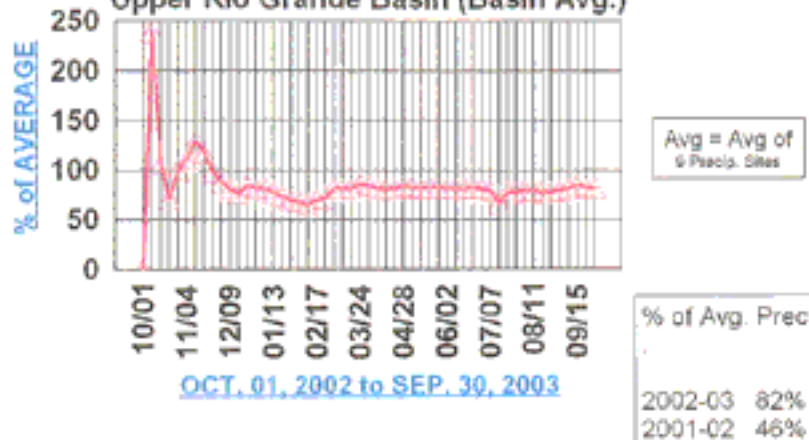


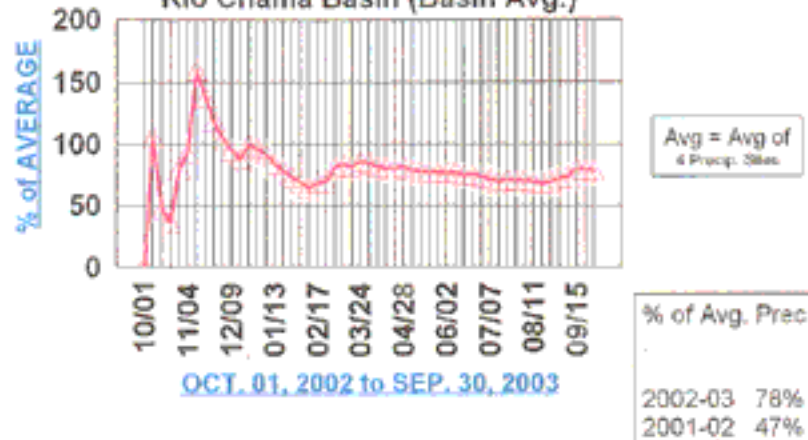
### % OF AVG. TOTAL PRECIPITATION vs TIME

Upper Rio Grande Basin (Basin Avg.)



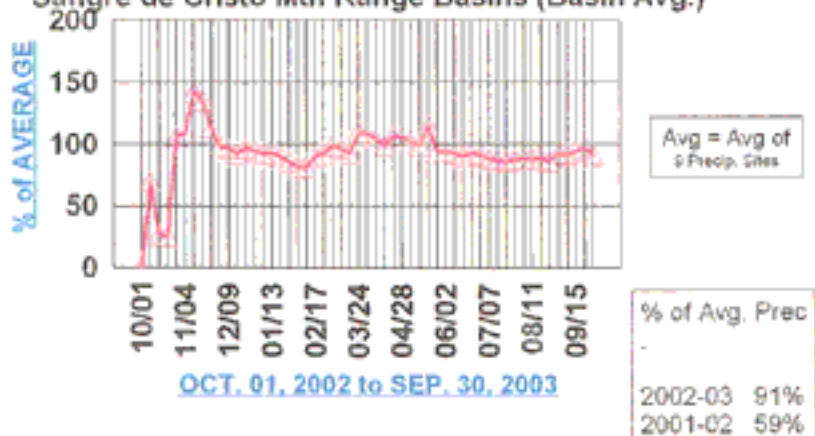
### % OF AVG. TOTAL PRECIPITATION vs TIME

Rio Chama Basin (Basin Avg.)



