year. February and March need to produce 63% more than normal additional snow water in order to reach average water content by the first of April. Precipitation at mountain stations during January was near normal for the first time this water year but seasonal accumulation (since the first of October) is only 66% of average. Reservoir storage is less than last year and less than normal for this time of year (86% of average). Next spring and summer streamflows are forecast to run 44 to 72% of average. This is slightly less than forecast last month.

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		DRIER		CHANCE OF EXCEEDING *		WETTER		
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
GOOSEBERRY CREEK nr Scofield	APR-JUL	1.1	4.0	6.0	50	8.0	10.9	12.0
SCOFIELD RESERVOIR inflow	APR-JUL	10.0	18.0	24	52	30	38	46
PRICE RIVER nr Heiner 2	APR-JUL	15.0	26	33	56	40	51	59
GREEN RIVER at Green River, UT 2	APR-JUL	955	1580	2000	63	2420	3040	3182
HUNTINGTON CREEK inf to Electric Lak	APR-JUL	3.6	6.4	8.3	55	10.2	13.0	15.1
HUNTINGTON CREEK nr Huntington 2	APR-JUL	13.0	23	30	55	37	47	55
Ferron Ck nr Ferron	APR-JUL	8.0	16.0	20	49	27	38	41
Colorado R nr Cisco, UT 2	APR-JUL	495	1390	2000	58	2610	3500	3443
Mill Ck nr Moab	APR-JUL	0.8	1.5	2.0	36	4.3	7.8	5.5
Seven Mile Ck nr Fish Lake	APR-JUL	1.5	1.8	3.8	58	5.8	8.8	6.5
Muddy Ck nr Emery	APR-JUL	4.0	7.0	12.0	59	17.0	25	21
San Juan R nr Bluff, UT 2	APR-JUL	220	325	550	50	775	1110	1091

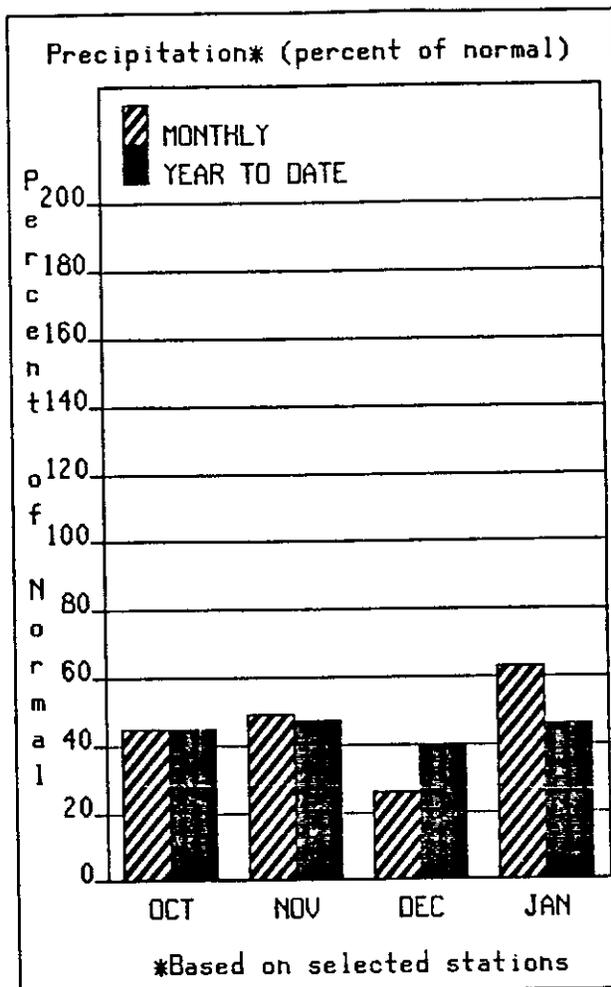
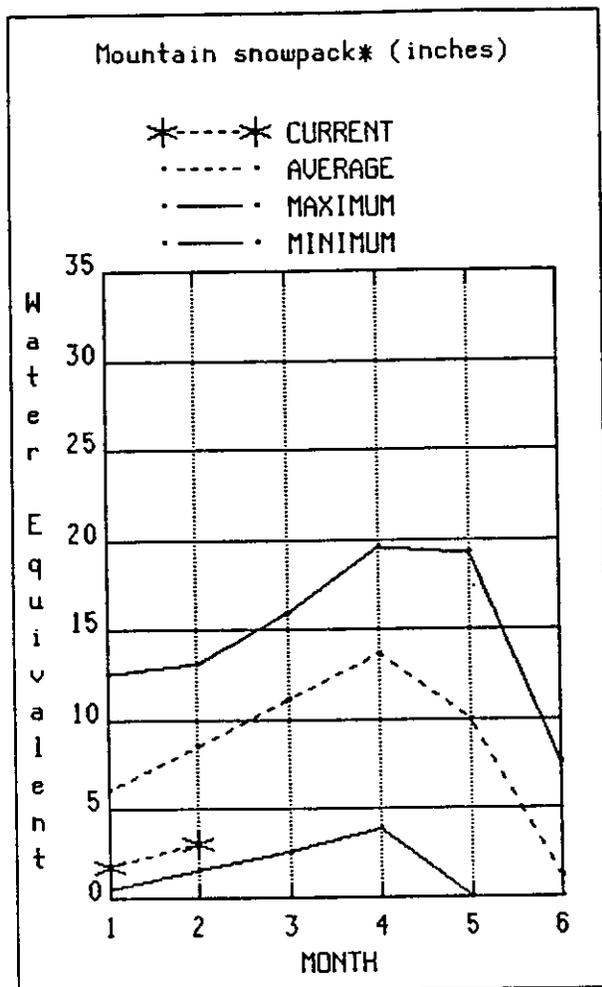
RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
HUNTINGTON NORTH	3.9	1.9	2.3	2.3	PRICE RIVER	3	47	40
JOE'S VALLEY	61.6	34.1	39.6	43.6	SAN RAFAEL RIVER	7	52	44
KEN'S LAKE	2.3	0.5	0.0	—	MUDDY CREEK	1	58	53
MILL SITE	16.7	9.7	12.2	3.5	FREMONT RIVER	5	46	35
SCOFIELD	65.8	11.7	30.0	31.3	LASAL MOUNTAINS	2	27	24
					BLUE MOUNTAINS	2	35	31
					WILLOW CREEK - WHITE RIVE	2	33	25
					CARBON, EMERY, WAYNE, GRA	22	45	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 1961-1985 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.

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN CO FEBRUARY 1, 1990



Snow water content in the southeastern Utah mountains remains at extremely low levels. Taken as a whole the area has only 36% of normal February first snowpack. Water content ranges from 21% of normal on the LaSals to 53% on Muddy Creek. This represents less than half the water content recorded last year at this time. In order to salvage an average snow water year the next two months would have to yield increases to the snowpack in excess of twice normal. Mountain precipitation during January continued the unbroken string of months with below average rainfall with only 63% of normal. Water year accumulation is only 46% of average. Reservoir storage is 71% of average which is considerably less than last year. Streamflow forecasts now range from 36 to 63% of average.

SEVIER & BEAVER RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						
		←----- DRIER -----		FUTURE CONDITIONS		----- WETTER -----		25 YR. (1000AF)
		90% (1000AF)	70% (1000AF)	CHANCE OF EXCEEDING * 50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
SEVIER at Hatch	APR-JUL	3.0	6.0	18.0	35	30	47	
SEVIER near Circleville	APR-JUL			25	57			44
SEVIER near Kingston	APR-JUL	5.0	10.0	15.0	44	30	53	34
ANTIMONY CREEK near Antimony	APR-JUL			5.0	56			8.9
E F SEVIER near Kingston	APR-JUL	1.0	3.0	10.0	42	17.0	27	24
SEVIER blw Piute Dam	APR-JUL	3.0	8.0	30	54	52	85	56
CLEAR CREEK near Sevier	APR-JUL			10.0	45			22
SIGURD to GUNNISON	APR-JUL	2.0	5.0	25	57	48	82	44
KINGSTON to VERMILLION DAM	APR-JUL			10.0	53			18.9
VERMILLION DAM to GUNNISON	APR-JUN			15.0	37			40
SALINA CREEK at Salina	APR-JUN			5.0	27			18.2
PLEASANT CREEK near Pleasant	APR-JUL			6.0	52			11.5
EPHRAIM CREEK near Ephraim	APR-JUL			12.0	48			25
SEVIER nr Gunnison	APR-JUL			45	45			99
CHICKEN CREEK near Levan	APR-JUL	0.3	1.3	2.0	57	2.7	3.7	3.5
OAK CREEK near Oak City	APR-JUL	0.2	0.4	0.8	50	1.5	2.6	1.6
CHALK CREEK near Fillmore	APR-JUL	1.6	6.3	10.5	64	14.7	21	16.4
BEAVER RIVER near Beaver	APR-JUL	3.0	6.0	14.0	52	22	35	27
NORTH CREEK near Beaver (combined)	APR-JUL	1.5	3.2	8.0	55	14.7	25	14.6
MINERSVILLE RESERVOIR inflow	APR-JUN	1.4	3.5	8.3	58	13.1	20	14.3

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
GUNNISON	20.3	3.6	9.3	11.7	UPPER SEVIER RIVER (south	10	42	34
MINERSVILLE (RkyFd)	26.0	8.5	16.9	11.2	EAST FORK SEVIER RIVER	4	48	38
OTTER CREEK	52.7	19.4	48.9	27.5	SOUTH FORK SEVIER RIVER	6	38	32
PIUTE	71.8	47.0	56.8	36.9	LOWER SEVIER RIVER (inclu	12	56	49
SEVIER BRIDGE	236.0	137.2	175.3	101.1	BEAVER RIVER	2	32	38
PANQUITCH LAKE	22.3	8.0	17.4	---	SEVIER & BEAVER RIVER BAS	24	49	43

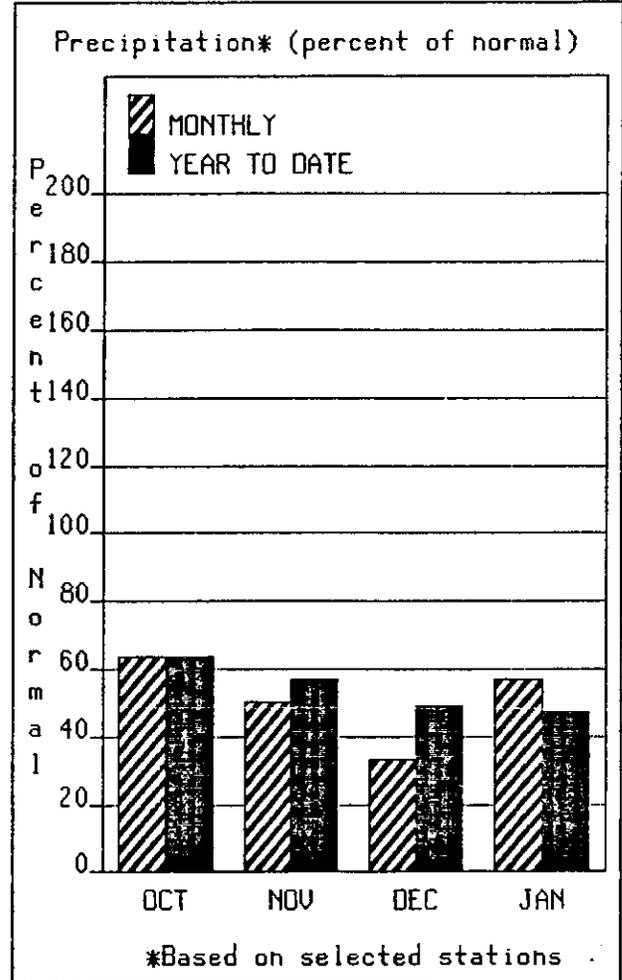
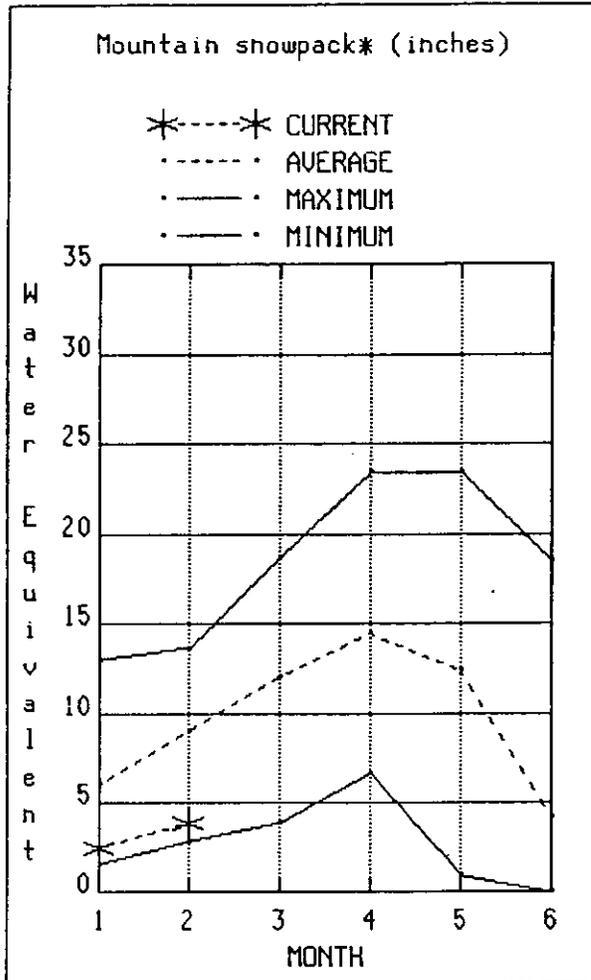
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- (2) - The value is natural flow - actual flow may be affected by upstream water management.

SEVIER & BEAVER RIVER BASINS

FEBRUARY 1, 1990



January storms augmented the snowpack less than half as much as normal leaving February first snow water content at only 43% of average. In order to obtain average water content by April first February and March storms will have to yield almost twice as much additional water as would be normal. January precipitation at mountain stations relative to normal was the worst in the State with only 57% of normal recorded. Accumulation for the water year is less than half normal. Reservoirs are holding more water than normal for this time of year but considerably less than at the same time last year. Forecasts of flow for next spring and summer in the Sevier basin have fallen since last month and now range from 27 to 64% of average.

E. GARFIELD, KANE, WASHINGTON, & IRON Co.

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						
		←----- DRIER -----		FUTURE CONDITIONS			----- WETTER ----->	
		90% (1000AF)	70% (1000AF)	CHANCE OF EXCEEDING * 50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	25 YR. (1000AF)
Coal Ck nr Cedar City	APR-JUL	3.2	5.1	8.0	40	10.9	15.2	20
Colorado R inflow to Lake Powell 2	APR-JUL	1190	2980	4200	52	5420	7210	8086
Virgin R nr Hurricane	APR-JUN	14.0	22	35	51	48	66	68
Santa Clara R nr Pine Valley	APR-JUN	2.0	2.6	3.5	70	4.5	5.6	5.0

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE ; CAPACITY ;	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
GUNLOCK	10.4	5.6	8.6	---	VIRGIN RIVER	5	39	30
LAKE POWELL	25002.0	18514.0	21416.0	---	PAROWAN	4	44	34
QUAIL CREEK	NO REPORT				ENTERPRISE TO NEW HARMONY	2	35	32
UPPER ENTERPRISE	10.0	0.4	0.5	---	COAL CREEK	3	47	36
LOWER ENTERPRISE	2.6	0.4	0.1	---	ESCALANTE RIVER	2	45	30
					E. GARFIELD, KANE, WASHIN	14	42	33

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

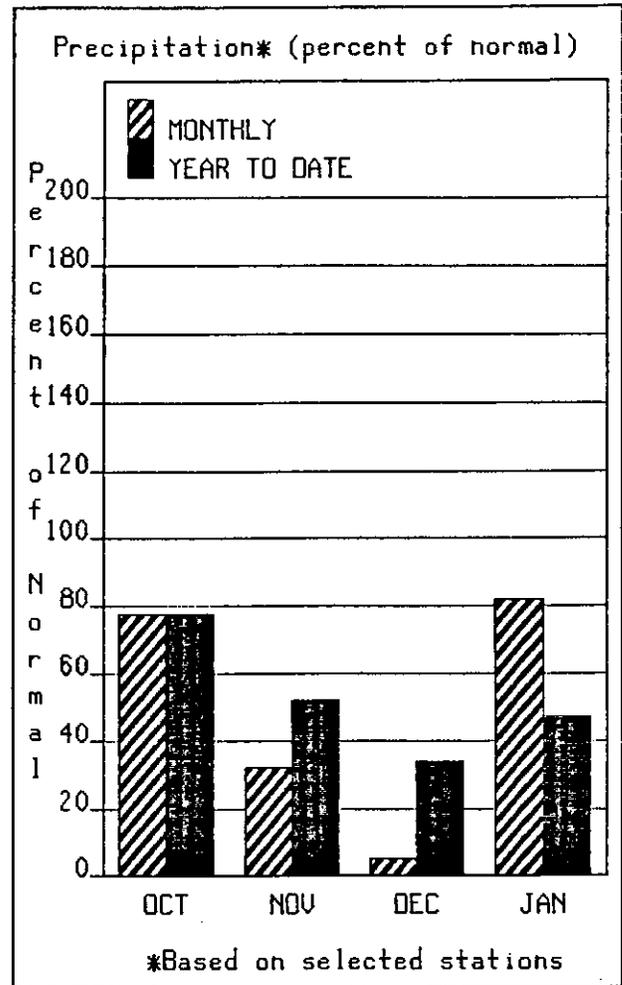
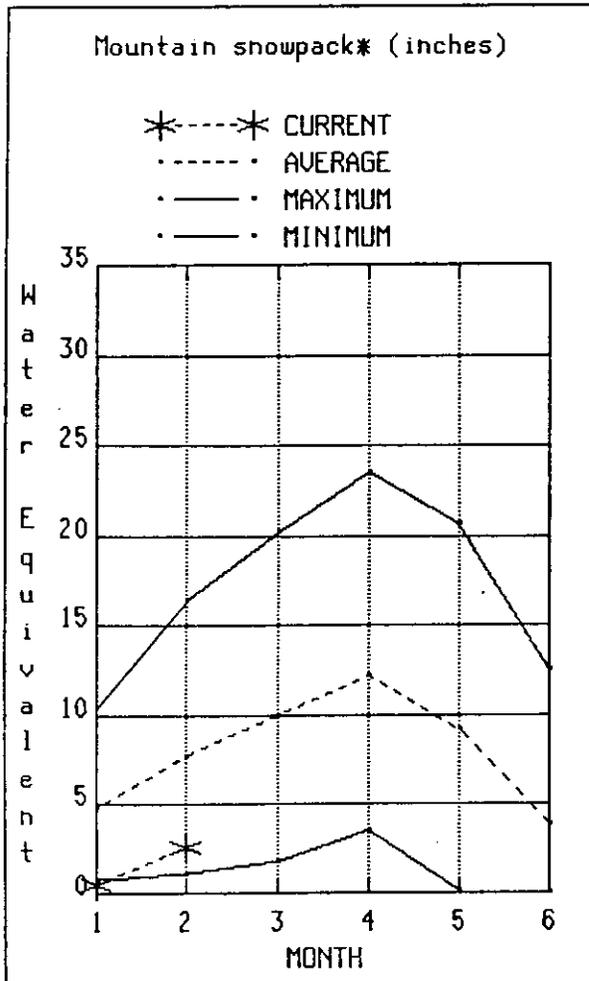
The average is computed for the 1961-1985 base period.

(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

FEBRUARY 1, 1990



The situation in southwestern Utah is little improved from last month. Individual snow courses range from twenty percent of average water content at Harris Flat to 48% at SUSC Ranch. Across the region, snowpack is only 33% of normal for the first of February. The snowpack will have to increase at more than twice the normal rate during the next two months in order to record an average snow year. January precipitation was the best yet this water year with 82% of normal recorded. Water year accumulation is only 47% of normal, however. Gunlock reservoir is more than half full but the Enterprise Reservoirs are still holding only 6% of combined capacity. The range of forecasts for streamflow next spring and summer is 40 to 70% of average.

SNOW COURSE DATA
FEBRUARY 1, 1990
FOR UTAH

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST AVERAGE YEAR	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST AVERAGE YEAR
ALTA CENTRAL	8800	02/01	72	21.5	26.5	G.B.R.C. MEADOWS	10000	01/29	-	6.7E	10.8
ASHLEY TWIN LAKES	10500				10.5	GARDEN CITY SUMMIT	7600	01/29	-	5.2E	7.1
BEAVER DIVIDE SNOTL	8280	01/29	-	6.1S	4.9	GEORGE CREEK	8840	01/29	-	4.1E	7.4
BEAVER DAMS	8000	01/29	-	3.2E	6.5	GOOSEBERRY R.S.	8000	01/29	-	3.7S	6.3
BEAVER DAMS SNOTEL	8000	01/29	-	3.3S	7.7	GOOSEBERRY R.S. SNOT	8000	01/29	-	8.4E	16.9
BEN LONOND PK SNOTL	8000	01/29	-	14.2S	28.3	HARDSCRABBLE	6700	01/29	-	1.2E	4.1
BEN LONOND TR SNOTL	6000	01/29	-	6.7S	20.2	HARRIS FLAT	7700	01/29	-	0.8S	3.5
BEVAN'S CABIN	6450				5.5	HARRIS FLAT SNOTEL	7700	01/29	-	8.1E	8.1
BIG FLAT SNOTEL	10290	01/29	-	3.7S	11.4	HAYDEN FORK	9400	01/29	-	8.2S	8.8
BIRCH CROSSING	8100	02/01	13	1.7	5.0	HAYDEN FORK SNOTEL	9100	01/29	-	-	9.5
BLACK FLAT-U.H. CK \$	9400	01/29	-	2.7S	5.1	HENRY'S FORK	10000	01/29	-	5.2S	5.2
BLACK'S FORK GS-EF	9340	01/29	-	5.4E	6.5	HEWINTA SNOTEL	9500	01/29	-	2.6S	4.1
BLACK'S FORK JUNCTN	8930	01/29	-	5.2E	7.0	HICKERSON PARK SNOTEL	9100	01/29	-	2.9	7.9
BOX CREEK SNOTEL	9300	01/29	-	9.6S	7.5	HIDDEN SPRINGS	5500	02/01	9	2.9S	6.3
BRIAN HEAD	10000	01/29	-	4.7E	9.1	HOLE-IN-ROCK SNOTEL	9150	01/29	-	2.9S	3.3
BRIGHTON SNOTEL	8750	01/29	-	14.9S	18.2	HOBBLE CREEK SNOTEL	7420	01/29	-	5.4E	8.9
BRIGHTON CABIN	8700	02/01	46	13.6	18.3	HORSE RIDGE SUMMIT	8260	01/29	-	9.4S	15.1
BROWN DUCK SNOTEL	10600	01/29	-	7.9S	8.2	HUNTINGTON-HORSESHOE	9800	01/29	-	7.8E	13.7
BRYCE CANYON	8000	02/01	14	1.7	2.0	INDIAN CANYON SNOTEL	9100	01/29	-	3.5S	5.3
BUCK FLAT SNOTEL	9800	01/29	-	5.0S	10.2	JOHNSON VALLEY	8850	01/29	-	1.9E	5.2
BUCK PASTURE	9700				11.8	KILFOIL CREEK	7300	01/29	-	7.8E	9.6
BUCKBOARD FLAT	9000	02/07	18	3.5E	7.4	KILLYON CANYON	6300	02/01	20	4.4	40.0
BUG LAKE SNOTEL	7950	01/29	-	8.0S	9.7	KIMBERLY MINE SNOTEL	9300	01/29	-	4.7S	8.6
BURT'S-MILLER RANCH	7900	01/29	-	2.7E	4.0	KING'S CABIN SNOTEL	8730	01/29	-	4.2S	5.9
CAMP JACKSON	8600	01/30	12	2.0	8.3	KLONDIKE NARROWS	7400	01/29	-	6.5E	11.5
CAMP JACKSON SNOTEL	8600	01/29	-	2.6S	8.3	KLODB SNOTEL	9250	01/29	-	4.2S	8.8
CASTLE VALLEY	9580	01/29	-	2.0E	6.3	LAKEFORK BASIN SNOTEL	10900	01/29	-	9.7S	9.6
CASTLE VALLEY SNOTL	9580	01/29	-	2.4S	6.4	LAKEFORK #1 SNOTEL	10100	01/29	-	5.5S	6.5
CHALK CK #1 SNOTEL	9100	01/29	-	10.1S	14.0	LAKEFORK MOUNTAIN #3	8400	01/29	37	2.4E	3.2
CHALK CK #2 SNOTEL	8200	01/29	-	8.0S	9.6	LAMBS CANYON	7400	01/29	11	1.9	6.3
CHALK CREEK #3	7500	01/29	-	3.4E	5.8	LASAL MOUNTAIN LOWER	8800	02/07	-	1.7S	7.2
CHEPETA SNOTEL	10300	01/29	-	8.0S	7.7	LASAL MOUNTAIN SNOTEL	9850	01/29	-	5.9S	5.6
CITY CREEK	7500	02/05	50	14.6	19.9	LILY LAKE SNOTEL	9050	01/29	-	6.1S	11.5
CLEAR CREEK MEADOWS	9420	2/01			16.6	LITTLE BEAR SNOTEL	6550	01/29	-	6.1S	10.0
CLEAR CK RIDG #1 SNT	9200	01/29	-	7.6S	11.2	LITTLE GRASSY CREEK	6100	01/29	-	1.3E	4.9
CLEAR CK RIDG #2 SNT	8000	01/29	-	5.0S	7.9	LITTLE GRASSY SNOTEL	6100	01/29	-	1.1S	4.7
CLEAR CREEK RIDGE #3	6600	01/29	-	3.2E	4.6	LONG FLAT SNOTEL	8000	01/29	-	1.9S	4.3
CLURRANT CREEK SNOTEL	8000	01/29	-	4.1S	6.1	LONG VALLEY JCT.	7500	01/29	-	1.1E	5.9
DANTELS-STRAWBERRY S	8000	01/29	-	6.4S	9.5	LONG VALLEY JCT. SNT	7500	01/29	-	1.1S	5.7
DESERET PEAK	9250				9.4	LOOKOUT PEAK SNOTEL	8200	01/29	-	11.1S	17.4
DESERET PEAK AM	9250				17.5	LOOKOUT PEAK RESERVOIR	6130	01/29	-	6.3E	11.3
DESERET PEAK SNOTEL	9250	01/29	-	7.9S	9.4	HAMMOTH-COTTONWOOD	8800	01/29	-	6.4S	13.7
OILL'S CAMP SNOTEL	9200	01/29	-	4.6S	7.9	HAMMOTH-COTTONWOOD SNT	8800	01/29	-	2.6S	8.3
DONKEY RESERVOIR SNO	9800	01/29	-	1.7S	3.3	MERCHANT VALLEY SNOT	8750	01/29	-	-	8.7
DRY BREAD POND	8350	01/29	-	8.5E	16.5	MIDDLE CANYON	7000	01/29	-	4.2E	9.6
DRY BREAD POND SNOTL	8350	01/29	-	8.3S	19.8	MIDWAY VALLEY	9800	01/29	-	5.8S	13.6
EAST SHINGLE LAKE	9800				18.4	MIDWAY VALLEY SNOTEL	9800	01/29	-	11.1	15.4
EAST WILLOW CREEK SN	8250	01/29	-	2.9S	4.8	HILL CREEK	6950	01/29	38	11.1	15.4
FARMINGTON CN SNOTEL	8000	01/29	-	13.1S	24.8	HILL-D SOUTH FORK	7400	01/30	42	10.5S	13.0
FARMINGTON CANYON L.	6950	01/29	-	10.6E	18.6	HILL-D NORTH SNOTEL	8960	01/29	-	6.4S	9.1
FARNSWORTH LAKE	9600	01/29	-	6.8E	11.1	MINING FORK SNOTEL	8000	01/29	-	10.8E	18.0
FARNSWORTH LK SNOTEL	9600	01/29	-	6.2S	10.6	MONTE CRISTO R.S.	8960	01/29	-	9.3S	19.8
FISH LAKE	8700	01/29	-	2.2E	4.3	MONTE CRISTO SNOTEL	8960	01/29	-	4.1S	5.2
FIVE POINTS LAKE SNO	10920	01/29	-	9.0S	7.6	MOSBY Mtn. SNOTEL	9500	01/29	-	6.4E	13.3
FRANCES FLATS	6700	02/05	40	11.1	15.0	MT. BALDY R.S.	9500	01/29	-	3.7E	6.9
FRANCES FLATS	6700	02/05	40	11.1	15.0	MUD CREEK #2	8600	01/29	-	-	9.2

C P D C UNANNOUNCED

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE YEAR 1961-85
OAK CREEK	7760	01/29	-	4.0E	5.9	7.9
ONE MILE SUMMIT	7330				-	3.8
OTTER LAKE	9600				8.8	8.4
PANQUITCH LAKE	8200	01/29	-	1.1E	2.9	4.1
PARLEY'S CANYON SUM.	7500	01/29	36	8.2	14.4	12.4
PARLEY'S CANYON SNOT	7500	01/29	-	7.2S	14.4	13.4
PAYSON R.S.	8050	01/29	-	9.2E	9.3	12.2
PAYSON R.S. SNOTEL	8050	01/29	-	6.9S	10.6	14.4
PICKLE KEG SPRING	9600	01/29	-	3.5E	9.2	10.2
PICKLE KEG SNOTEL	9600	01/29	-	4.0S	9.6	11.0
PINE CREEK	8800	01/29	-	5.7E	11.2	11.5
PINE CREEK SNOTEL	8800	01/29	-	7.9S	12.4	13.1
REDDEN MINE LOWER	8500	01/29	-	8.6E	7.1	11.5
RED PINE RIDGE SNOTE	9200	01/29	-	5.8S	10.4	13.3
REES'S FLAT	7300	01/29	-	5.8E	7.3	8.8
ROCK CREEK SNOTEL	7900	01/29	-	3.4S	5.0	5.9
ROCKY BASIN-SETTLENT	8900				14.7	18.9
RUCKY BN-SETTLENT SN	8900	01/29	-	9.6S	11.9	15.7
SEELEY CREEK SNOTEL	10000	01/29	-	3.6S	7.3	10.2
SHINGLE MILL	6200	01/29	-	3.2E	8.2	6.4
SILVER LAKE (BRIGHT.)	8730	01/30	46	13.6	15.8	16.1
SMITH MOREHOUSE SNTL	7600	01/29	-	7.1S	8.6	9.3
SNOWBIRD GAD VALLEY	9700	02/06	71	22.7	27.0	24.6
SNOWBIRD SNOTEL	9700	01/29	-	17.9S	-	-
SPIRIT LAKE	10300	01/29	-	6.4E	8.0	7.8
SQUAW SPRINGS	9300	01/29	-	1.8E	4.5	4.7
STEEL CREEK PARK SMO	10100	01/29	-	7.5S	8.6	10.0
STILLWATER CAMP	8550	01/29	-	5.6E	7.4	7.0
STRAWBERRY DIVIDE	8400				11.6	12.8
STRAWBERRY DIVIDE SN	8400	01/29	-	6.5S	9.6	13.0
STUART R.S.	7950	01/29	-	2.6E	5.1	6.2
SUSC RANCH	8200	02/01	16	2.8	4.8	5.8
TALL POLES	8800	02/01	19	3.2	6.4	9.1
THAYNES CANYON	9200				15.0	14.0
THAYNES CANYON SNOTL	9200	01/29	-	10.9S	12.5	14.0
THISTLE FLAT	8500				-	9.9
TIMPANGOS DIVIDE SN	8140	01/29	-	12.7S	12.8	16.2
TONY GROVE LK SNOTEL	8400	01/29	-	14.9S	23.2	25.4
TONY GROVE R.S.	6250	01/29	-	5.4E	8.5	8.9
TRIAL LAKE	9960	01/29	-	9.7E	10.8	16.1
TRIAL LAKE SNOTEL	9960	01/29	-	9.7S	11.1	16.8
TROUT CREEK SNOTEL	9400	01/29	-	4.3S	5.6	6.9
UPPER JOES VALLEY	8900	01/29	-	3.7E	6.6	7.0
VERNON CREEK SNOTEL	7500	01/29	-	1.9S	4.5	8.2
VIPONT	7670				-	10.1
WEBSTER FLAT SNOTEL	9200	01/29	-	3.6S	8.0	10.1
WHITE RIVER #1 SNOTE	8550	01/29	-	2.2S	6.9	9.0
WHITE RIVER #3	7400	01/29	-	3.9E	6.9	6.3
WIDTSON #3 SNOTEL	9500	01/29	-	2.0S	4.9	7.6
WITGLEY CREEK	9000	01/29	-	3.1E	6.9	7.1
YANKEE RESERVOIR	8700	01/29	-	1.8E	5.2	6.1

STATE OF UTAH GENERAL OUTLOOK

March 1, 1990

SUMMARY

Prospects for improved streamflow next season in Utah dimmed slightly from levels forecast last month. Improvements in the water supply outlook in southern Utah were more than offset by reductions in northern Utah projections. Reservoir storage is slightly better but still below average. March storms will have to yield two to three times normal additional snow water and temperatures will have to be near normal if an average snow year is to be salvaged this season.

