



Natural
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Arizona

Basin Outlook Report

January 15, 2007



ARIZONA Water Supply Outlook Report as of January 15, 2007

A full range of Snow Survey and Water Supply Forecasting products is available on the Arizona NRCS Home Page:

Snow Survey Program

<http://www.az.nrcs.usda.gov/snow/index.html>

Helpful Internet Sites

Defending Against Drought – NRCS

<http://www.nrcs.usda.gov/feature/highlights/drought.html>

- Ideas on water, land, and crop management for you to consider while creating your drought plan.

Arizona Agri-Weekly

http://www.nass.usda.gov/Statistics_by_State/Arizona/Publications/Crop_Progress_&_Condition/cur-agwk.pdf

- Provides an overview of Arizona's crop, livestock, range and pasture conditions as reported by local staffs of the USDA's Agricultural Statistic Service and University of Arizona, College of Agriculture.

SUMMARY

Snowpack levels have shown little improvement since the last report issued on January 1. In that regard, the outlook for surface water supplies in Arizona continues to be poor, with seasonal runoff forecasts ranging from 47 to 67 percent of median for streams monitored in this report. The only bright note is that a fair amount of water storage remains in most major reservoirs within Arizona as the result of carryover from the previous year.

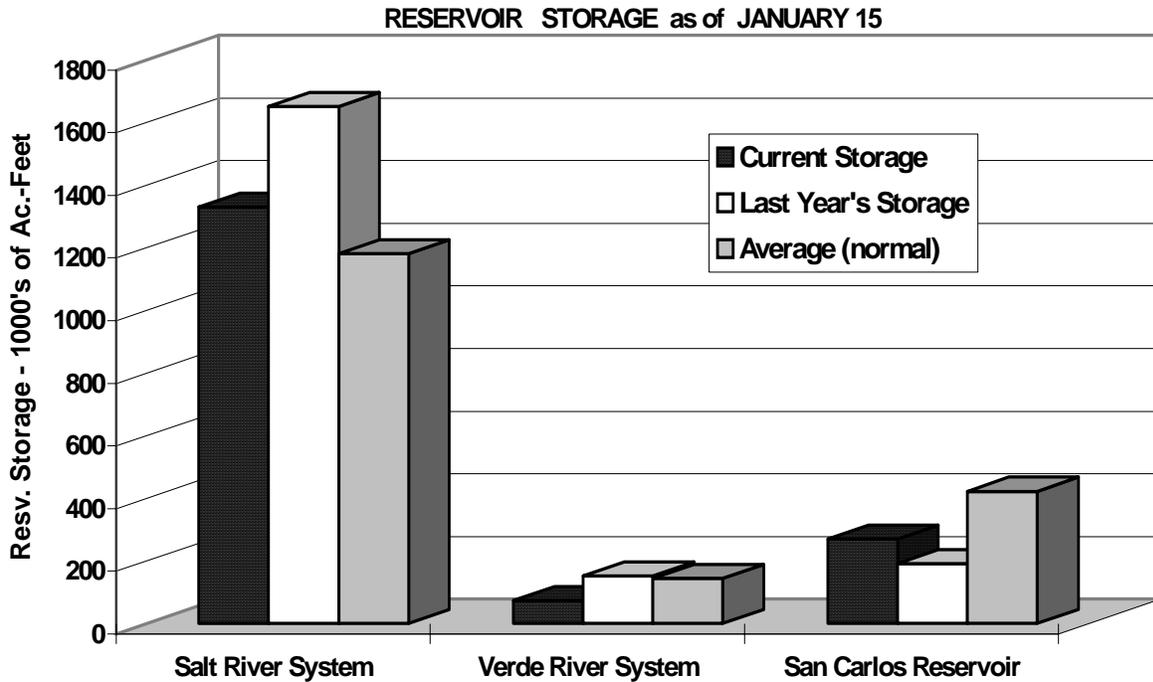
SNOWPACK

Watershed	Percent (%) of 30-Yr. Average Snowpack Levels as of Jan. 15
Salt River Basin	41%
Verde River Basin	43%
Little Colorado River Basin	39%
San Francisco-Upper Gila River Basin	49%
Other Points of Interest	
Chuska Mountains	50%
Central Mogollon Rim	47%
Grand Canyon	35%
San Francisco Peaks	48%
Statewide Snowpack	44%

PRECIPITATION

Well below average precipitation catch was recorded at all NRCS SNOTEL sites for the period January 1-15. In that regard, precipitation totals for the month of January will be illustrated in the next report.