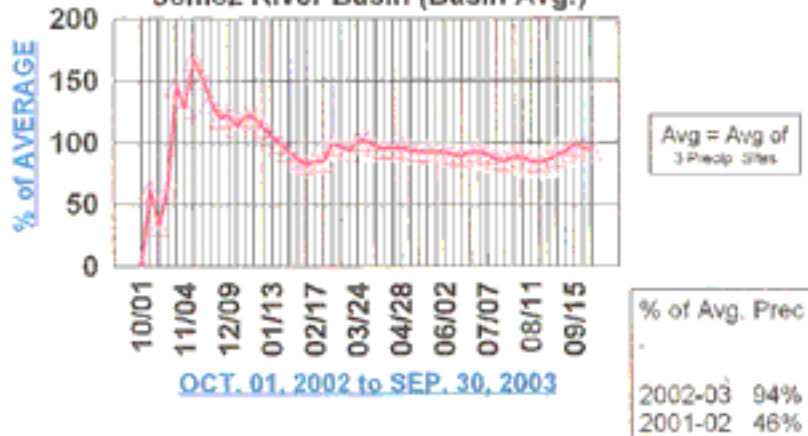
### % OF AVG. TOTAL PRECIPITATION vs TIME

Sangre de Cristo Mtn Range Basins (Basin Avg.)



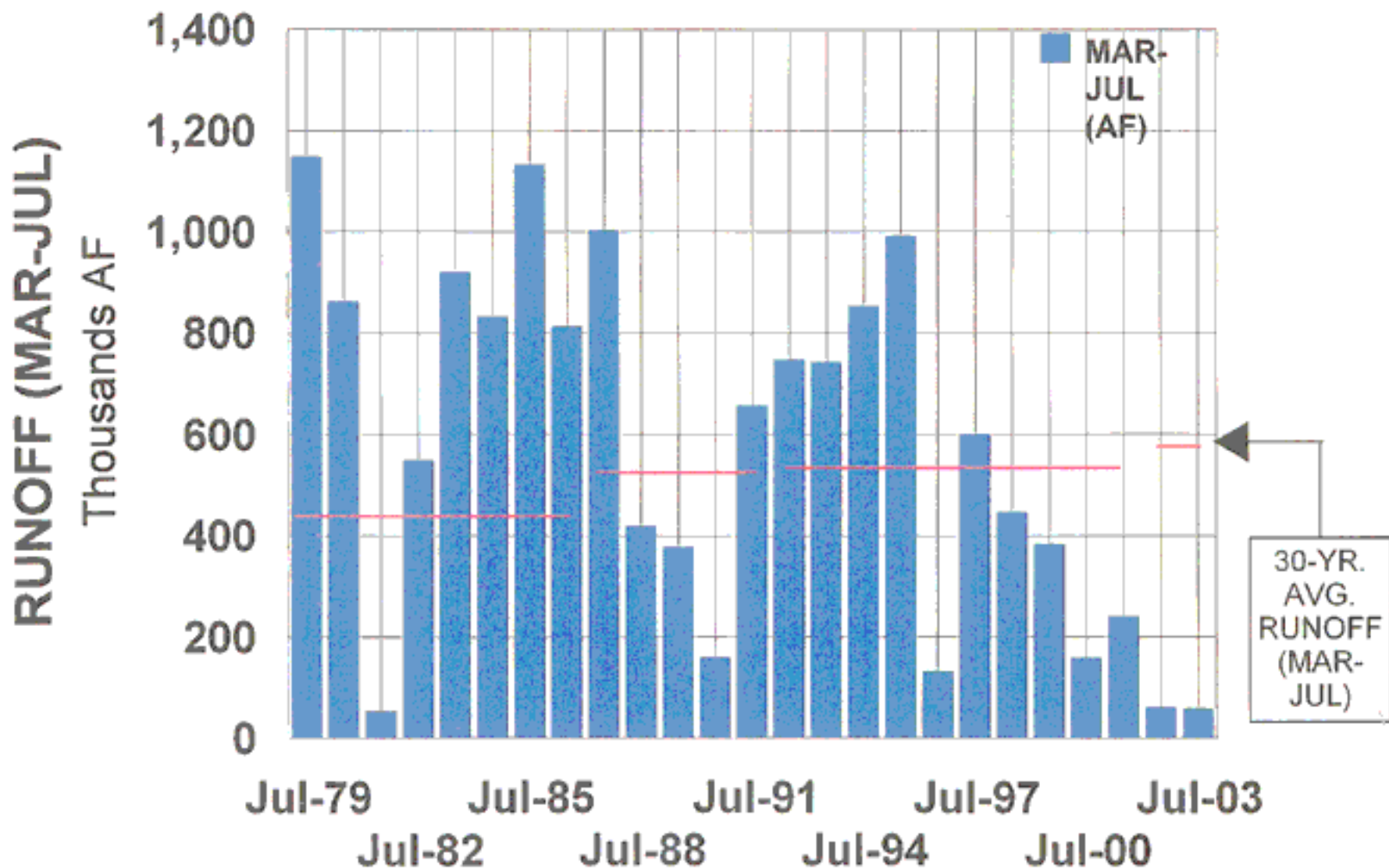
### % OF AVG. TOTAL PRECIPITATION vs TIME

Jemez River Basin (Basin Avg.)



