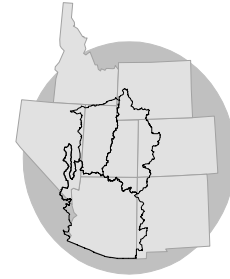


WATER SUPPLY OUTLOOK

for the LOWER COLORADO COLORADO BASIN RIVER FORECAST CENTER

NATIONAL WEATHER SERVICE, SALT LAKE CITY, UT

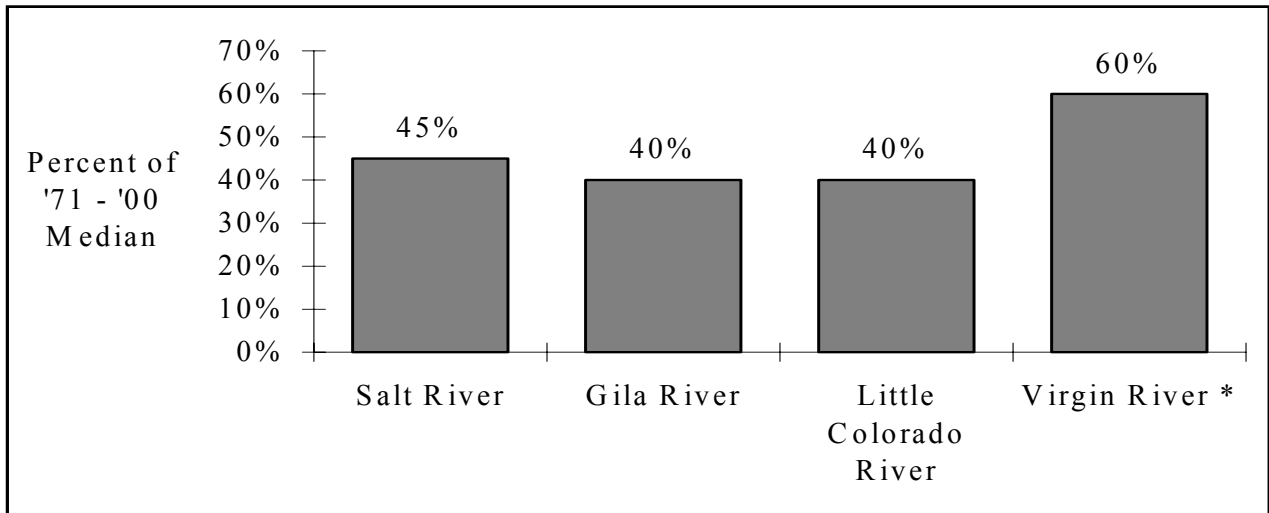


FEBRUARY 1, 2004

SUMMARY

In the north, forecasted stream flows have dropped to much below average for the Virgin and its tributary, the Santa Clara River. In Arizona where dry conditions continue, forecasted stream flows remain much below median.

FEBRUARY - MAY VOLUME FORECASTS



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Gila River	3
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* Virgin River Basin forecasts are for the April through July period and expressed in percent of average.

SALT RIVER

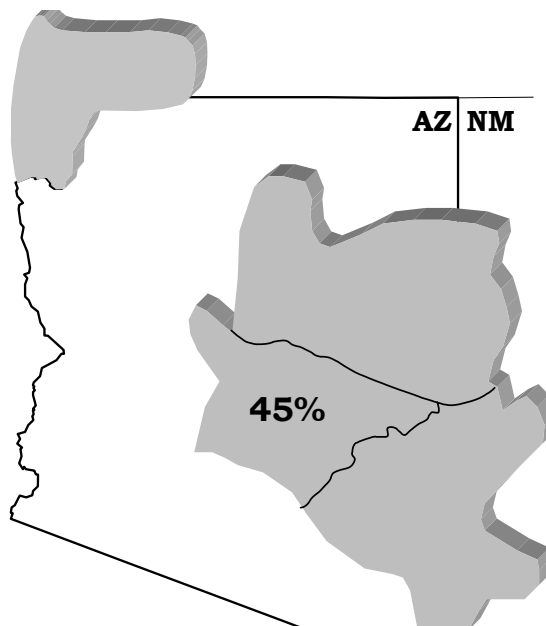
The 2004 Water Year is another dry year in Arizona. Above average temperatures and below average precipitation is expected to continue during February, March, and April. Therefore, forecasted stream flows remain much below median.