RESERVOIR

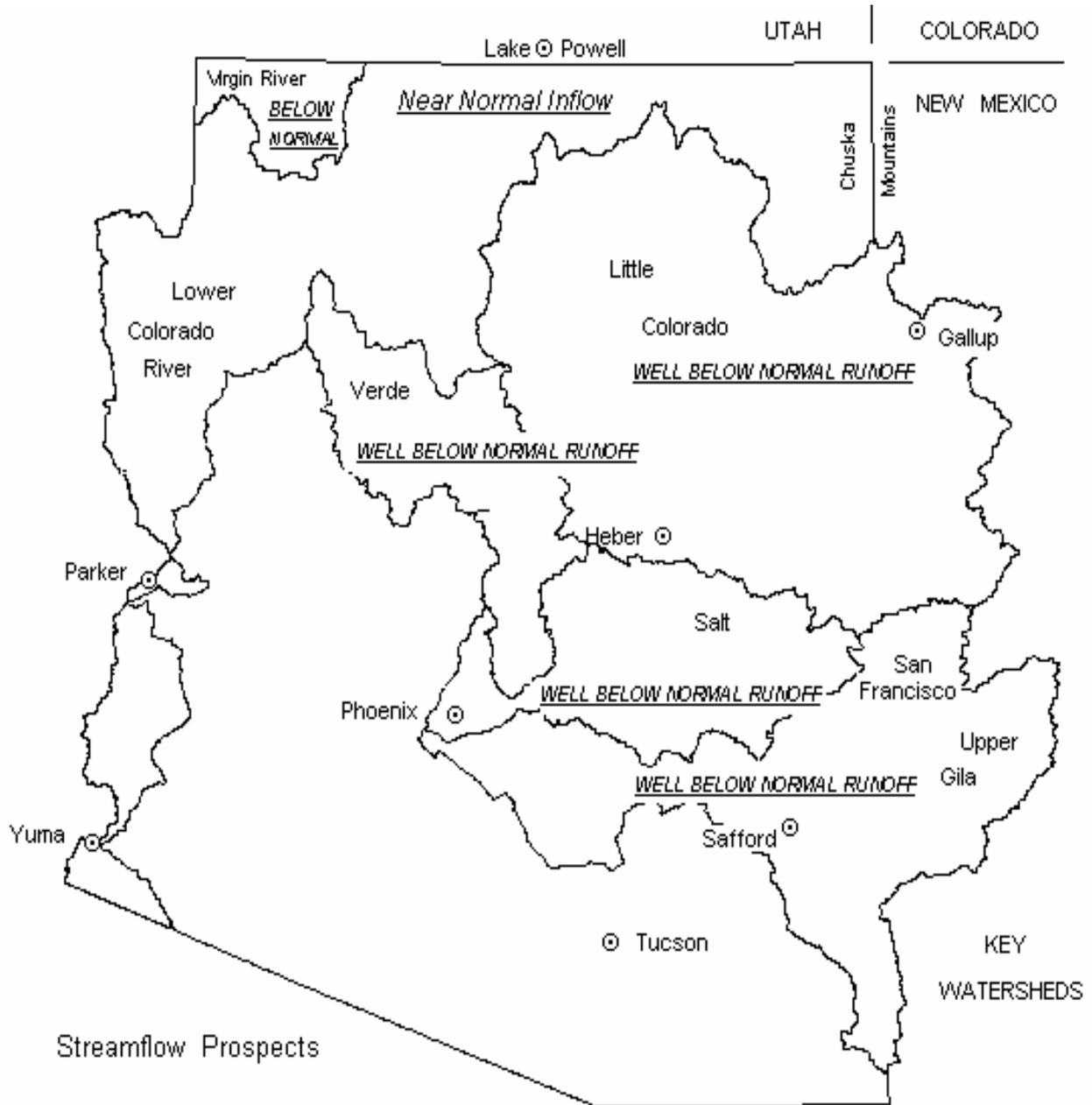


Key storage volumes displayed in thousands of acre-feet (1000 x):

RESERVOIR	CURRENT STORAGE	LAST YEAR STORAGE	30-YEAR AVERAGE
Salt River System	1330.6	1650.3	1181.3
Verde River System	73.8	152.6	143.5
San Carlos Reservoir	269.8	189.9	421.8
Lyman Lake	7.4	8.0	14.3
Show Low Lake	---	5.1	2.6
Lake Pleasant	657.2	650.6	---
Lake Havasu	565.4	573.4	557.4
Lake Mohave	1644.7	1652.5	1657.0
Lake Mead	14230.0	15273.0	21868.0
Lake Powell	11914.0	11415.0	18748.0

STREAMFLOW

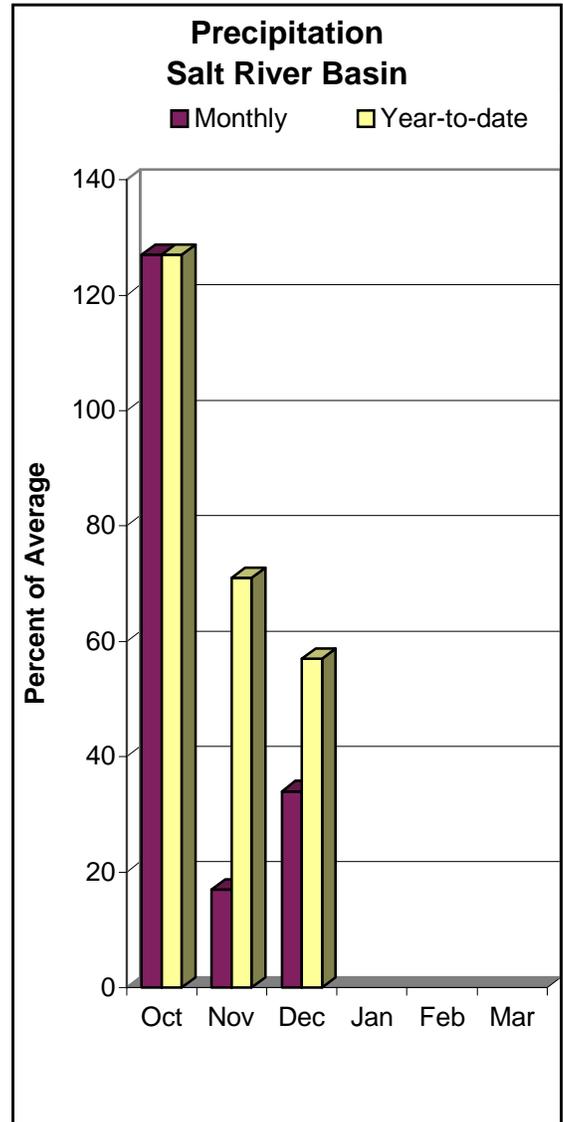
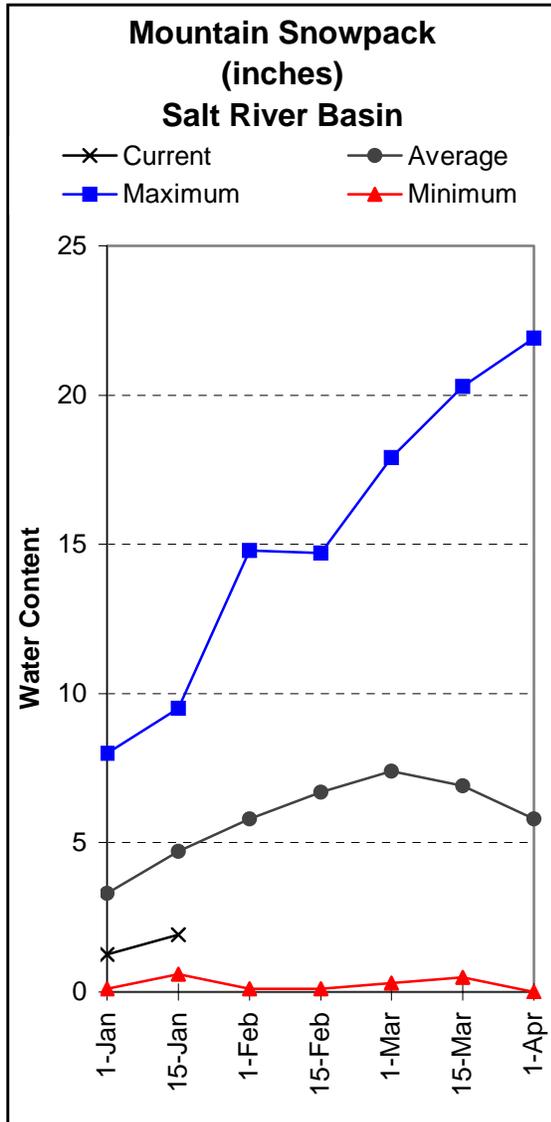
As the result of poor snowpack conditions so far this winter, well below median streamflow volumes are forecast for those streams monitored in the report. Please refer to the river basin forecast tables in the report for more information regarding this year's predicted surface water supplies.