SNOWPACK

February snowfall ranged from near normal in northern Utah to more than twice normal on the Uinta Range. March first snow surveys indicate snowpack ranging from 64% of normal in southwestern Utah to 85% on the Uintas. These percentages represent an improvement of as much as 31% from last month. Although greatly improved from earlier surveys, the snowpack still has much room for continued enhancement. March storms will have to provide additional water content ranging from 150 to 281% of normal in order for the snowpack to hold average amounts of water by the first of April (normal time of maximum snowpack). The probability of receiving increases of this magnitude ranges from about one in four years on the Weber to less than one in thirty years on the Bear River watershed and the watersheds of southeastern Utah.

PRECIPITATION

Precipitation at mountain stations during the month of February ranged from near to much above average. Southeastern Utah and the Uintas received the greatest boost with 45 and 71% above average amounts recorded respectively. For the water year, October first through February, mountain sites are still running below to much below normal ranging from 65% in southeastern and southwestern Utah to 84% of average on the Uintas.

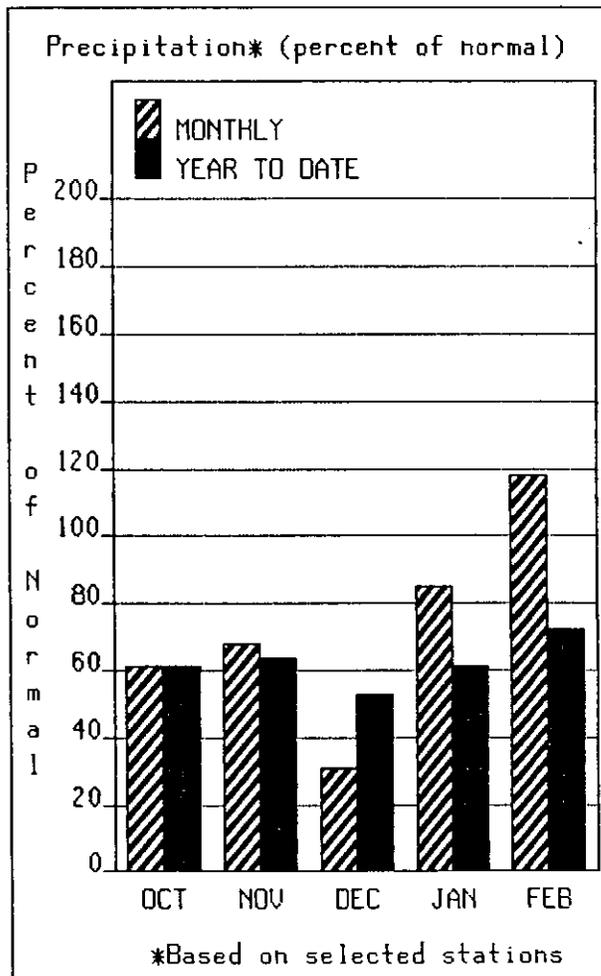
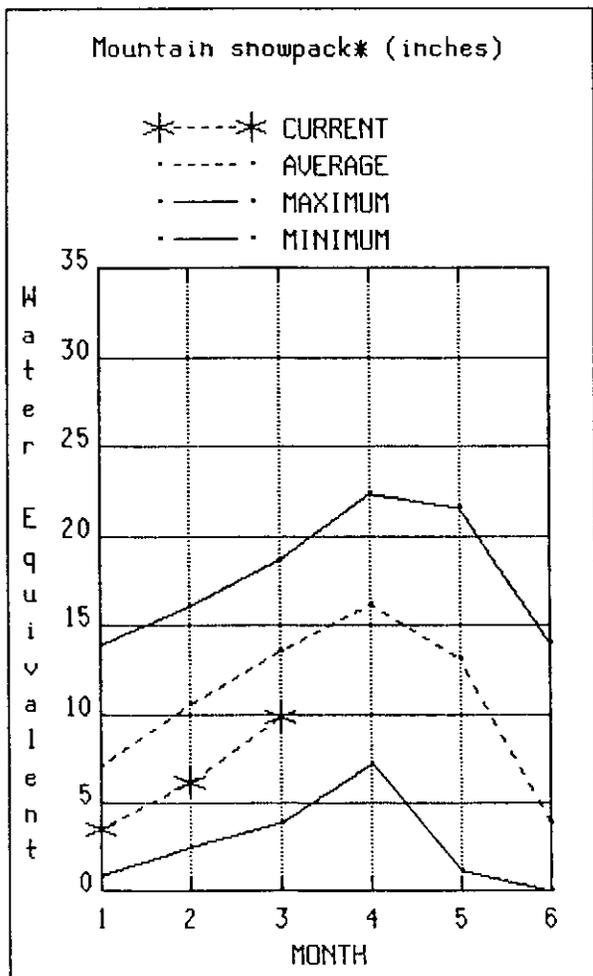
Lower elevation precipitation stations in the National Weather Service network report below average accumulations in the north for the month with the exception of the Utah Lake drainage which was slightly above average. Southern Utah NWS sites report above average rainfall for the month. Seasonal totals at valley stations are running slightly lower, percentagewise, than totals in mountainous areas. Northern Utah stations report below to much below average precipitation with a regionwide average near 60%. Southern Utah stations are also below to much below average for the water year with the regional average near 65%.

RESERVOIRS

Stored water in twenty-six key irrigation reservoirs in the State stands at 87% of average as of the end of February. This amount of storage equates to 59% of capacity (7% less than last year at this time). Normally by the end of February these reservoirs would have 68% of their combined capacity filled. Taken individually, storage in this sample of reservoirs for which we have established averages ranges from 19% of capacity in Scofield to 83% of capacity in Vernon Creek. Compared to average, storage ranges from 30% in Gunnison to 183% in Mill Site.

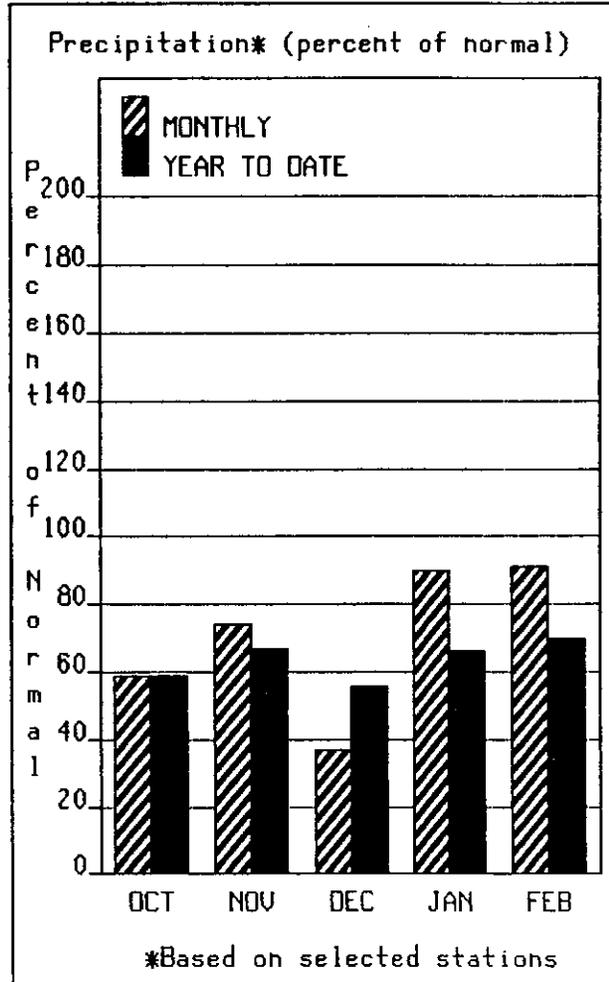
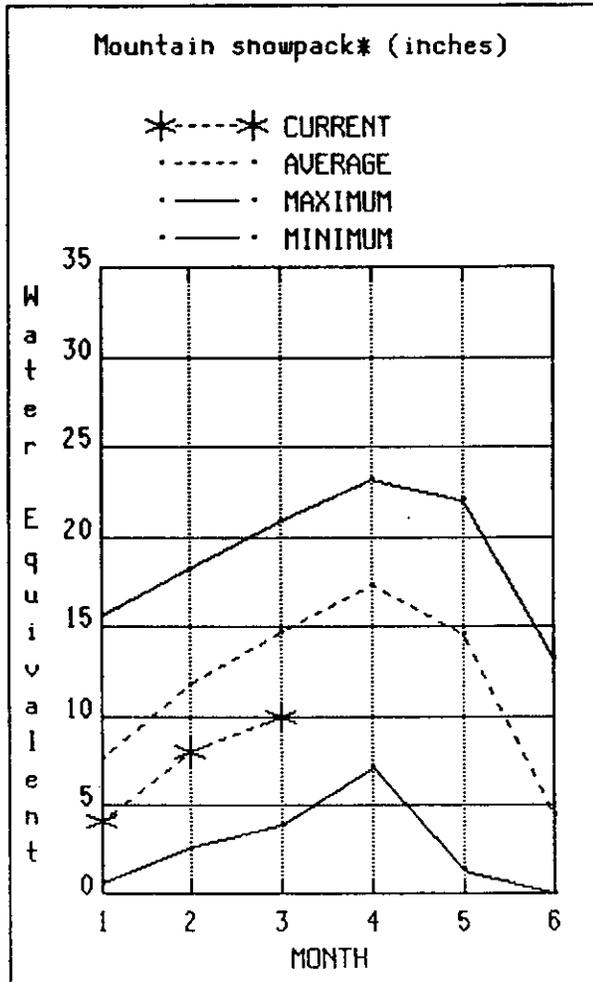
STREAMFLOW

Forecasts of streamflow for the upcoming irrigation season are slightly less in northern Utah and slightly greater in eastern and southern Utah than projected last month. Forecasts across the State range from 16% of average on Salina Creek to 81% on Black's Fork. Uinta Mountain forecasts average near 70% while the rest of the State has forecasts averaging in the 50 to 60% range. March storms would have to be two or three times as wet as usual in order to substantially improve the forecasts by next month. Although the precipitation trend is improving, this degree of improvement is probably not going to occur. Water users should plan on below to much below average streamflows in most areas of the State this spring and summer.



BEAR RIVER BASIN

March 1, 1990



Water content in the Bear River watershed snowpack is 68% of average for the first of March which is 73% of last year at this time. Nearly three times normal March snowfall would be required to reach normal by April first. Mountain precipitation for February was slightly below average bringing water year accumulation (October-February) to 70% of normal. Reservoirs on the Bear are currently holding only 52% of their combined capacity in storage. Last year storage was 58% of capacity at this time. Usually storage would be 70% of capacity by the end of February. Streamflow forecasts on the Bear are down slightly from last month ranging from 38 to 69% of average for next April through July.

BEAR RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		----- CHANCE OF EXCEEDING * -----						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
BEAR RIVER near UT-WY Stateline	APR-JUL	39	63	80	69	97	121	116
BEAR near Woodruff	APR-JUL	15.0	47	88	59	129	190	150
WOODRUFF CREEK near Woodruff	APR-JUL	2.6	6.1	8.5	49	10.9	14.4	17.3
BIG CREEK near Randolph	APR-JUL	0.5	1.2	2.7	51	4.2	6.3	5.3
BEAR near Randolph	APR-JUL	6.0	13.0	50	40	87	143	126
SMITHS FORK near Border	APR-SEP	12.0	34	70	57	107	160	123
THOMAS FORK near Stateline	APR-SEP	3.0	9.0	20	54	31	47	37
BEAR RIVER near Harer	APR-SEP	16.0	81	155	50	230	340	310
BEAR RIVER blw Stewart Dam	APR-SEP	8.0	70	113	38	156	220	298
CUB RIVER near Preston	APR-JUL	9.0	20	27	58	34	45	47
LITTLE BEAR RIVER near Paradise	APR-JUL	2.0	13.0	22	48	31	45	46
LOGAN RIVER near Logan	APR-JUL	25	52	70	57	88	115	122
BLACKSMITH FORK near Hyrum	APR-JUL	3.0	17.0	28	49	39	56	57

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF ----- LAST YR. AVERAGE	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
BEAR LAKE	1421.0	739.3	826.4	992.5	BEAR RIVER, UPPER IN UTAH	6	91	78
HYRUM	15.3	4.7	12.5	10.8	BEAR RIVER, LOWER IN UTAH	9	69	65
PORCUPINE	11.3	4.8	4.5	3.7	BEAR RIVER DRAINAGE IN UT	15	76	70
WOODRUFF NARROWS		NO REPORT			BEAR RIVER, UPPER (above	12	89	78
WOODRUFF CREEK		NO REPORT			BEAR RIVER, LOWER (below	22	66	63
					LOGAN RIVER	5	72	65
					BEAR RIVER DRAINAGE	34	74	68
					RAFT RIVER	4	61	60
					BEAR RIVER BASIN	38	72	68

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

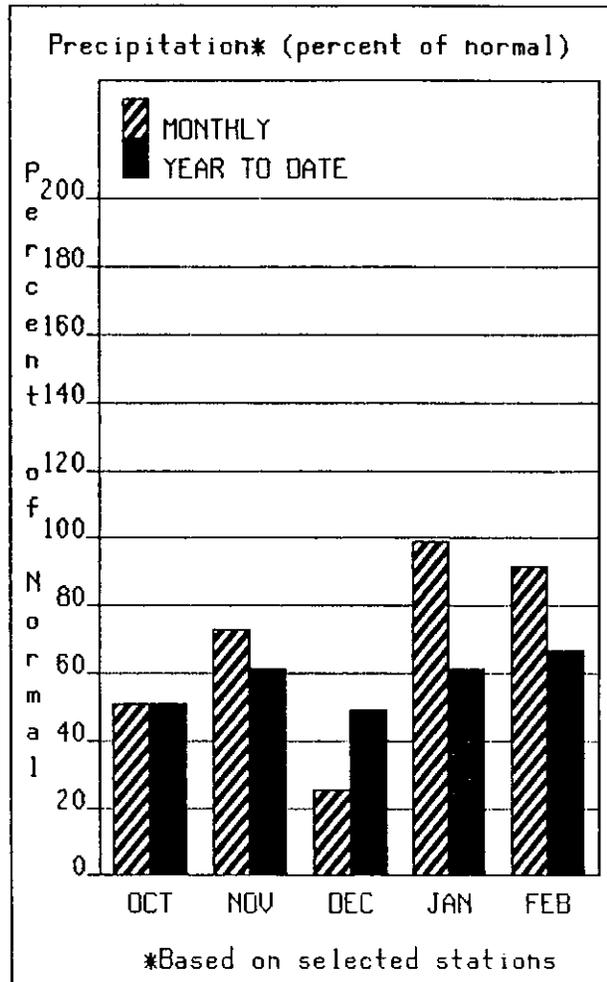
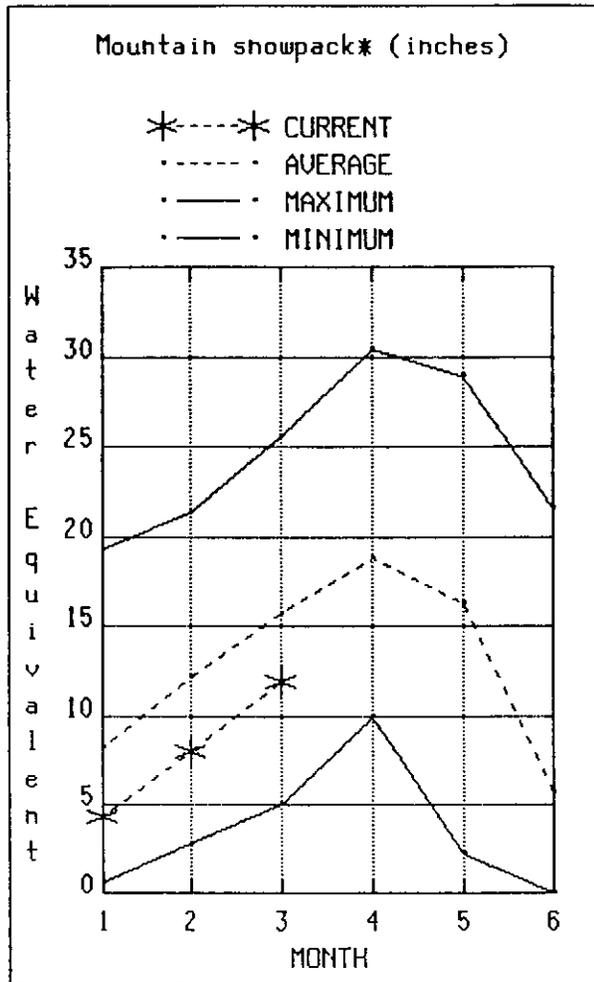
The average is computed for the 1961-1985 base period.

(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 WATERSHEDS in Utah

March 1, 1990



Snowpack on the Weber increased more than normal during February bringing March first snowpack to 76% of average. March snowfall will have to be 74% greater than normal in order to have average April first water content in the snowpack. Precipitation at mountain stations during February was near normal which brings the seasonal total (October-February) to 67% of average. Stored reserves in Weber Basin reservoirs are slightly better than last month at 65% of capacity (112% of average). Usually these reservoirs are holding 58% of capacity by the end of February. Last year they held 54% of capacity at this time. Forecasts of natural streamflow are slightly less than projected last month. Forecasts now range from 44 to 73% of average.

WEBER & OGDEN WATERSHEDS in Utah

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		DRIER		CHANCE OF EXCEEDING *		WETTER		
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)	30%	10%		
SMITH AND MOOREHOUSE CREEK near Oakl	APR-JUN	13.0	18.0	22	73	26	31	30
WEBER RIVER near Oakley	APR-JUL	53	72	84	67	96	115	125
ROCKPORT RESERVOIR inflow	APR-JUL	36	61	78	57	95	120	136
CHALK CREEK at Coalville, Ut	APR-JUL	2.0	11.0	20	44	29	42	45
WEBER RIVER near Coalville, Ut	APR-JUL	30	57	75	53	93	120	142
ECHO RESERVOIR Inflow	APR-JUL	19.0	61	90	52	119	161	174
LOST CREEK near Croyden	APR-JUN	0.8	4.0	7.6	49	11.2	16.4	15.6
EAST CANYON CREEK near Morgan	APR-JUL	1.0	10.0	15.0	48	21	29	31
HARDSCRABBLE CREEK near Porterville	APR-JUN	0.9	4.2	9.0	49	13.8	21	18.4
WEBER RIVER at Gateway	APR-JUL	101	142	170	45	198	240	374
SOUTH FORK OGDEN RIVER near Huntsvil	APR-JUN	13.0	25	33	57	41	53	58
PINEVIEW RESERVOIR inflow	APR-JUN	35	56	70	57	84	105	122
WHEELER CREEK near Huntsville	APR-JUN	1.7	2.8	3.5	56	4.2	5.3	6.3
FARMINGTON CREEK near Farmington	APR-JUL	0.5	2.4	4.5	55	6.6	9.8	8.2

RESERVOIR STORAGE		(1000AF)			WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
CAUSEY	7.1	2.1	2.6	2.3	OGDEN RIVER	4	67	64
EAST CANYON	48.1	34.4	31.6	35.6	WEBER RIVER	15	78	80
ECHO	73.9	47.6	50.5	49.5	WEBER & OGDEN WATERSHEDS	19	75	76
LOST CREEK	22.5	14.8	15.1	13.4				
PINEVIEW	110.1	64.6	33.7	48.7				
ROCKPORT	60.9	37.0	27.7	30.2				
WILLARD BAY	185.0	130.7	115.3	116.4				

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

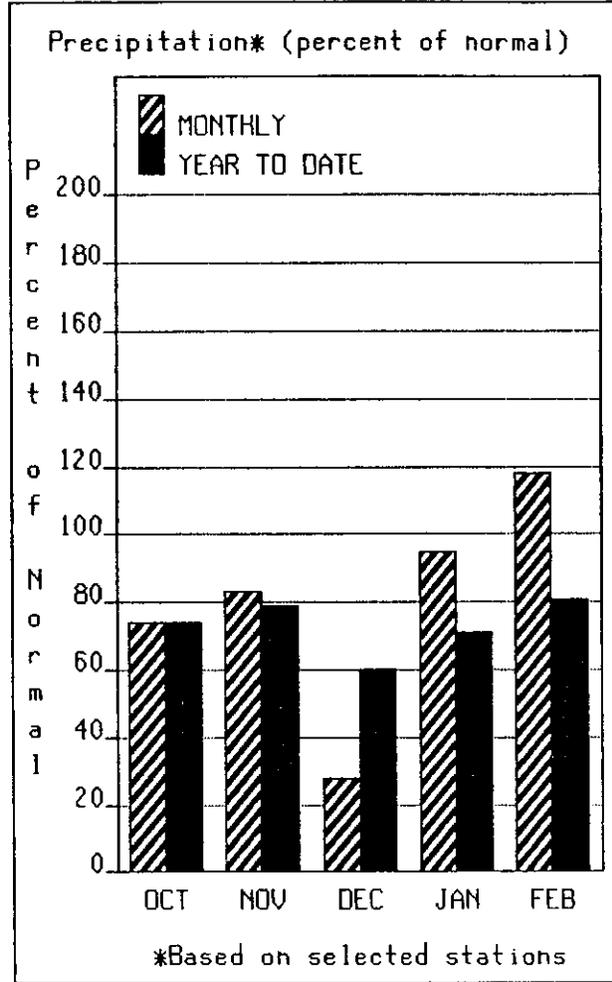
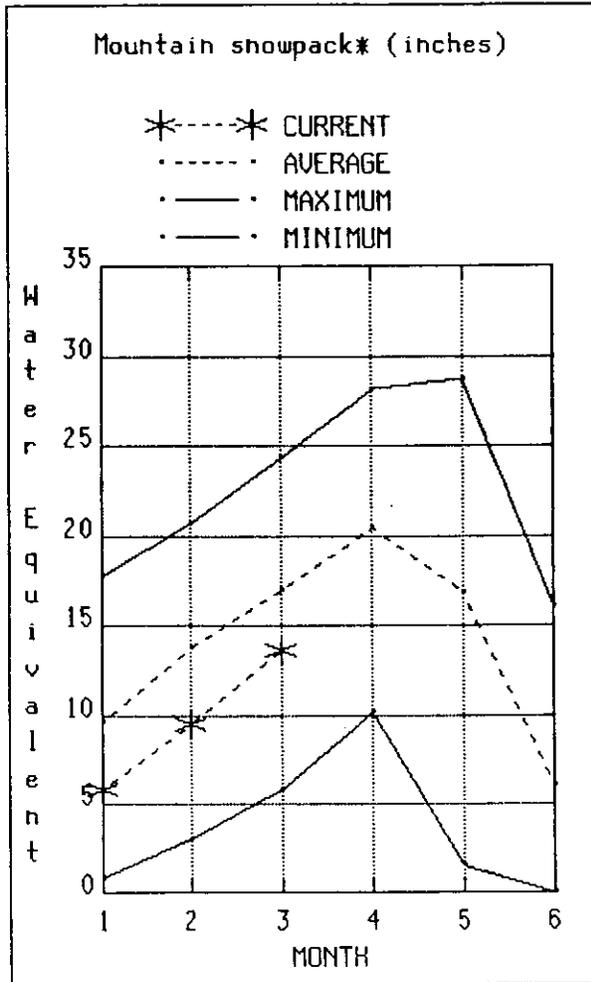
The average is computed for the 1961-1985 base period.

(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 & TOOEELE VALLEY

March 1, 1990



The Utah Lake, Jordan River and Tooele Valley area watersheds received near normal snowpack increases during February. Snow water content is currently 80% of the March first average. March storms would have to yield 185% of normal additional water in order to achieve average by the first of April. Precipitation at mountain stations during February was above normal. Water year precipitation accumulation (since October first) is 81% of average. Area reservoirs currently have 69% of their combined capacity filled which is 88% of average. These reservoirs would normally be holding 78% of their capacity by this time of year. Forecasts of spring and summer streamflow for next season are reduced slightly from last month ranging from 28 to 66%.

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		----- CHANCE OF EXCEEDING * -----						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)	30%	10%	1000AF	
SALT CREEK near Nephi	APR-JUL	0.7	2.4	8.0	59	13.6	22	13.5
PAYSON CREEK near Payson	APR-JUL			4.5	62			7.3
SPANISH FORK near Castilla	APR-JUL			35	44			80
HOBBLE CREEK near Springville	APR-JUL			10.0	43			23
PROVO near Hailstone	APR-JUL	36	59	75	66	91	114	113
PROVO below Deer Creek Dam	APR-JUL	32	61	80	60	99	128	133
AMERICAN FORK near American Fk.	APR-JUL	15.0	19.0	22	65	25	29	34
UTAH LAKE inflow	APR-JUL	34	97	140	47	183	245	295
LITTLE COTTONWOOD CRK near SLC	APR-JUL	18.0	23	26	63	29	34	41
BIG COTTONWOOD CRK near SLC	APR-JUL	18.0	22	25	64	28	32	39
PARLEY'S CREEK near SLC	APR-JUL	2.9	6.5	9.0	53	11.5	15.1	17.0
MILL CREEK near SLC	APR-JUL	0.3	1.4	2.5	36	3.6	5.3	6.9
EMIGRATION CREEK near SLC	APR-JUL			1.5	33			4.6
CITY CREEK near SLC	APR-JUL	0.1	1.5	2.5	28	3.5	4.9	9.0
VERNON CREEK near Vernon	APR-JUN	0.1	0.2	0.6	50	1.0	1.5	1.2
SETTLEMENT CREEK near Tooele	APR-JUL	0.2	0.8	1.5	65	2.2	3.2	2.3
SOUTH WILLOW CREEK near Grantsville	APR-JUL	0.1	0.6	1.5	50	2.4	3.7	3.0

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
DEER CREEK	149.6	108.4	100.6	95.5	PROVO RIVER & UTAH LAKE	9	98	85
GRANTSVILLE	3.3	1.7	1.8	---	PROVO RIVER	4	102	82
SETTLEMENT CREEK	1.0	0.8	0.8	0.5	JORDAN RIVER & GREAT SALT	15	81	83
STRAWBERRY-ENLARGED	951.4	432.4	397.5	---	TOOELE VALLEY WATERSHEDS	6	82	64
UTAH LAKE	855.5	581.6	629.2	689.4	UTAH LAKE, JORDAN RIVER &	30	85	80
VERNON CREEK	0.6	0.5	0.5	0.5				

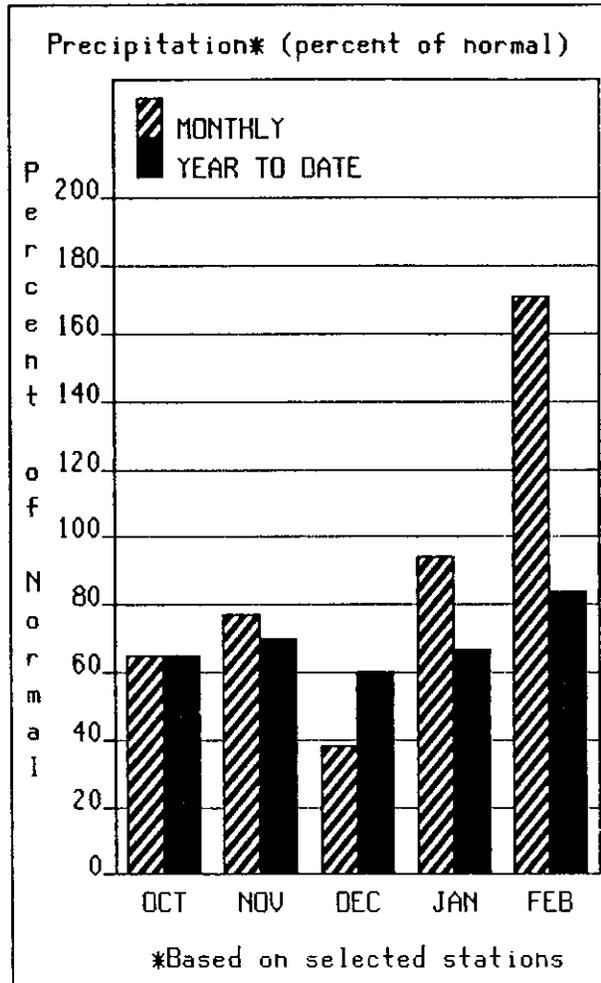
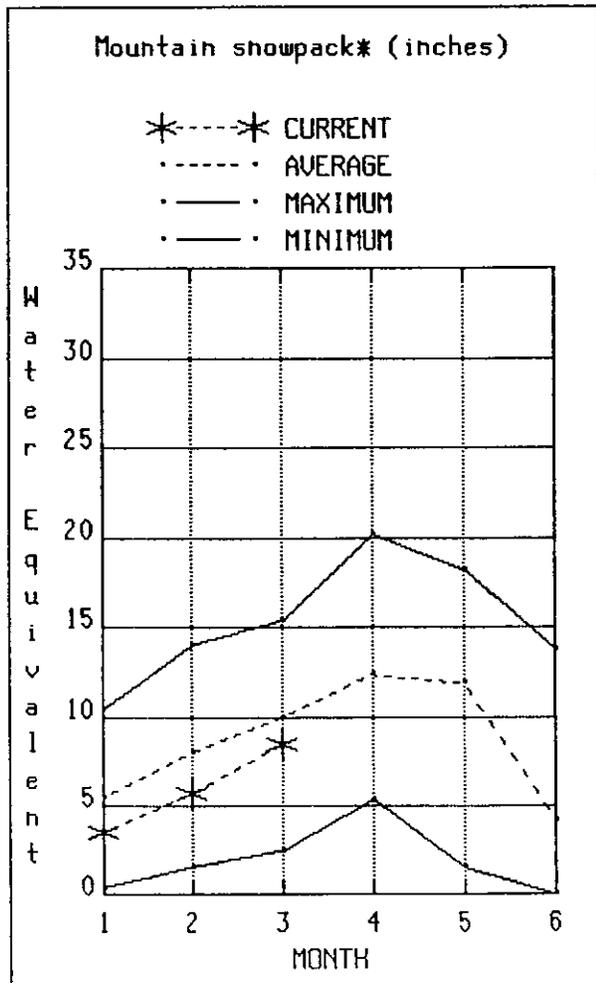
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The average is computed for the 1961-1985 base period.

- (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

March 1, 1990



The Uinta Mountains enjoyed more than twice normal water content augmentation in February which brings the March first snowpack to eighty-five percent of normal (the best in the State). March snowfall would still have to be 50% greater than normal in order to ensure normal snowpack on the first of April. February precipitation at mountain stations was a whopping 71% greater than normal which brings accumulation for the water year to 84% of average. Reservoir storage is 96% of average which is 61% of capacity. Streamflow forecasts average 69% for next irrigation season--an improvement of 6% since last month as a result of the improved snowpack.