February-May stream flow forecasts for the Salt River are as follows:

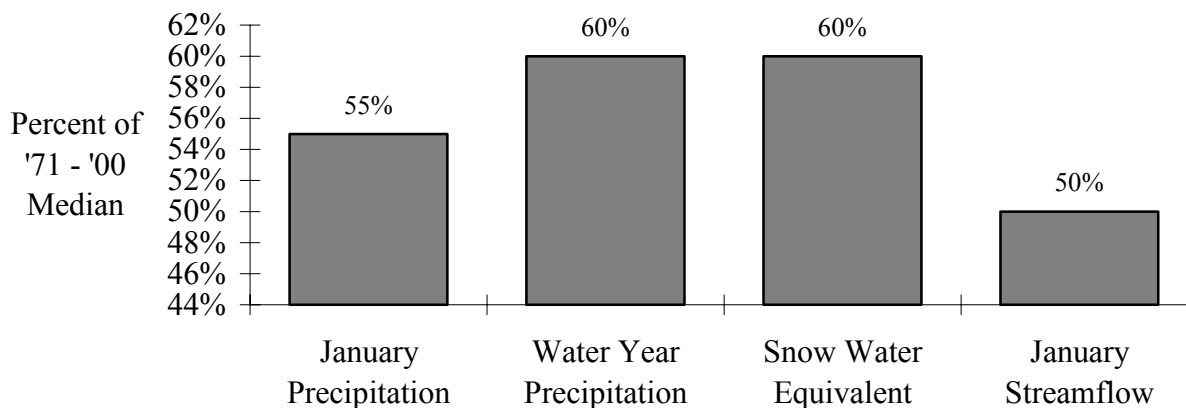
Verde River:
Much Below Median

Tonto Creek:
Much Below Median

Salt River:
Much Below Median



BASIN CONDITIONS - FEBRUARY 1, 2004



Specific site forecasts are listed on page 6.

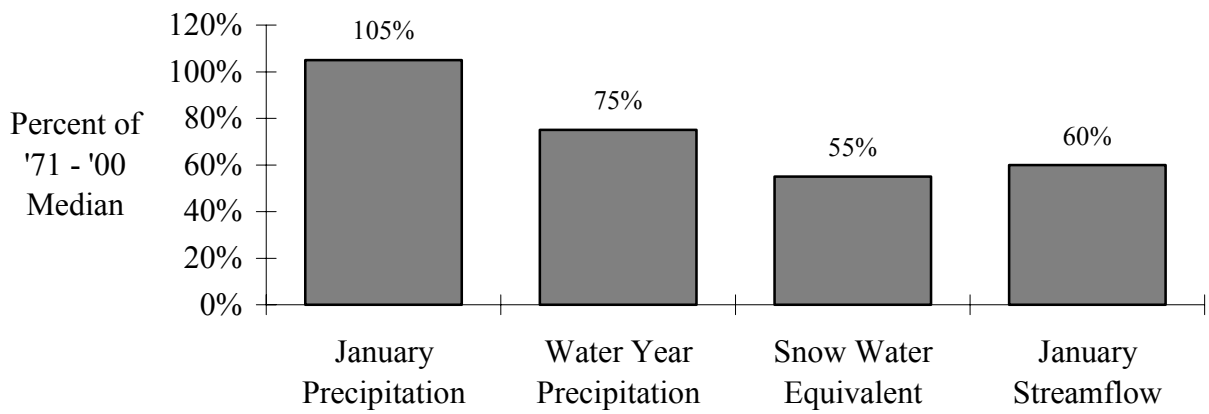
GILA RIVER The 2004 Water Year is another dry year in Arizona and western New Mexico.

Above average temperatures and below average precipitation is expected during February, March, And April. January's near normal rainfall caused very little change. Therefore, forecasted stream flows remain essentially the same at much below median.

February-May stream flow forecasts for the Gila River are as follows:



BASIN CONDITIONS - FEBRUARY 1, 2004



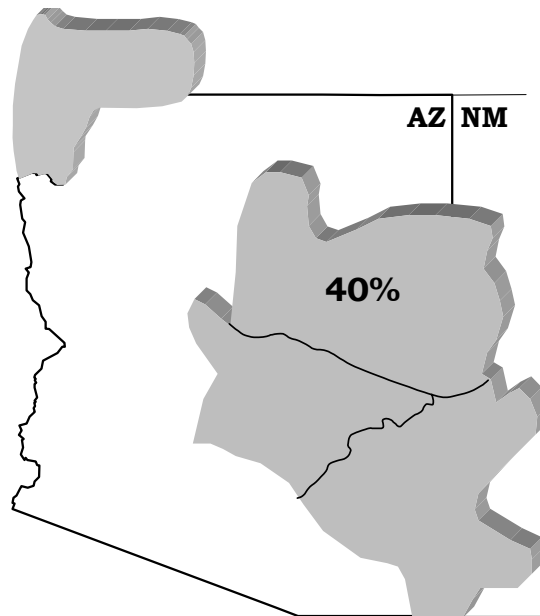
Specific site forecasts are listed on page 6.