SALT RIVER BASIN as of January 15, 2007

Well below median streamflow volumes are forecast for the basin. In the Salt River, near Roosevelt, the forecast calls for 47 % of median streamflow levels through May, while in Tonto Creek, the forecast calls for 40 % of median streamflow levels through May.

Additionally, snow survey measurements show the Salt snowpack to be 41 % of the 30-year average, while combined reservoir storage for the Salt River system was reported at 1,330,645 acre-feet.



SALT RIVER BASIN
Streamflow Forecasts - January 15, 2007

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===>						30 Yr Med (1000AF)
	Chance of Exceeding *						
	90% (1000AF)	70% (1000AF)	50% (1000AF) (% MED.)	30% (1000AF)	10% (1000AF)		
Salt River nr Roosevelt							
JAN15-MAY	48	111	175	47	260	431	370
JANUARY	9.8	11.0	12.0	49	27	60	25
Tonto Creek ab Gun Creek nr Roosevelt							
JAN15-MAY	5.5	13.8	22	40	44	96	55
JANUARY	0.59	0.77	1.00	17	5.38	18.14	5.90

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average and median are computed for the 1971-2000 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 volume - actual volume may be affected by upstream water management.

SALT RIVER BASIN
Reservoir Storage (1000AF) Mid-January

Reservoir	Usable Capacity	***** This Year	Usable Storage Last Year	***** Average
SALT RIVER RES SYSTEM	2025.8	1330.6	1650.3	1181.3

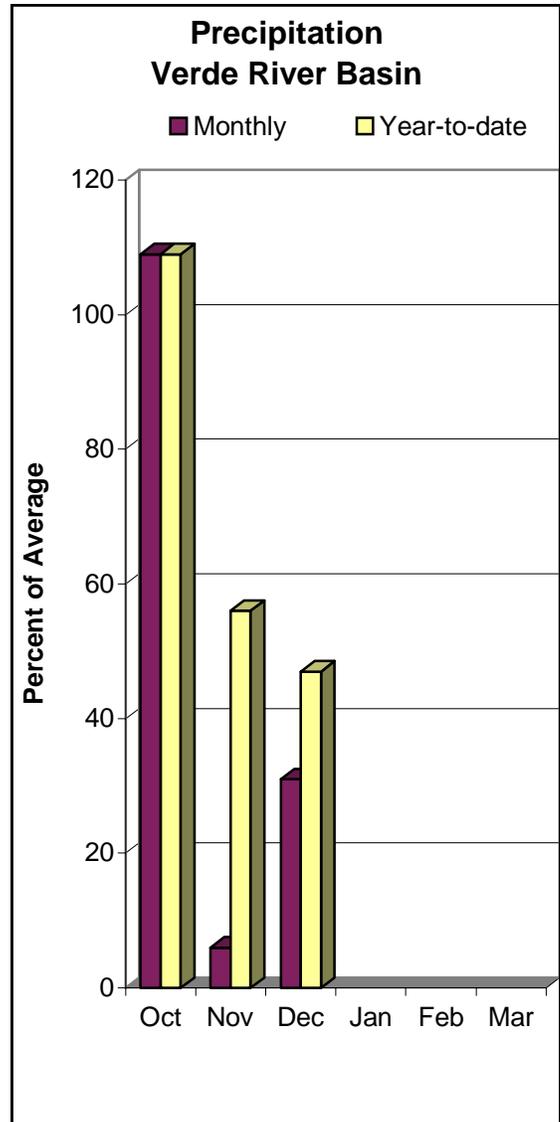
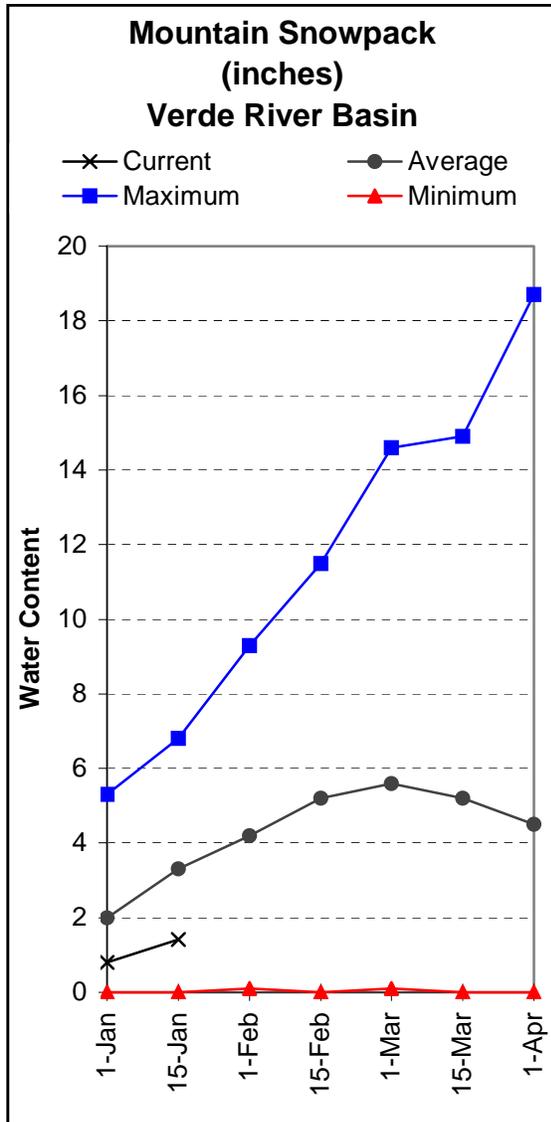
SALT RIVER BASIN
Watershed Snowpack Analysis - January 15, 2007