# HISTORICAL RUNOFF - SAN MARCIAL

## 1979 - 2003





BUREAU OF RECLAMATION  
RIO GRANDE PROJECT  
EL PASO, TX

**2003 OPERATIONAL DATA STATUS**

<b>ELEPHANT BUTTE RESERVOIR</b>		RESERVOIR WATER SURFACE ELEVATION (feet *)	FEET BELOW SPILLWAY CREST (feet)	RESERVOIR TOTAL STORAGE (acre-feet)	PERCENT OF FULL RESERVOIR (%)	RESERVOIR WATER SURFACE AREA (acres)	PERCENT OF FULL RESERVOIR SURFACE AREA (%)
<b>TODAY'S DATE:</b>	Wednesday, October 22, 2003	4305.26	101.74	161,175	8.07%	6,784	19.06%
<b>2003 HIGH POINT:</b>	Wednesday, February 26, 2003	4331.92	75.08	405,306	20.28%	11,529	32.39%
<b>2003 LOW POINT:</b>	Sunday, September 14, 2003	4303.27 *	103.73	147,946	7.50%	6,511	18.50%
<b>2002 LOW POINT:</b>	Thursday, October 10, 2002	4320.08	86.92	280,622	14.04%	9,576	26.91%

\* We haven't been this low at Elephant Butte Reservoir since December 1978.

<b>CABALLO RESERVOIR</b>	
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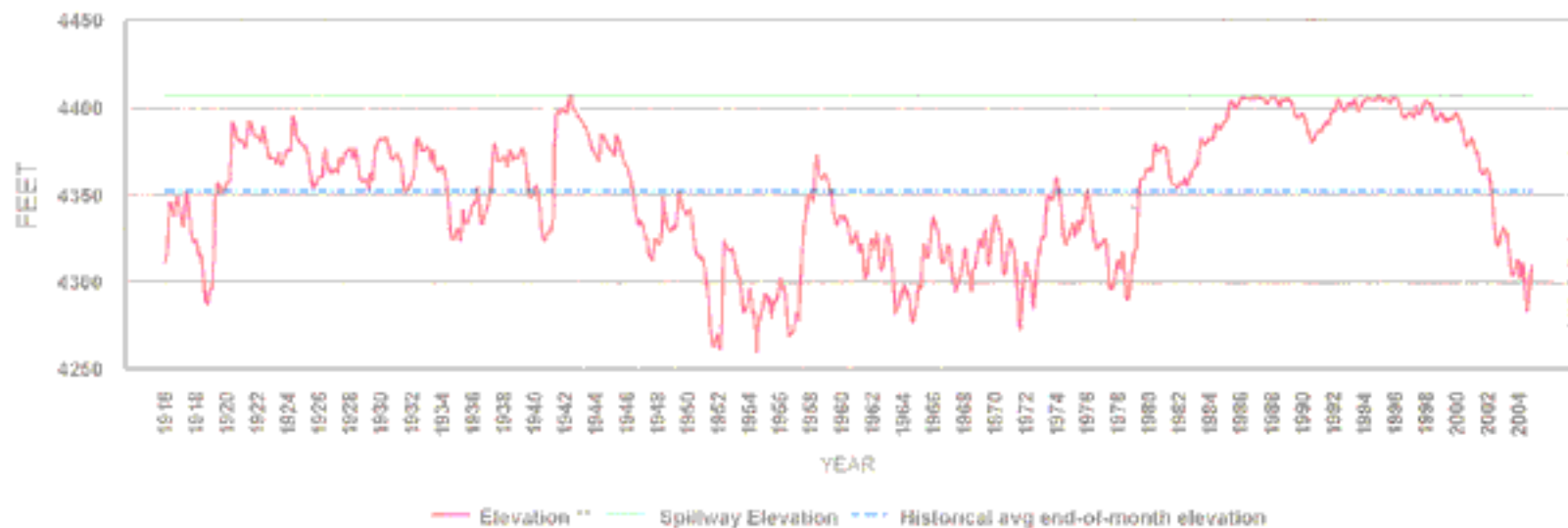
<b>TODAY'S DATE:</b>	Wednesday, October 22, 2003	4129.50	42.94 **	7,962	3.51%	1,478	15.80%
<b>2003 HIGH POINT:</b>	Wednesday, May 14, 2003	4150.10	22.34 **	67,657	29.85%	4,875	52.13%
<b>2003 LOW POINT:</b>	Friday, September 19, 2003	4127.46 ***	44.98 **	5,233	2.31%	1,198	12.81%
<b>2002 LOW POINT:</b>	Thursday, September 26, 2002	4138.12	34.32 **	24,698	10.90%	2,463	26.33%