LITTLE COLORADO RIVER

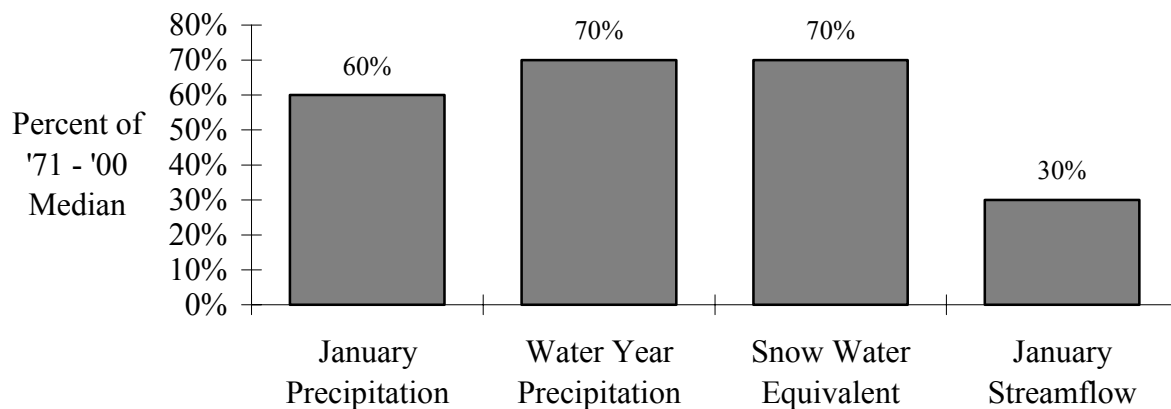
The 2004 Water Year is another dry year in Arizona. Above average temperatures and below average precipitation is expected during February, March, and April. Therefore, forecasted stream flows remain essentially the same at much below median.

February-May stream flow forecasts for the Little Colorado River are as follows:

Little Colorado River:
Much Below Median



BASIN CONDITIONS - FEBRUARY 1, 2004

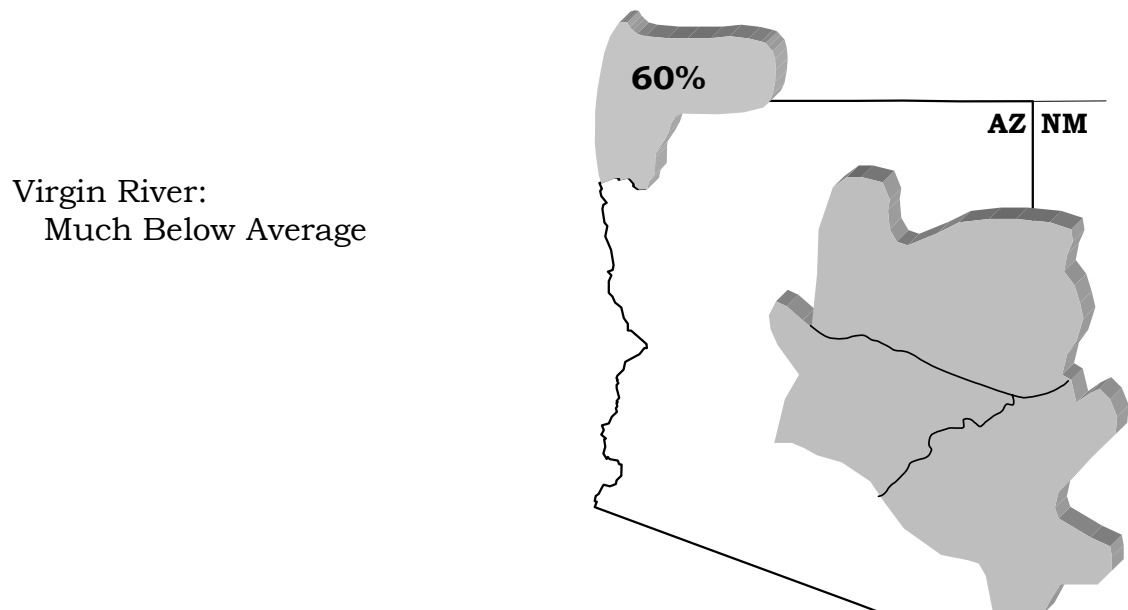


Specific site forecasts are listed on page 6.