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
SALT RIVER BASIN	8	0	41

VERDE RIVER BASIN as of January 15, 2007

Well below median streamflow volumes are forecast for the basin. In the Verde River, at Horseshoe Dam, the forecast calls for 67 % of median streamflow levels through May.

Additionally, snow survey measurements show the Verde snowpack to be 43 % of the 30-year average, while combined reservoir storage for the Verde River system was reported at 73,780 acre-feet.



VERDE RIVER BASIN
Streamflow Forecasts - January 15, 2007

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===>						30 Yr Med (1000AF)
	Chance of Exceeding * 90% 70% 50% 30% 10%						
	(1000AF)	(1000AF)	(1000AF)	(% MED.)	(1000AF)	(1000AF)	(1000AF)
Verde River abv Horseshoe Dam							
JAN15-MAY	42	87	140	67	211	353	210
JANUARY	13.9	15.1	17.0	71	30	59	24

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VERDE RIVER BASIN
Reservoir Storage (1000AF) Mid-January

Reservoir	Usable Capacity	***** This Year	***** Usable Storage Last Year	***** Average
VERDE RIVER RES SYSTEM	287.4	73.8	152.6	143.5

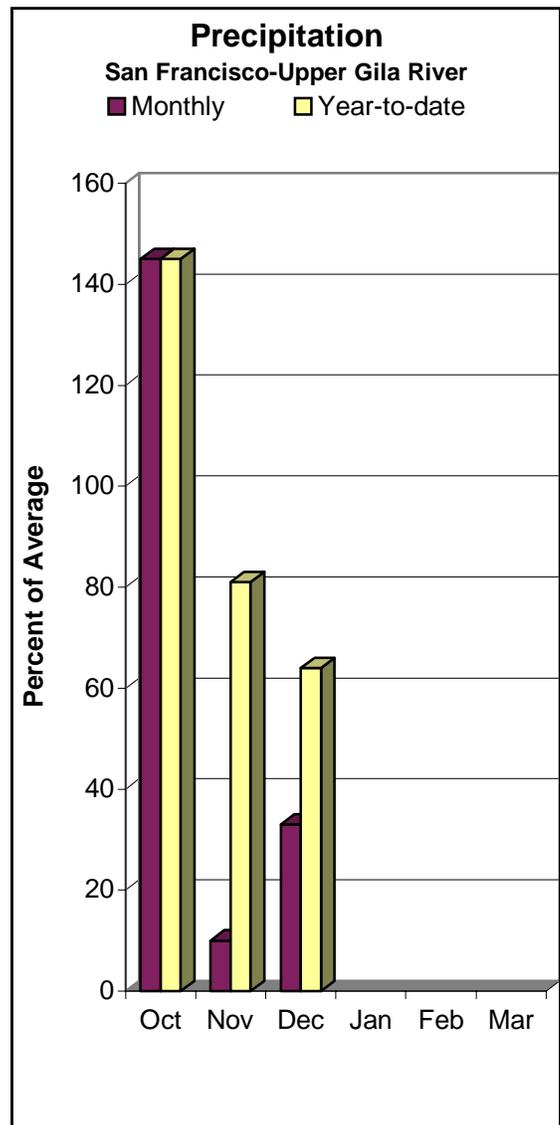
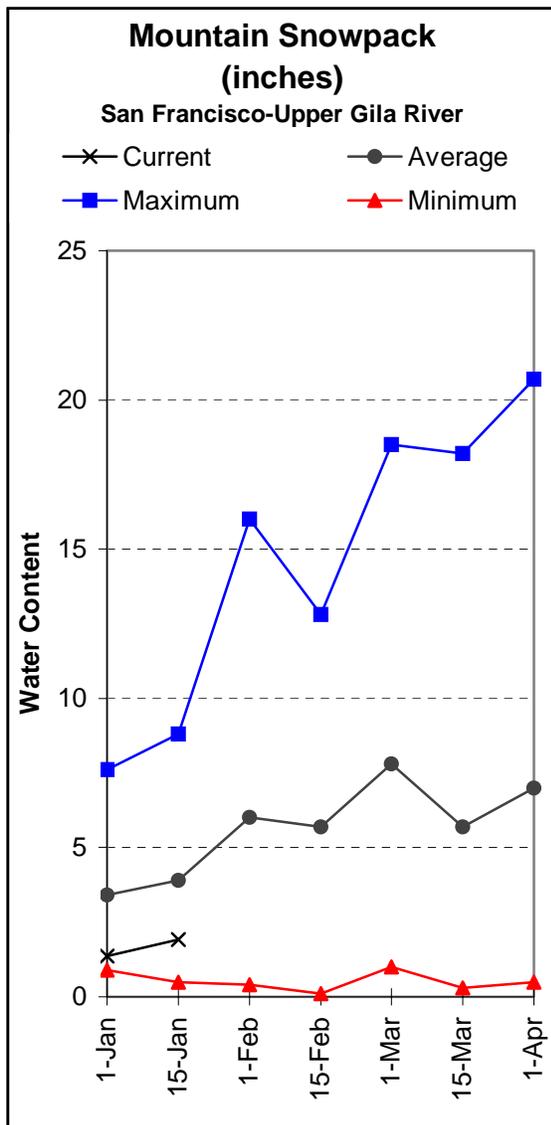
VERDE RIVER BASIN
Watershed Snowpack Analysis - January 15, 2007