\*\* Feet below top of conservation pool.

\*\*\* We haven't been this low at Caballo Reservoir since September 1971 (for normal operations).

# ELEPHANT BUTTE RESERVOIR

HISTORICAL END-OF-MONTH ELEVATION\*



RIO GRANDE PROJECT  
2003 WATER OPERATIONS SUMMARY

ELEPHANT BUTTE RESERVOIR INFLOW*	134,700	A-F
ELEPHANT BUTTE RESERVOIR OUTFLOW	354,000	A-F
CABALLO RESERVOIR INFLOW	354,000	A-F
CABALLO RESERVOIR OUTFLOW	365,400	A-F
EBID WATER CHARGES	164,741	A-F
EPCWID#1 WATER CHARGES **	137,250	A-F
CITY OF EL PASO DIVERSIONS	24,862	A-F
HCCRD DIVERSIONS ***	35,925	A-F
FT. QUITMAN FLOW ****	26,500	A-F

\* Rio Grande at San Marcial total flow thru end of September.

\*\* Includes City of El Paso diversions.

\*\*\* System waste and return flows thru end of September.

\*\*\*\* Includes discharge from Acequia Madre in Mexico thru end of September.

# 2003 Rio Grande Project Allocation

## Final Allocation - August 15, 2003

(letter issued August 21, 2003)

## Utilization of Allocation

(final water charges against allotments)

Mexico	26,616 AF	26,948 AF
Elephant Butte Irrigation District	165,144 AF	164,741 AF
El Paso County Water Improvement District # 1	125,735 AF	125,122 AF
	<hr/>	
[34.07% of a full supply]	317,495 AF *	

\* Project water supply available for diversion at the authorized canal headings.

## 2003 Rio Grande Project Water Operations Summary (AF)

	Caballo Release	EBID Gross Diversions*	EBID Water Allot. Charges	EPCWID#1 Gross Diversions**	City of El Paso Water Use	EPCWID#1 Water Allot. Charges***	Mexico Deliveries	River Efficiency****	HCCRD Water Charges
March	23,450	12,149	9,148	4,032	58	4,996	2,310	82.8%	5,415
April	34,410	34,417	26,500	10,236	206	11,014	2,100	105.2%	6,524
May	37,780	22,465	19,445	8,531	1,011	9,174	0	79.8%	4,114
June	84,056	53,302	45,634	17,389	4,805	24,193	8,100	96.8%	4794
July	58,210	24,180	18,469	18,468	4,180	23,545	9,280	89.4%	5355
Aug	84,000	53,742	41,607	31,656	8,665	42,917	4,846	89.3%	4667
Sep	21,100	5,387	3,938	14,275	5,937	21,411		84.5%	5056
Total	343,006 <i>303,000</i>	205,642	164,741	104,587	24,862	137,250	26,846 <i>23,511</i>	Avg Thru year: 89.7%	35,925

\* Includes Texas water at the stateline and ordered bypass.