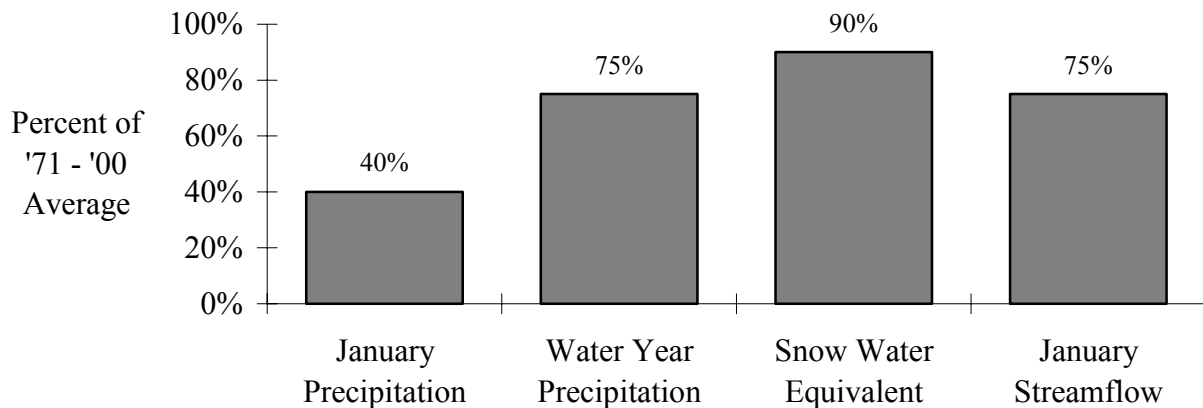
VIRGIN RIVER

Snow coverage is 90% of average for most of the Virgin River Basin. Above average temperatures and below average precipitation is expected during February, March, and April. Therefore, like last year, the snowmelt peak flow is expected to occur in March prior to the April-July forecast period.

April-July stream flow forecasts for the Virgin River are as follows:



BASIN CONDITIONS - FEBRUARY 1, 2004



Specific site forecasts are listed on page 6.

SPECIFIC SITE FORECASTS—WATER YEAR 2004

February through May volume (kaf) forecasts (except where noted).

Stream	Station	Most Probable	Percent Med.	Reas. Max	Reas. Min
LITTLE COLORADO	LYMAN LK, ABV, ST. JOHNS, NR	2.8	39	8.6	0.46
	WOODRUFF	1.09	39	3.4	0.17
RIO NUTRIA	RAMAH, NR	1.51	50	7.4	0.04
ZUNI	BLACK ROCK RES, ABV	0.67	49	1.49	0.23
CEBOLLA CK	RAMAH RES	0.67	40	5.1	0.08
EAST CLEAR CK	BLUE RIDGE RES, PINE, NR	6.7	41	16.2	1.3
CLEAR CK	WINSLOW, NR	13.9	41	67	3.1
CHEVELON CK	WINSLOW, NR, WILDCAT CYN, BLO	1.64	41	7.9	0.36
WALNUT CK	LAKE MARY	1.75	36	4.5	0.44
SANTA CLARA	PINE VALLEY, NR	3.4	62	7.7	0.84
VIRGIN	VIRGIN	40	62	66	20
	HURRICANE, NR	39	57	62	16.2
	LITTLEFIELD	35	47	57	12.9
GILA	GILA, NR	27	51	47	13.6
	VIRDEN, NR, BLUE CK, BLO	29	39	83	7.5
	SOLOMON, NR, HEAD OF SAFFORD V	57	40	194	14
	CALVA	31	36	112	5
	SAN CARLOS RES, COOLIDGE DAM,	30	36	134	6.7
SAN FRANCISCO	GLENWOOD, NR	10.8	45	19.9	5
	CLIFTON	28	47	84	4.9
SAN PEDRO	CHARLESTON	2.9	100	5.9	1.6
SALT	ROOSEVELT, NR	190	54	400	71
TONTO CK	ROOSEVELT, NR, GUN CK, ABV	15	30	63	0.9
VERDE	HORSESHOE DAM, ABV, TANGLE CK,	100	50	215	36
COLORADO	✕ LAKE POWELL, GLEN CYN DAM, AT	6500	82		

◆ = February-June forecast period.

✕ = April-July forecast period.

Special Notes:

Lake Powell, Virgin and Santa Clara River forecasts use a 30 year percent of average (1971-2000).

JANUARY 2004 END OF MONTH RESERVOIR CONTENTS

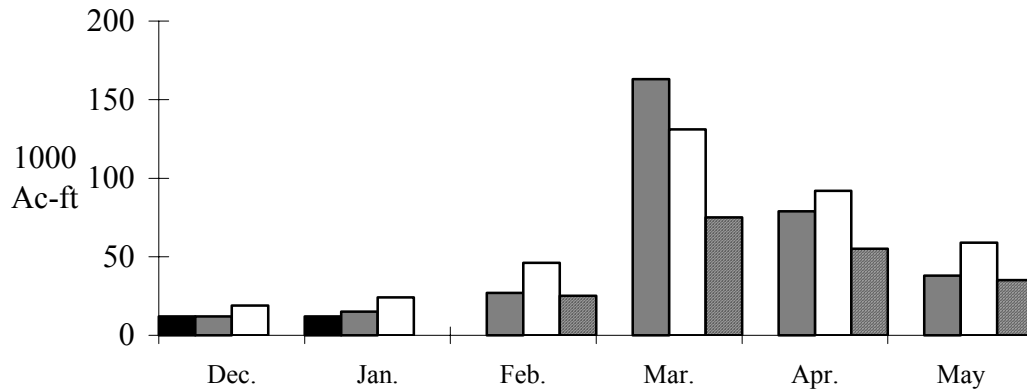
RESERVOIR (vol. in 1000 ac-ft)	Usable Capacity	EOM Usable Contents	Percent Usable Capacity (%)
Roosevelt	1653.0	502.0	30%
Horse Mesa	245.0	221.0	90%
Mormon Flat	58.0	55.0	95%
Stewart Mountain	70.0	65.0	93%
Horseshoe	109.2	19.0	17%
Bartlett	178.0	98.0	55%
Total SRP Reservoirs	2313.2	960.0	42%
San Carlos	867.0	27.0	3%
Waddell	1145.0	600.0	52%
Painted Rock	2476.0	0.0	0%
Alamo	1045.0	54.0	5%
Lyman	31.0	2.0	6%
Lake Powell	24322.0	10984.0	45%
Mead	27380.0	15438.0	56%
Mohave	1810.0	1627.0	90%
Havasu	619.0	514.0	83%