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
VERDE RIVER BASIN	10	0	43
SAN FRANCISCO PEAKS	3	473	48

SAN FRANCISCO-UPPER GILA RIVER BASIN as of January 15, 2007

Well below median streamflow volumes are forecast for the basin. In the San Francisco River, at Clifton, the forecast calls for 50 % of median streamflow levels through May, while in the Gila River, near Solomon, the forecast calls for 45 % of median streamflow levels through May. At San Carlos Reservoir, inflow to the lake is forecast at 44 % of median through May.

At San Carlos, reservoir storage was reported at 269,800 acre-feet, while snow survey measurements show basin snowpack levels to be 49 % of the 30-year average.



SAN FRANCISCO - UPPER GILA RIVER BASIN
Streamflow Forecasts - January 15, 2007

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===>						30 Yr Med (1000AF)
	Chance of Exceeding *						
	90% (1000AF)	70% (1000AF)	50% (1000AF) (% MED.)	30% (1000AF)	10% (1000AF)		
Gila River at Gila							
JAN15-MAY	14.6	23	31	56	40	57	55
Gila River nr Virden							
JAN15-MAY	12.8	22	36	45	79	116	80
San Francisco River at Glenwood							
JAN15-MAY	6.2	9.9	13.0	50	26	39	26
San Francisco River at Clifton							
JAN15-MAY	11.2	22	33	50	57	100	66
Gila River nr Solomon							
JAN15-MAY	27	44	71	45	131	220	158
JANUARY			14.0	71			19.7
San Carlos Reservoir inflow							
JAN15-MAY	9.0	23	40	44	82	129	90

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SAN FRANCISCO - UPPER GILA RIVER BASIN
Reservoir Storage (1000AF) Mid-January

Reservoir	Usable Capacity	***** This Year	Usable Storage Last Year	***** Average
SAN CARLOS	875.0	269.8	189.9	421.8

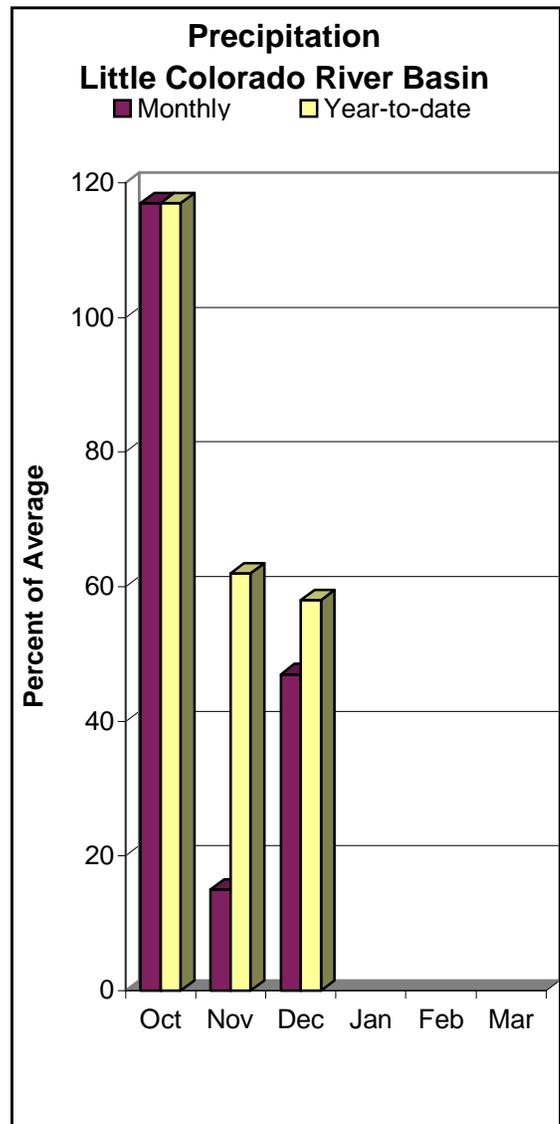
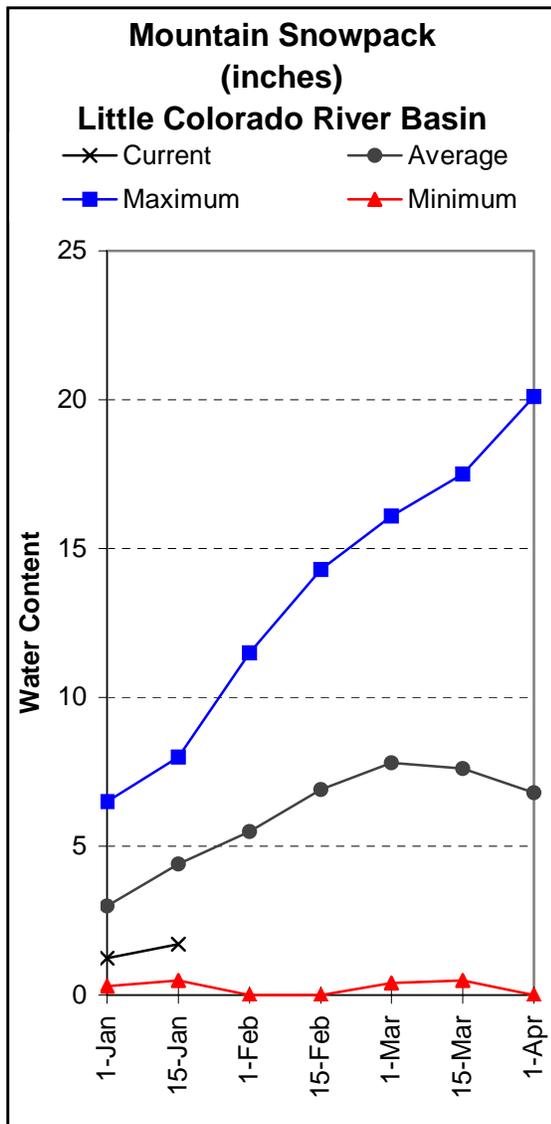
SAN FRANCISCO - UPPER GILA RIVER BASIN
Watershed Snowpack Analysis - January 15, 2007