UINTAH BASIN & DAGGET SCD'S

STREAMFLOW FORECASTS

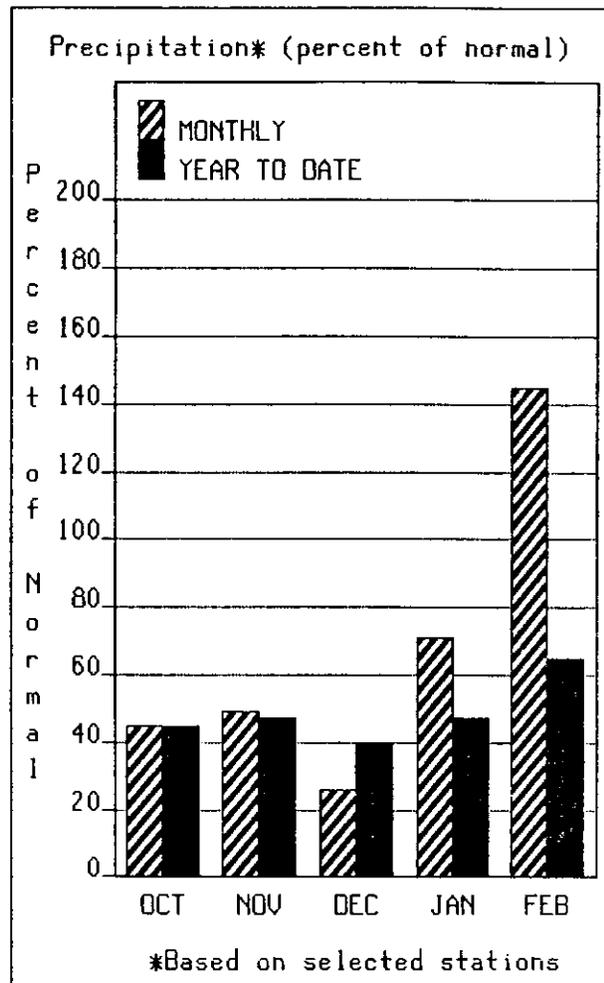
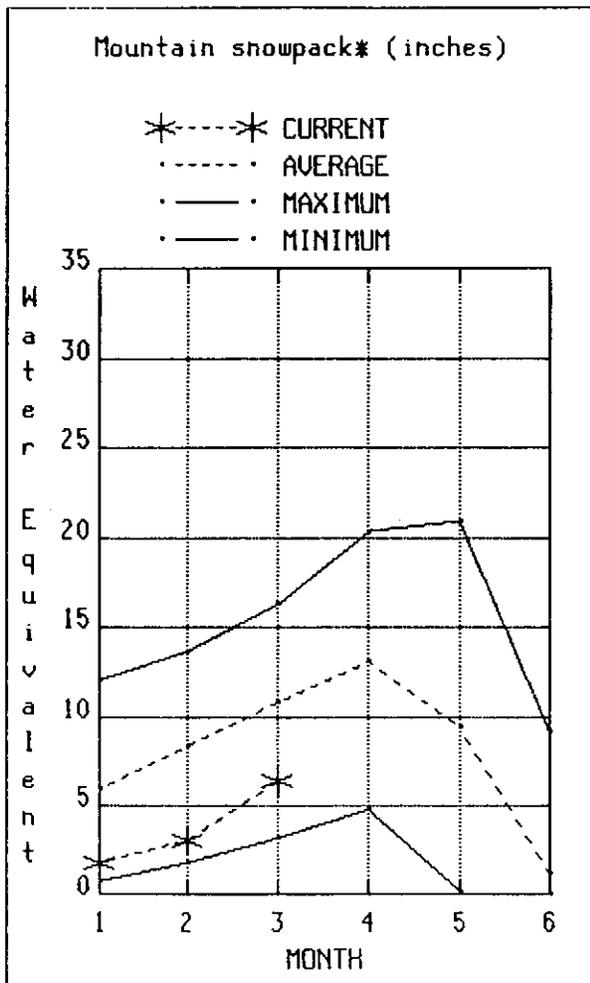
FORECAST POINT	FORECAST PERIOD	----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		----- CHANCE OF EXCEEDING * -----						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	50% (MOST PROBABLE) (% AVG.)	30% (1000AF)	10% (1000AF)	
BLACK'S FORK nr Millburne	APR-JUL	47	65	78	81	91	109	96
EF SMITHS FORK inf to State Line Res	APR-JUL	14.0	20	24	80	28	34	30
HENRY'S FORK nr Manila	APR-JUL	14.0	24	30	67	36	46	45
GREEN RIVER nr Greendale 2	APR-JUL	490	675	800	63	925	1110	1267
BIG BRUSH CREEK ab Red Fleet Res	APR-JUL	11.1	13.7	15.5	78	17.3	19.9	19.8
ASHLEY CREEK nr Vernal 2	APR-JUL	26	33	38	73	43	50	52
WEST FORK DUCHESNE RIVER nr Hanna	APR-JUL	14.0	17.0	19.0	69	22	25	28
DUCHESNE RIVER nr Tabiona	APR-JUL	52	63	71	65	79	90	110
ROCK CREEK nr Mountain Home	APR-JUL	45	57	65	68	73	85	95
DUCHESNE RIVER abv Knight Diversion	APR-JUL	90	112	128	67	144	167	190
STRAWBERRY RIVER nr Soldier Springs	APR-JUL	28	36	42	64	48	56	66
CURRANT CREEK nr Fruitland 2	APR-JUL	10.0	13.0	15.0	64	17.0	20	23
STRAWBERRY RIVER nr Duchesne (natura	APR-JUL	51	65	75	62	85	99	121
STRAWBERRY RIVER inflow to Starvatio	APR-JUL	29	37	42	63	47	55	67
LAKEFORK RIVER blw Moon Lake 2	APR-JUL	36	46	53	75	60	70	71
YELLOWSTONE RIVER nr Altonah	APR-JUL	28	43	52	79	62	76	66
DUCHESNE RIVER at Myton 2	APR-JUL	64	120	159	58	198	255	275
UINTA RIVER nr Neola	APR-JUL	28	50	64	73	79	100	88
WHITEROCKS RIVER nr Whiterocks	APR-JUL	21	35	45	75	55	69	60
DUCHESNE RIVER nr Randlett	APR-JUL	20	91	188	55	285	430	340

RESERVOIR STORAGE		(1000AF)			WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF ----- LAST YR. AVERAGE	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
FLAMING GORGE	3749.0	2946.5	2898.4	---	UPPER GREEN RIVER in UTAH	12	89	83
MOON LAKE	35.8	13.4	8.9	16.8	ASHLEY CREEK	2	82	84
RED FLEET	26.0	13.8	20.0	---	BLACK'S FORK RIVER	3	82	83
STEINAKER	33.3	6.7	17.7	21.1	SHEEP CREEK	2	78	79
STARVATION	165.3	123.8	153.8	112.1	DUCHESNE RIVER	12	96	87
STRAWBERRY-ENLARGED	951.4	432.4	397.5	---	LAKE FORK-YELLOWSTONE CRE	5	101	99
					STRAWBERRY RIVER	4	89	74
					UINTAH-WHITEROCKS RIVERS	2	98	88
					UINTAH BASIN & DAGGET SCD	24	93	85

* 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 1961-1985 base period.
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CARBON, EMERY, WAYNE, GRAND, & SAN JUAN CO

March 1, 1990



Southeastern Utah finally had a month of above average snowfall. The snow water equivalent actually increased 57% more than normal during February leaving March first snowpack at 59% of average (an improvement of 23% since last month). Even though the snowpack has improved dramatically from last month, March storms would have to yield more than two and one-half times normal additional water in order to have average April first water content in the snowpack. February precipitation at mountain stations was much above average bringing seasonal (October-February) accumulation to sixty-five percent of normal. Reservoir storage is only 67% of average. Streamflow forecasts increased slightly and now range from 46 to 66% of average.

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

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		DRIER		50% (MOST PROBABLE)		WETTER		
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
GOOSEBERRY CREEK nr Scofield	APR-JUL	2.0	4.4	6.0	50	7.6	10.0	12.0
SCOFIELD RESERVOIR inflow	APR-JUL	14.0	21	25	54	29	36	46
PRICE RIVER nr Heiner 2	APR-JUL	19.0	27	33	56	39	47	59
GREEN RIVER at Green River, UT 2	APR-JUL	1150	1660	2000	63	2350	2850	3182
HUNTINGTON CREEK inf to Electric Lak	APR-JUL	6.0	8.1	9.5	63	10.9	13.0	15.1
HUNTINGTON CREEK nr Huntington 2	APR-JUL	17.0	25	30	55	35	43	55
Cottonwood Ck nr Orangeville 2	APR-JUL	10.0	18.0	26	55	46	75	47
Ferron Ck nr Ferron	APR-JUL	8.0	16.0	20	49	27	38	41
Colorado R nr Cisco, UT 2	APR-JUL	585	1310	1800	52	2290	3010	3443
Mill Ck nr Moab	APR-JUL	0.9	1.0	2.6	47	4.2	6.5	5.5
Seven Mile Ck nr Fish Lake	APR-JUL	1.7	2.2	4.3	66	6.4	9.4	6.5
Muddy Ck nr Emery	APR-JUL	6.0	8.0	14.0	65	19.0	27	21
San Juan R nr Bluff, UT 2	APR-JUL	196	310	500	46	690	965	1091

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
HUNTINGTON NORTH	3.9	2.7	2.4	3.0	PRICE RIVER	3	109	90
JOE'S VALLEY	61.6	33.9	39.5	44.6	SAN RAFAEL RIVER	7	80	64
KEN'S LAKE	2.3	1.1	0.0	---	MUDDY CREEK	1	80	58
MILL SITE	16.7	7.3	12.9	4.0	FREMONT RIVER	5	71	55
SCOFIELD	65.8	12.4	31.6	32.2	LASAL MOUNTAINS	2	45	40
					BLUE MOUNTAINS	2	48	47
					WILLOW CREEK - WHITE RIVE	2	41	41
					CARBON, EMERY, WAYNE, GRA	22	70	59

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

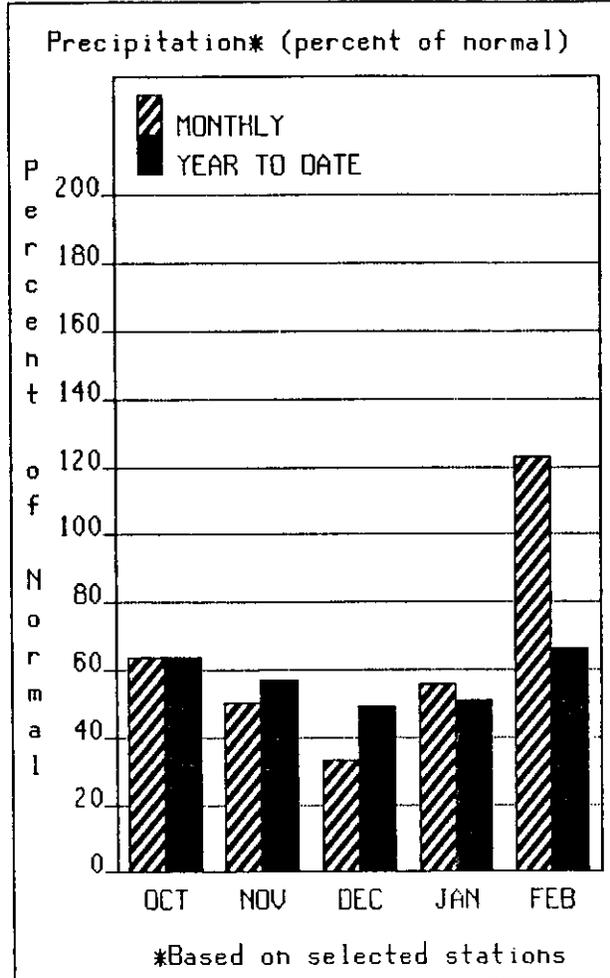
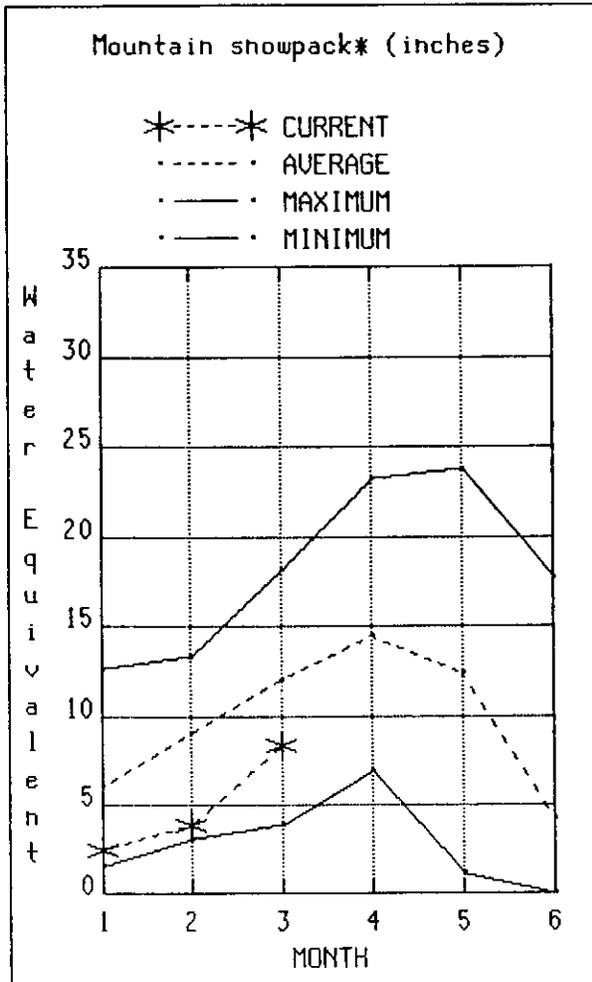
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SEVIER & BEAVER RIVER BASINS

March 1, 1990



Snow water content in the Sevier River watershed snowpack increased 50% more than normal during February bringing March first snowpack to 70% of average. The bad news is that March will have to produce 248% of average if the Sevier is to have average April first water content. Mountain precipitation during February was 123% of normal. For the water year (since October first), mountain precipitation is 66% of normal. Reservoir storage on the Sevier now stands at 60% of capacity--25% less than last year--but still 11% above average. Streamflow forecasts are slightly improved from last month. Forecasts now range from 16% of average on Salina Creek to 64% on Chalk Creek near Fillmore.

SEVIER & BEAVER RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		DRIER		CHANCE OF EXCEEDING *		WETTER		
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
SEVIER at Hatch	APR-JUL	3.0	13.0	22	42	32	45	52
SEVIER near Circleville	APR-JUL			27	61			44
SEVIER near Kingston	APR-JUL	2.0	5.0	17.0	50	30	48	34
ANTIMONY CREEK near Antimony	APR-JUL			5.0	56			8.9
E F SEVIER near Kingston	APR-JUL	1.0	6.0	12.0	50	18.0	28	24
SEVIER blw Piute Dam	APR-JUL	3.0	17.0	35	63	53	80	56
CLEAR CREEK near Sevier	APR-JUL			11.0	50			22
SIGURD to GUNNISON	APR-JUL	2.0	4.0	25	57	46	76	44
KINGSTON to VERMILLION DAM	APR-JUL			12.0	63			18.9
VERMILLION DAM to GUNNISON	APR-JUN			15.0	37			40
SALINA CREEK at Salina	APR-JUN			3.0	16			18.2
PLEASANT CREEK near Pleasant	APR-JUL			6.5	57			11.5
EPHRAIM CREEK near Ephraim	APR-JUL			12.0	48			25
SEVIER nr Gunnison	APR-JUL			45	45			99
CHICKEN CREEK near Levan	APR-JUL	0.4	1.3	2.0	57	2.7	3.6	3.5
OAK CREEK near Oak City	APR-JUL	0.0	0.1	0.8	50	1.5	2.5	1.6
CHALK CREEK near Fillmore	APR-JUL	2.5	7.3	10.5	64	13.7	18.5	16.4
BEAVER RIVER near Beaver	APR-JUL	1.0	7.0	14.0	52	21	31	27
NORTH CREEK near Beaver (combined)	APR-JUL	0.4	0.9	7.0	48	13.1	22	14.6
MINERSVILLE RESERVOIR inflow	APR-JUN	0.7	3.4	7.1	50	10.8	16.3	14.3

RESERVOIR STORAGE		(1000AF)			WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
GUNNISON	20.3	4.2	12.0	14.0	UPPER SEVIER RIVER (south	10	77	65
MINERSVILLE (RkyFd)	26.0	10.4	19.4	12.9	EAST FORK SEVIER RIVER	4	69	61
OTTER CREEK	52.7	24.0	51.7	31.2	SOUTH FORK SEVIER RIVER	6	81	68
PIUTE	71.8	50.5	66.4	41.5	LOWER SEVIER RIVER (inclu	12	90	75
SEVIER BRIDGE	236.0	153.7	195.6	119.6	BEAVER RIVER	2	48	51
PANQUITCH LAKE	22.3	8.2	17.4	---	SEVIER & BEAVER RIVER BAS	24	82	70

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

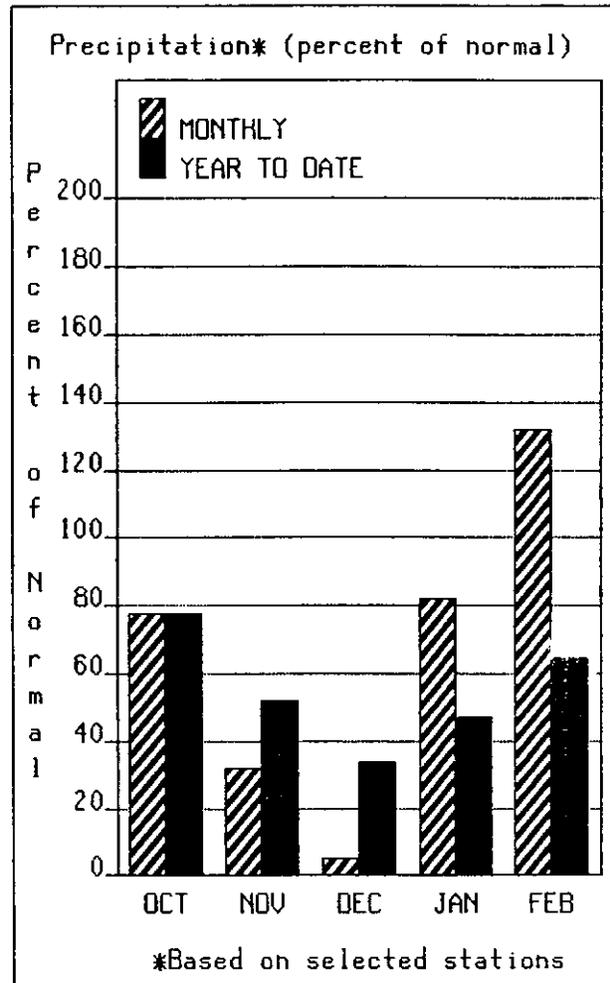
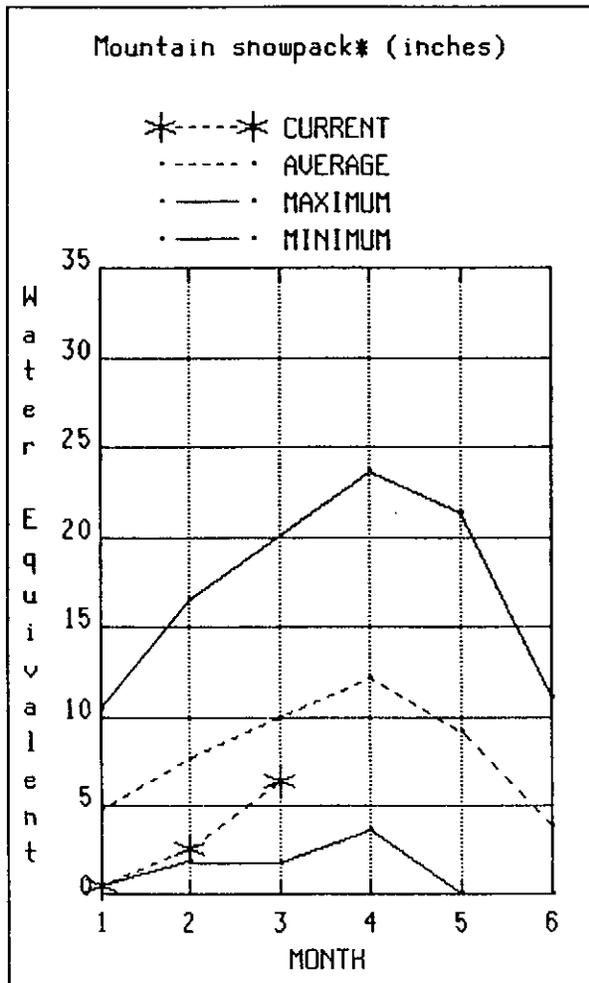
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E. GARFIELD, KANE, WASHINGTON, & IRON Co

March 1, 1990



Southwestern Utah mountains received 70% more additional water content to the snowpack during February than normal leaving March first at 64% of average. March storms will have to provide nearly three times more snow water content than usual if average April first snow water is to be attained. For the first time this water year precipitation at southwestern Utah mountain stations was above normal. Accumulated precipitation for the water year is 65% of normal (98% of last year). Gunlock Reservoir is about 55% of capacity but the Enterprise Reservoirs are still less than 10% of capacity. Streamflow forecasts have improved slightly ranging from 45 to 70% of average for next spring and summer.

E. GARFIELD, KANE, WASHINGTON, & IRON Co.

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS					25 YR. (1000AF)	
		<----- DRIER ----->		----- WETTER ----->				
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)	30% (1000AF)	10% (1000AF)		
Coal Ck nr Cedar City	APR-JUL	3.8	7.5	10.0	50	12.5	16.2	20
Colorado R inflow to Lake Powell 2	APR-JUL	1150	2610	3600	45	4590	6050	8086
Virgin R nr Hurricane	APR-JUN	14.0	30	40	59	50	66	68
Santa Clara R nr Pine Valley	APR-JUN	1.9	3.1	3.5	70	4.6	5.7	5.0

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
GUNLOCK	10.4	5.7	9.0	---	VIRGIN RIVER	5	80	63
LAKE POWELL	25002.0	18196.0	21130.0	---	PAROWAN	4	87	58
QUAIL CREEK		NO REPORT			ENTERPRISE TO NEW HARMONY	2	87	89
UPPER ENTERPRISE	10.0	0.6	0.9	---	COAL CREEK	3	81	60
LOWER ENTERPRISE	2.6	0.5	0.6	---	ESCALANTE RIVER	2	101	66
					E. GARFIELD, KANE, WASHIN	14	85	64

* 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 DATE
FOR THE STATE OF UTAH
As of MARCH 1, 1990

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
ALTA CENTRAL	8800	03/01	75	27.9	31.0	30.3	DONKEY RESERVOIR SNO	9800	02/26	31	4.4S	4.2	6.7
ASHLEY TWIN LAKES	10500	02/28	43	8.6	9.8	13.6	DRY BREAD POND	8350	02/22	41	11.5	13.5	16.0
BEAVER DAMS	8000	02/23	28	6.8	8.1	10.5	DRY BREAD POND SNOTL	8350	02/26	-	11.6S	-	16.0
BEAVER DAMS SNOTEL	8000	02/26	-	6.7S	7.2	10.5	EAST SHINGLE LAKE	9800	02/28	66	19.1	17.7	22.8
BEAVER DIVIDE SNOTL	8280	02/26	36	9.7S	8.2	11.0	EAST WILLOW CREEK SN	8250	02/26	-	5.5S	6.9	9.9
BEN LOMOND PK SNOTL	8000	02/26	69	20.8S	34.6	33.3	FARMINGTON CANYON L.	6950	02/22	51	14.5	25.1	20.0
BEN LOMOND TR SNOTL	6000	02/26	41	9.9S	17.6	18.7	FARMINGTON CN SNOTEL	8000	02/26	61	19.1S	32.8	25.0
BEVAN'S CABIN	6450	02/27	34	9.4	9.6	8.8	FARNSWORTH LAKE	9600	02/23	44	10.7	13.4	15.5
BIG FLAT SNOTEL	10290	02/26	38	6.5S	15.1	14.1	FARNSWORTH LK SNOTEL	9600	02/26	-	10.5S	13.3	15.5
BIRCH CROSSING	8100	03/02	14	4.2	4.8	6.4	FISH LAKE	8700	02/23	13	2.4	6.7	7.4
BLACK FLAT-U.M. CK S	9400	02/26	34	5.3S	6.8	10.1	FIVE POINTS LAKE SNO	10920	02/26	-	12.7S	11.6	10.4
BLACK'S FORK GS-EF	9340	02/23	25	7.3	7.2	7.6	FRANCES FLATS	8700	03/01	36	11.1	20.3	18.1
BLACK'S FORK JUNCTN	8930	02/23	28	6.2	7.7	7.6	G.B.R.C. HEADQUARTER	6700	02/23	45	11.8	12.7	14.2
BLACK'S FORK SNOTEL	9300	02/26	31	5.6S	10.4	11.1	G.B.R.C. MEADOWS	10000	02/23	55	14.1	14.3	20.0
BRIAN HEAD	10000	02/22	44	9.6	10.8	16.5	GARDEN CITY SUMMIT	7600	02/22	31	7.9	11.1	15.4
BRIGHTON CABIN	8700	03/01	60	21.4	22.1	23.2	GEORGE CREEK	8840	03/01	43	12.1	19.1	18.1
BRIGHTON SNOTEL	8750	02/26	58	20.4S	22.1	29.3	GOOSEBERRY R.S.	8000	02/23	35	8.7	9.3	10.1
BROWN DUCK SNOTEL	10600	02/26	61	12.7S	11.9	16.2	GOOSEBERRY R.S. SNOT	8000	02/26	-	7.6S	7.4	9.9
BRYCE CANYON	8000	03/02	15	3.8	3.2	4.6	HARDSCRABBLE	6700	02/22	42	12.1	18.4	17.0
BUCK FLAT SNOTEL	9800	02/26	38	8.2S	13.6	14.3	HARRIS FLAT	7700	02/23	25	5.7	7.4	7.9
BUCK PASTURE	9700	02/28	43	12.5	11.7	13.5	HARRIS FLAT SNOTEL	7700	02/26	-	3.2S	3.7	7.7
BUCKBOARD FLAT	9000	02/27	24	5.6	11.0	10.8	HAYDEN FORK	9400	02/23	41	10.3	10.5	12.9
BUG LAKE SNOTEL	7950	02/26	44	11.9S	14.8	18.0	HAYDEN FORK SNOTEL	9100	02/26	-	11.2S	14.3	14.0
BURT'S-MILLER RANCH	7900	02/23	19	4.5	5.3	4.6	HENRY'S FORK	10000	02/28	35	9.1	7.4	11.3
CAMP JACKSON	8600	02/27	19	4.8	10.7	11.5	HEWINTA SNOTEL	9500	02/26	31	7.6S	7.9	7.5
CAMP JACKSON SNOTEL	8600	02/26	-	5.5S	12.4	11.5	HICKERSON PARK SNOTE	9100	02/27	23	4.4S	6.2	5.5
CASTLE VALLEY	9580	02/22	33	7.4	8.3	11.4	HIDDEN SPRINGS	5500	03/01	10	4.3	8.5	6.0
CASTLE VALLEY SNOTL	9580	02/26	-	6.0S	8.6	11.5	HOBBLE CREEK SUMMIT	7420	02/24	42	11.3	12.5	12.9
CHALK CK #1 SNOTEL	9100	02/26	57	14.7S	19.2	19.4	HOLE-IN-ROCK SNOTEL	9150	02/26	24	4.4S	5.1	4.5
CHALK CK #2 SNOTEL	8200	02/26	42	12.5S	14.4	12.6	HORSE RIDGE SNOTEL	8260	02/26	56	15.8S	20.2	21.1
CHALK CREEK #3	7500	02/23	23	5.2	7.5	6.7	HUNTINGTON-HORSESHOE	9800	02/24	46	13.3	16.9	21.3
CHEPETA SNOTEL	10300	02/27	44	9.8S	11.0	10.4	INDIAN CANYON SNOTEL	9100	02/26	44	8.4S	7.1	9.9
CITY CREEK	7500	03/01	50	17.1	24.9	22.7	JOHNSON VALLEY	8850	02/23	19	3.4	6.8	6.4
CLEAR CK RIDG #1 SNT	9200	02/26	55	15.2S	16.3	16.9	KILFOIL CREEK	7300	02/22	41	10.4	12.8	12.5
CLEAR CK RIDG #2 SNT	8000	02/26	49	9.9S	12.0	12.8	KILLYON CANYON	6300	03/01	13	4.8	10.2	6.9
CLEAR CREEK MEADOWS	9420	03/01	44	12.0	20.7	19.3	KIMBERLY MINE SNOTEL	9300	02/26	44	8.9S	11.3	13.1
CLEAR CREEK RIDGE #3	6600	02/24	31	7.9	7.4	7.5	KING'S CABIN SNOTEL	8730	02/26	44	7.8S	9.4	9.7
CURRENT CREEK SNOTEL	8000	02/26	36	8.0S	8.6	10.4	KLONDIKE NARROWS	7400	02/22	40	11.2	16.1	17.4
DANIELS-STRABERRY S	8000	02/26	47	11.3S	14.7	15.8	KOLOBO SNOTEL	9250	02/26	-	10.3S	12.1	18.1
DESERET PEAK	9250	03/02	34	10.0	15.3	22.2	LAKEFORK #1 SNOTEL	10100	02/26	46	9.0S	9.6	9.6
DESERET PEAK AM	9250	02/27	33	8.9	13.3	22.2	LAKEFORK BASIN SNOTE	10900	02/26	-	13.7S	14.6	13.2
DESERET PEAK SNOTEL	9250	02/26	-	10.9S	15.6	22.2	LAKEFORK MOUNTAIN #3	8400	02/24	30	6.3	5.9	5.7
DILL'S CAMP SNOTEL	9200	02/26	33	7.0S	8.7	12.0	LAMBS CANYON	7400	02/26	40	11.5	15.4	14.2

ICM COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE YEAR 1961-85	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE YEAR 1961-85
ISAL MOUNTAIN LOWER	8800	03/06	16	2.7	7.3	7.8	ROCKY BN-SETTLEMENT SN	8900	02/26	-	14.7S	16.6	19.5
ISAL MOUNTAIN SNOTE	9850	02/26	31	5.3S	10.6	12.0	SEELEY CREEK SNOTE	10000	02/26	28	7.3S	10.7	13.9
LILY LAKE SNOTE	9050	02/26	40	8.7S	9.1	11.7	SHINGLE MILL	6200	02/28	30	7.2	8.4	7.8
LITTLE BEAR SNOTE	6550	02/26	32	9.2S	13.5	13.6	SILVER LAKE(BRIGHT.)	8730	02/27	57	18.8	20.4	20.6
LITTLE GRASSY CREEK	6100	02/22	22	5.4	6.4	4.0	SMITH MOREHOUSE SNTL	7600	02/26	42	11.7S	13.8	12.5
LITTLE GRASSY SNOTE	6100	02/26	-	4.6S	4.1	4.0	SNOWBIRD GAD VALLEY	9700	02/24	95	36.6	30.0	28.1
MNG FLAT SNOTE	8000	02/26	22	4.7S	5.2	7.3	SNOWBIRD SNOTE	9700	02/26	-	25.4S	-	29.3
MNG VALLEY JCT.	7500	02/23	21	4.5	5.8	4.9	SPIRIT LAKE	10300	02/27	36	7.9	9.6	10.1
MNG VALLEY JCT. SNT	7500	02/26	-	5.1S	7.0	4.9	SQUAW SPRINGS	9300	02/23	18	3.5	8.1	6.6
OKOUT PEAK SNOTE	8200	02/26	54	14.7S	21.6	20.5	STEEL CREEK PARK SNO	10100	02/26	41	9.6S	13.2	12.8
OST CREEK RESERVOIR	6130	02/22	18	3.9	6.9	5.8	STILLWATER CAMP	8550	02/23	33	7.7	8.8	8.6
AMMOTH-COTTONWOOD SNT	8800	02/26	-	13.5S	16.1	20.4	STRAWBERRY DIVIDE SN	8400	02/26	-	12.7S	15.2	18.6
AMMOTH-COTTONWOOD	8800	02/24	53	14.9	15.5	18.4	STUART R.S.	7950	02/24	28	6.2	6.5	7.4
ARCHANT VALLEY SNOT	8750	02/26	32	5.5S	10.1	9.4	SUSC RANCH	8200	03/02	16	4.7	5.0	7.7
IDDLE CANYON	7000	02/27	38	11.3	11.7	11.7	TALL POLES	8800	03/02	26	7.0	7.5	12.2
IDWAY VALLEY	9800	02/22	44	10.8	12.9	18.1	THAYNES CANYON SNOTL	9200	02/26	57	15.9S	18.3	17.9
IDWAY VALLEY SNOTE	9800	02/26	-	12.3S	13.1	17.4	THISLE FLAT	8500	-	-	-	-	13.8
ILL CREEK	6950	02/26	46	13.4	17.4	16.3	TIPPAWOGOS DIVIDE SN	8140	02/26	67	18.7S	17.0	21.1
ILL-D NORTH SNOTE	8960	02/26	50	15.4S	23.5	24.5	TONY GROVE LK SNOTE	8400	02/26	69	20.8S	31.3	31.6
ILL-D SOUTH FORK	7400	02/27	46	15.2	16.2	17.2	TRAIL GROVE R.S.	6250	02/22	33	8.0	9.7	11.1
INING FORK SNOTE	8000	02/26	38	9.2S	15.6	21.5	TRIAL LAKE	9960	02/24	59	16.5	15.4	20.6
ONTE CRISTO R.S.	8960	02/22	51	15.1	20.1	21.6	TRIAL LAKE SNOTE	9960	02/26	-	14.6S	18.3	20.4
ONTE CRISTO SNOTE	8960	02/26	-	19.1S	27.3	24.3	TROUT CREEK SNOTE	9400	02/27	34	7.1S	8.8	8.1
OSBY MTN. SNOTE	9500	02/27	40	7.8S	7.0	9.7	UPPER JOES VALLEY	8900	02/24	35	7.5	7.4	9.6
T.BALDY R.S.	9500	02/23	51	12.4	16.0	20.2	VERNON CREEK SNOTE	7500	02/26	-	5.1S	5.6	9.8
UD CREEK #2	8600	02/24	51	11.4	9.6	11.9	VIPONT	7670	03/01	30	7.7	13.0	13.4
AK CREEK	7760	02/22	45	10.4	8.0	11.4	WEBSTER FLAT SNOTE	9200	02/26	42	9.2S	10.7	12.4
NE MILE SUMMIT	7330	03/01	11	2.3	3.3	6.0	WHITE RIVER #1 SNOTE	8550	02/26	32	8.6	9.1	12.7
ITTER LAKE	9600	02/22	14	3.3	4.2	11.6	WHITE RIVER #3	7400	02/24	33	6.5S	8.2	7.9
ANQUITCH LAKE	8200	02/26	-	11.9S	18.8	16.9	WIDTSONE #3 SNOTE	9500	02/26	38	7.0	6.6	9.7
ARLEY'S CANYON SNOT	7500	02/26	43	12.0	17.4	16.0	WRITLEY CREEK	9000	02/23	21	4.3	5.7	8.0
ARLEY'S CANYON SUM.	8050	02/22	54	14.8	14.5	16.6	YANKEE RESERVOIR	8700	02/22	-	-	-	-
AYSON R.S.	8050	02/26	-	14.0S	15.4	19.2							
AYSON R.S. SNOTE	8050	02/26	-	7.3S	12.9	15.3							
ICKLE KEG SNOTE	9600	02/23	32	7.7	11.5	14.6							
ICKLE KEG SPRING	9600	02/22	44	11.7	12.4	14.0							
INE CREEK	8800	02/26	-	12.7S	14.5	15.9							
INE CREEK SNOTE	8800	02/26	45	10.9S	13.3	17.5							
IED PINE RIDGE SNOTE	8500	02/23	49	13.9	13.2	15.2							
EDDEN MINE LOWER	7300	02/22	41	9.9	10.3	11.2							
EESE'S FLAT	7900	02/26	27	6.2S	6.7	6.7							
OCK CREEK SNOTE	8900	02/27	57	17.5	18.5	23.4							
OCKY BASIN-SETTLEMENT	8900	02/27	57	17.5	18.5	23.4							

NOTE:
The "u" flag following Water Content for SNOTE sites indicates telemetered data, the Depth reading preceding "u" 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.