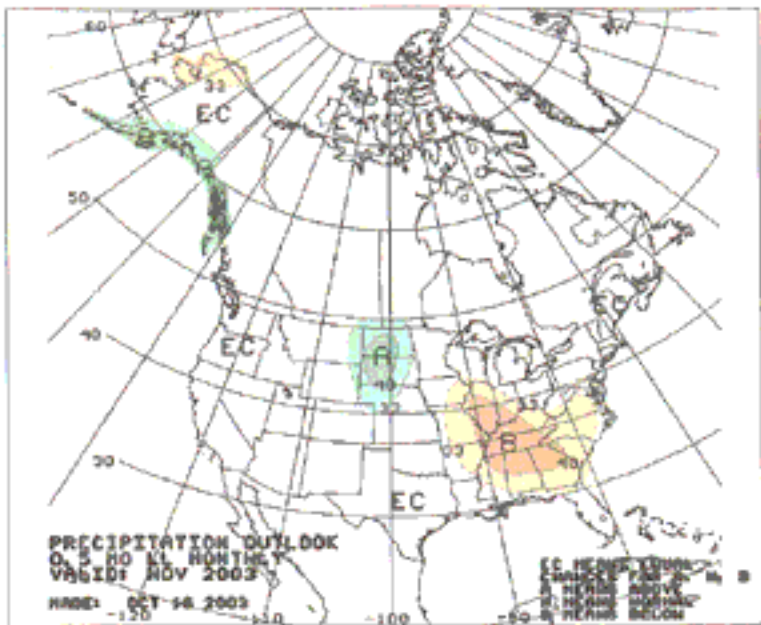
\*\* Riverside and Franklin headings.

\*\*\* Includes City of El Paso water and Texas water at the stateline.

\*\*\*\* Net diversions/Caballo Release Ratio

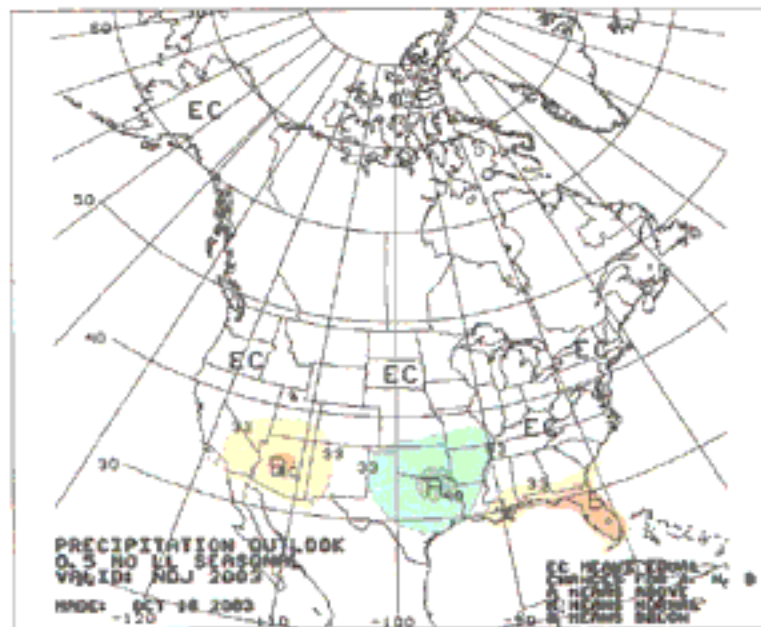
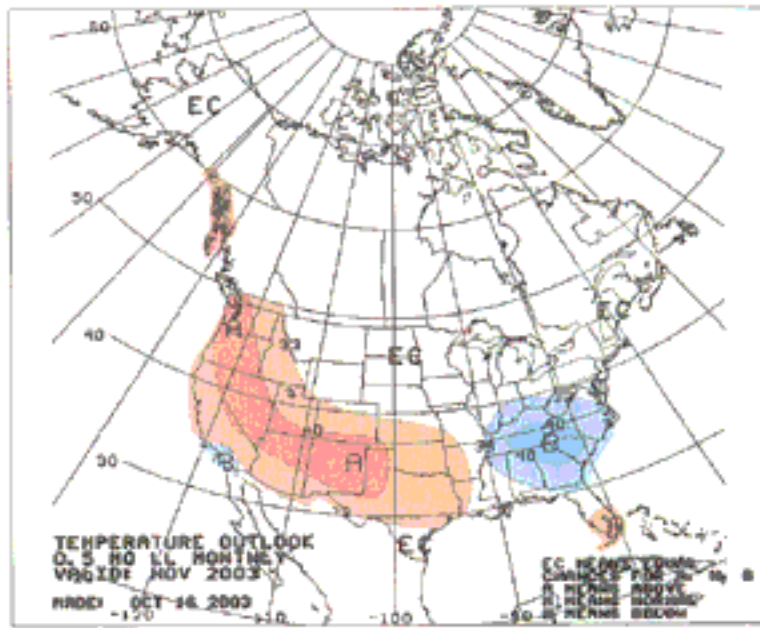
PRECIP