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
SAN FRANCISCO - UPPER GILA R	9	0	49

LITTLE COLORADO RIVER BASIN as of January 15, 2007

Well below median streamflow volumes are forecast for the basin. In the Little Colorado River, at Lyman Lake, the forecast calls for 58 % of median streamflow levels through June.

Additionally, snowpacks along the southern headwaters of the Little Colorado River, and along the central Mogollon Rim, were measured at 39% and 47 % of average, respectively.



LITTLE COLORADO RIVER BASIN
Streamflow Forecasts - January 15, 2007

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===>						30 Yr Med (1000AF)
	Chance of Exceeding *						
	90% (1000AF)	70% (1000AF)	50% (1000AF) (% MED.)	30% (1000AF)	10% (1000AF)		
Little Colorado River abv Lyman Lake							
JAN-JUN	1.04	2.60	4.30	58	6.60	11.39	7.40
Little Colorado River at Woodruff							
JAN-MAY	0.54	1.08	2.20	61	4.40	7.60	3.60
Blue Ridge Reservoir inflow							
JAN-MAY	1.9	5.5	9.0	53	13.4	21	17.1
Lake Mary inflow							
JAN-MAY	0.40	1.40	3.00	60	5.50	11.00	5.00

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LITTLE COLORADO RIVER BASIN
Reservoir Storage (1000AF) Mid-January

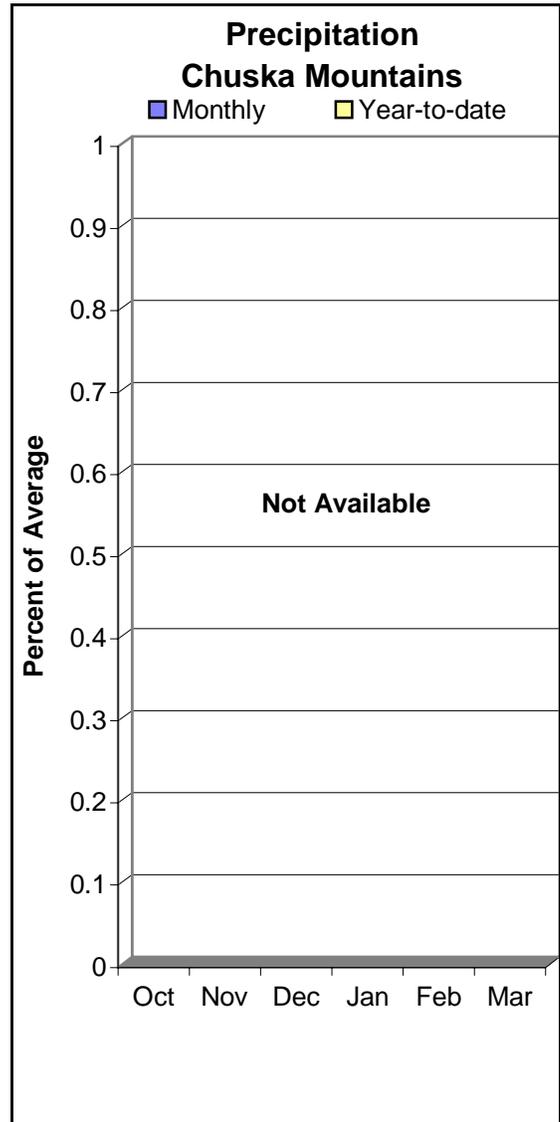
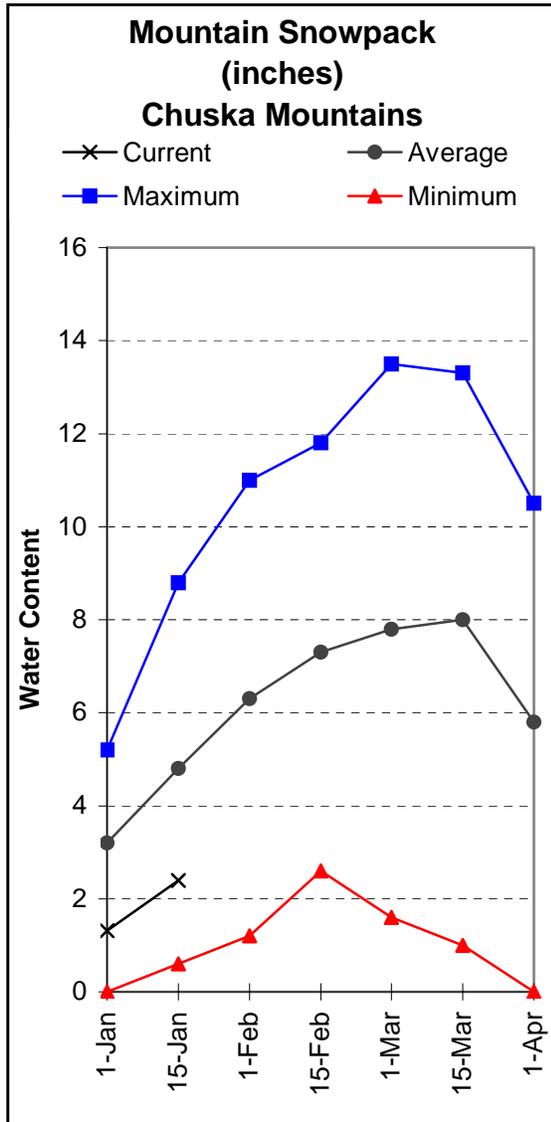
Reservoir	Usable Capacity	***** This Year	Usable Storage Last Year	***** Average
LYMAN RESERVOIR	30.0	7.4	8.0	14.3
SHOW LOW LAKE	DISCONTINUED			