STATE OF UTAH GENERAL OUTLOOK

APRIL 1, 1990

SUMMARY

Prospects for adequate streamflow this spring and summer in Utah are poor with the summary of forecasts across the state averaging only 55% of usual. Reservoir storage is still 10% below average. Only heavy and properly timed spring and summer rains can offset the shortages that are facing the Utah water user this year.

SNOWPACK

The 1990 snowpack accumulation season practically stalled in March ending any hopes for a near normal snow year. The watersheds of southwestern Utah and the Bear River watershed suffered a net loss in snow water content during the month while other areas received increases ranging from 21% of average on the Provo-Utah Lake-Jordan River-Tooele Valley watersheds to 100% of average on the Uintas. Across the State, snowpack ranges from 50% of the April first average in southwestern Utah to 88% on the Uintas. Snowmelt began early again this year in most areas. With the exception of the Uintas, the melt began one to two weeks earlier than usual.

PRECIPITATION

March precipitation at mountain stations was below normal in all areas of the State--a major disappointment since March is historically one of our wettest months. Precipitation ranged from 55% of normal on the Weber River watershed to 81% on the Uinta Mountains and the Sevier River watershed during March. Statewide precipitation for the month was 71% of normal. Water year totals (October first through March) range from 62% of normal in southeastern Utah to 84% on the Uinta Mountains with the total for the State at 72% of average.

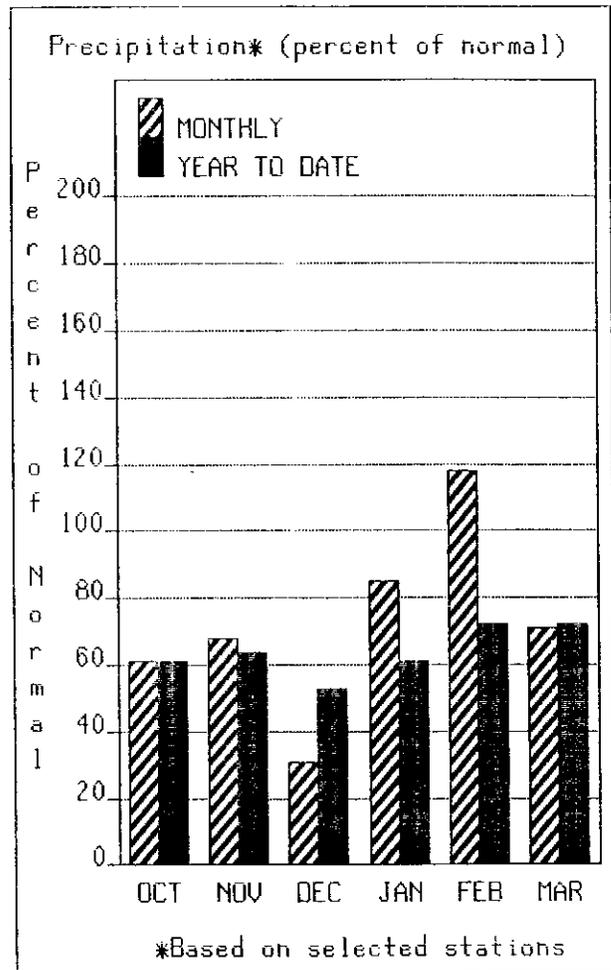
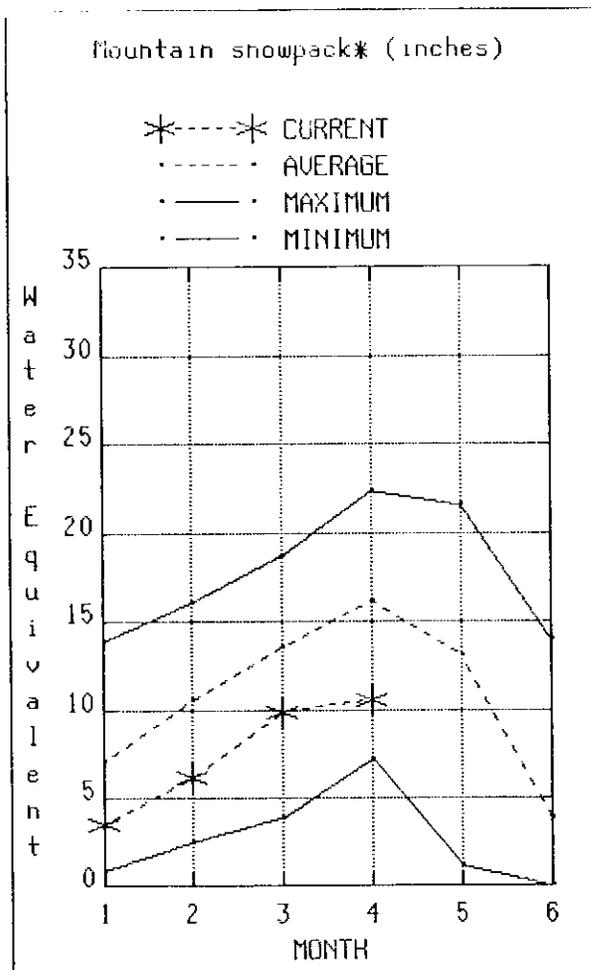
Lower elevation precipitation stations of the National Weather Service network report March values received at below to near average. The Six creeks area near Salt Lake received 95%. Southwestern Utah received below normal rainfall and eastern Utah figures were normal to above. Seasonal precipitation values remain below average with the lowest in eastern Utah (55%-75% of average).

RESERVOIRS

Reservoir managers are striving to accumulate stored water in the face of this season's poor outlook for streamflow. Statewide, the percentage of average stored on April 1st is up some from the March 1st volumes to 90% of average. This level of storage equates to 63% of capacity (9% less than last year at this time). Taken individually, storage in the 26 major reservoirs ranges from 21% of capacity in Scofield to 100% of capacity for Vernon Creek. Compared to average, storage ranges from 36% at Steinaker to 165% at Mill Site.

STREAMFLOW

Poor snowpack accumulation and warmer than usual temperatures have reduced streamflow predicitions across Utah to only 55% of the average flows. The Sevier River and Virgin River are the hardest hit with only 25% of average expected in one of the reaches of the Sevier River. Southern Utah snowpacks are melting much earlier than usual as well. Forecasts over the rest of the State are a poor 50% of average. The Uinta range with the best snowpack in Utah is expected to produce flows at about one-third below normal. Water users and managers all across Utah should be prepared for significant flow shortages and earlier than usual peaks. Only much above average spring and summer precipitation can offset the shortages that are ahead.



BEAR RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
BEAR RIVER near UT-WY Stateline	APR-JUL	42	65	80	69	95	118	116
BEAR near Woodruff	APR-JUL	15.0	48	88	59	129	188	150
WOODRUFF CREEK near Woodruff	APR-JUL	3.3	6.4	8.5	49	10.6	13.7	17.3
BIG CREEK near Randolph	APR-JUL	0.5	1.1	2.6	49	4.1	6.2	5.3
BEAR near Randolph	APR-JUL	10.0	19.0	45	36	80	131	126
SMITHS FORK near Border	APR-SEP	12.0	36	70	57	104	154	123
THOMAS FORK near Stateline	APR-SEP	4.0	9.0	19.0	51	29	44	37
BEAR RIVER near Harer	APR-SEP	31	83	150	48	215	315	310
BEAR RIVER blw Stewart Dam	APR-SEP	10.0	69	108	36	148	205	298
CUB RIVER near Preston	APR-JUL	11.0	19.0	24	51	30	38	47
LITTLE BEAR RIVER near Paradise	APR-JUL	4.0	6.0	15.0	33	24	37	46
LOGAN RIVER near Logan	APR-JUL	30	48	60	49	72	90	122
BLACKSMITH FORK near Hyrum	APR-JUL	6.0	15.0	25	44	35	49	57

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF -----	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
BEAR LAKE	1421.0	746.6	869.0	1002.1	BEAR RIVER, UPPER IN UTAH	6	83	72
HYRUM	15.3	14.4	10.9	12.2	BEAR RIVER, LOWER IN UTAH	9	52	46
PORCUPINE	11.3	6.6	---	5.0	BEAR RIVER DRAINAGE IN UT	15	63	55
WOODRUFF NARROWS	55.8	17.5	18.4	---	BEAR RIVER, UPPER (above	12	82	72
WOODRUFF CREEK		NO REPORT			BEAR RIVER, LOWER (below	22	47	42
					LOGAN RIVER	5	58	53
					BEAR RIVER DRAINAGE	34	60	53
					RAFT RIVER	4	66	64
					BEAR RIVER BASIN	38	61	54

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

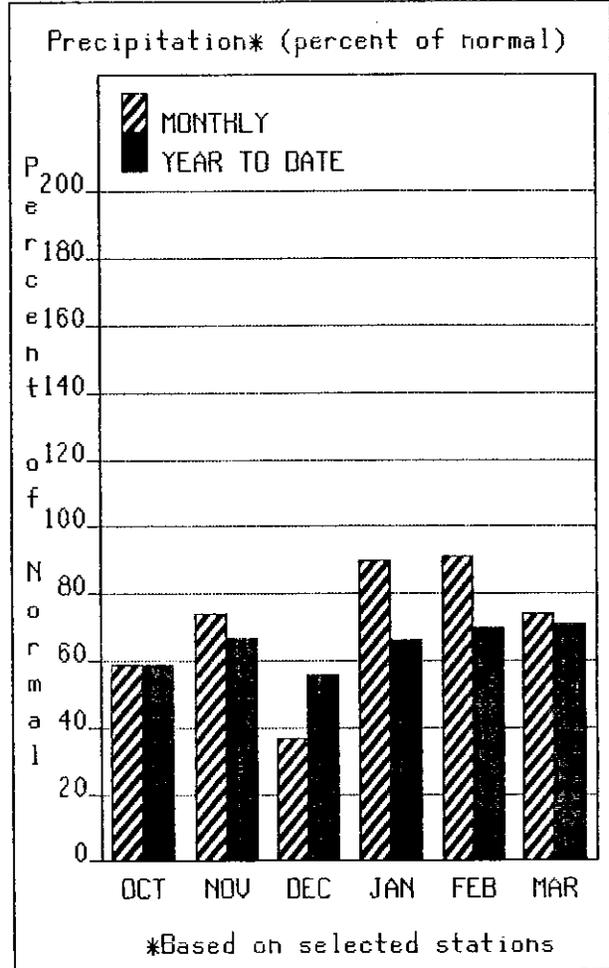
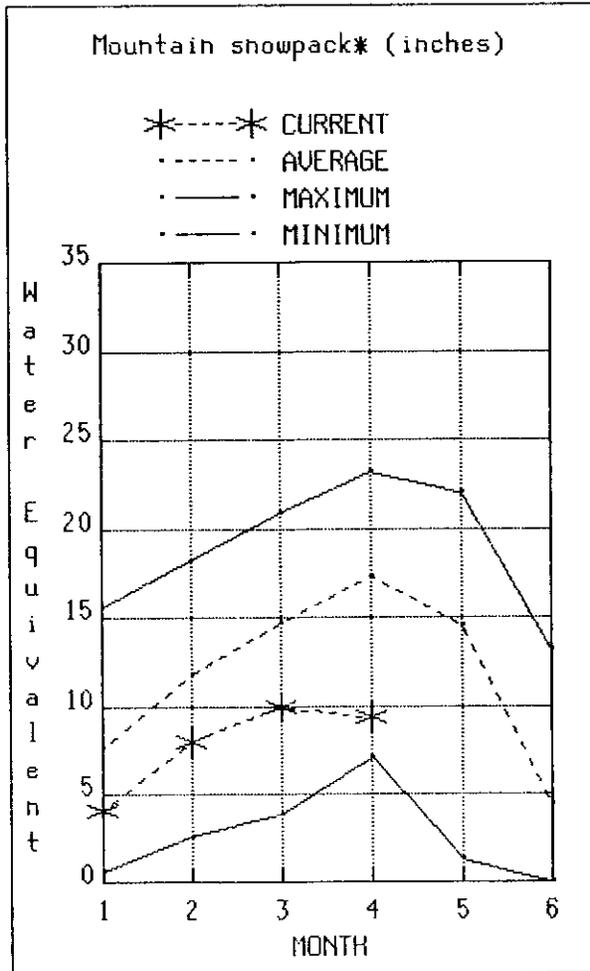
The average is computed for the 1961-1985 base period.

(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.

BEAR RIVER BASIN

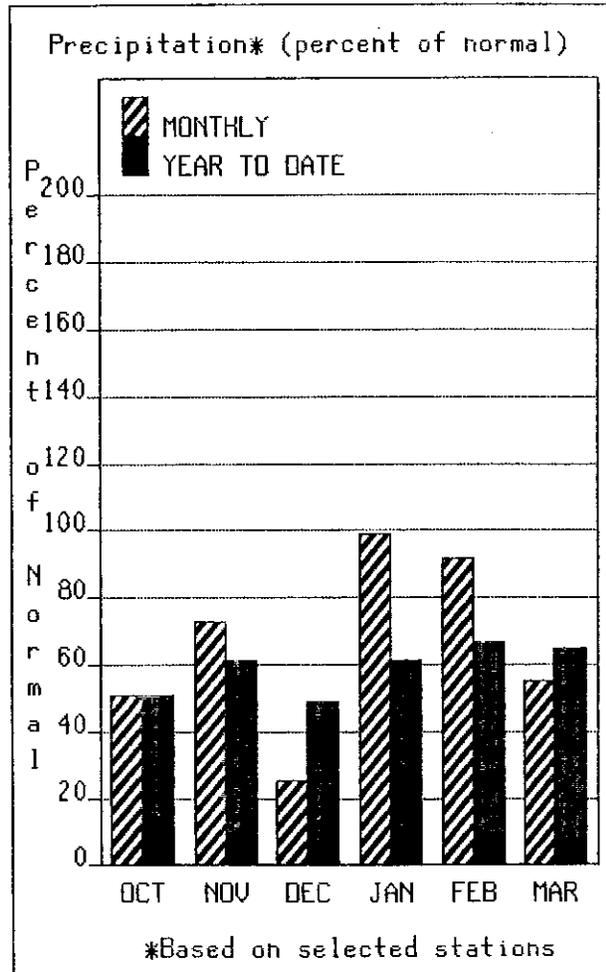
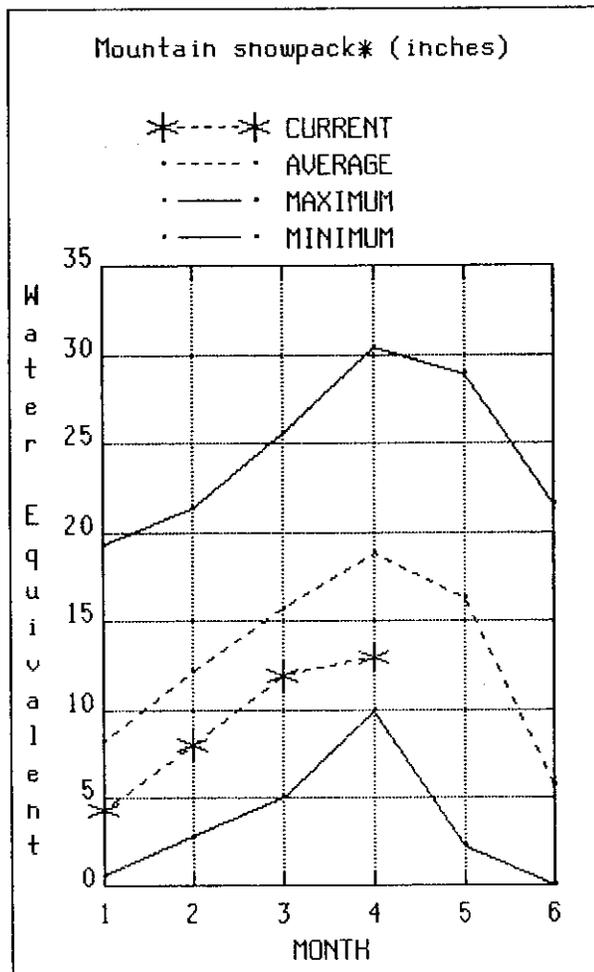
APRIL 1, 1990



Snowpack on the Bear River watershed suffered a very unusual occurrence during March--a net loss of snow water content. This has only happened three other years since 1961. This March the snowpack lost 0.7 inches. Normally the snowpack should gain 2.6 inches of water during March. Snowmelt commenced about two weeks earlier than usual this year on the Bear. Precipitation at mountain stations was 74% of average during March bringing water year accumulation to 71% of normal. Area reservoirs at the end of March were holding 53% of their combined capacity in storage (seventy-five percent of average). Normally 70% of capacity would be filled by this time of year. Last year 61% of capacity was filled. Forecasts of spring and summer streamflow are reduced somewhat from the March first outlook to a basin average of 49%. Shortages of runoff will be experienced this season as well as continued low water levels at Bear Lake.

WEBER & OGDEN WATERSHEDS in Utah

APRIL 1, 1990



During a normal March, snow water content would increase by 3.1 inches. This March an increase of only 1.3 inches was realized (forty-two percent of normal). April first surveys indicate a snowpack with only 70% of normal water content. Melt began approximately two weeks ahead of normal. The early demise of the snow accumulation season this year was not only brought about by higher than normal temperatures but much below average precipitation during March. Mountain precipitation for the month was only 55% of normal (less than half as much as last March). Seasonal accumulation is down to 65% of normal. Reservoir storage is 17% above average. Poor runoffs are forecasted for this spring and summer. Pineview Reservoir inflow is expected worst at 31% of average with Smith & Morehouse Creek the most promising at 76% of average.

WEBER & OGDEN WATERSHEDS in Utah

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						
		----- CHANCE OF EXCEEDING * -----						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	25 YR. (1000AF)
SMITH AND MOREHOUSE CREEK near Oakl	APR-JUN	16.0	20	23	76	26	30	30
WEBER RIVER near Oakley	APR-JUL	58	73	84	67	95	111	125
ROCKPORT RESERVOIR inflow	APR-JUL	46	65	78	57	91	110	136
CHALK CREEK at Coalville, Ut	APR-JUL	2.0	12.0	20	44	28	39	45
WEBER RIVER near Coalville, Ut	APR-JUL	39	60	75	53	90	112	142
ECHO RESERVOIR Inflow	APR-JUL	20	59	85	49	111	150	174
LOST CREEK near Croyden	APR-JUN	0.9	4.5	7.0	45	9.5	13.1	15.6
EAST CANYON CREEK near Morgan	APR-JUL	3.0	7.0	11.0	35	15.0	20	31
HARDSCRABBLE CREEK near Porterville	APR-JUN	0.8	2.7	7.0	38	11.3	17.6	18.4
WEBER RIVER at Gateway	APR-JUL	81	122	150	40	178	220	374
S FORK OGDEN RIVER nr Huntsville	APR-JUL	15.0	22	27	41	32	39	66
PINEVIEW RESERVOIR Inflow	APR-JUL	15.0	36	50	31	64	85	159
FARMINGTON CREEK near Farmington	APR-JUL	0.4	1.6	3.5	43	5.4	8.2	8.2

RESERVOIR STORAGE

(1000AF)

WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
		CAUSEY	7.1	2.8			3.3	2.6
EAST CANYON	48.1	37.3	37.7	36.6	WEBER RIVER	15	75	74
ECHO	73.9	58.7	59.2	49.5	WEBER & OGDEN WATERSHEDS	19	70	69
LOST CREEK	22.5	15.4	16.6	13.3				
PINEVIEW	110.1	73.8	65.3	55.6				
ROCKPORT	60.9	40.5	37.5	30.9				
WILLARD BAY	185.0	139.9	138.0	125.3				

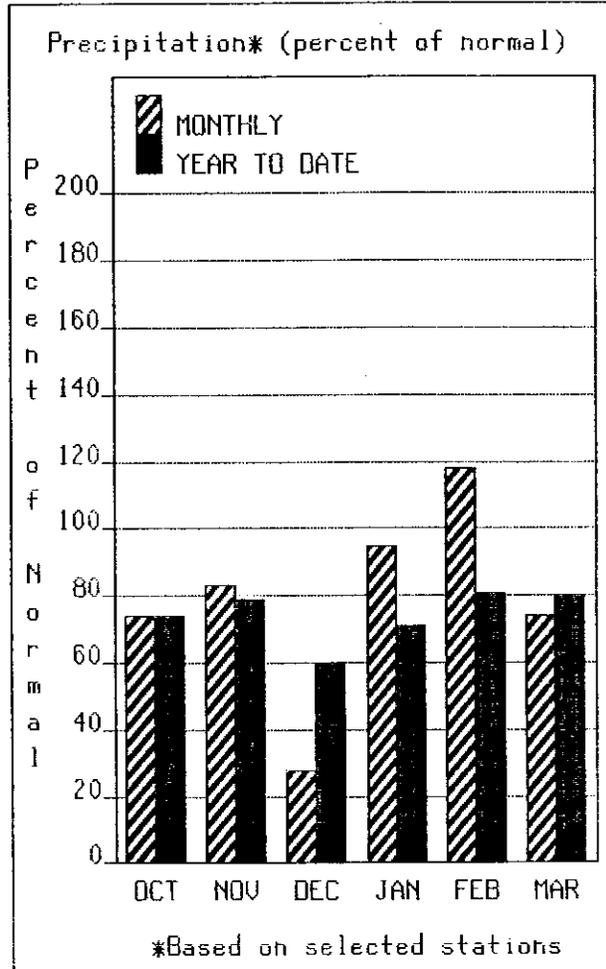
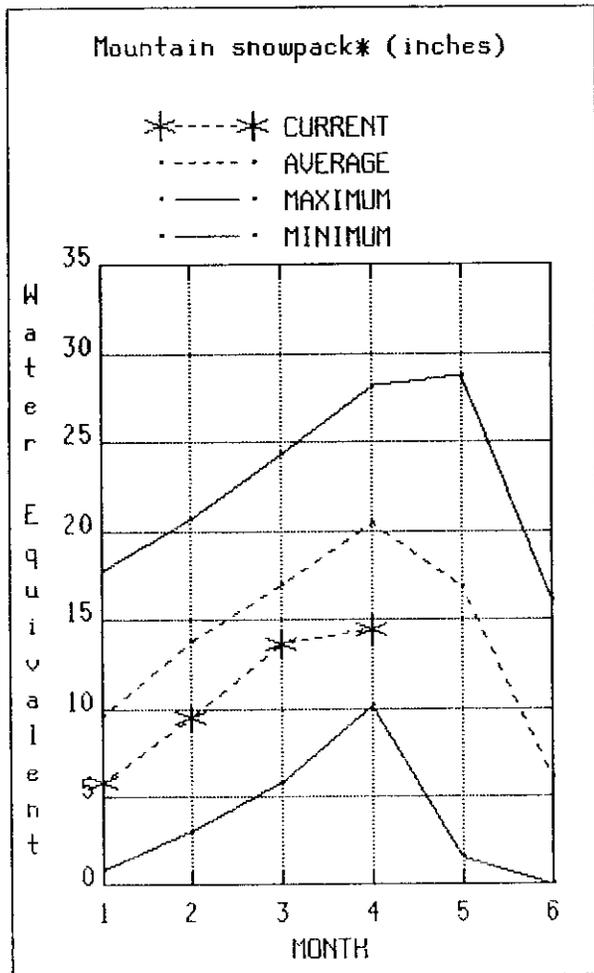
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- (2) - The value is natural flow - actual flow may be affected by upstream water management.

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

APRIL 1, 1990



Snowpack over the Utah Lake, Jordan River and Tooele Valley watersheds increased one-fifth as much as normal during March as a result of early melt (two weeks) and below average precipitation. April first snow water equivalent ranges from 61% of average on Rush and Tooele Valley watersheds to 80% on the Utah Lake watershed. Mountain precipitation during March was 74% of normal. October through March total precipitation is 80% of average. Stored reserves in area reservoirs fill 74% of combined capacity which equals 91% of average. Usually 82% of capacity would be filled by this time of year. Last year they held 80% of average. The outlook for streamflow is poor with a summary of forecasts across this basin at 50% of average. Utah Lake is probably most notable at only 44% expected inflow.

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		----- CHANCE OF EXCEEDING * -----						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
SALT CREEK near Nephi	APR-JUL	1.4	3.3	8.5	63	13.7	21	13.5
PAYSON CREEK near Payson	APR-JUL			4.0	55			7.3
SPANISH FORK near Castilla	APR-JUL			35	44			80
HOBBLE CREEK near Springville	APR-JUL			9.0	39			23
PROVO near Hailstone	APR-JUL	33	52	65	58	78	97	113
PROVO below Deer Creek Dam	APR-JUL	33	55	70	53	85	108	133
AMERICAN FORK near American Fk.	APR-JUL	14.0	18.0	20	59	22	26	34
UTAH LAKE inflow	APR-JUL	30	89	130	44	171	230	295
LITTLE COTTONWOOD CRK near SLC	APR-JUL	20	24	26	63	28	32	41
BIG COTTONWOOD CRK near SLC	APR-JUL	19.0	22	25	64	28	31	39
PARLEY'S CREEK near SLC	APR-JUL	2.9	6.5	9.0	53	11.5	15.1	17.0
MILL CREEK near SLC	APR-JUL	0.5	1.7	2.5	36	3.3	4.5	6.9
EMIGRATION CREEK near SLC	APR-JUL			1.5	33			4.6
CITY CREEK near SLC	APR-JUL	0.8	1.8	2.5	28	3.2	4.2	9.0
VERNON CREEK near Vernon	APR-JUN	0.1	0.2	0.5	42	0.8	1.3	1.2
SETTLEMENT CREEK near Tooele	APR-JUL	0.2	0.9	1.5	65	2.1	3.0	2.3
SOUTH WILLOW CREEK near Grantsville	APR-JUL	0.3	0.7	1.5	50	2.3	3.5	3.0

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
DEER CREEK	149.6	125.0	117.1	97.9	PROVO RIVER & UTAH LAKE	9	99	80
GRANTSVILLE	3.3	1.7	2.5	---	PROVO RIVER	4	98	78
SETTLEMENT CREEK	1.0	0.9	0.9	0.6	JORDAN RIVER & GREAT SALT	15	76	70
STRAWBERRY-ENLARGED	951.4	343.4	552.5	---	TOOELE VALLEY WATERSHEDS	6	90	61
UTAH LAKE	855.5	617.9	689.0	722.9	UTAH LAKE, JORDAN RIVER &	30	84	71
VERNON CREEK	0.6	0.6	0.6	0.5				

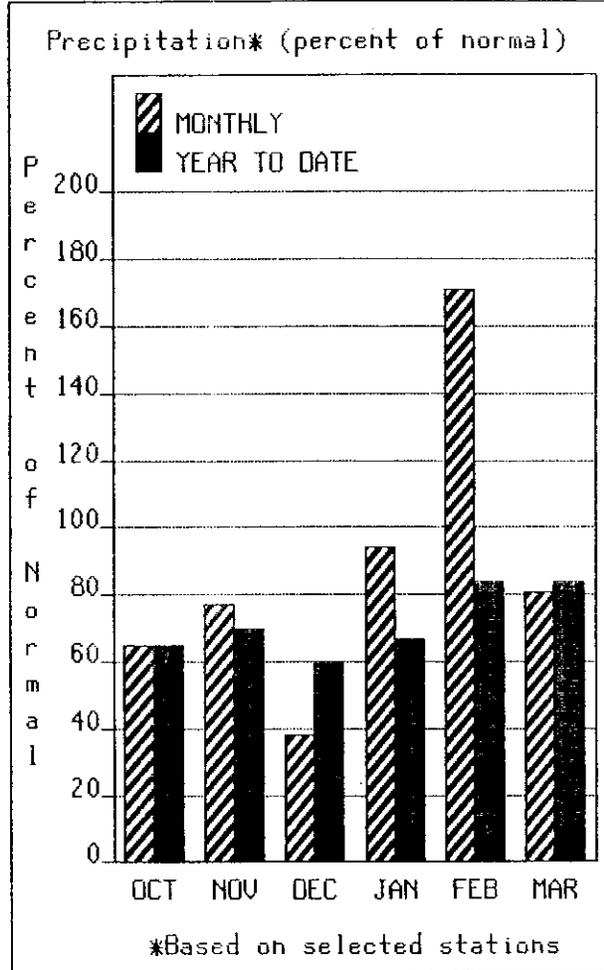
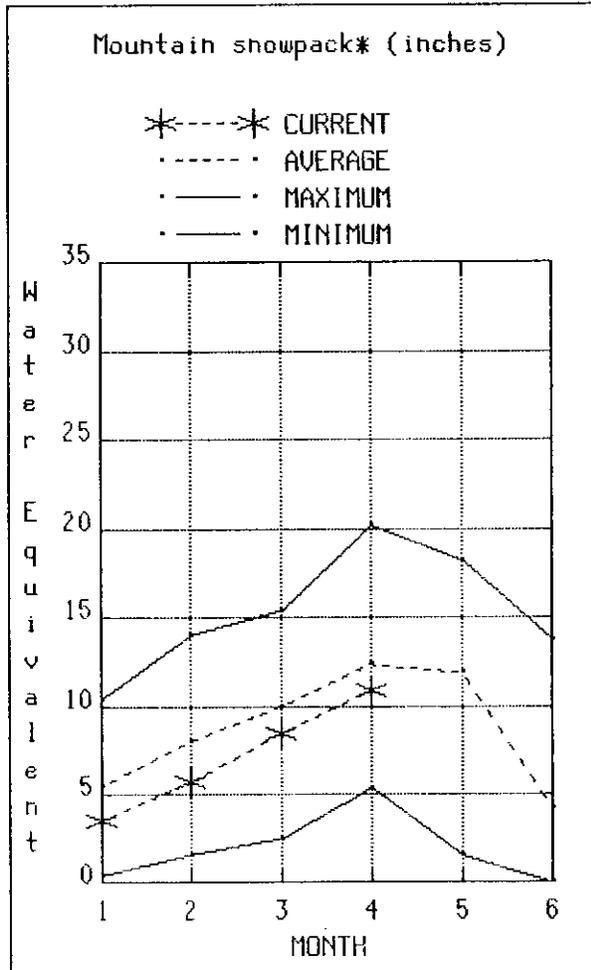
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UINTAH BASIN & DAGGET SCD'S

APRIL 1, 1990



Snow water content in the Uinta Mountain snowpack increased at a normal rate during March leaving April first water content at 88% of average (96% of last year and the best in the State!). Seasonal accumulation of precipitation at mountain stations in the Uintas also leads the State at 84% of average for the October through March period. Our sample of reservoirs in the Uinta Basin has 70% of combined capacity filled as of the end of March (5% above average). Last year 81% of capacity was filled and usually only 66% would be filled by this time of year. Prospects for streamflow are best in this area of Utah averaging at about 65% of the usual. This is still well below average, however, with specific streams ranging from 51% to 79% of average.