NA = Not Available.

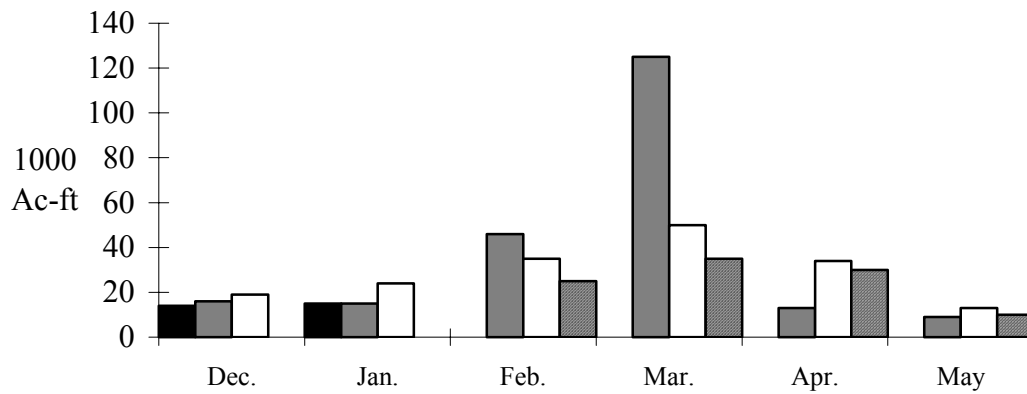
MONTHLY STREAMFLOWS



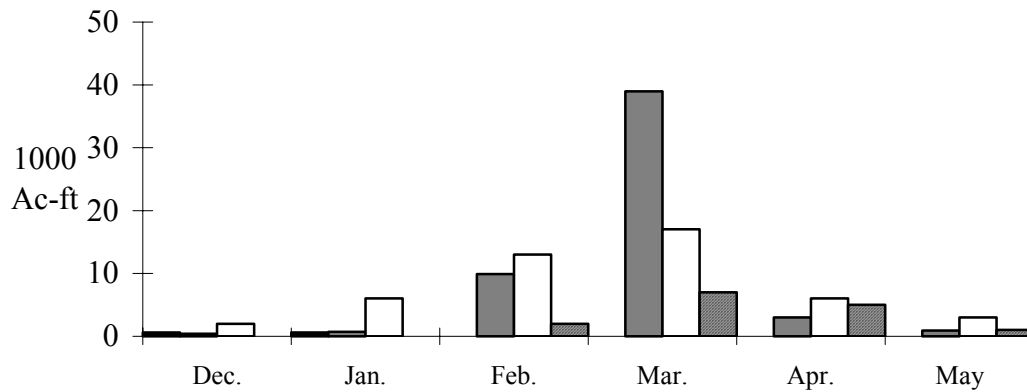
Salt - Roosevelt:



Verde - Horseshoe Dam, abv, Tangle Ck, blo:

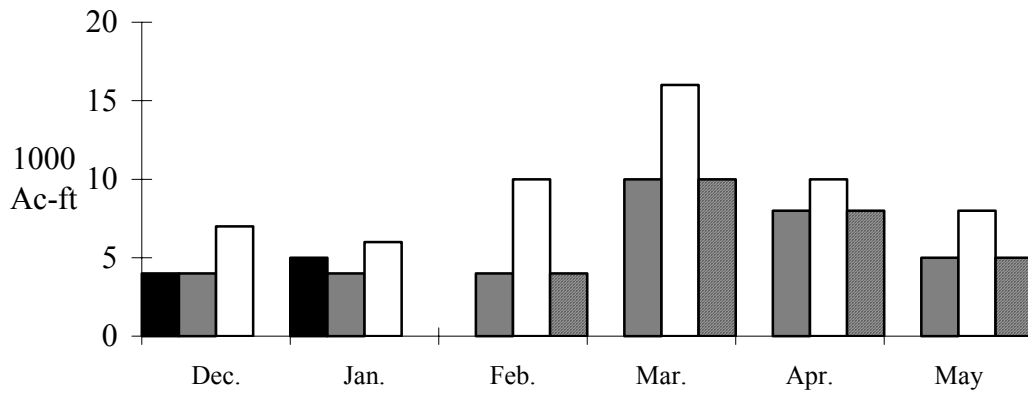


Tonto Ck - Roosevelt, nr, Gun Ck, abv:

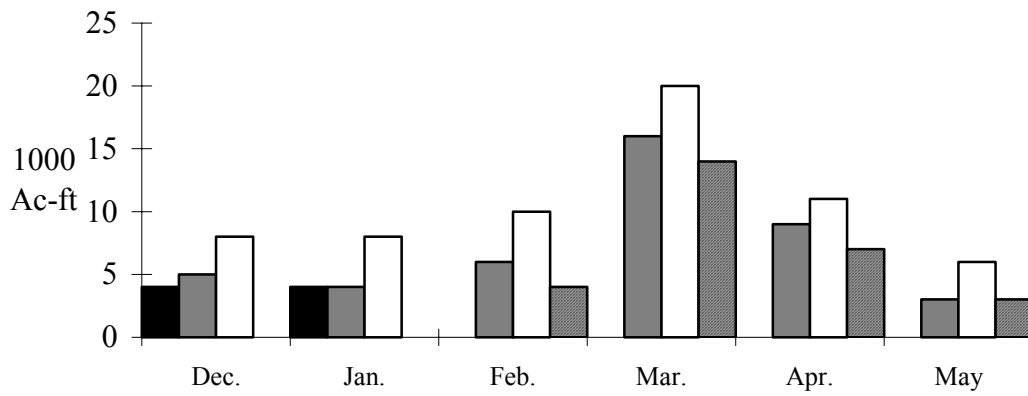




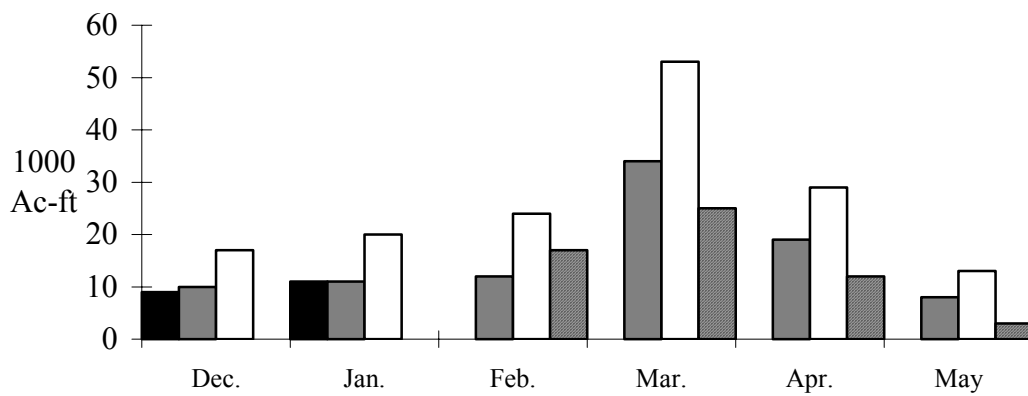
Gila - Gila, nr:



San Francisco - Clifton:



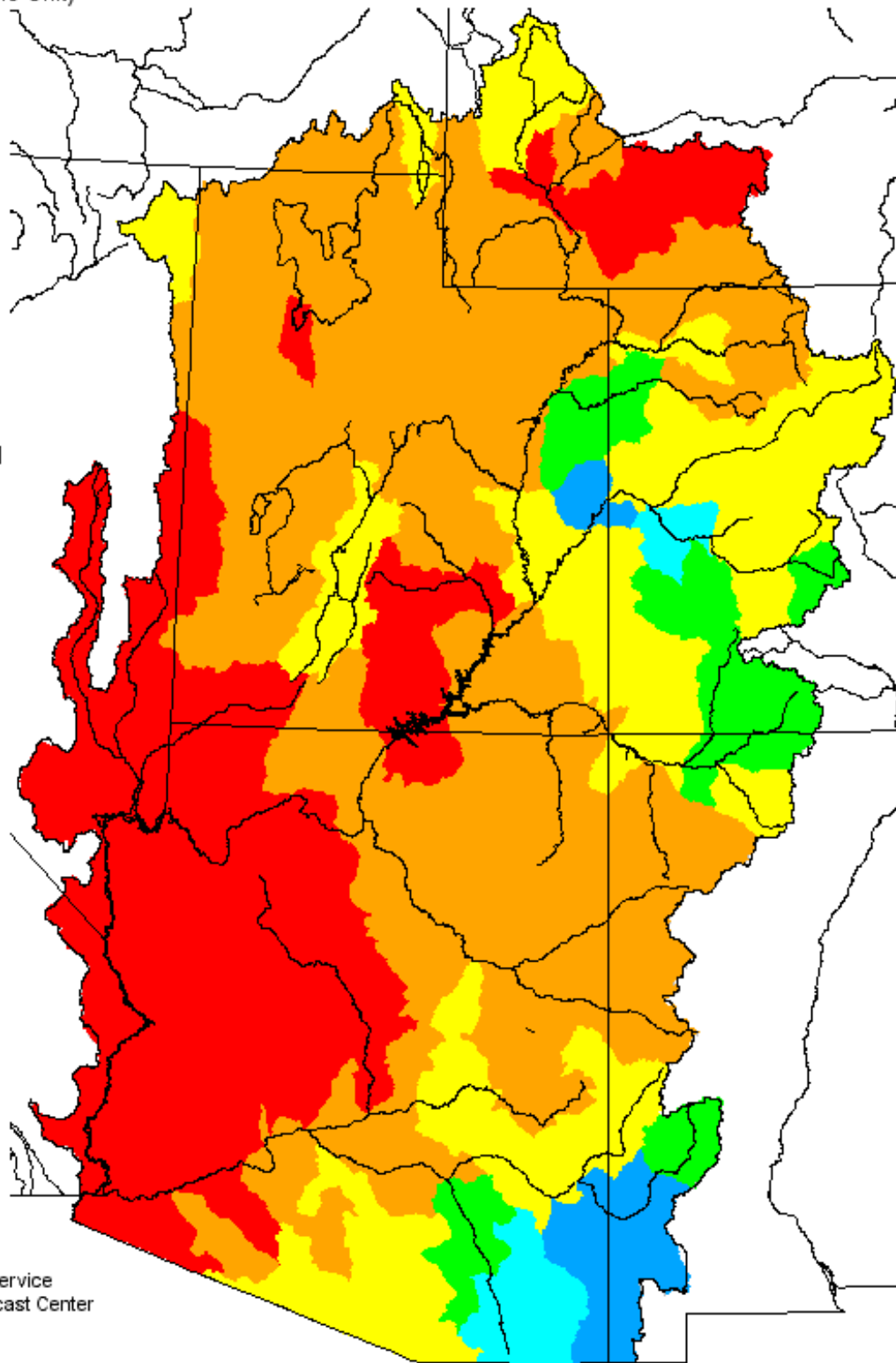
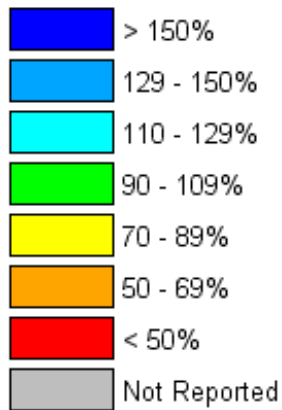
Gila - Solomon:



Monthly Precipitation for January 2004

(Averaged by Hydrologic Unit)