LITTLE COLORADO RIVER BASIN
Watershed Snowpack Analysis - January 15, 2007

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
LITTLE COLORADO - SOUTHERN H	9	0	39
CENTRAL MOGOLLON RIM	4	0	47

CHUSKA MOUNTAINS and DEFIANCE PLATEAU as of January 15, 2007

Navajo Nation snowpack levels in the Chuska Mountains and the Defiance Plateau were monitored at 50 % and 37 % of average, respectively. As a result of poor snowpack conditions this winter, well below average streamflow levels are forecast for Captain Tom Wash, Wheatfields Creek, Bowl Canyon Creek, and Kinlechee Creek through springtime.



CHUSKA MOUNTAINS and DEFIANCE PLATEAU
Streamflow Forecasts - January 15, 2007

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===>						30 Yr Avg (1000AF)
	Chance of Exceeding *						
	90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)	30% (1000AF)	10% (1000AF)		
=====							
Captain Tom Wash Nr Two Gray Hills							
MAR-MAY	0.07	0.27	0.80	28	1.79	4.35	2.83
Wheatfields Creek Nr Wheatfields							
MAR-MAY	0.33	0.62	0.90	31	1.25	1.91	2.90
Bowl Canyon Creek Abv Asaayi Lake							
MAR-MAY	0.16	0.37	0.60	60	0.90	1.51	1.00
Kinlichee Creek							
MAR-MAY	0.04	0.17	0.35	21	0.63	1.26	1.70

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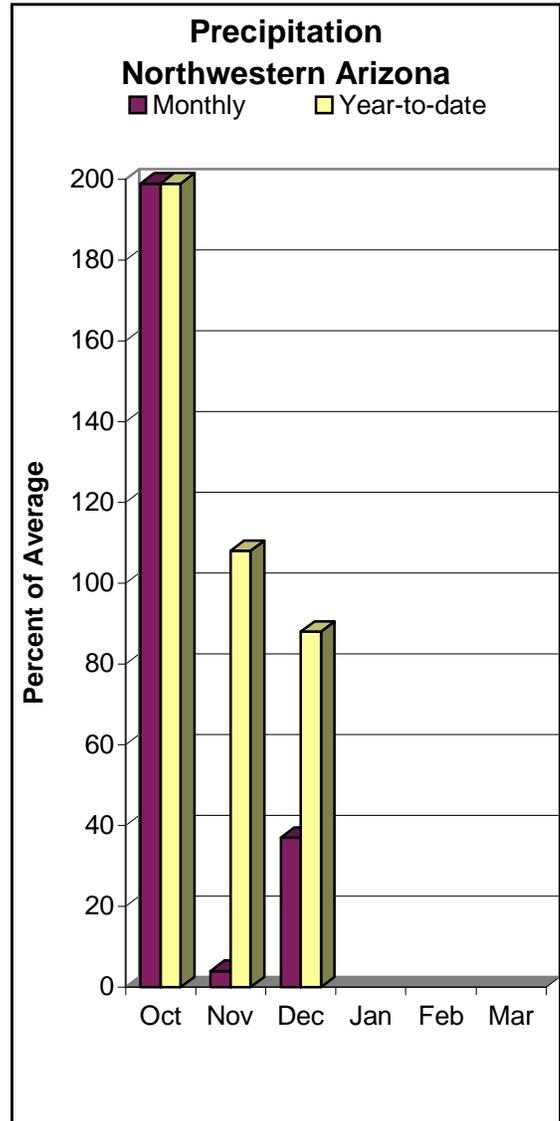
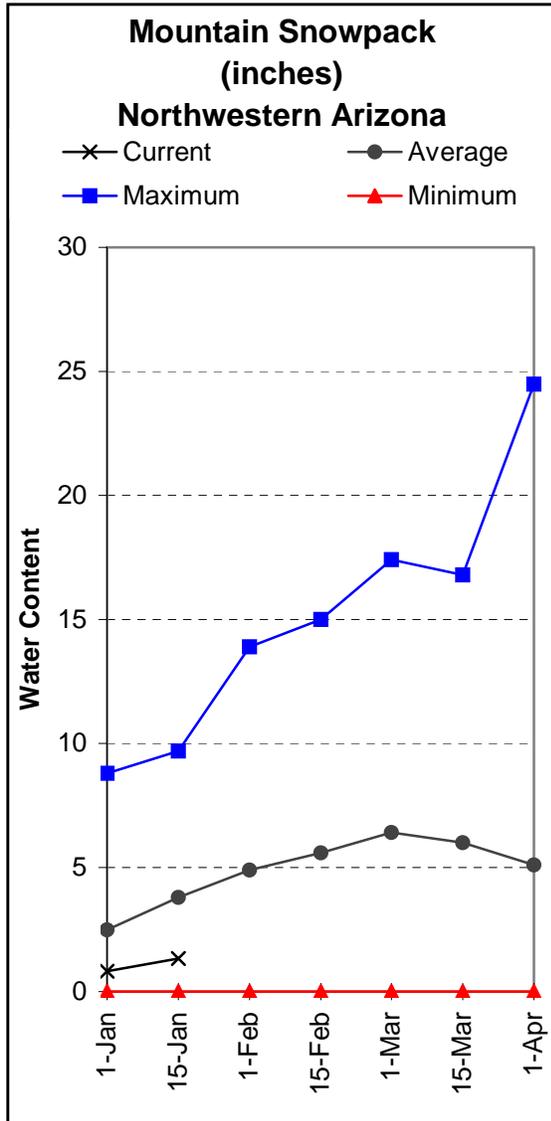
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CHUSKA MOUNTAINS and DEFIANCE PLATEAU
Watershed Snowpack Analysis - January 15, 2007