UINTAH BASIN & DAGGET SCD'S

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		DRIER		FUTURE CONDITIONS		WETTER		
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(MOST PROBABLE) (% AVG.)	30% (1000AF)	10% (1000AF)	
BLACK'S FORK nr Millburne	APR-JUL	36	53	65	68	77	94	96
EF SMITHS FORK inf to State Line Res	APR-JUL	9.0	14.0	18.0	60	22	27	30
HENRY'S FORK nr Manila	APR-JUL	16.0	24	30	67	36	45	45
GREEN RIVER nr Greendale 2	APR-JUL	500	650	750	59	850	1000	1267
BIG BRUSH CREEK ab Red Fleet Res	APR-JUL	11.7	13.9	15.5	78	17.1	19.3	19.8
ASHLEY CREEK nr Vernal 2	APR-JUL	25	31	35	67	39	45	52
WEST FORK DUCHESNE RIVER nr Hanna	APR-JUL	13.0	15.0	17.0	61	19.0	21	28
DUCHESNE RIVER nr Tabiona	APR-JUL	45	54	60	55	66	75	110
ROCK CREEK nr Mountain Home	APR-JUL	49	59	65	68	72	81	95
DUCHESNE RIVER abv Knight Diversion	APR-JUL	85	104	116	61	129	147	190
STRAWBERRY RIVER nr Soldier Springs	APR-JUL	32	38	42	64	46	53	66
CURRENT CREEK nr Fruitland 2	APR-JUL	9.0	11.0	13.0	54	14.0	16.0	23
STRAWBERRY RIVER nr Duchesne (natural)	APR-JUL	53	64	72	60	80	91	121
STRAWBERRY RIVER inflow to Starvation	APR-JUL	29	36	40	60	44	51	67
LAKEFORK RIVER blw Moon Lake 2	APR-JUL	39	47	53	75	59	67	71
YELLOWSTONE RIVER nr Altonah	APR-JUL	27	42	52	79	62	77	66
DUCHESNE RIVER at Myton 2	APR-JUL	79	126	157	57	189	235	275
UINTA RIVER nr Neola	APR-JUL	30	51	65	74	79	100	88
WHITEROCKS RIVER nr Whiterocks	APR-JUL	22	36	45	75	54	68	60
DUCHESNE RIVER nr Randlett	APR-JUL	32	104	174	51	270	410	340

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
FLAMING GORGE	3749.0	2967.9	2916.8	---	UPPER GREEN RIVER in UTAH	12	98	88
MOON LAKE	35.8	15.4	11.6	18.3	ASHLEY CREEK	2	100	88
RED FLEET	26.0	14.6	20.7	---	BLACK'S FORK RIVER	3	85	79
STEINAKER	33.3	8.1	19.4	22.6	SHEEP CREEK	2	112	97
STARVATION	165.3	140.0	159.0	114.1	DUCHESNE RIVER	12	95	88
STRAWBERRY-ENLARGED	951.4	343.4	552.5	---	LAKE FORK-YELLOWSTONE CRE	5	98	97
					STRAWBERRY RIVER	4	82	71
					UINTAH-WHITEROCKS RIVERS	2	127	107
					UINTAH BASIN & DAGGET SCD	24	96	88

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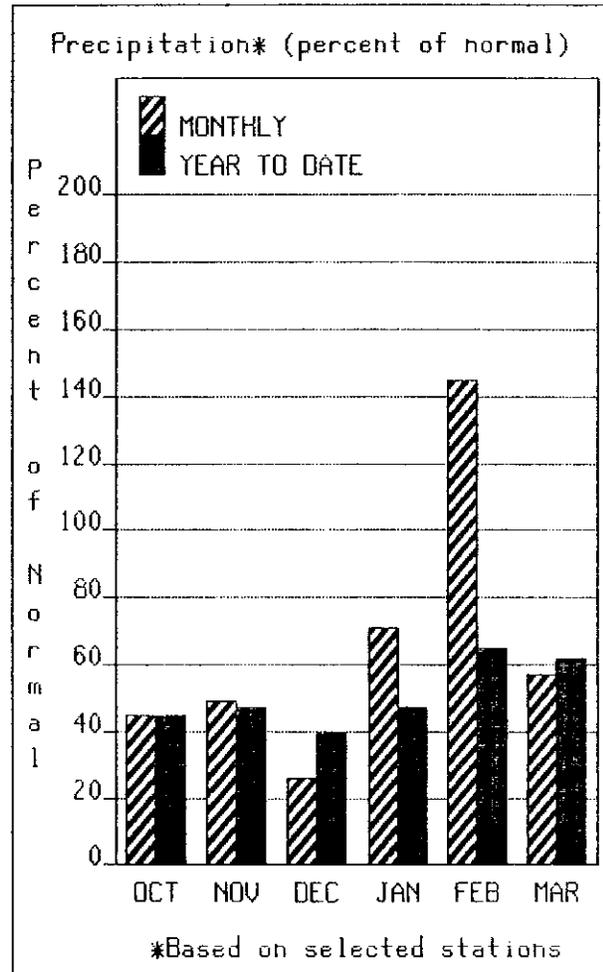
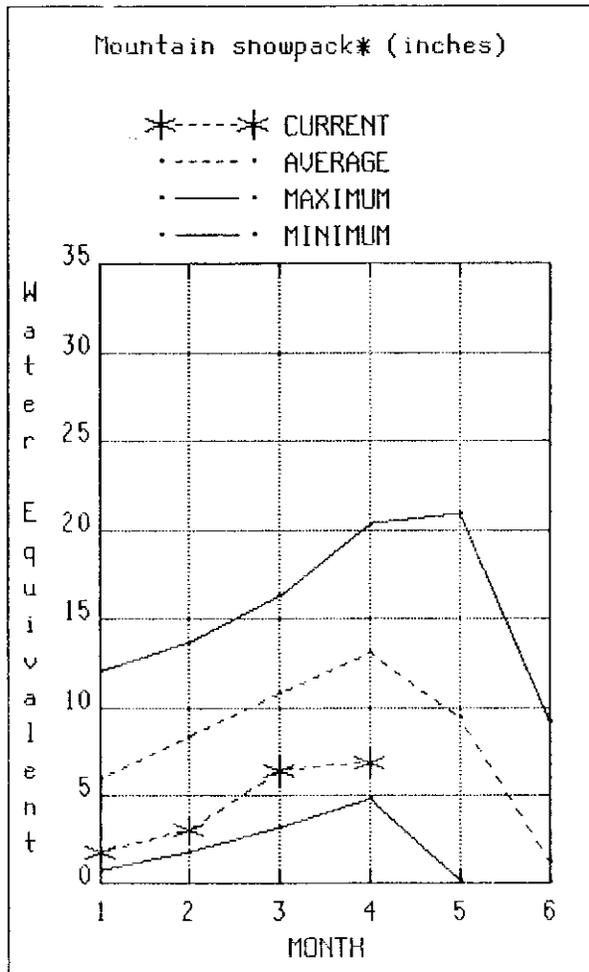
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CARBON, EMERY, WAYNE, GRAND, & SAN JUAN CO

APRIL 1, 1990



Snow water content increased 22% as much as normal this March. The onset of snowmelt was about two weeks earlier than usual. April first snow surveys indicate water content is 52% of average which is only 73% of last year and the lowest of the four consecutive dry years since 1986. March precipitation at mountain stations was 57% of normal leaving the total for the water year at 62%. Only 40% of capacity is filled in our sample of reservoirs in southeastern Utah compared to 60% last year and 49% normally at this time of year. Storage is 67% of average. Streamflow forecasts are continuing to decrease slightly with a basin summary of 51% of average expected. Mill Creek near Moab is projected lowest at 29% of average.

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

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS					25 YR. (1000AF)	
		DRIER		FUTURE CONDITIONS		WETTER		
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	30% (1000AF)	10% (1000AF)		CHANCE OF EXCEEDING * (% AVG.)
GOOSEBERRY CREEK nr Scofield	APR-JUL	3.0	4.8	6.0	50	7.2	9.0	12.0
SCOFIELD RESERVOIR inflow	APR-JUL	14.0	19.0	22	48	25	30	46
PRICE RIVER nr Heiner 2	APR-JUL	22	28	32	54	36	42	59
GREEN RIVER at Green River, UT 2	APR-JUL	1310	1720	2000	63	2280	2690	3182
HUNTINGTON CREEK inf to Electric Lak	APR-JUL	5.9	7.3	8.3	55	9.3	10.7	15.1
HUNTINGTON CREEK nr Huntington 2	APR-JUL	19.0	25	28	51	32	37	55
Cottonwood Ck nr Orangeville 2	APR-JUL	14.0	19.0	24	51	41	65	47
Ferron Ck nr Ferron	APR-JUL	6.0	13.0	19.0	45	24	31	41
Colorado R nr Cisco, UT 2	APR-JUL	860	1420	1800	52	2180	2740	3443
Mill Ck nr Moab	APR-JUL	0.7	1.2	1.6	29	3.2	5.6	5.5
Seven Mile Ck nr Fish Lake	APR-JUL	0.9	1.4	3.0	46	4.6	7.0	6.5
Muddy Ck nr Emery	APR-JUL	2.0	3.0	7.0	35	12.0	18.0	21
San Juan R nr Bluff, UT 2	APR-JUL	116	345	500	46	655	885	1091

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
HUNTINGTON NORTH	3.9	3.8	3.6	3.8	PRICE RIVER	3	100	83
JOE'S VALLEY	61.6	34.0	40.0	45.6	SAN RAFAEL RIVER	7	77	58
KEN'S LAKE	2.3	0.9	0.6	---	MUDDY CREEK	1	57	44
MILL SITE	16.7	7.6	10.2	4.6	FREMONT RIVER	5	70	47
SCOFIELD	65.8	13.5	34.3	33.3	LASAL MOUNTAINS	2	57	32
					BLUE MOUNTAINS	2	62	44
					WILLOW CREEK - WHITE RIVE	2	56	38
					CARBON, EMERY, WAYNE, GRA	22	73	52

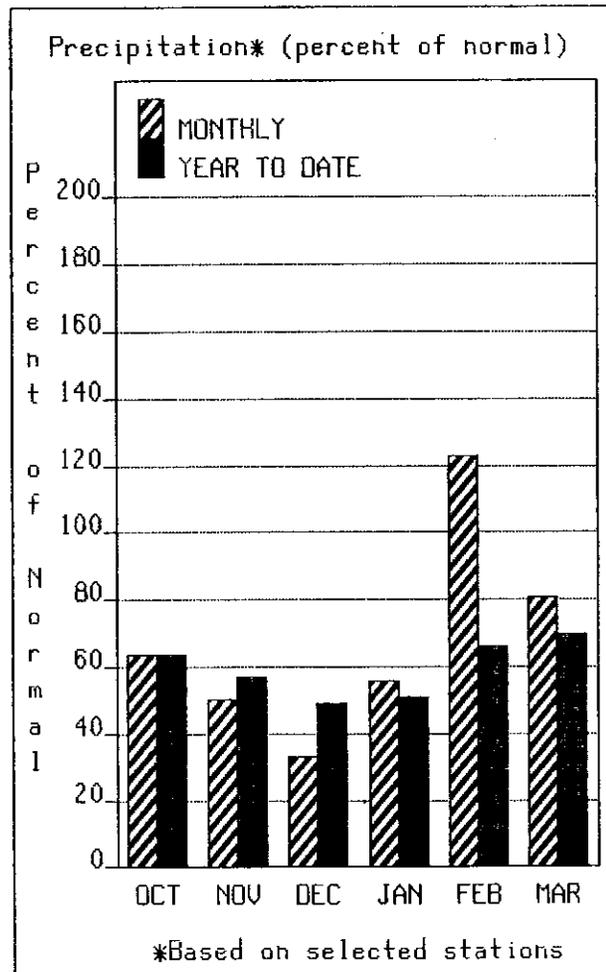
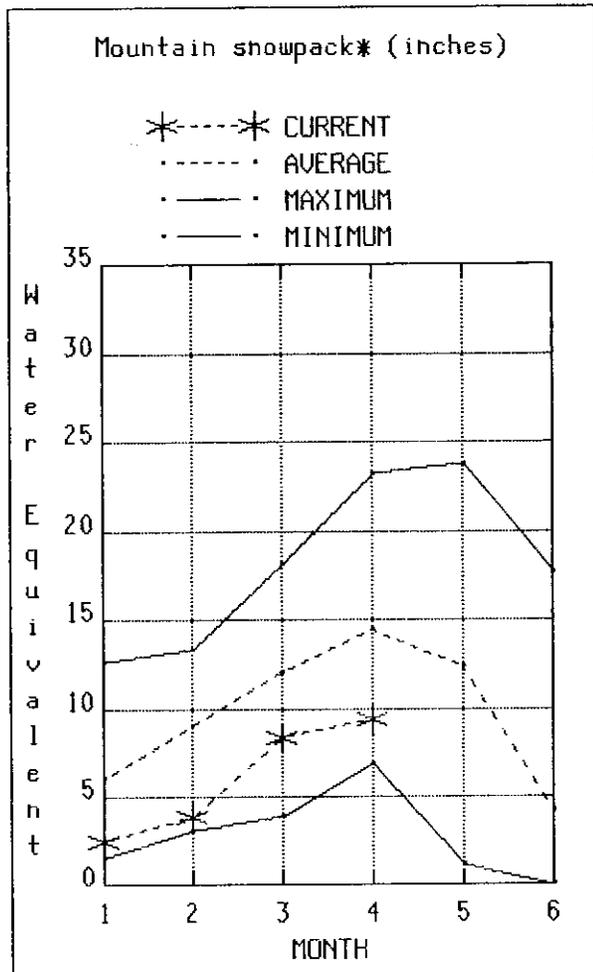
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SEVIER & BEAVER RIVER BASINS

APRIL 1, 1990



Last month the snowpack on the Sevier increased 50% more than usual. March negated the progress made last month by recording 50% less than average snowpack increase. Readings taken the last week of March indicate snow water content on the Sevier is 45% less than normal for April first. Snowmelt began about two weeks earlier than normal. March storms produced 81% of normal precipitation for the month. Seasonal accumulation of precipitation (October through March) is 70% of average. Stored water in the Sevier basin is still 10% above average but only 67% of capacity is filled compared to 97% last year. Chalk Creek near Fillmore sports the best streamflow outlook for the summer at 61% of average while other streams average a very poor 44% of normal with a lowest value of 25%.

SEVIER & BEAVER RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS					25 YR. (1000AF)	
		DRIER		WETTER		CHANCE OF EXCEEDING *		
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)	30% (1000AF)			10% (1000AF)
SEVIER at Hatch	APR-JUL	2.0	13.0	20	38	27	38	52
SEVIER near Circleville	APR-JUL			20	45			44
SEVIER near Kingston	APR-JUL	1.0	2.0	12.0	35	22	37	34
ANTIMONY CREEK near Antimony	APR-JUL			5.0	56			8.9
E F SEVIER near Kingston	APR-JUL	2.0	4.0	10.0	42	16.0	24	24
SEVIER blw Piute Dam	APR-JUL	6.0	13.0	30	54	47	72	56
CLEAR CREEK near Sevier	APR-JUL			10.0	45			22
SIGURD to GUNNISON	APR-JUL	4.0	9.0	20	45	38	65	44
KINGSTON to VERMILLION DAM	APR-JUL			10.0	53			18.9
VERMILLION DAM to GUNNISON	APR-JUN			10.0	25			40
SALINA CREEK at Salina	APR-JUN			6.0	33			18.2
PLEASANT CREEK near Pleasant	APR-JUL			5.0	43			11.5
EPHRAIM CREEK near Ephraim	APR-JUL			10.0	40			25
SEVIER nr Gunnison	APR-JUL			45	45			99
CHICKEN CREEK near Levan	APR-JUL	0.4	1.2	1.7	49	2.2	3.0	3.5
OAK CREEK near Oak City	APR-JUL	0.1	0.2	0.8	50	1.4	2.3	1.6
CHALK CREEK near Fillmore	APR-JUL	4.8	7.9	10.0	61	12.1	15.2	16.4
BEAVER RIVER near Beaver	APR-JUL	3.0	6.0	12.0	44	18.0	26	27
NORTH CREEK near Beaver (combined)	APR-JUL	0.6	1.2	6.8	47	12.4	21	14.6
MINERSVILLE RESERVOIR inflow	APR-JUN	1.0	2.2	5.5	38	8.8	13.7	14.3

RESERVOIR STORAGE					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
GUNNISON	20.3	8.7	20.3	16.3	UPPER SEVIER RIVER (south	10	85	46
MINERSVILLE (RkyFd)	26.0	11.8	22.4	14.3	EAST FORK SEVIER RIVER	4	60	40
OTTER CREEK	52.7	29.7	52.9	35.8	SOUTH FORK SEVIER RIVER	6	105	49
PIUTE	71.8	54.1	71.6	46.2	LOWER SEVIER RIVER (inclu	13	100	76
SEVIER BRIDGE	236.0	169.4	228.6	136.2	BEAVER RIVER	2	68	58
PANQUITCH LAKE	22.3	8.9	19.5	---	SEVIER & BEAVER RIVER BAS	25	93	65

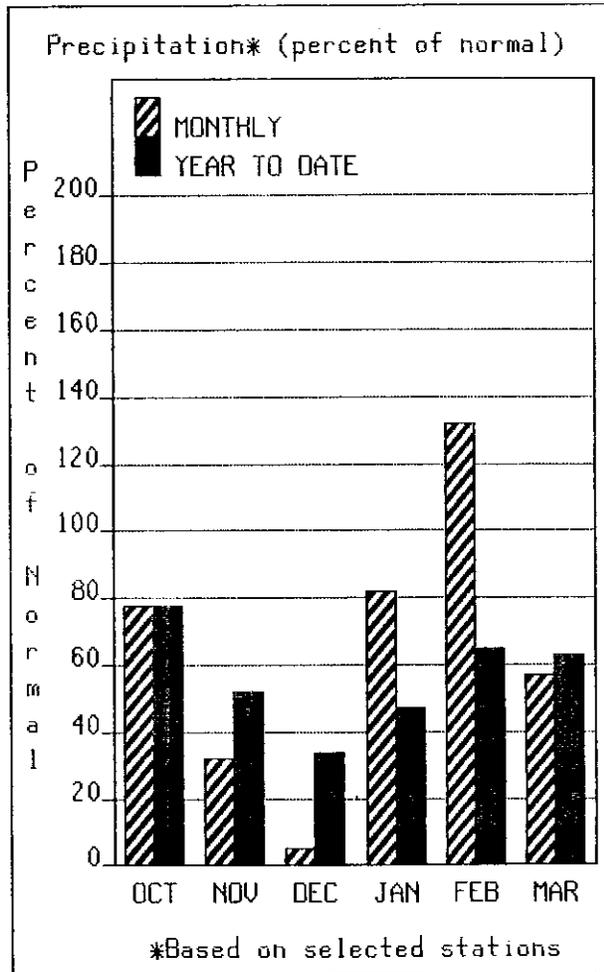
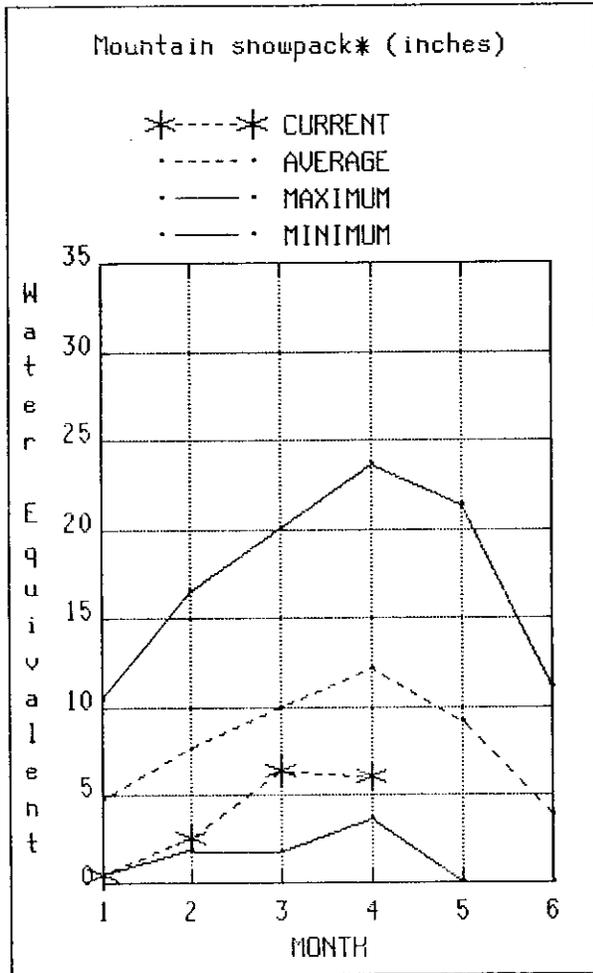
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E. GARFIELD, KANE, WASHINGTON, & IRON Co

APRIL 1, 1990



Snowmelt began about a week earlier than normal on the watersheds of southwestern Utah and mountain precipitation was only 57% of normal during March resulting in a net loss of snow water content since March first. The April first snowpack is 50% of normal (118% of last year). Seasonal precipitation accumulation is 63% of average. With worsening snowpack conditions, the streamflow forecasts have also declined to a range of 40% to 52% of average. The runoff is likely to peak earlier than normal as well.

E. GARFIELD, KANE, WASHINGTON, & IRON Co.

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS					25 YR. (1000AF)	
		<----- DRIER ----->		----- WETTER ----->				
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	30% (1000AF)	10% (1000AF)		
		CHANCE OF EXCEEDING * (% AVG.)						
Coal Ck nr Cedar City	APR-JUL	3.1	6.0	8.0	40	10.0	12.9	20
Colorado R inflow to Lake Powell 2	APR-JUL	2270	3420	4200	52	4980	6130	8086
Virgin R nr Hurricane	APR-JUN	12.0	21	30	44	39	52	68
Santa Clara R nr Pine Valley	APR-JUN	0.9	1.9	2.5	50	3.1	4.1	5.0

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
GUNLOCK	10.4	5.5	8.6	---	VIRGIN RIVER	5	107	53
LAKE POWELL	25002.0	17919.0	21128.0	---	PAROWAN	4	135	57
QUAIL CREEK		NO REPORT			ENTERPRISE TO NEW HARMONY	2	1050	21
UPPER ENTERPRISE		NO REPORT			COAL CREEK	3	114	49
LOWER ENTERPRISE		NO REPORT			ESCALANTE RIVER	2	100	59
					E. GARFIELD, KANE, WASHIN	14	118	50

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SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
LAMBS CANYON	7400	3/26	34	12.3	16.0	16.8	ROCK CREEK SNOTEL	7900	03/26	20	6.2S	7.7	6.7
LASAL MOUNTAIN LOWER	8800	03/26	13	4.1	6.8	10.1	ROCKY BASIN-SETTLEMENT	8900	03/26	60	22.4	22.8	29.1
LASAL MOUNTAIN SNOTE	9850	03/26	15	4.6S	8.5	16.7	ROCKY BN-SETTLEMENT SN	8900	03/26	-	19.5S	18.8	24.1
LILLY LAKE SNOTEL	9050	03/26	43	11.6S	11.8	13.8	SEELEY CREEK SNOTEL	10000	03/26	32	9.1S	12.4	16.4
LITTLE BEAR LOWER	6000				-	10.2	SHINGLE MILL	6200	3/27	29	10.5	2.6	9.5
LITTLE BEAR SNOTEL	6550	03/26	6	2.9S	7.3	16.4	SILVER LAKE(BRIGHT.)	8730	3/28	61	22.8	25.2	26.3
LITTLE GRASSY CREEK	6100	03/26	0	0.0	0.0	2.3	SMITH MOREHOUSE SNTL	7600	03/26	32	13.8S	14.8	15.4
LITTLE GRASSY SNOTEL	6100	03/26	-	0.0S	0.0	2.3	SNOWBIRD GAD VALLEY	9700	03/28	98	31.4	32.8	34.9
LONG FLAT SNOTEL	8000	03/26	7	2.1S	.2	7.9	SNOWBIRD SNOTEL	9700	03/26	-	32.0S	-	34.9
LONG VALLEY JCT.	7500	03/26	0	0.0	.7	3.6	SPIRIT LAKE	10300	03/30	50	13.1	11.1	13.5
LONG VALLEY JCT. SNT	7500	03/26	-	0.0S	.3	3.6	SQUAW SPRINGS	9300	03/27	8	1.8	6.1	7.6
LOOKOUT PEAK SNOTEL	8200	03/26	51	16.6S	24.7	19.4	STEEL CREEK PARK SNO	10100	03/26	50	12.3S	15.1	16.5
LOST CREEK RESERVOIR	6130	3/29	0	.0	.8	4.0	STILLWATER CAMP	8550	03/29	33	9.1	9.6	11.0
MAMMOTH-COTTONWOOD SNT	8800	03/26	-	16.5S	18.6	22.5	STRAWBERRY DIVIDE SN	8400	03/26	-	14.0S	18.6	20.2
MAMMOTH-COTTONWOOD	8800	03/27	45	16.8	18.5	22.6	STUART R.S.	7950	03/27	2	0.7	2.3	8.2
MERCHANT VALLEY SNOT	8750	03/26	30	8.6S	10.6	12.1	SUSC RANCH	8200	3/30	07	0.2	0.0	7.9
MIDDLE CANYON	7000	03/26	31	12.0	8.7	15.0	TALL POLES	8800	03/26	32	9.3	6.7	15.5
MIDWAY VALLEY	9800	03/26	36	13.3	14.5	23.6	THAYNES CANYON SNOTL	9200	03/26	55	20.9S	22.8	23.0
MIDWAY VALLEY SNOTEL	9800	03/26	-	15.8S	17.0	23.7	THISTLE FLAT	8500	03/27	43	15.2	14.5	17.8
MILL CREEK	6950	3/26	44	15.2	20.6	22.0	TIMBERLINE	9100	03/28	33	9.4	-	15.1
MILL-D NORTH SNOTEL	8960	03/26	19	19.5S	28.0	31.0	TIMPANOGOS DIVIDE SN	8140	03/26	57	22.4S	19.6	24.6
MILL-D SOUTH FORK	7400	3/28	43	14.5	17.0	20.3	TONY GROVE LK SNOTEL	8400	03/26	60	24.6S	40.1	39.2
MINING FORK SNOTEL	8000	03/26	36	10.5S	20.5	25.9	TRIAL GROVE R.S.	6250	3/29	11	2.8	11.1	12.1
MONTE CRISTO R.S.	8960	3/29	42	14.5	24.2	25.8	TRIAL LAKE	9960	03/29	59	19.0	21.4	24.7
MONTE CRISTO SNOTEL	8960	03/26	-	22.2S	33.8	30.6	TRIAL LAKE SNOTEL	9960	03/26	-	17.8S	25.2	25.2
MOSBY MTN. SNOTEL	9500	03/26	44	10.1S	8.8	11.7	TROUT CREEK SNOTEL	9400	03/26	38	12.6S	10.6	11.6
MT. BALDY R.S.	9500	03/27	52	17.1	20.4	25.0	UPPER JOES VALLEY	8900	03/27	21	6.4	7.3	10.9
MUD CREEK #2	8600	03/27	36	11.8	10.9	13.9	VERNON CREEK SNOTEL	7500	03/26	-	5.7S	4.2	12.3
OAK CREEK	7760	03/26	36	11.2	8.0	12.5	VIPONT	7670	3/25	29	9.1	16.9	16.5
ONE MILE SUMMIT	7330	3/25	14	3.9	2.6	7.7	WEBSTER FLAT SNOTEL	9200	03/26	22	9.9S	6.1	16.5
OTTER LAKE	9600				10.5	14.9	WHITE RIVER #1 SNOTE	8550	03/26	32	10.9S	11.0	14.4
PANQUITCH LAKE	8200	03/26	0	0.0	0.0	4.5	WHITE RIVER #3	7400	03/28	16	6.7	7.6	7.3
PARLEY'S CANYON SNOT	7500	03/26	-	11.7S	16.2	20.9	WIDTSONE #3 SNOTEL	9500	03/26	21	7.0S	7.6	13.0
PARLEY'S CANYON SUM.	7500	3/26	41	13.3	19.4	19.2	WRIGLEY CREEK	9000	03/27	24	7.4	8.5	11.9
PAYSON R.S.	8050	03/26	45	16.3	16.8	19.7	YANKEE RESERVOIR	8700	03/26	17	5.9	2.3	10.4
PAYSON R.S. SNOTEL	8050	03/26	-	19.5S	18.7	23.7							
PICKLE KEG SNOTEL	9600	03/26	-	10.7S	16.1	19.1							
PICKLE KEG SPRING	9600	03/27	30	10.5	13.5	17.2							
PINE CREEK	8800	03/26	42	15.0	11.0	17.2							
PINE CREEK SNOTEL	8800	03/26	-	21.4S	16.1	19.6							
RED PINE RIDGE SNOTE	9200	03/26	35	13.8S	16.7	19.5							
REDDEN MINE LOWER	8500	03/30	41	15.1	13.3	18.8							
REES'S FLAT	7300	03/26	30	10.0	10.9	13.8							

NOTE:
The S flag following Water Content for SNOTEL sites indicates telemetered data, the Depth reading preceeding 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.

SNOW COURSE DATE
FOR THE STATE OF UTAH
AS of APRIL 1, 1990

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST AVERAGE		SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST AVERAGE	
					YEAR	1961-85						YEAR	1961-85
ALTA CENTRAL	8800	03/30	77	31.9	36.3	39.4	DILL'S CAMP SNOTEL	9200	03/26	24	6.8S	11.9	15.6
ASHLEY TWIN LAKES	10500	03/29	51	15.3	13.0	17.4	DONKEY RESERVOIR SNO	9800	03/26	19	5.3S	4.7	7.9
BEAVER DAMS	8000	03/27	18	6.2	8.1	12.1	DRY BEAD POND	8350	3/29	28	10.0	15.0	19.5
BEAVER DAMS SNOTEL	8000	03/26	-	7.3S	5.4	12.1	DRY BEAD POND SNOTEL	8350	03/26	-	12.1S	28.4	22.9
BEAVER DIVIDE SNOTEL	8280	03/26	23	9.1S	8.1	12.6	EAST SHINGLE LAKE	9800	03/30	72	23.8	25.7	27.0
BEN LOMOND PK SNOTEL	8000	03/26	63	24.6S	44.2	42.8	EAST WILLOW CREEK SN	8250	03/26	15	5.0S	5.9	11.1
BEN LOMOND TR SNOTEL	6000	03/26	19	9.4S	21.0	20.8	FARMINGTON CANYON L.	6950	03/28	46	15.8	27.6	25.2
BEVAN'S CABIN	6450	03/26	31	12.2	7.5	12.1	FARMINGTON CN SNOTEL	8000	03/26	59	23.1S	39.8	32.6
BIG FLAT SNOTEL	10290	03/26	39	9.5S	15.9	19.2	FARNSWORTH LAKE	9600	03/27	49	15.4	18.4	20.6
BIRCH CROSSING	8100	3/30	11	2.5	0.0	6.7	FARNSWORTH LK SNOTEL	9600	03/26	-	14.9S	18.9	19.4
BLACK FLAT-U.M. CK S	9400	03/26	19	6.3S	7.4	11.4	FISH LAKE	8700	03/27	6	2.1	7.3	8.7
BLACK'S FORK GS-EF	9340	03/29	31	8.4	8.2	9.7	FIVE POINTS LAKE SNO	10920	03/26	58	15.0S	15.8	13.7
BLACK'S FORK JUNCTN	8930	03/29	29	7.6	9.8	9.5	FRANCES FLATS	6700	03/30	11	4.6	16.3	17.0
BOX CREEK SNOTEL	9300	03/26	26	7.5S	13.4	15.6	G.B.R.C. HEADQUARTER	8700	03/27	39	14.2	14.5	18.3
BRIAN HEAD	10000	03/26	39	13.0	13.7	21.7	G.B.R.C. MEADOWS	10000	03/27	55	18.9	18.6	25.0
BRIGHTON CABIN	8700	03/30	60	23.0	24.6	27.3	GARDEN CITY SUMMIT	7600	3/29	32	9.1	14.4	18.3
BRIGHTON SNOTEL	8750	03/26	60	24.6S	27.1	37.6	GEORGE CREEK	8840	3/25	51	16.5	24.0	23.2
BROWN DUCK SNOTEL	10600	03/26	63	14.9S	14.6	18.6	GOOSEBERRY R.S.	8400	03/27	27	9.4	10.8	12.8
BRYCE CANYON	8000	3/30	00	0.0	0.0	4.2	GOOSEBERRY R.S. SNOT	7900	03/26	-	7.2S	6.4	6.4
BUCK FLAT SNOTEL	9800	03/26	30	10.5S	16.7	19.2	HARDSCHABBLE	6700	03/28	31	10.1	16.6	19.4
BUCK PASTURE	9700	03/30	51	13.8	16.8	16.4	HARRIS FLAT	7700	03/26	9	3.7	9.9	8.7
BUCKBOARD FLAT	9000	03/27	20	6.6	9.6	13.1	HARRIS FLAT SNOTEL	7700	03/26	-	0.0S	9.9	7.9
BUG LAKE SNOTEL	7950	03/26	40	13.5S	19.1	23.0	HAYDEN FORK	9400	03/29	41	12.8	12.2	16.0
BURT'S-MILLER RANCH	7900	03/29	9	2.6	4.9	6.0	HAYDEN FORK SNOTEL	9100	03/26	-	12.9S	16.6	20.0
CAMP JACKSON	8600	03/27	15	4.8	8.7	13.1	HENRY'S FORK	10000	03/30	45	11.7	11.7	14.0
CAMP JACKSON SNOTEL	8600	03/26	-	5.8S	10.4	13.1	HEHINTA SNOTEL	9500	03/26	35	10.5S	10.6	9.7
CASTLE VALLEY	9580	03/26	22	7.2	6.3	13.5	HICKERSON PARK SNOTE	9100	03/26	30	7.0S	6.8	7.2
CASTLE VALLEY SNOTL	9580	03/26	-	8.1S	10.1	15.7	HIDDEN SPRINGS	5500	03/30	0	0.0	0.0	4.3
CHALK CK #1 SNOTEL	9100	03/26	62	18.4S	25.5	24.0	HOBBLE CREEK SUMMIT	7420	03/28	32	11.0	12.3	14.8
CHALK CK #2 SNOTEL	8200	03/26	43	14.5S	18.3	16.1	HOLE-IN-ROCK SNOTEL	9150	03/26	31	6.7S	6.5	6.1
CHALK CREEK #3	7500	03/29	17	4.6	6.8	7.8	HORSE RIDGE SNOTEL	8260	03/26	42	16.5S	24.4	24.9
CHEPETA SNOTEL	10300	03/26	51	16.5S	12.1	13.1	HUNTINGTON-HORSESHOE	9800	03/27	50	17.6	20.7	26.1
CITY CREEK	7500	03/30	34	13.6	27.5	28.3	INDIAN CANYON SNOTEL	9100	03/26	40	10.3S	9.2	12.9
CLEAR CK RIDG #1 SNT	9200	03/26	48	18.3S	18.2	19.1	JOHNSON VALLEY	8850	03/27	9	2.2	5.8	7.5
CLEAR CK RIDG #2 SNT	8000	03/26	42	11.9S	14.9	15.5	KILFOIL CREEK	7300	3/29	39	11.0	14.2	14.8
CLEAR CREEK MEADOWS	9420	3/25	52	16.4	25.6	24.1	KILLYON CANYON	6300	03/30	0	0.0	3.3	2.8
CLEAR CREEK RIDGE #3	6600	03/28	11	4.4	0.0	6.1	KIMBERLY MINE SNOTEL	9300	03/26	36	11.5S	11.5	19.0
CORRAL	8200	03/28	10	3.2	-	9.2	KING'S CABIN SNOTEL	8730	03/26	36	8.6S	10.6	12.6
CURRANT CREEK SNOTEL	8000	03/26	21	7.8S	11.4	11.6	KLONDIKE NARROWS	7400	3/29	29	10.2	17.9	20.7
DANIELS-STRAWBERRY S	8000	03/26	35	12.3S	14.8	18.2	KLOB SNOTEL	9250	03/26	37	13.6S	15.5	24.4
DESERET PEAK	9250	03/26	31	12.9E	20.2	27.9	LAKEFORK #1 SNOTEL	10100	03/26	44	11.3S	10.9	11.6
DESERET PEAK AN	9250	03/26	31	10.9	18.4	27.9	LAKEFORK BASIN SNOTE	10900	03/26	73	16.1S	19.9	15.7
DESERET PEAK SNOTEL	9250	03/26	31	13.7S	22.1	27.9	LAKEFORK MOUNTAIN #3	8400	03/30	21	6.2	3.6	6.2

STATE OF UTAH GENERAL OUTLOOK

May 1, 1990

SUMMARY

The warm temperatures experienced in April produced near record snowpack loss to melt but the soil moisture deficit built up through successive years of below normal precipitation took a great toll and runoff rarely reached normal levels. With only about one-third normal snowpack to feed streams the rest of the season, streamflow projections are approaching record low levels. Using the limited supplies wisely and hoping for more rain will be the modus operandi this summer.