% Average

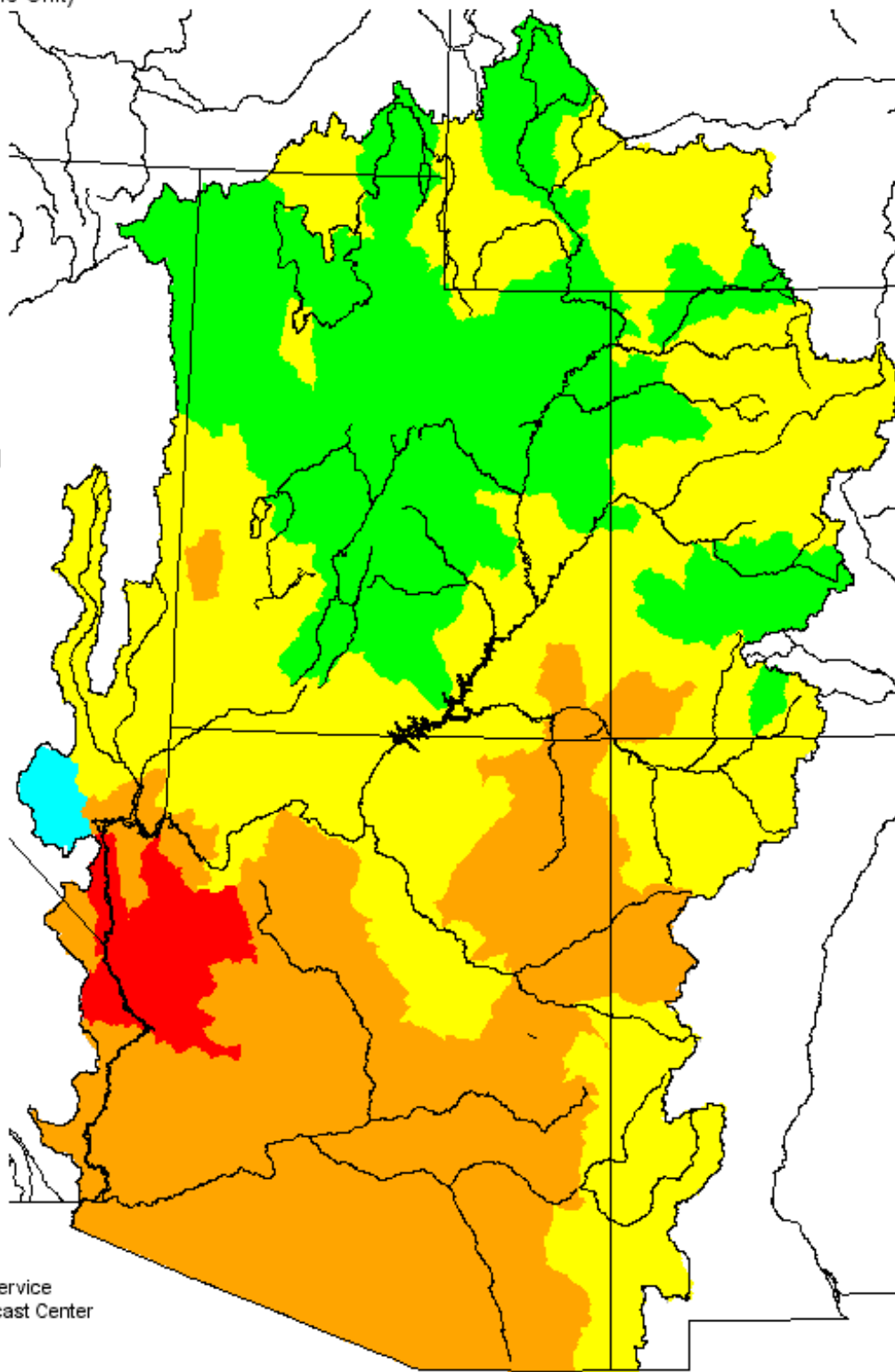
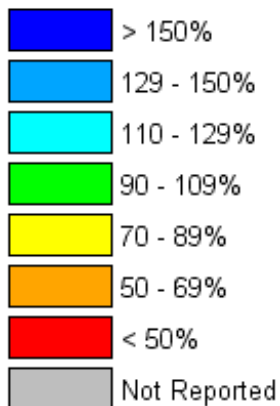


Prepared by
NOAA, National Weather Service
Colorado Basin River Forecast Center
Salt Lake City, Utah
www.cbrfc.noaa.gov

Seasonal Precipitation, October 2003 - January 2004

(Averaged by Hydrologic Unit)

% Average



Prepared by
NOAA, National Weather Service
Colorado Basin River Forecast Center
Salt Lake City, Utah
www.cbrfc.noaa.gov

ADDITIONAL INFORMATION

Water supply forecasts take into consideration present hydrometeorological conditions and use average basin temperatures and precipitation for the forecast period. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty becomes known and monthly forecasts become more accurate.

Volume forecasts represent adjusted flows; that is, observed flows with upstream water use taken into account. Adjusted flows will closely approximate natural or unimpaired flows. However, not all upstream diversions or impoundments are measured or quantifiable. For specific adjustments used with each forecast point, consult the Guide to Water Supply Forecasting.

The Water Supply Outlook is issued monthly January through April by the Colorado Basin River Forecast Center, National Weather Service. It represents a coordinated effort between the National Weather Service, Natural Resources Conservation Service, Bureau of Reclamation, Salt River Project, U.S. Geological Survey and local water district managers.

DEFINITIONS:

Acre-Foot:

The volume equal to one acre covered one foot deep (43,560 cubic feet).

Average:

The arithmetic mean. The sum of the values divided by the number of values.

Categories:

Much above Median	Above Median	Near Median	Below Median	Much below Median
Greater than 130%	111-130%	90-110%	70-89%	Less than 70%

Forecast Period:

Variable. Current month through May 31.

Median:

The middle value. One half of the observed values are higher and half of the values are lower than this.

Most Probable Forecast:

Given the current hydrometeorological conditions to date, this is the best estimate of what the runoff volume will be this season.

Reasonable Maximum Forecast:

Given the current hydrometeorological conditions, the seasonal runoff that has a ten percent (10%) chance of being exceeded.

Reasonable Minimum Forecast:

Given the current hydrometeorological conditions, the seasonal runoff that has a ninety percent (90%) chance of being exceeded.

Water Year:

The period from October 1 through September 30.

NOTE: Data used in this report are provisional and are subject to revision.

For more information, or to be included on the mailing list, please contact:
Colorado Basin River Forecast Center, National Weather Service

2242 W. North Temple · Salt Lake City, UT 84116 · (801) 524-5130 · <http://www.cbrfc.gov>