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
CHUSKA MOUNTAINS	7	4025	50
DEFIANCE PLATEAU	2	0	37

NORTHWESTERN ARIZONA as of January 15, 2007

On the Colorado River, inflow to Lake Powell is forecast at 91 % of the 30-year average for the forecast period April through July, while at the Grand Canyon, snow survey measurements conducted by park rangers show the snowpack to be 35 % of average.



NORTHWESTERN ARIZONA
Streamflow Forecasts - January 15, 2007

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===>						30 Yr Avg (1000AF)
	Chance of Exceeding *						
	90%	70%	50%	30%	10%		
	(1000AF)	(1000AF)	(1000AF) (% AVG.)	(1000AF)	(1000AF)	(1000AF)	
Lake Powell inflow							
APR-JUL	4364	6053	7200	91	8349	10039	7930

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NORTHWESTERN ARIZONA
Reservoir Storage (1000AF) Mid-January

Reservoir	Usable	***** Usable Storage *****		
	Capacity	This Year	Last Year	Average
LAKE HAVASU	619.0	565.4	573.4	557.4
LAKE MOHAVE	1810.0	1644.7	1652.5	1657.0
LAKE MEAD	26159.0	14230.0	15273.0	21868.0
LAKE POWELL	24322.0	11914.0	11415.0	18748.0

NORTHWESTERN ARIZONA
Watershed Snowpack Analysis - January 15, 2007

Watershed	Number of	This Year as Percent of	
	Data Sites	Last Year	Average
GRAND CANYON	2	0	35

S N O W S U R V E Y D A T A

JANUARY 15, 2007

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
ARBABS FOREST (AK)	7680	1/12	4	.7	.0	1.7
BAKER BUTTE SNOTEL	7330	1/15	8	1.8	.0	3.5
BAKER BUTTE #2	7700	1/11	8	1.9	.0	6.5
BALDY SNOTEL	9220	1/15	10	1.7	.0	4.5
BEAVER HEAD	8000	1/12	0	0.0	.0	2.1
BEAVER HEAD SNOTEL	7990	1/15	8	2.9	.0	2.5
BEAVER SPRING	9220	1/10	8	1.8	.2	5.9
BRIGHT ANGEL	8400	1/22	7	1.6	.0	5.7
BUCK SPRING	7400	1/11	0	0.0	.0	4.1
CHALENDER	7100	1/11	3	0.9	.0	2.1
CHEESE SPRINGS	8600	1/11	8	1.1	.0	3.3
CORONADO TRL SNOTEL	8400	1/15	5	.7	.0	2.8
CORONADO TRAIL	8400	1/11	0	0.0	.0	2.1
FLUTED ROCK	7800	1/12	3	.7	.0	2.1
FORT APACHE	9160	1/11	9	1.4	.0	4.8
FORT VALLEY	7350	1/10	1	0.1	.0	1.9
FRY SNOTEL	7220	1/15	11	2.1	.0	4.0
GRAND CANYON	7500	1/15	6	1.1	.0	2.1
HANNAGAN MDWS SNOTEL	9020	1/15	17	3.0	.0	7.0
HAPPY JACK	7630	1/07	7	1.1	.0	3.0
HAPPY JACK SNOTEL	7630	1/15	14	2.8	.0	2.9
HEBER SNOTEL	7640	1/15	9	2.1	.0	3.9
LAKE MARY	6970	1/11	6	1.2	.0	2.0
MAVERICK FORK SNOTEL	9200	1/15	13	2.7	.0	5.7
MORMON MTN SNOTEL	7500	1/15	14	2.2	.0	3.8
MORMON MT. SUMMIT #2	8470	1/11	11	2.0	.0	6.9
NEWMAN PARK	6750	1/10	3	0.8	.0	2.1
NUTRIOSO	8500	1/12	0	0.0	.0	1.4
PROMONTORY SNOTEL	7900	1/15	18	4.1	.0	7.1
SNOW BOWL #1 ALT.	10260	1/07	7	1.4	.0	7.4
SNOW BOWL #2	11000	1/07	14	3.6	.0	10.4
SNOWSLIDE CYN SNTL	9750	1/15	23	7.3	2.6	8.0
TSAILE CANYON #1	8160	1/11	8	1.5	.0	4.2
TSAILE CANYON #3	8920	1/11	11	2.4	.2	5.6
WHITE HORSE SNOTEL	7180	1/15	2	.6	.0	3.2
WILDCAT SNOTEL	7850	1/15	5	1.1	.0	2.8
WILLIAMS SKI RUN	7720	1/11	8	1.8	.0	4.8
WORKMAN CREEK SNOTEL	6900	1/15	8	2.1	.0	4.3

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