SNOWPACK

Much warmer than normal temperatures during April continued the earlier than normal melt begun in March and left the statewide snowpack at 36% of average. Near record snowmelt on the Weber left the snowpack with the second lowest May first snow water content since 1961 (only 1977 contained less). May first snowpack ranges from 20% of average water content in southeastern Utah to 58% on the Uintas. The snowpack has less than half the water content it held last year at this time on the Bear and Weber. Southern Utah's snowpack is much greater than last year but this is of little comfort since last year was so lacking. This is at least the fourth consecutive year in which the May first snowpack has been deficient in all areas of the State. Southwestern Utah has had seven consecutive years now in which the May first snow water content was below average and southeastern Utah has had six.

PRECIPITATION

April storms produced near normal mountain rainfall across the State but the accompanying warm temperatures decimated the already deficient snowpack. Precipitation totals ranged from 89% of average on the Weber to 107% on the watersheds of southwestern Utah in April. Precipitation at mountain stations for the water year ranges from 68% of average on the Weber River watershed and southeastern Utah watersheds to 87% of average on the Uintas.

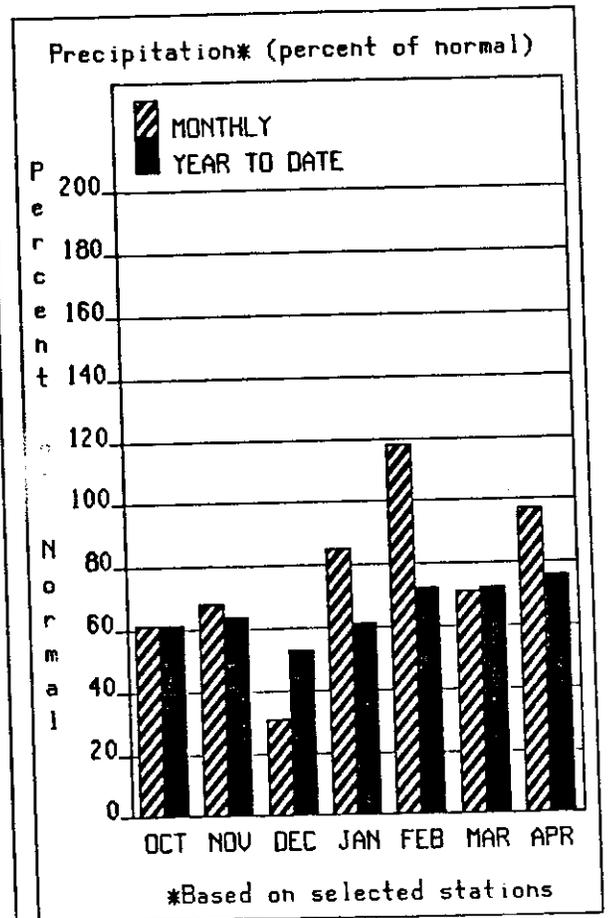
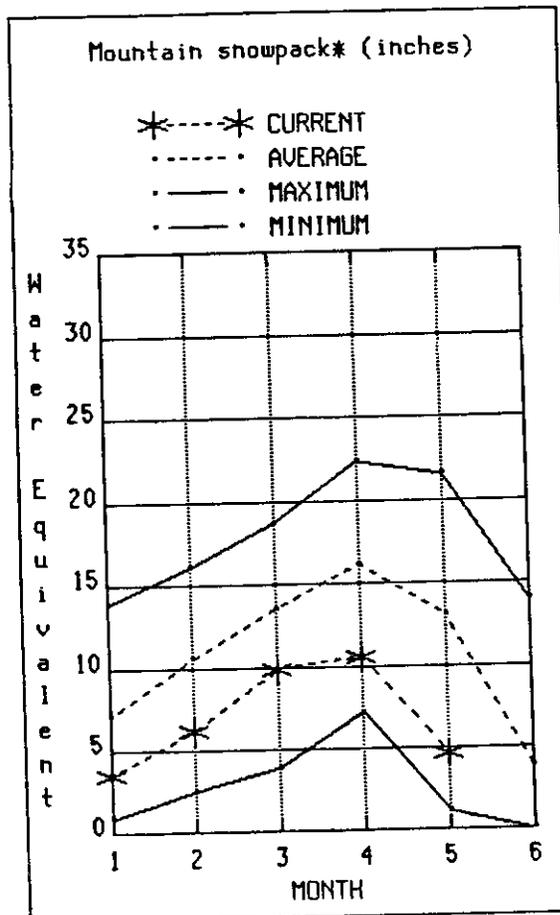
The National Weather Service network reports below to much below average April precipitation over most of northern Utah with percentages ranging from 60% to 90% of average at most stations. Southwestern Utah received 110% to 135% of normal precipitation during the month and the eastern portion of the State generally received 100% to 150%. Seasonal totals (October through April) are generally 60% to 80% of normal in the north, 70% to 90% in the southwest and 65% to 85% in the east at NWS stations.

RESERVOIRS

Stored reserves of water in our sample of the major irrigation reservoirs of the State are only 65% of cumulative capacity--just 2% greater than reported last month--as of the end of April. Last year at this time, the same reservoirs held 75% of their capacity which is the normal amount of storage for near the first of May. Reservoirs in the Weber, Sevier and Duchesne River basins have slightly above average reserves while the rest of the State has below to much below average stored reserves. Statewide reserves are 86% of average.

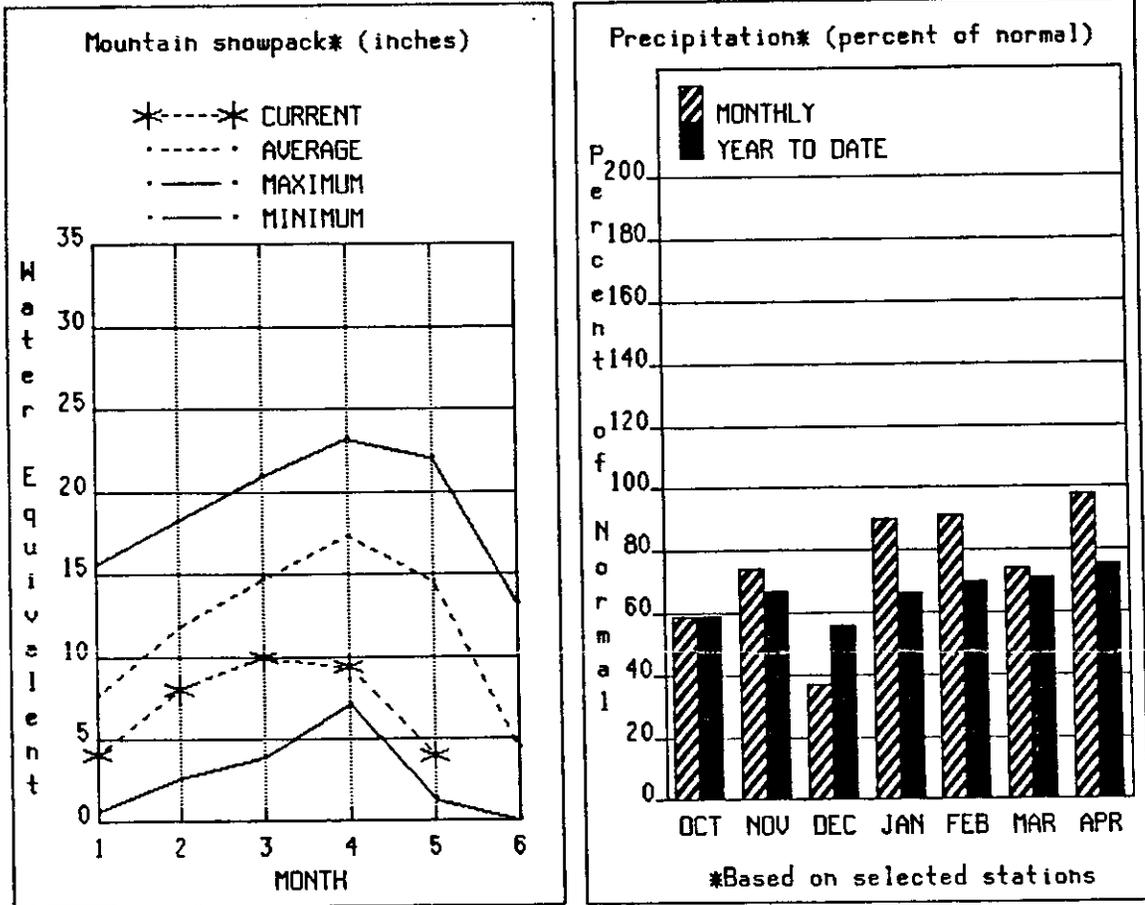
STREAMFLOW

Streamflow projections for the upcoming irrigation season have been cut back again this month. Forecasts now range from 11% to 65% of normal across the State--an average reduction of 17% since last month. The Weber appears to be the most deficient with an average forecast of only 23% followed closely by the Sevier at 25% and projections of flow for southwestern Utah streams averaging only 26% of normal. Streams are peaking about a month ahead of normal this year due to the early melt and poor snowpack conditions. Many reservoirs will not fill this season and streams will reach extremely low flow rates very early in the season. Users lacking adequate stored reserves may be faced with rationing early in the season in order to stretch limited supplies.



BEAR RIVER BASIN

May 1, 1990



The Bear River watershed snowpack contains 27% of normal water content as of May first (less than half as much as last year at the same time). Since 1961, only May 1, 1977 and May 1, 1987 have had less. Snowmelt was nearly twice normal this April. Precipitation for April at mountain stations was near average but much higher than normal temperatures prevented snowpack accumulation and extremely dry soil conditions kept runoff from achieving the levels normally expected from like amounts of precipitation and snowmelt. Reservoir storage in our sample of reservoirs on the Bear is only 54% of capacity--10 percent less than last year, 21% less than normal for the end of April and 25% below average. Forecasts for spring and summer streamflow have plunged again ranging from 20% of normal for the Bear near Randolph to 45% for Smith's Fork near Border.

UT

BEAR RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		----- CHANCE OF EXCEEDING * -----						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	30% (1000AF)	10% (1000AF)	(% AVG.)	
BEAR RIVER near UT-WY Stateline	APR-JUL	14.0	35	50	43	65	86	116
BEAR near Woodruff	APR-JUL	8.0	17.0	55	37	93	149	150
WOODRUFF CREEK near Woodruff	APR-JUL	1.5	4.2	6.0	35	7.8	10.5	17.3
BIG CREEK near Randolph	APR-JUL	0.1	0.2	1.6	30	3.0	5.1	5.3
BEAR near Randolph	APR-JUL	6.0	13.0	25	20	56	101	126
SMITHS FORK near Border	APR-SEP	12.0	25	55	45	85	129	123
THOMAS FORK near Stateline	APR-SEP	1.7	6.0	15.0	41	24	37	37
BEAR RIVER near Harer	APR-SEP	16.0	48	110	35	172	265	310
BEAR RIVER blw Stewart Dam	APR-SEP	15.0	42	80	27	118	174	298
CUB RIVER nr Preston	MAY-JUL	4.6	9.2	18.0	39	27	40	46
LITTLE BEAR RIVER near Paradise	APR-JUL	0.5	1.3	10.0	22	18.7	32	46
LOGAN RIVER near Logan	APR-JUL	6.0	23	35	29	47	64	122
BLACKSMITH FORK near Hyrum	APR-JUL	3.4	6.9	15.0	26	23	35	57

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
BEAR LAKE	1421.0	758.7	896.8	1059.0	BEAR RIVER, UPPER IN UTAH	6	78	39
HYRUM	15.3	15.3	15.5	13.2	BEAR RIVER, LOWER IN UTAH	9	29	20
PORCUPINE	11.3	8.0	11.3	9.5	BEAR RIVER DRAINAGE IN UT	15	46	28
WOODRUFF NARROWS	55.8	23.1	29.9	---	BEAR RIVER, UPPER (above	12	65	37
WOODRUFF CREEK	4.0	4.0	---	---	BEAR RIVER, LOWER (below	13	26	15
					LOGAN RIVER	5	25	21
					BEAR RIVER DRAINAGE	25	47	27
					RAFT RIVER	0	0	0
					BEAR RIVER BASIN	25	47	27

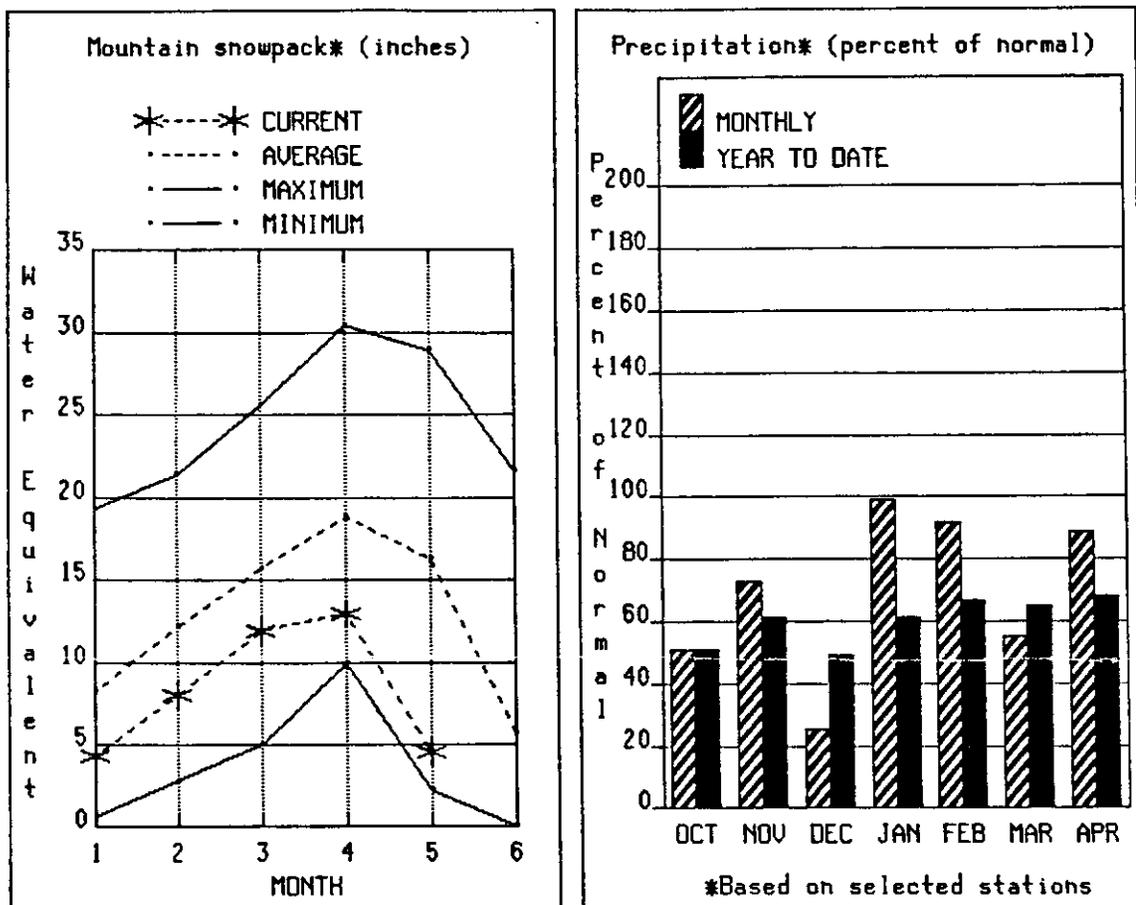
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 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 WATERSHEDS in Utah

May 1, 1990



Snowpack on the Weber River watershed, as surveyed during the last week of April, only contains 28% of the normal water content for this time of year. This amount of snow water is equal to May 1, 1987 with only one year in the last thirty (1977) having less. Snowmelt during April produced a loss of 9.7 inches of water content this year--nearly four times normal. Since 1961, only April of 1985 produced more snow water loss than this April. Precipitation at mountain stations was the poorest in the State during April with 89% of normal. The water year total is 68% of normal. The reservoirs on the Weber contained 109% of normal stored water at the end of April but, with remaining snow water reserves so low, filling is unlikely. Forecast flows on the Weber have fallen another 25% since last month and now range from 15% to 43%.

WEBER & OGDEN WATERSHEDS in Utah

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		----- CHANCE OF EXCEEDING * -----						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
SMITH AND MOREHOUSE CREEK near Oakle	APR-JUN	6.8	10.4	12.9	43	15.4	19.0	30
WEBER RIVER near Oakley	APR-JUL	27	37	43	34	49	59	125
ROCKPORT RESERVOIR inflow	APR-JUL	27	38	45	33	52	63	136
CHALK CREEK at Coalville, Ut	APR-JUL	1.6	4.7	10.0	22	15.3	23	45
WEBER RIVER near Coalville, Ut	APR-JUL	23	36	45	32	54	67	142
ECHO RESERVOIR Inflow	APR-JUL	15.0	40	56	32	73	97	174
LOST CREEK near Croyden	APR-JUN	0.8	1.6	3.5	22	5.9	9.4	15.6
EAST CANYON CREEK near Morgan	APR-JUL	1.6	3.1	5.5	18	9.1	14.5	31
HARDSCRABBLE CREEK near Porterville	APR-JUN	0.7	1.7	3.0	16	6.8	12.4	18.4
WEBER RIVER at Gateway	APR-JUL	11.0	52	80	21	108	149	374
S FORK OGDEN RIVER nr Huntsville	APR-JUL	2.6	5.6	10.0	15	14.4	21	66
PINEVIEW RESERVOIR Inflow	APR-JUL	6.0	12.0	25	16	38	56	159
FARMINGTON CREEK near Farmington	APR-JUL	0.1	0.5	1.5	18	3.2	5.7	8.2

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF ----- LAST YR. AVERAGE	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
CAUSEY	7.1	6.2	5.9	2.6	OGDEN RIVER	4	29	17
EAST CANYON	48.1	39.4	44.3	41.5	WEBER RIVER	14	55	33
ECHO	73.9	66.3	68.4	54.2	WEBER & OGDEN WATERSHEDS	18	47	28
LOST CREEK	22.5	17.0	20.7	14.3				
PINEVIEW	110.1	82.1	105.9	76.6				
ROCKPORT	60.9	42.8	44.0	36.8				
WILLARD BAY	185.0	143.0	162.0	139.7				

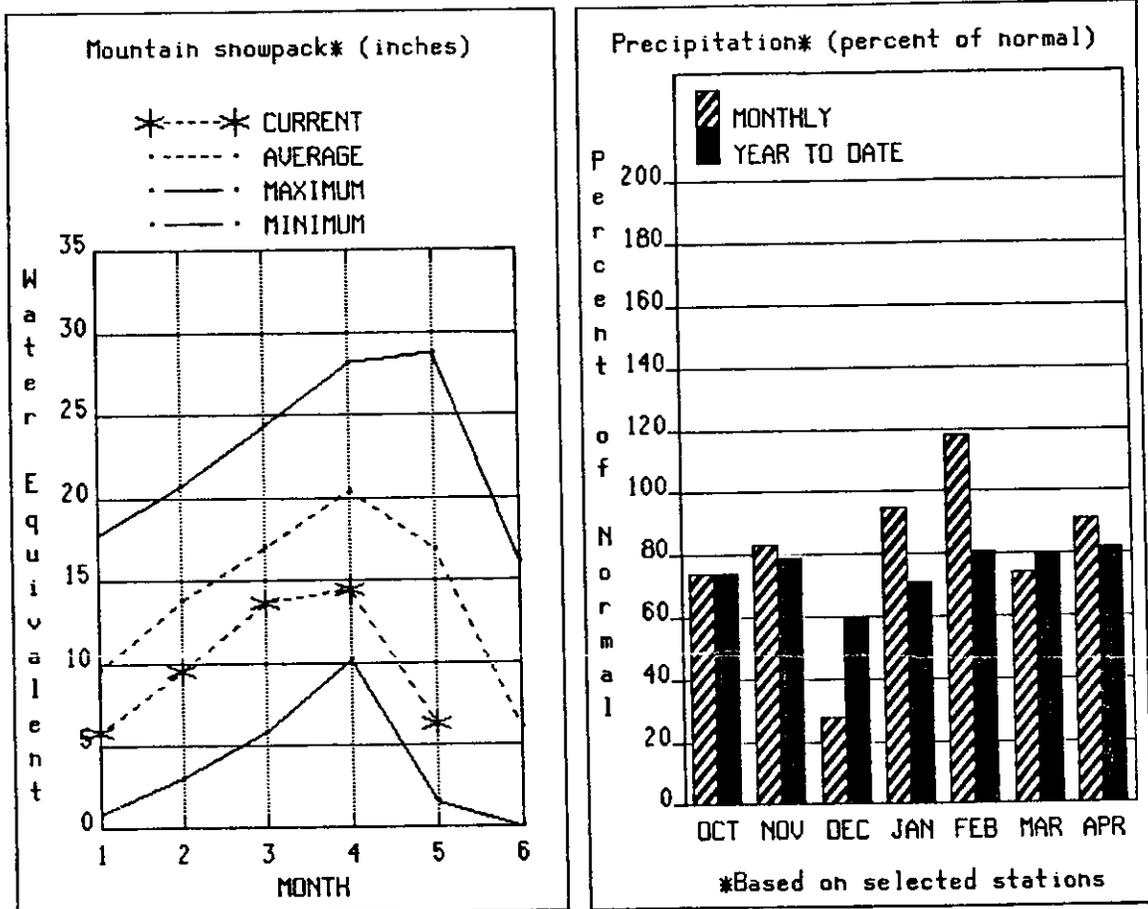
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 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

May 1, 1990



The Utah Lake, Jordan River and Tooele County watersheds lost two and one-half times as much snow water to melt this year than is normal for the month of April. May first snowpack is 37% of average. Precipitation at mountain stations for the month was near average (91%). Accumulation of precipitation for the water year now stands at 82% of normal. Reservoir storage is 8% less than last year and 15% below average for the end of April. Twenty-six percent of capacity remains to be filled. Forecasts average only 35% of normal for April through July streamflow ranging from 12% for City Creek near Salt Lake City to 49% for Little Cottonwood Creek near Salt Lake City.

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		----- CHANCE OF EXCEEDING * -----						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
SALT CREEK near Nephi	APR-JUL	0.7	2.0	5.0	37	9.1	15.1	13.5
PAYSON CREEK near Payson	APR-JUL			3.0	41			7.3
SPANISH FORK near Castilla	APR-JUL			30	38			80
HOBBLE CREEK near Springville	APR-JUL			7.0	30			23
PROVO near Hailstone	APR-JUL	19.0	35	46	41	57	73	113
PROVO below Deer Creek Dam	APR-JUL	10.0	35	52	39	69	94	133
AMERICAN FORK near American Fk.	APR-JUL	7.4	10.7	13.0	38	15.3	18.6	34
UTAH LAKE inflow	APR-JUL	15.0	32	80	27	128	200	295
LITTLE COTTONWOOD CRK near SLC	APR-JUL	16.2	18.5	20	49	22	24	41
BIG COTTONWOOD CRK near SLC	APR-JUL	12.6	15.8	18.0	46	20	23	39
PARLEY'S CREEK near SLC	APR-JUL	0.9	1.6	4.0	24	6.4	10.0	17.0
MILL CREEK near SLC	APR-JUL	1.4	1.7	2.0	29	2.3	2.6	6.9
EMIGRATION CREEK near SLC	APR-JUL			1.0	22			4.6
CITY CREEK near SLC	APR-JUL	0.2	0.6	1.1	12	1.6	2.4	9.0
VERNON CREEK near Vernon	APR-JUN	0.1	0.2	0.5	42	0.8	1.2	1.2
SETTLEMENT CREEK near Tooele	APR-JUL	0.2	0.4	1.0	43	1.6	2.4	2.3
SOUTH WILLOW CREEK near Grantsville	APR-JUL	0.1	0.3	1.0	33	1.7	2.8	3.0

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF ----- LAST YR. AVERAGE	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
DEER CREEK	149.6	139.2	125.7	106.9	PROVO RIVER & UTAH LAKE	9	161	37
GRANTSVILLE	3.3	2.0	3.3	---	PROVO RIVER	4	122	41
SETTLEMENT CREEK	1.0	0.8	1.0	0.7	JORDAN RIVER & GREAT SALT	15	68	41
STRAWBERRY-ENLARGED	951.4	361.8	559.1	---	TOOELE VALLEY WATERSHEDS	6	81	26
UTAH LAKE	855.5	603.1	697.0	766.8	UTAH LAKE, JORDAN RIVER &	30	80	37
VERNON CREEK		NO REPORT						

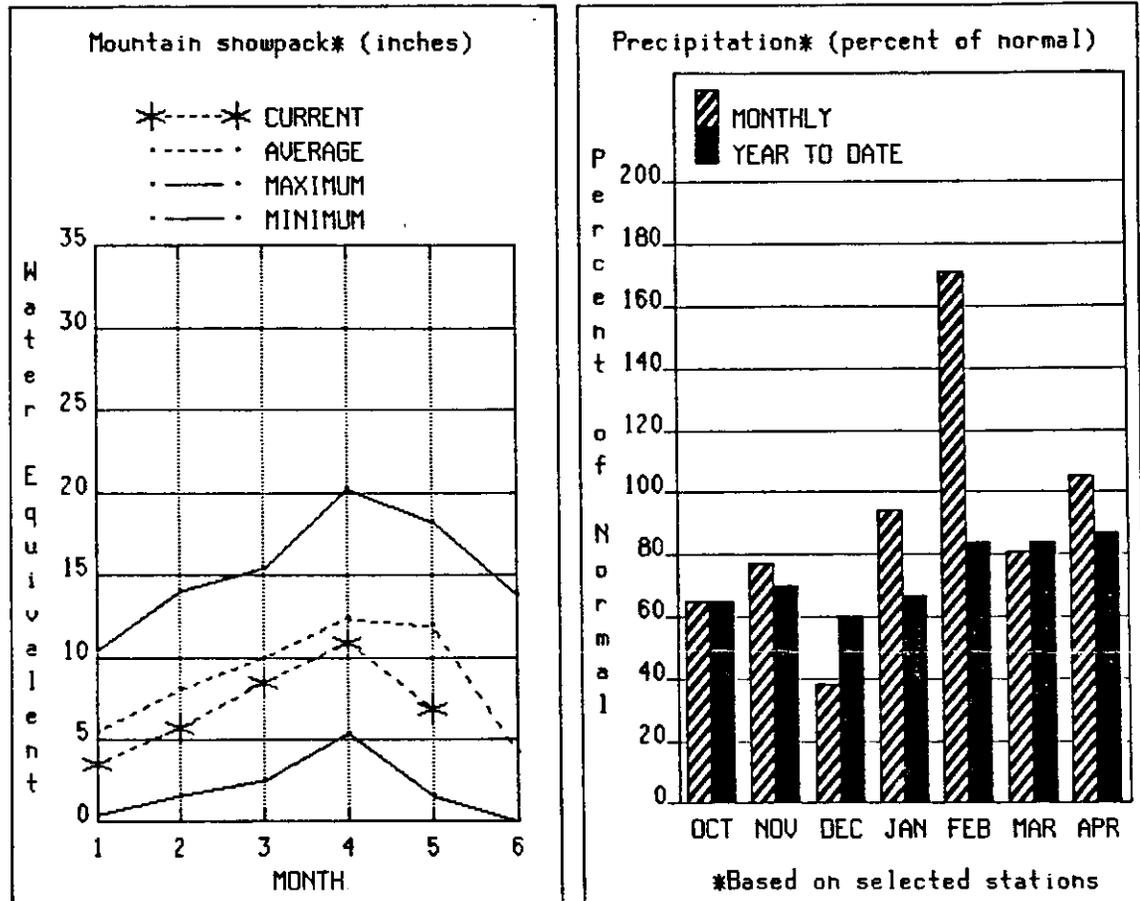
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The average is computed for the 1961-1985 base period.

- (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

May 1, 1990



Snowmelt on the Uinta Mountains proceeded at nearly ten times the normal rate during April this year bringing the water content down to 58% of normal for May first. Water content is 163% of last year and almost identical to 1987 and 1988. This is the fourth consecutive year with much below average May first snowpack. Mountain precipitation was 5% above average during April increasing the seasonal (October through April) total to 87% of normal. Reservoir storage is 6% greater than normal for the end of April but 11% less, compared to capacity, than at this time last year. Forecasts of streamflow for this irrigation season have fallen 16% since last month and now range from 30% to 65% of normal as a result of the early loss of snowpack and poor resultant flows.