NOV03

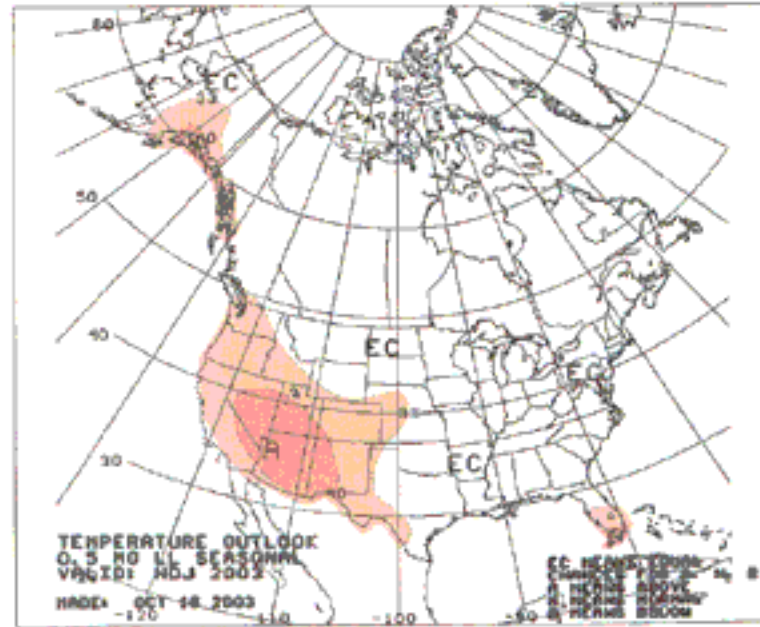


TEMP

NOV03



NOV03 - JAN04



NOV03 - JAN04



# U. S. Seasonal Drought Outlook Through January 2004

Released October 16, 2003



Improvement  
Expected





LONG TERM  
DROUGHT TO  
PERSIST

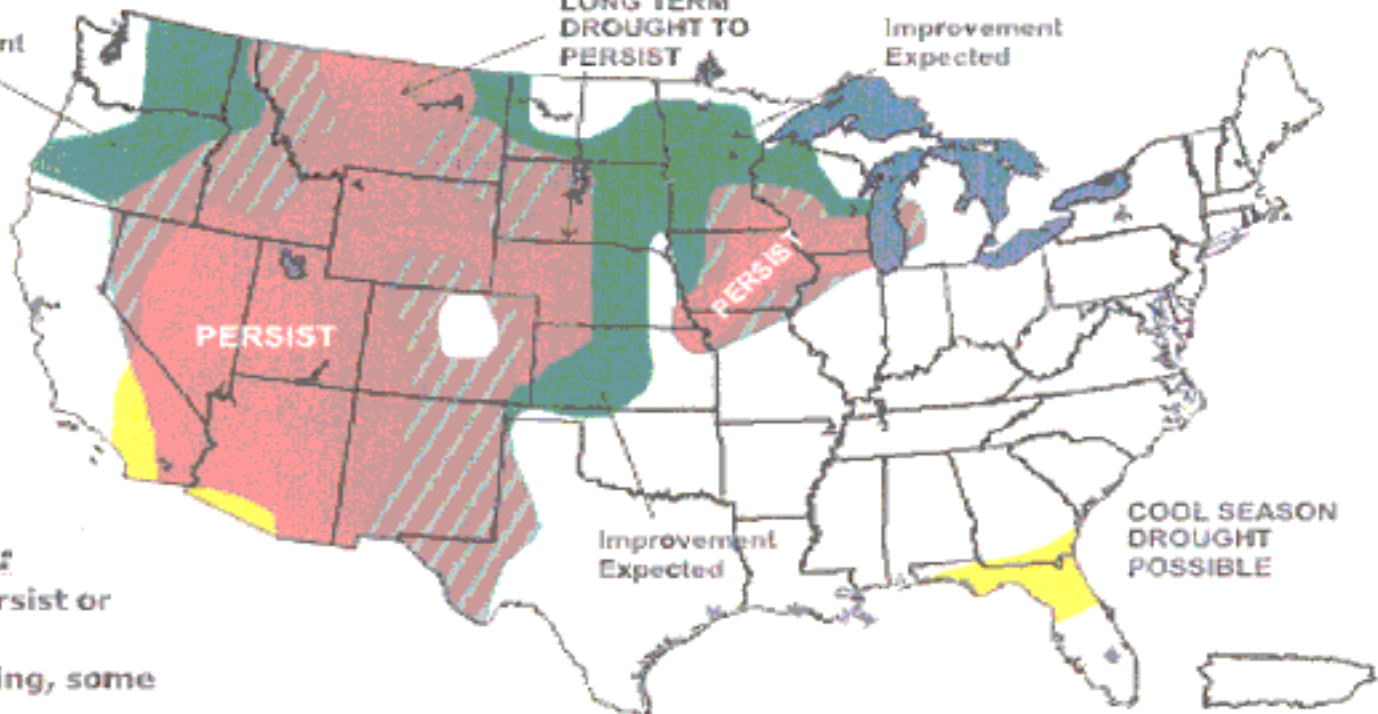
Improvement  
Expected



PERSIST

## KEY:

-  Drought to persist or intensify
-  Drought ongoing, some improvement
-  Drought likely to improve, impacts ease
-  Drought development likely



Depicts general, large-scale trends based on subjectively derived probabilities guided by numerous indicators, including short and long-range statistical and dynamical forecasts. Short-term events – such as individual storms – cannot be accurately forecast more than a few days in advance, so use caution if using this outlook for applications – such as crops – that can be affected by such events. "Ongoing" drought areas are schematically approximated from the Drought Monitor (D1 to D4). For weekly drought updates, see the latest Drought Monitor map and text.

**WORKSHEET OF STATUS OF RIO GRANDE COMPACT CREDIT WATERS  
& SAN JUAN-CHAMA WATER IN ELEPHANT BUTTE RESERVOIR**

WTreeers  
10/22/2003

**2003**

**ELEPHANT BUTTE RESERVOIR**

	Rio Grande Compact Credit Waters		San Juan- Chama Pool (AF)
	Colorado (AF)	New Mexico (AF)	
Beginning of 2003 (derived from 2002 RGC Accounting)	42,800	265,000	8,207
Estimated Evaporation from Jan. 1 to Sep. 30, 2003 (derived from actual data)	9,806	37,768	929