UINTAH BASIN & DAGGET SCD'S

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		DRIER		CHANCE OF EXCEEDING *		WETTER		
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
BLACK'S FORK nr Millburne	APR-JUL	26	39	48	50	57	70	96
EF SMITHS FORK inf to State Line Res	APR-JUL	9.0	13.2	16.0	53	18.8	23	30
HENRY'S FORK nr Manila	APR-JUL	7.6	14.4	19.0	42	24	30	45
GREEN RIVER nr Greendale 2	APR-JUL	405	535	620	49	705	835	1267
BIG BRUSH CREEK ab Red Fleet Res	APR-JUL	7.6	9.6	11.0	56	12.4	14.4	19.8
ASHLEY CREEK nr Vernal 2	APR-JUL	19.0	24	28	54	32	37	52
WEST FORK DUCHESNE RIVER nr Hanna	APR-JUL	9.4	12.1	14.0	50	15.9	18.6	28
DUCHESNE RIVER nr Tabiona	APR-JUL	37	45	50	45	55	63	110
ROCK CREEK nr Mountain Home	APR-JUL	37	45	50	53	55	63	95
DUCHESNE RIVER abv Knight Diversion	APR-JUL	69	85	95	50	106	121	190
STRAWBERRY RIVER nr Soldier Springs	APR-JUL	18.0	25	30	45	35	42	66
CURRENT CREEK nr Fruitland 2	APR-JUL	6.5	8.6	10.0	43	11.4	13.5	23
STRAWBERRY RIVER nr Duchesne (natural)	APR-JUL	35	44	51	42	58	67	121
STRAWBERRY RIVER inflow to Starvation	APR-JUL	21	26	30	45	34	39	67
LAKEFORK RIVER blw Moon Lake 2	APR-JUL	35	42	46	65	50	57	71
YELLOWSTONE RIVER nr Altonah	APR-JUL	22	33	40	61	47	58	66
DUCHESNE RIVER at Myton 2	APR-JUL	29	74	105	38	136	181	275
UINTA RIVER nr Neola	APR-JUL	15.0	35	48	55	61	81	88
WHITEROCKS RIVER nr Whiterocks	APR-JUL	13.0	23	30	50	37	47	60
DUCHESNE RIVER nr Randlett	APR-JUL	15.0	60	102	30	194	330	340

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
FLAMING GORGE	3749.0	2998.3	2934.9	---	UPPER GREEN RIVER in UTAH	9	155	43
MOON LAKE	35.8	18.7	14.9	18.1	ASHLEY CREEK	2	0	31
RED FLEET	26.0	16.9	21.9	---	BLACK'S FORK RIVER	3	89	43
STEINAKER	33.3	10.1	20.9	23.0	SHEEP CREEK	2	245	61
STARVATION	165.3	135.8	154.6	113.5	DUCHESNE RIVER	12	166	68
STRAWBERRY-ENLARGED	951.4	361.8	559.1	---	LAKE FORK-YELLOWSTONE CRE	5	138	95
					STRAWBERRY RIVER	4	482	12
					UINTAH-WHITEROCKS RIVERS	2	300	88
					UINTAH BASIN & DAGGET SCD	21	163	58

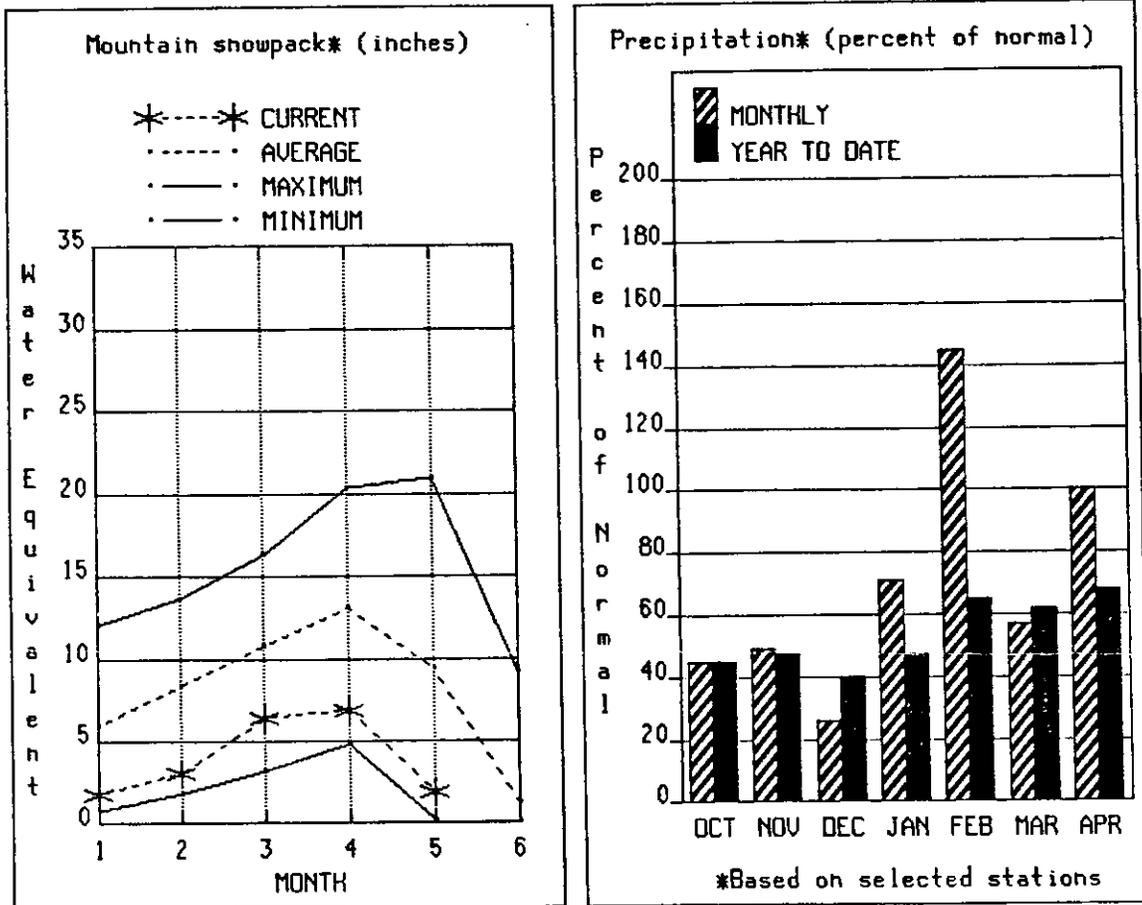
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The average is computed for the 1961-1985 base period.

- (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.

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN CO

May 1, 1990



The snowpack in southeastern Utah ranges from 0% on the Willow Creek-White River watersheds to 38% of normal snow water content on the San Rafael with the area as a whole averaging only 20% of usual. Precipitation at mountain stations was normal during April but warm temperatures prevented snowpack accumulation at all but the highest elevations. Seasonal accumulation of precipitation (October through April) is 68% of normal--tied with the Weber for the poorest in the State. The reservoir storage picture is no brighter with area reservoirs holding only 46% of their combined capacity in storage (73% of average). Streamflow forecasts have fallen by approximately 10% since last month and now average 41% with a range of from 29% to 55% of normal flow projected for the April through July forecast period.

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

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		DRIER		FUTURE CONDITIONS		WETTER		
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
GOOSEBERRY CREEK nr Scofield	APR-JUL	2.4	3.9	5.0	42	6.1	7.6	12.0
SCOFIELD RESERVOIR inflow	APR-JUL	10.1	14.2	17.0	37	19.8	24	46
PRICE RIVER nr Heiner 2	APR-JUL	16.0	21	25	42	29	34	59
GREEN RIVER at Green River, UT 2	APR-JUL	1150	1510	1750	55	1990	2350	3182
HUNTINGTON CREEK inf to Electric Lak	APR-JUL	4.7	6.1	7.0	46	7.9	9.3	15.1
HUNTINGTON CREEK nr Huntington 2	APR-JUL	15.0	20	23	42	26	31	55
Cottonwood Ck nr Orangeville 2	APR-JUL	2.8	12.2	20	43	34	55	47
Ferron Ck nr Ferron	APR-JUL	5.3	10.2	15.0	37	19.8	27	41
Colorado R nr Cisco, UT 2	APR-JUL	780	1240	1550	45	1860	2320	3443
Mill Ck nr Moab	APR-JUL	0.6	0.9	1.6	29	2.7	4.2	5.5
Seven Mile Ck nr Fish Lake	APR-JUL	0.9	1.4	3.0	46	4.6	7.0	6.5
Muddy Ck nr Emery	APR-JUL	2.9	4.4	7.3	35	11.6	18.0	21
San Juan R nr Bluff, UT 2	APR-JUL	72	255	375	34	495	680	1091

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
HUNTINGTON NORTH	3.9	3.7	3.7	3.9	PRICE RIVER	3	456	21
JOE'S VALLEY	61.6	34.4	42.3	46.8	SAN RAFAEL RIVER	7	153	38
KEN'S LAKE	2.3	0.8	0.5	---	MUDDY CREEK	1	0	3
MILL SITE	16.7	9.9	11.0	6.3	FREMONT RIVER	5	0	15
SCOFIELD	65.8	20.5	37.1	36.6	LASAL MOUNTAINS	2	0	3
					BLUE MOUNTAINS	2	0	8
					WILLOW CREEK - WHITE RIVE	2	0	0
					CARBON, EMERY, WAYNE, GRA	22	195	20

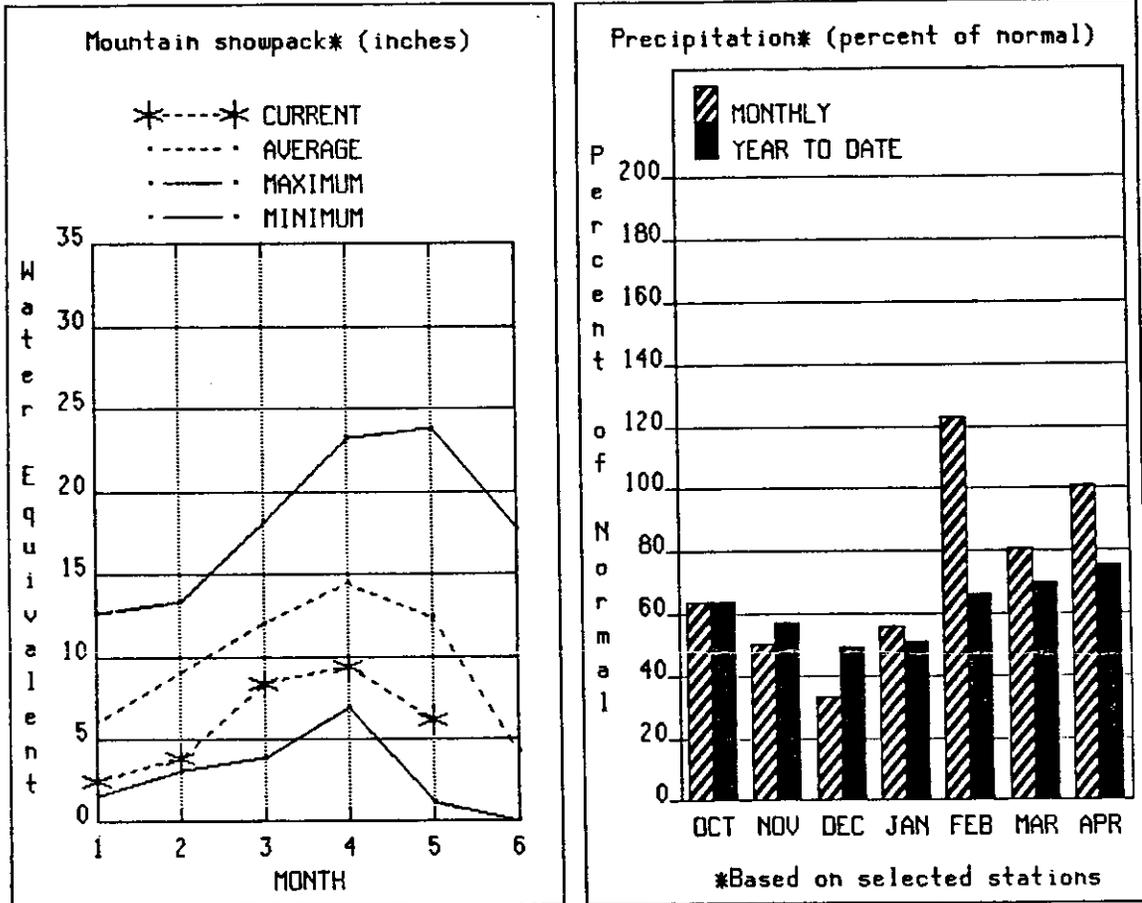
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SEVIER & BEAVER RIVER BASINS

May 1, 1990



Snowmelt progressed at more than one and one-half times the normal rate during April leaving the May first snowpack at 50% of normal. Precipitation at mountain stations was slightly above average for the month of April bringing the accumulation for the water year to 75% of average. Reservoir storage is slightly above average for this time of year but with the early melt, early withdrawals and extremely poor projected streamflows this spring and summer it is doubtful any of the reservoirs will fill. Last year only 16% of cumulative capacity remained to be filled. This year 34% remained to be filled on the end of April. Streamflow forecasts have dropped commensurately with the loss of snowpack and now range from 11% to 45% of average for the upcoming April through July period.

SEVIER & BEAVER RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	←----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		----- CHANCE OF EXCEEDING * -----						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
SEVIER at Hatch	APR-JUL	1.6	3.1	10.0	19	16.9	27	52
SEVIER near Circleville	APR-JUL			8.0	18			44
SEVIER near Kingston	APR-JUL	1.7	3.4	5.0	15	15.5	31	34
ANTIMONY CREEK near Antimony	APR-JUL			1.0	11			8.9
E F SEVIER near Kingston	APR-JUL	1.2	2.4	4.0	17	10.6	20	24
SEVIER blw Piute Dam	APR-JUL	2.8	5.6	10.0	18	29	56	56
CLEAR CREEK near Sevier	APR-JUL			5.0	23			22
SIGURD to GUNNISON	APR-JUL	2.2	4.4	10.0	23	32	63	44
KINGSTON to VERMILLION DAM	APR-JUL			5.0	26			18.9
VERMILLION DAM to GUNNISON	APR-JUN			7.5	19			40
SALINA CREEK at Salina	APR-JUN			3.0	16			18.2
PLEASANT CREEK near Pleasant	APR-JUL			3.0	26			11.5
EPHRAIM CREEK near Ephraim	APR-JUL			5.0	20			25
SEVIER nr Gunnison	APR-JUL			20	20			99
CHICKEN CREEK near Levan	APR-JUL	0.4	0.6	1.2	34	1.8	2.6	3.5
OAK CREEK near Oak City	APR-JUL	0.0	0.1	0.6	37	1.1	1.8	1.6
CHALK CREEK near Fillmore	APR-JUL	1.0	2.7	4.5	27	6.3	9.0	16.4
BEAVER RIVER near Beaver	APR-JUL	5.4	7.1	12.0	44	16.9	24	27
NORTH CREEK near Beaver (combined)	APR-JUL	1.0	2.1	6.5	45	10.9	17.4	14.6
MINERSVILLE RESERVOIR inflow	APR-JUL	0.3	1.3	2.7	16	6.0	10.9	16.7

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF ----- LAST YR. AVERAGE	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
GUNNISON	20.3	7.6	16.9	14.9	UPPER SEVIER RIVER (south	10	0	39
MINERSVILLE (RkyFd)	26.0	12.0	20.6	14.6	EAST FORK SEVIER RIVER	4	0	25
OTTER CREEK	52.7	31.1	51.4	39.5	SOUTH FORK SEVIER RIVER	6	0	46
PIUTE	71.8	48.0	54.4	44.7	LOWER SEVIER RIVER (inclu	12	217	52
SEVIER BRIDGE	236.0	169.4	196.6	136.0	BEAVER RIVER	2	158	65
PANQUITCH LAKE	22.3	9.3	19.8	---	SEVIER & BEAVER RIVER BAS	24	258	50

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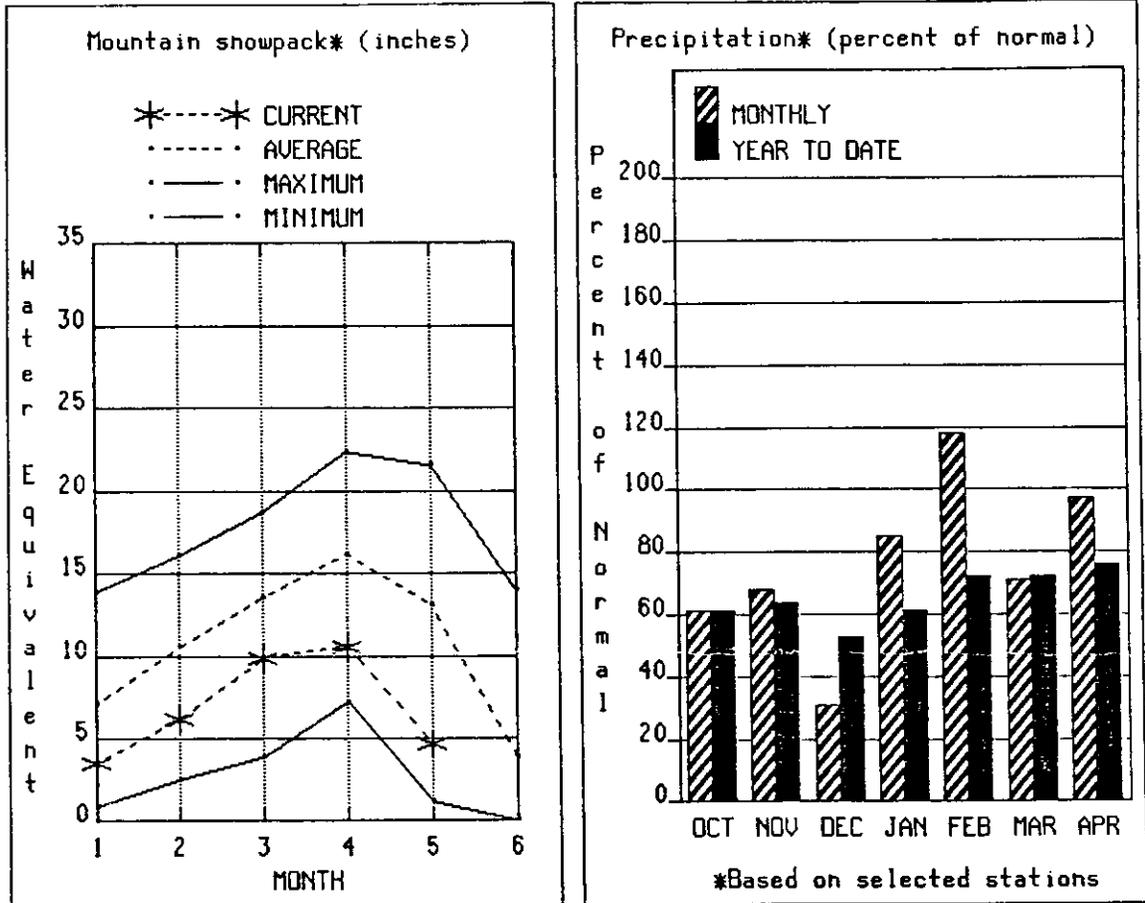
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E. GARFIELD, KANE, WASHINGTON, & IRON Co

May 1, 1990



The snowpack in southwestern Utah left the low and mid-elevations early this year. Snow measurement sites below approximately 8700 feet elevation were bare by May first. The best snowpack was at Brian Head snow course (10000 feet elevation) with only two-thirds normal water content. Overall, the snowpack in southwestern Utah was just 36% of normal. Mountain precipitation was slightly above normal for the month of April bringing accumulation for the water year to 70% of average. Reservoir storage is extremely low with Gunlock less than 50% of capacity and falling and the Enterprise Reservoirs less than 10% of capacity and falling. April through July streamflow projections are for flows ranging from only 20% to 37% of normal (a reduction of approximately 20% from levels forecast last month).

E. GARFIELD, KANE, WASHINGTON, & IRON Co.

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		DRIER		50% (MOST PROBABLE) (1000AF) (% AVG.)		WETTER		
		90% (1000AF)	70% (1000AF)	30% (1000AF)	10% (1000AF)			
Coal Ck nr Cedar City	APR-JUL			4.0	20			20
Colorado R inflow to Lake Powell 2	APR-JUL	1400	2350	3000	37	3650	4600	8086
Virgin R nr Hurricane	APR-JUN			20	29			68
Santa Clara R nr Pine Valley	APR-JUN			1.0	20			5.0

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
GUNLOCK	10.4	4.6	7.8	---	VIRGIN RIVER	5	0	41
LAKE POWELL	25002.0	17725.0	21309.0	---	PAROWAN	4	0	46
QUAIL CREEK		NO REPORT			ENTERPRISE TO NEW HARMONY	2	0	0
UPPER ENTERPRISE	10.0	0.6	0.9	---	COAL CREEK	3	0	41
LOWER ENTERPRISE	2.6	0.5	0.8	---	ESCALANTE RIVER	2	0	30
					E. GARFIELD, KANE, WASHIN	14	0	39

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SNOW COURSE DATA
FOR THE STATE OF UTAH
As of May 1, 1990

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
ALTA CENTRAL	8800	05/01	52	23.6	28.5	40.3	DILL'S CAMP SNOTEL	9200	04/23	0	0.4S	0.0	12.7
ASHLEY TWIN LAKES	10500	05/01	41	12.3	-	18.0	DONKEY RESERVOIR SNO	9800	04/23	7	0.5S	0.0	5.5
BEAVER DAMS	8000	04/26	0	0.0	0.0	8.0	DRY BREAD POND	8350	04/23	3	.9	5.2	18.2
BEAVER DAMS SNOTEL	8000	04/23	-	0.0S	0.0	8.0	DRY BREAD POND SNOTL	8350	04/23	-	0.4S	16.6	21.2
BEAVER DIVIDE SNOTL	8280	04/23	0	0.0S	0.0	4.2	EAST SHINGLE LAKE	9800	05/01	70	27.3	-	28.9
BEN LOMOND PK SNOTL	8000	04/23	27	10.5S	32.7	43.8	EAST WILLOW CREEK SN	8250	04/23	-	0.0S	0.0	7.2
BEN LOMOND TR SNOTL	6000	04/23	0	0.0S	0.0	8.2	FARMINGTON CANYON L.	6950	04/23	10	3.8	14.4	23.7
BEVAN'S CABIN	6450	04/26	0	0.0	0.0	5.5	FARMINGTON CN SNOTEL	8000	04/23	24	12.2S	25.4	31.5
BIG FLAT SNOTEL	10290	04/23	50	13.0S	11.8	21.3	FARNSWORTH LAKE	9600	04/26	46	15.5	11.2	22.9
BIRCH CROSSING	8100	04/30	0	0.0	0.0	2.0	FARNSWORTH LK SNOTEL	9600	04/23	-	16.5S	13.5	22.2
BLACK FLAT-U.M. CK S	9400	04/23	3	0.3S	0.0	9.1	FISH LAKE	8700	04/26	0	0.0	0.0	5.9
BLACK'S FORK GS-EF	9340	04/24	10	2.9	1.7	9.9	FIVE POINTS LAKE SNO	10920	04/23	-	17.0S	10.2	17.2
BLACK'S FORK JUNCTN	8930	04/24	0	0.0	0.0	8.3	FRANCES FLATS	6700	05/02	0	0.0	0.0	0.7
BOX CREEK SNOTEL	9300	04/23	14	2.5S	0.0	11.3	R.C. HEADQUARTER	8700	04/26	34	13.6	3.3	17.6
BRIAN HEAD	10000	04/25	43	14.8	0.1	22.0	G.B.R.C. MEADOWS	10000	04/26	51	19.0	11.6	27.2
BRIGHTON CABIN	8700	05/03	30	12.9	16.0	25.5	GARDEN CITY SUMMIT	7600	04/23	7	2.1	11.0	17.2
BRIGHTON SNOTEL	8750	04/23	-	16.0S	21.3	31.2	GEORGE CREEK	8840	-	-	-	-	-
BROWN DUCK SNOTEL	10600	04/23	-	16.8S	14.5	19.8	GOOSEBERRY R.S.	8400	04/26	10	3.6	0.0	10.0
BRYCE CANYON	8000	04/24	0	0.0	0.0	0.6	GOOSEBERRY R.S. SNOT	7900	04/23	-	0.0S	0.0	5.9
BUCK FLAT SNOTEL	9800	04/23	20	7.3S	2.5	16.9	HARDSCRABBLE	6700	04/23	0	0.0	0.4	11.1
BUCK PASTURE	9700	05/01	41	11.9	-	17.2	HARRIS FLAT	7700	04/26	0	0.0	0.0	2.9
BUCKBOARD FLAT	9000	04/30	4	0.3	0.0	8.3	HARRIS FLAT SNOTEL	7700	04/23	-	0.0S	0.0	2.1
BUG LAKE SNOTEL	7950	04/23	18	6.2S	13.2	22.9	HAYDEN FORK	9400	04/27	22	7.3	5.5	16.1
BURT'S-MILLER RANCH	7900	04/24	0	0.0	0.0	2.4	HAYDEN FORK SNOTEL	9100	04/23	-	8.0S	0.0	13.7
CAMP JACKSON	8600	05/02	6	1.0	0.0	7.5	HENRY'S FORK	10000	05/01	37	11.1	-	13.4
CAMP JACKSON SNOTEL	8600	04/23	-	-	0.0	8.5	HEWINTA SNOTEL	9500	04/23	8	3.9S	2.8	10.2
CASTLE VALLEY	9580	04/25	0	0.0	0.0	8.5	HICKERSON PARK SNOTE	9100	04/23	5	1.7S	0.0	6.5
CASTLE VALLEY SNOTL	9580	04/23	-	0.3S	0.0	11.3	HIDDEN SPRINGS	5500	05/02	0	0.0	0.0	0.4
CHALK CK #1 SNOTEL	9100	04/23	38	13.7S	24.7	23.5	HOBBLE CREEK SUMMIT	7420	04/26	0	0.0	0.7	8.3
CHALK CK #2 SNOTEL	8200	04/23	9	3.5S	7.9	11.7	HOLE-IN-ROCK SNOTEL	9150	04/23	5	1.3S	0.0	6.0
CHALK CREEK #3	7500	04/24	0	0.0	0.0	3.1	HORSE RIDGE SNOTEL	8260	04/23	1	0.4S	13.8	18.8
CHEPETA SNOTEL	10300	04/23	-	12.6S	3.0	12.5	HUNTINGTON-HORSESHOE	9800	04/26	40	15.4	14.5	27.4
CITY CREEK	7500	05/02	0	0.0	13.1	23.2	INDIAN CANYON SNOTEL	9100	04/23	9	3.4S	0.0	11.2
CLEAR CK RIDG #1 SNT	9200	04/23	20	12.4S	3.9	16.9	JOHNSON VALLEY	8850	04/26	0	0.0	0.0	4.6
CLEAR CK RIDG #2 SNT	8000	04/23	7	3.1S	0.0	8.7	KILFOIL CREEK	7300	04/23	6	1.8	4.6	10.7
CLEAR CREEK MEADOWS	9420	04/23	0	0.0	-	20.6	KILLION CANYON	6300	05/02	0	0.0	0.0	0.0
CLEAR CREEK RIDGE #3	6600	04/26	0	0.0	0.0	0.1	KIMBERLY MINE SNOTEL	9300	04/23	32	10.4S	0.0	14.8
CORRAL	8200	-	-	-	-	-	KING'S CABIN SNOTEL	8750	04/23	2	1.9S	0.0	9.8
CURRENT CREEK SNOTEL	8000	04/23	0	0.0S	0.0	3.3	KLOWDIKE NARROWS	7400	04/23	0	0.0	8.0	15.8
DANIELS-STRAWBERRY S	8000	04/23	0	0.0S	0.0	11.2	KOLOB SNOTEL	9250	04/23	-	8.7S	0.0	21.4
DESERET PEAK	9250	04/26	-	7.9E	11.7	26.9	LAKEFORK #1 SNOTEL	10100	04/23	40	11.7S	2.6	11.1
DESERET PEAK AM	9250	04/26	25	9.8	7.4	26.9	LAKEFORK BASIN SNOTE	10900	04/23	-	18.9S	19.5	17.5
DESERET PEAK SNOTEL	9250	04/23	-	8.9S	15.7	26.9	LAKEFORK MOUNTAIN #3	8400	04/24	0	0.0	0.0	2.0

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
LAMBS CANYON	7400	04/30	2	0.3	1.4	11.0	ROCKY BASIN-SETTLEMT	8900	04/26	48	19.3	14.8	30.0
LASAL MOUNTAIN LOWER	8800	05/02	4	0.6	0.0	5.3	ROCKY BN-SETTLEMT SN	8900	04/23	-	11.8S	9.5	24.8
LASAL MOUNTAIN SNOTE	9850	04/23	7	0.0S	0.0	13.4	SEELEY CREEK SNOTE	10000	04/23	28	7.2S	5.6	17.0
LILY LAKE SNOTE	9050	04/23	17	5.3S	3.5	10.7	SHINGLE MILL	6200	04/25	0	0.0	0.0	3.3
LITTLE BEAR LOWER	6000	05/01	0	0.0E	0.0	1.9	SILVER LAKE(BRIGHT.)	8730	04/30	36	17.0	19.4	28.2
LITTLE BEAR SNOTE	6550	04/23	0	0.0S	0.0	4.3	SMITH MOREHOUSE SNTL	7600	04/23	2	2.1S	0.6	7.7
LITTLE GRASSY CREEK	6100	04/25	0	0.0	0.0	0.1	SNOWBIRD GAD VALLEY	9700	05/01	79	35.0	32.2	40.0
LITTLE GRASSY SNOTE	6100	04/23	-	0.0S	0.0	0.1	SNOWBIRD SNOTE	9700	04/23	-	31.0S	-	40.1
LONG FLAT SNOTE	8000	04/23	0	0.0S	0.0	2.6	SPIRIT LAKE	10300	04/24	36	12.0	5.6	15.9
LONG VALLEY JCT.	7500	04/25	0	0.0	0.0	0.0	SQUAW SPRINGS	9300	04/26	0	0.0	0.0	4.9
LONG VALLEY JCT. SNT	7500	04/23	-	0.0S	0.0	0.0	STEEL CREEK PARK SNO	10100	04/23	39	12.7S	15.9	17.7
LOOKOUT PEAK SNOTE	8200	04/23	14	4.9S	14.0	19.0	STILLWATER CAMP	8550	04/24	2	0.6	0.0	8.4
LOST CREEK RESERVOIR	6130	04/23	0	0.0	0.0	0.0	STRAWBERRY DIVIDE SN	8400	04/23	-	1.9S	1.1	17.2
MAMMOTH-COTTONWD SNT	8800	04/23	-	7.8S	0.5	17.5	STUART R.S.	7950	04/26	0	0.0	0.0	2.3
MAMMOTH-COTTONWOOD	8800	04/26	23	9.1	5.8	20.9	SUSC RANCH	8200	04/30	0	0.0	0.0	2.7
MERCHANT VALLEY SNOT	8750	04/23	18	5.7S	0.0	7.6	TALL POLES	8800	04/30	15	4.5	0.0	12.7
MIDDLE CANYON	7000	04/26	0	0.0	0.0	10.0	THAYNES CANYON SNOTL	9200	04/23	-	12.1S	15.5	23.7
MIDWAY VALLEY	9800	04/25	34	13.4	0.1	24.1	THRISTLE FLAT	8500	-	-	-	-	17.5
MIDWAY VALLEY SNOTE	9800	04/23	-	15.2S	4.1	21.6	TIMBERLINE	9100	-	-	-	-	-
MILL CREEK	6950	05/01	15	5.7	12.5	20.6	TIMPANOGOS DIVIDE SN	8140	04/23	19	8.1S	2.7	19.9
MILL-D NORTH SNOTE	8960	04/23	21	7.1S	18.5	32.2	TONY GROVE LK SNOTE	8400	04/23	22	11.9S	36.4	33.7
MILL-D SOUTH FORK	7400	04/30	2	0.3	1.1	15.4	TONY GROVE R.S.	6250	04/23	0	0.0	0.0	3.8
MINING FORK SNOTE	8000	04/23	8	0.0S	6.9	22.6	TRIAL LAKE	9960	04/27	47	17.3	18.1	26.6
MONTE CRISTO R.S.	8960	04/23	14	5.1	18.3	26.5	TRIAL LAKE SNOTE	9960	04/23	-	15.5S	25.2	25.7
MONTE CRISTO SNOTE	8960	04/23	28	11.7S	25.6	29.1	TRIBUT CREEK SNOTE	9400	04/23	-	3.9S	0.0	9.2
MOSBY MTN. SNOTE	9500	04/23	-	9.9S	4.5	13.0	UPPER JOES VALLEY	8900	04/26	0	0.0	0.1	6.6
MT. BALDY R.S.	9500	04/26	50	17.9	12.9	26.2	UPPER MILL CREEK	8300	05/01	36	14.9	-	-
MUD CREEK #2	8600	04/26	8	3.1	0.9	8.9	VERNON CREEK SNOTE	7500	04/23	-	0.0S	0.0	7.9
OAK CREEK	7760	04/25	13	4.5	0.2	9.5	VIVONT	7670	-	-	-	-	8.0
ONE MILE SUMMIT	7330	-	-	-	-	0.0	WEINSTER FLAT SNOTE	9200	04/23	0	0.4S	0.0	6.7
PANQUITCH LAKE	8200	04/25	0	0.0	0.0	1.3	WHITE RIVER #1 SNOTE	8550	04/23	0	1.0S	0.0	10.2
PARLEY'S CANYON SNOT	7500	04/23	-	0.0S	0.0	11.2	WHITE RIVER #3	7400	04/26	0	0.0	0.0	0.8
PARLEY'S CANYON SUM.	7500	04/30	3	0.7	4.7	14.2	WIDTSONE #3 SNOTE	9500	04/23	0	4.5S	0.0	11.4
PAYSON R.S.	8050	04/26	2	0.9	0.5	16.3	WRIGLEY CREEK	9000	04/26	4	0.9	0.0	9.0
PAYSON R.S. SNOTE	8050	04/23	-	3.1S	0.0	16.7	YANKEE RESERVOIR	8700	04/25	3	0.8	0.0	7.3
PICKLE KEG SNOTE	9600	04/23	-	5.4S	3.1	16.6	-	-	-	-	-	-	-
PICKLE KEG SPRING	9600	04/26	13	3.6	0.1	15.8	-	-	-	-	-	-	-
PINE CREEK	8800	04/25	32	11.3	0.0	15.5	-	-	-	-	-	-	-
PINE CREEK SNOTE	8800	04/23	-	15.6S	0.0	15.5	-	-	-	-	-	-	-
RED PINE RIDGE SNOTE	9200	04/23	14	4.8S	0.6	15.6	-	-	-	-	-	-	-
REDDEN MINE LOWER	8500	04/27	15	5.6	3.3	17.9	-	-	-	-	-	-	-
REES'S FLAT	7300	04/25	0	0.0	0.1	11.0	-	-	-	-	-	-	-
ROCK CREEK SNOTE	7900	04/23	0	0.0S	0.0	0.2	-	-	-	-	-	-	-

NOTE:
The S flag following Water Content for SNOTE 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.

STATE OF UTAH GENERAL OUTLOOK
JUNE 1, 1990

SUMMARY

Normally the first of June is when many of the streams which are fed by high mountain snowpack reach peak flow. This year the streamflow peaks are distant history, reservoirs that didn't fill and won't fill this season are being drawn down rapidly and three or four months of hot, dry weather lies ahead.

SNOWPACK

June first estimates of snowpack on the watersheds of Utah indicate snow water content is only about one-fifth of normal. The southwestern corner of the State is worst off with 9% and the Uintas have the best snowpack with 61% of normal snow water. Usually about 71% of the snow courses in the State still have snow on the ground by the first of June. This year only 15% of the snow courses have measurable snow. During May the State's snowpack usually loses 9.2 inches of water content to melt. This year, due to the minimal snowpack, snowmelt only accounted for 4.1 inches of snow water loss to feed our low reservoirs, augment streamflow, and recharge groundwater levels and dry soils. Statewide this was the third lowest snowmelt in the last thirty years (only 1977 and 1981 produced less snow water loss).

PRECIPITATION

Mountain precipitation during May was below average in all areas of the State. Monthly totals range from 29% of average on the Uintas to 80% on the mountains of southwestern Utah. Many areas of the State received extremely light rainfall during the month. The Strawberry River headwaters, for example, only got 16% of normal for the month. The Virgin River, on the other hand, received near normal precipitation in the upper reaches for the month. Seasonal accumulation of precipitation at mountain stations (October first through the end of May) ranges from 62% of normal in southeastern Utah to 80% on the Uintas.

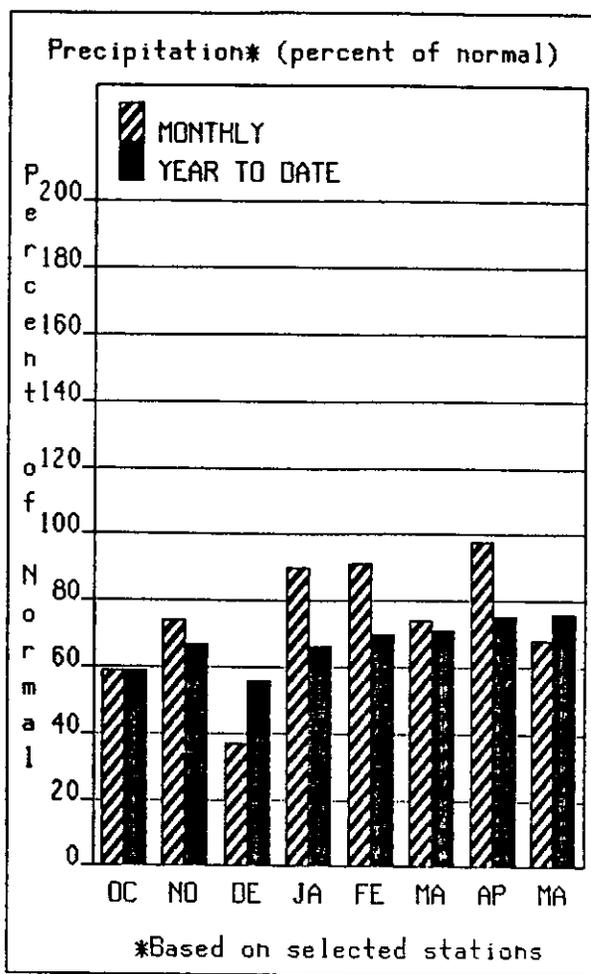
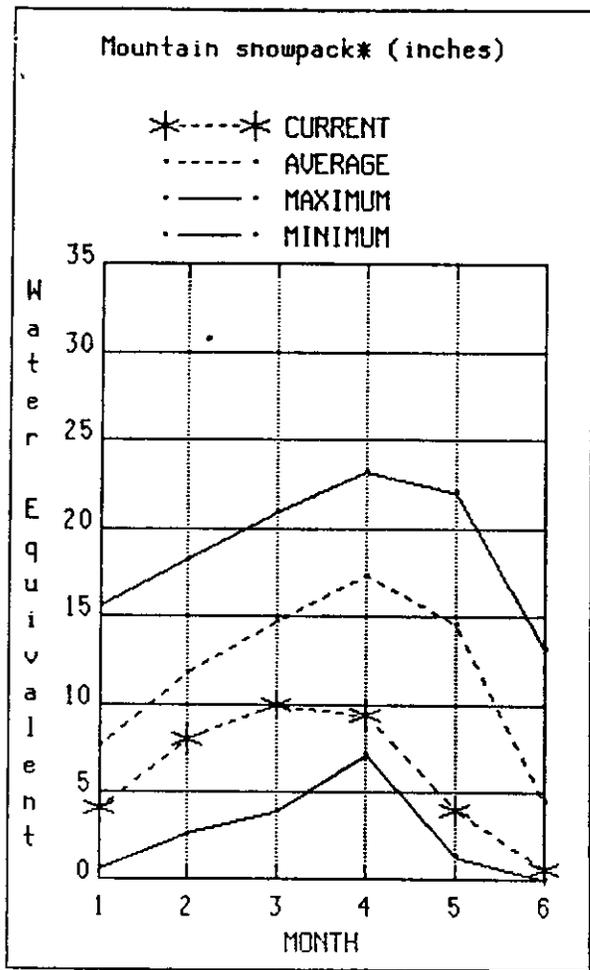
Precipitation at National Weather Service stations is reported as "spotty". The only areas reporting near or above average precipitation for the month of May were the Wasatch Front and parts of southwestern Utah. Seasonal totals at NWS sites now range from 51% of average in the southeast to 97% in western Utah.

RESERVOIRS

The volume of water stored in our sample of 23 key irrigation reservoirs in the State is 73% of normal for the end of May. Only 60% of their combined capacity is filled. Last year 72% of capacity was filled at this time. Normally 82% of capacity would be filled by the end of May. One month ago storage was 5% greater than it is currently. The last statistic underscores the seriously deficient nature of this runoff season--storage actually decreased during a month that historically is one of the best runoff months. Storage ranges from 17% of capacity in Gunnison Reservoir to Deer Creek Reservoir which is spilling with the help of interbasin transfers of water from the Weber and the Duchesne.

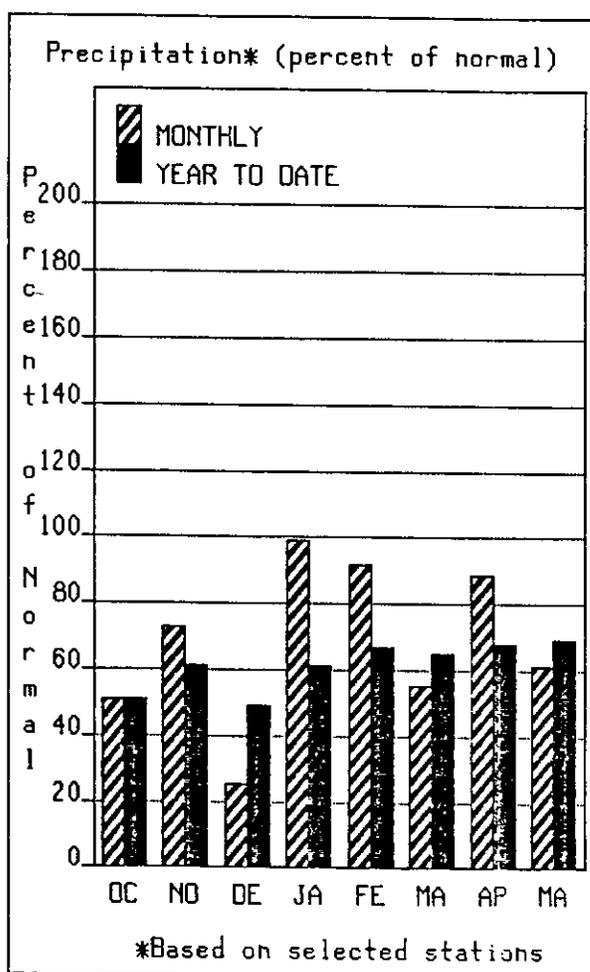
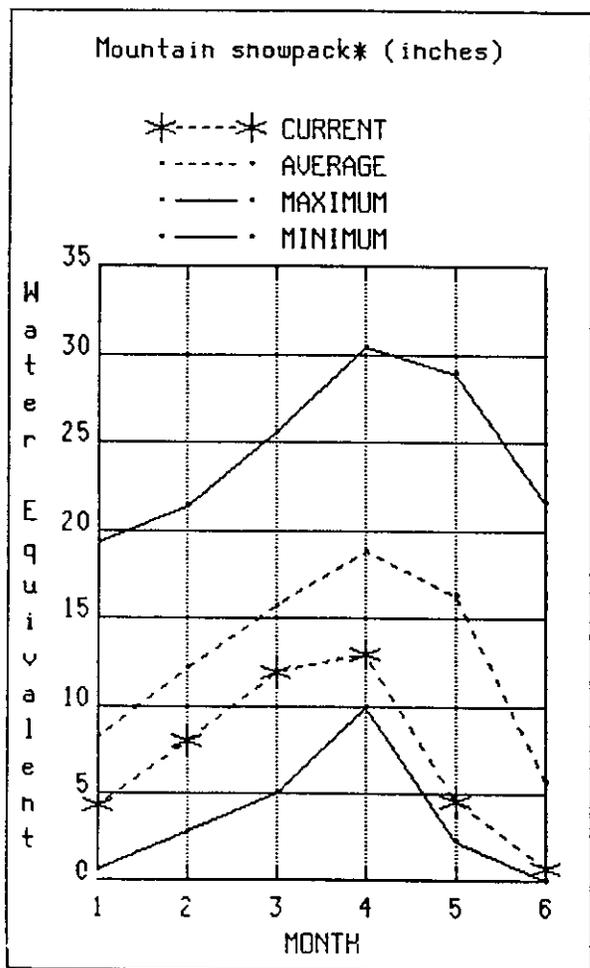
STREAMFLOW

May streamflow volumes lived down to expectations. Two examples of the extremely low flows experienced last month are the Bear at UT-WY Stateline at 14% of average and Chalk Creek near Coalville at 9%. Two months remain in the April through July forecast period. All indications are that the forecasts issued last month are on track. The first two months produced much below normal flows and the next two promise to be even lower. The range of forecasts is from 11 to 65% of normal for the four month period. This means that many streams will have flows of 20% of normal or lower for the remainder of the forecast season.

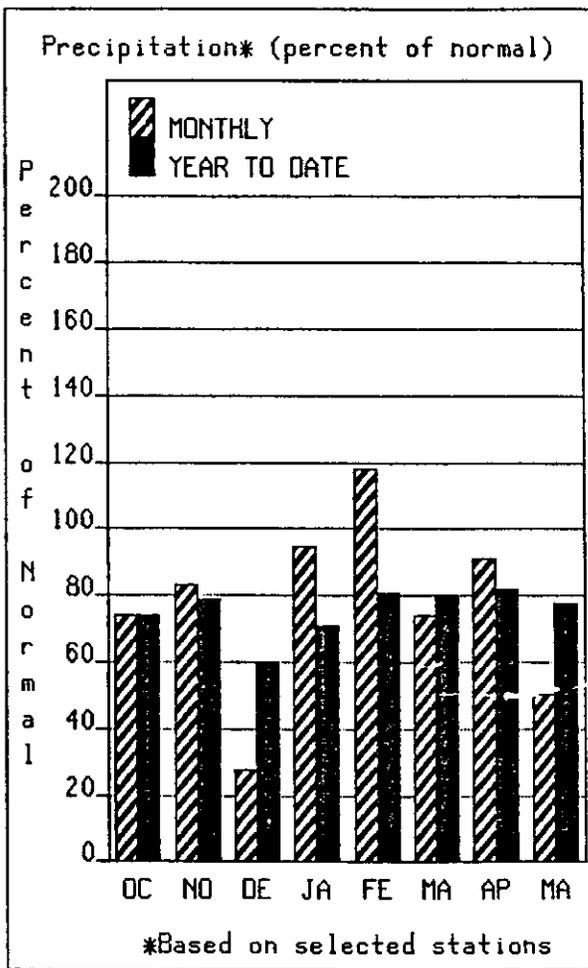
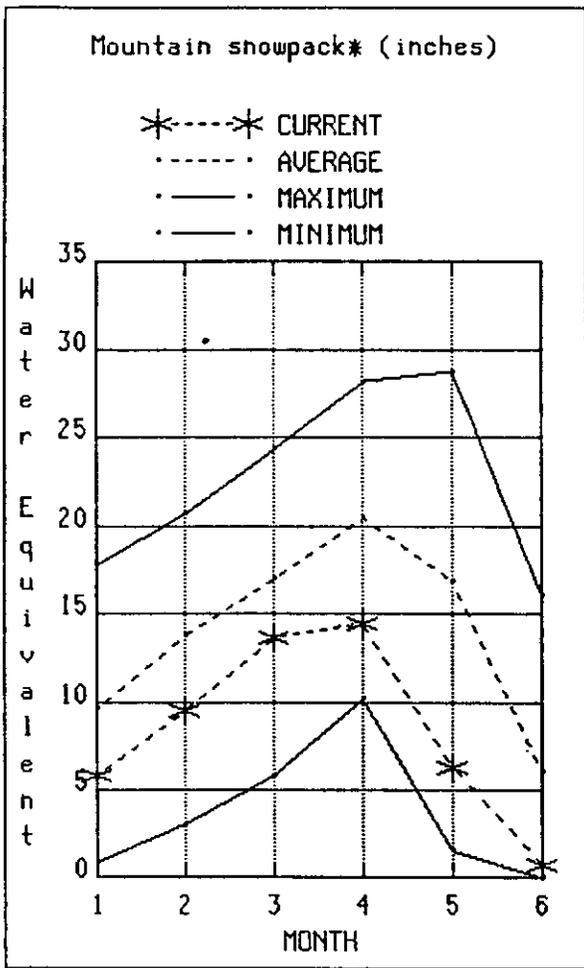


JUNE 1, 1990

BEAR RIVER
BASIN

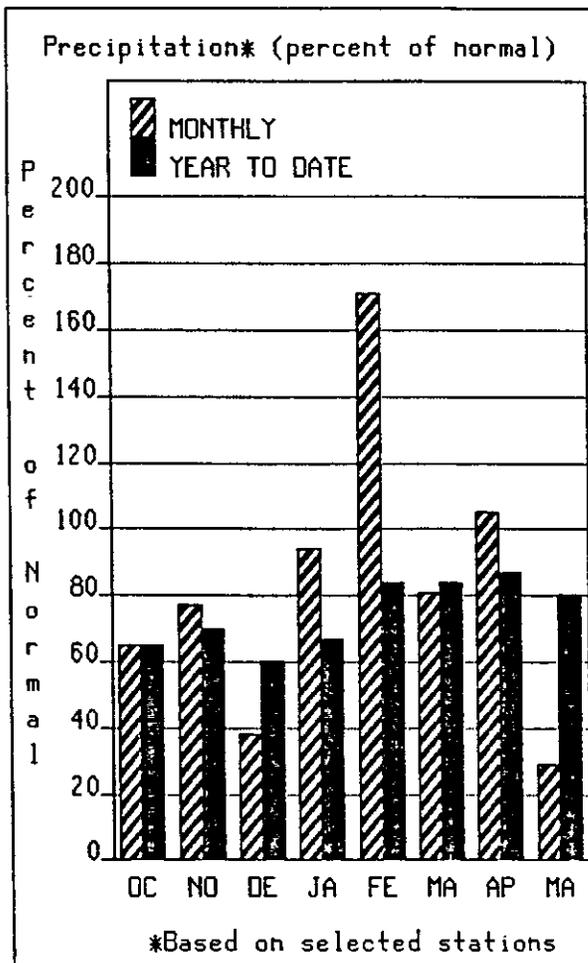
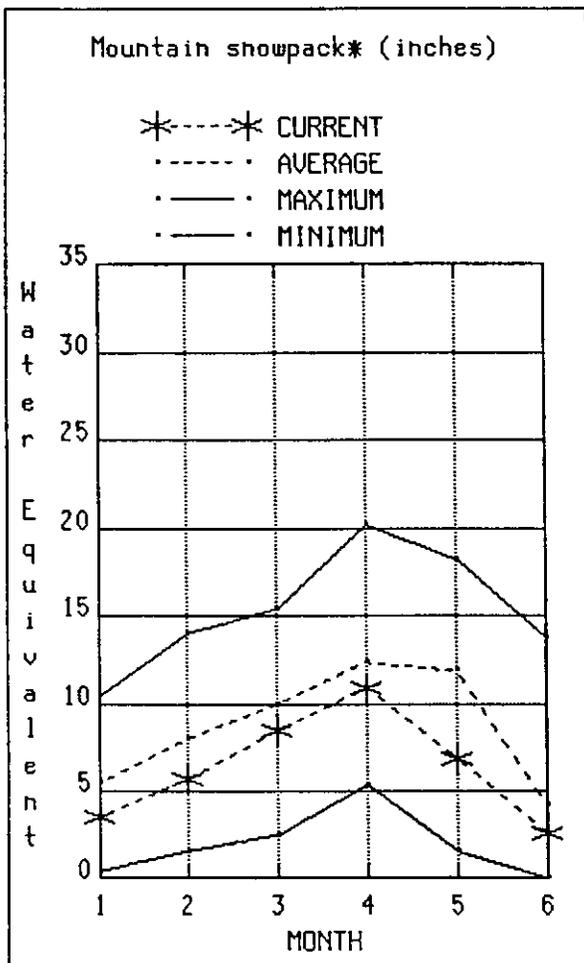


WEBER & ODGEN
WATERSHEDS
IN UTAH

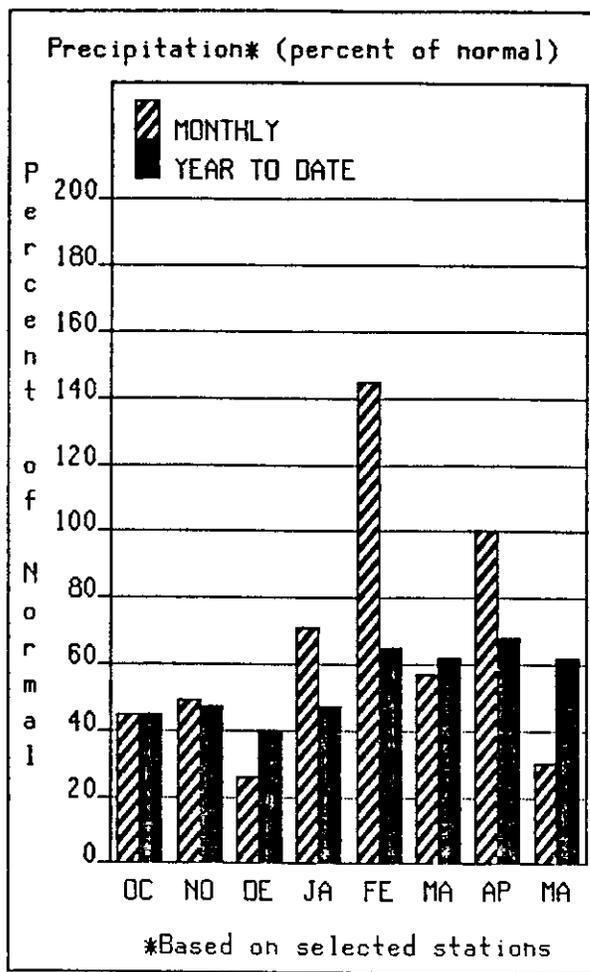
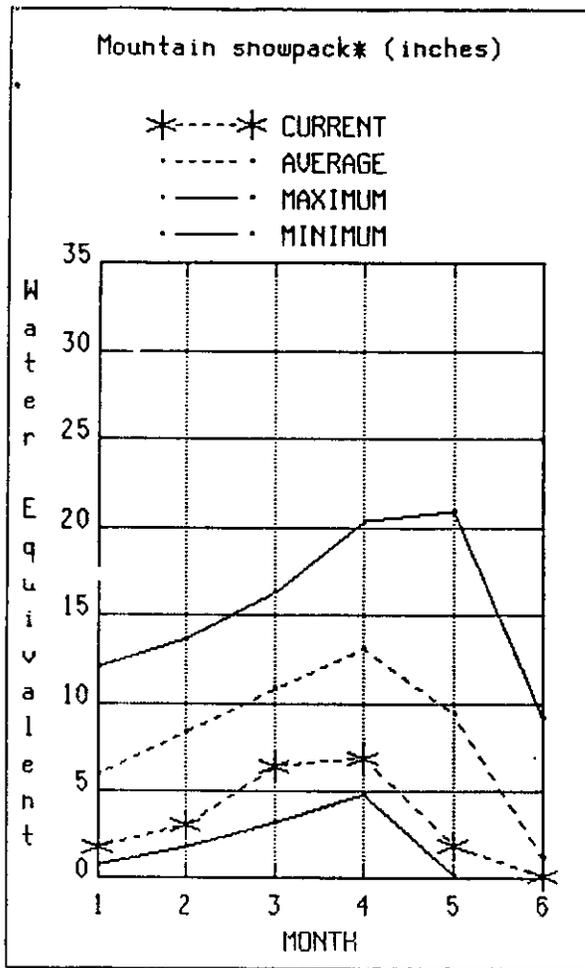


JUNE 1, 1990

UTAH LAKE,
 JORDAN RIVER &
 TOOELE VALLEY

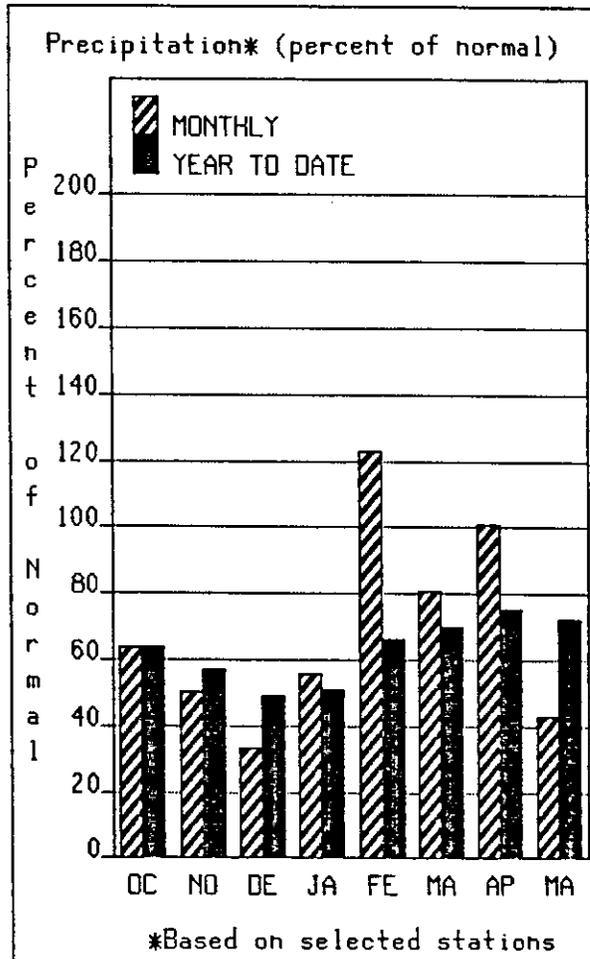
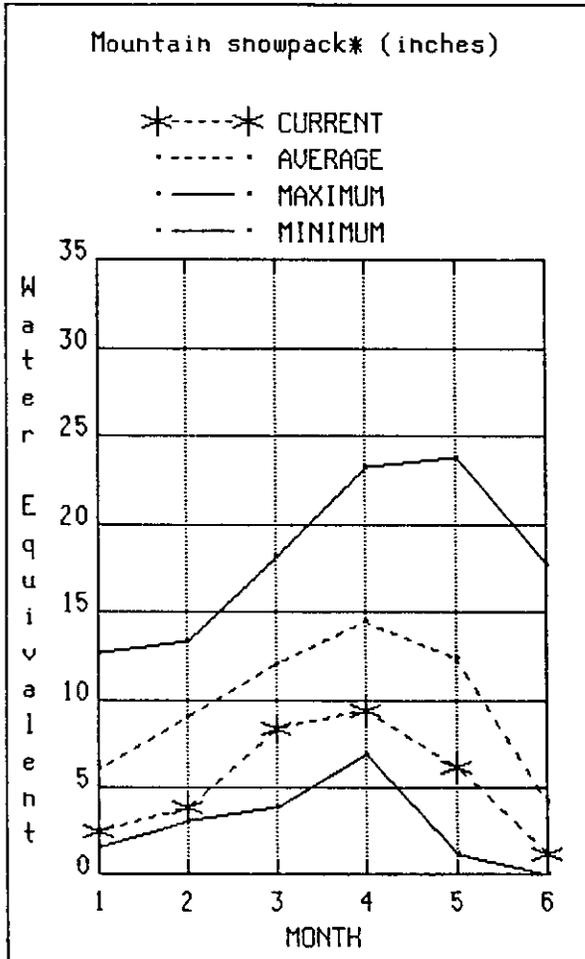


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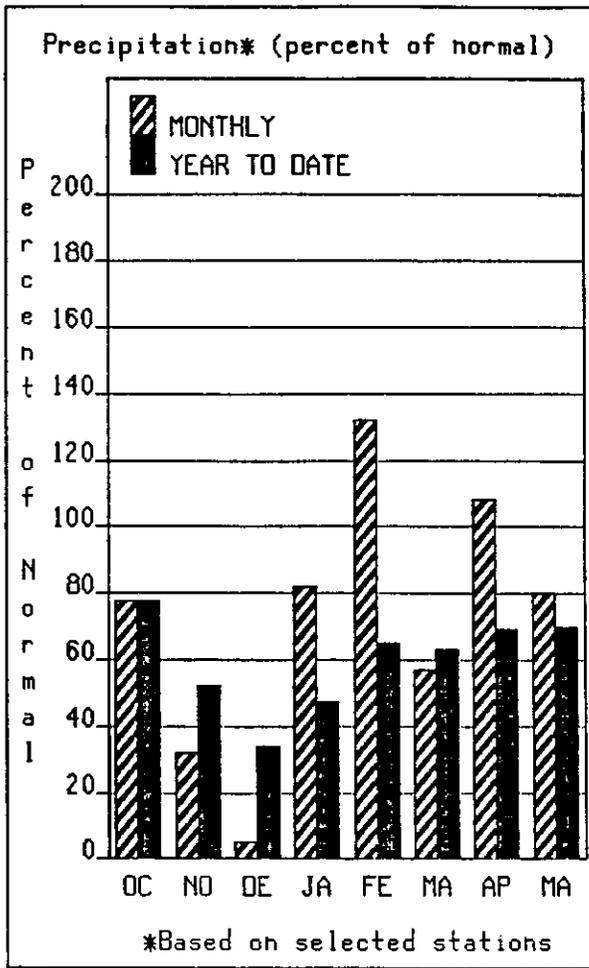
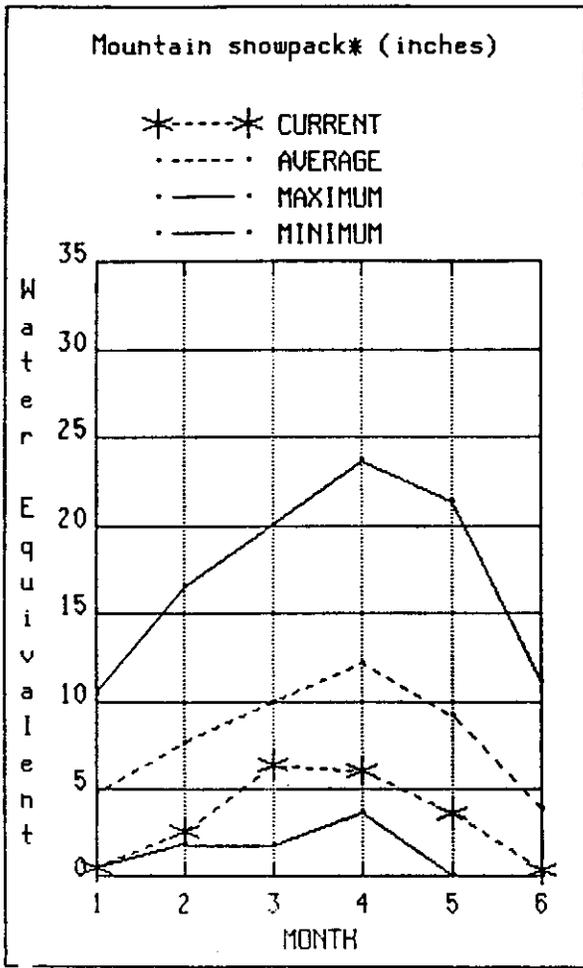


JUNE 1, 1990

**CARBON, EMERY,
 WAYNE, GRAND,
 & SAN JUAN CO.**

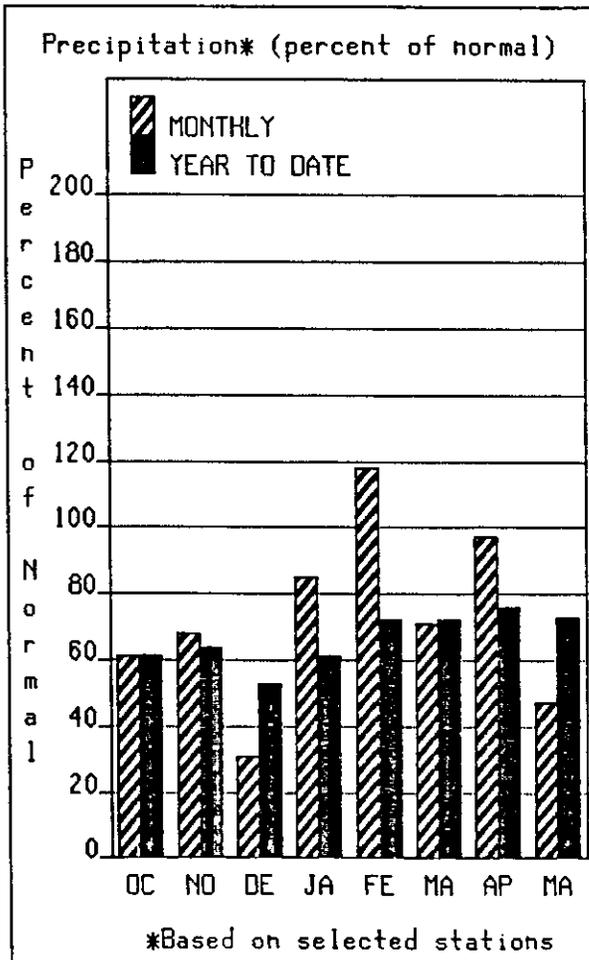
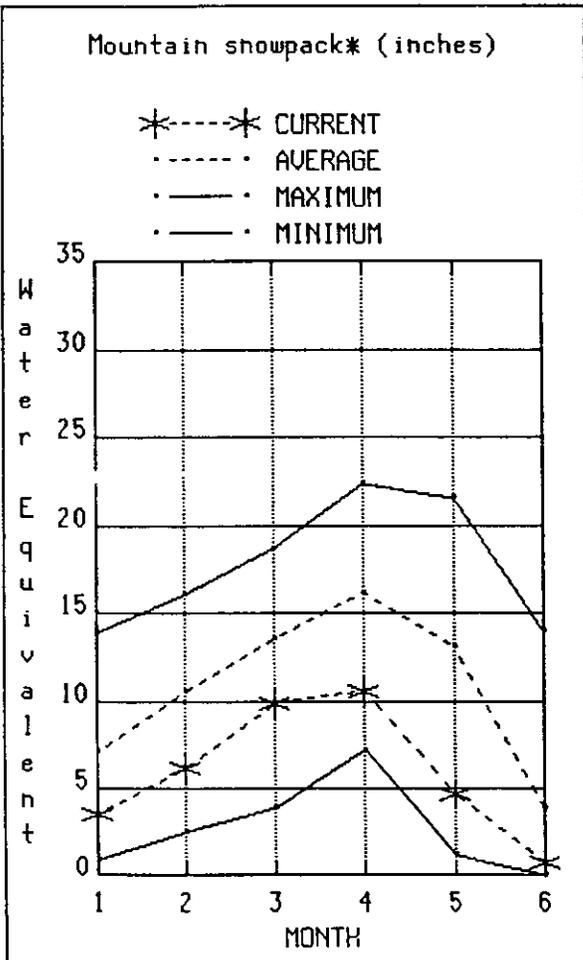


**SEVIER &
 BEAVER RIVER
 BASINS**



JUNE 1, 1990

E. GARFIELD,
KANE,
WASHINGTON &
IRON CO.



UTAH STATE
WIDE