Relinquishment of Credit Waters by NM to TX on April 23, 2003		122,500	
Adjustment for Depletion of Winegrowers on Sep. 15, 2003			126
<b>Preliminary Status of RGC Credit Waters and SJ-C Water to Sep. 30, 2003</b>	<b>32,994</b>	<b>104,732</b>	<b>7,152</b>
Estimated Evaporation from Oct. 1 to Dec. 31, 2003	1,551	4,922	169
<b>Estimated Status of RGC Credit Waters and SJ-C Water to Dec. 31, 2003</b>	<b>31,443</b>	<b>99,810</b>	<b>6,983</b>
2003 Over/Under Delivery by CO and NM	RGCC Eng. Adv. Mtg in February, 2004		
Proposed Relinquishment of Credit Waters by NM on March 1, 2004	up to 95,000 acre-feet		
<b>Estimated Status of RGC Credit Waters and SJ-C Water to March 1, 2004</b>	<b>0</b>	<b>0</b>	<b>6,910</b>

## 2004 PROJECTIONS OF RIO GRANDE PROJECT OPERATIONS

(based on Rio Grande Project operational plans dated 10/15/03)

<u>Estimated Spring Runoff Forecast at San Marcial (% of Avg.)</u>	<u>Actual Spring Runoff at San Marcial (% of Avg.)</u>	<u>End of Irrigation Season Low Point at Elephant Butte Reservoir (AF)</u>	<u>End of Irrigation Season Low Point at Caballo Reservoir (AF)</u>	<u>Irrigation Season Release From Caballo Reservoir (AF)</u>	<u>Projected Allocation to Rio Grande Project Water Users (% of Full Supply)</u>
118%	93%	68,730	9,750	790,000	Full Supply
110%	73%	44,880	9,220	694,000	85% - 90%
70%	50%	25,130	6,140	529,000	65% - 70%
42%	25%	6,500	5,900	379,000	30% - 35%
20%	10%	6,500	6,130	281,000	15% - 20%