

RECLAMATION

Managing Water in the West

RIO GRANDE PROJECT

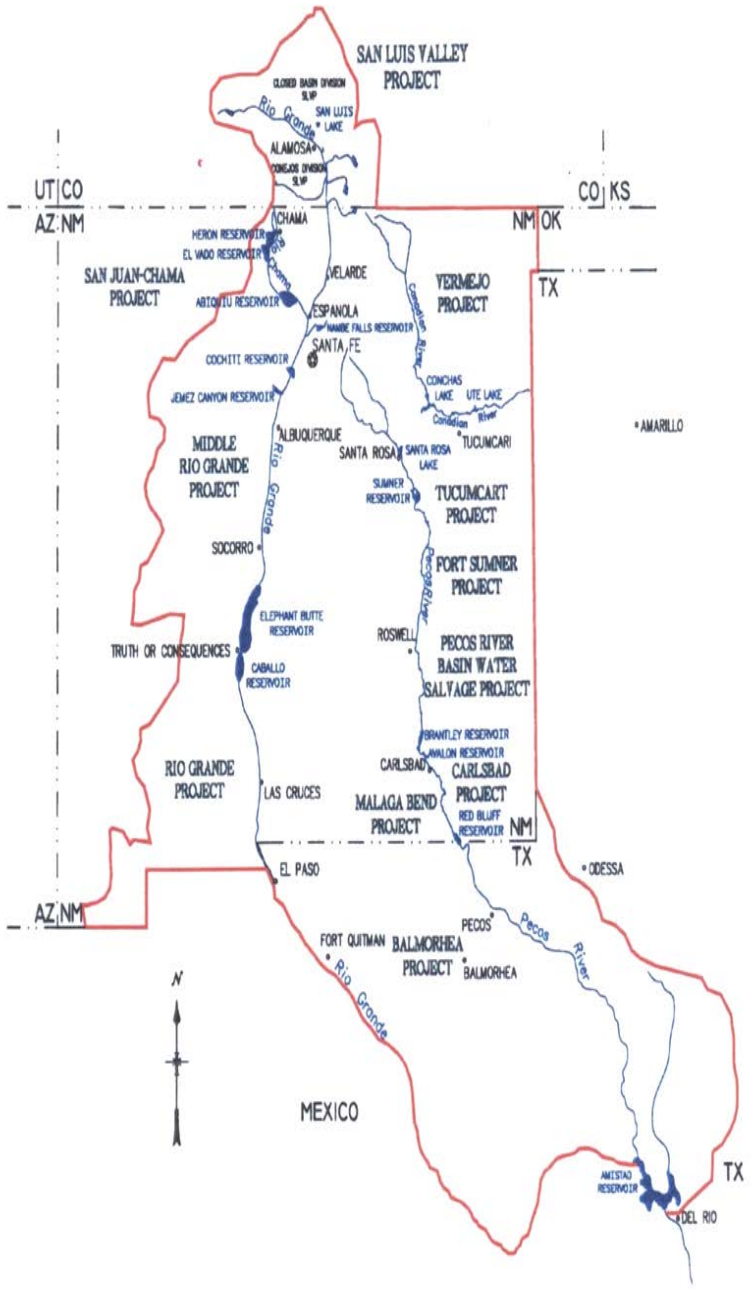
El Paso Field Division
10737 Gateway Blvd. West, Suite 350
El Paso, TX 79935

November 19, 2013



U.S. Department of the Interior
Bureau of Reclamation

ALBUQUERQUE AREA OFFICE
BUREAU OF RECLAMATION

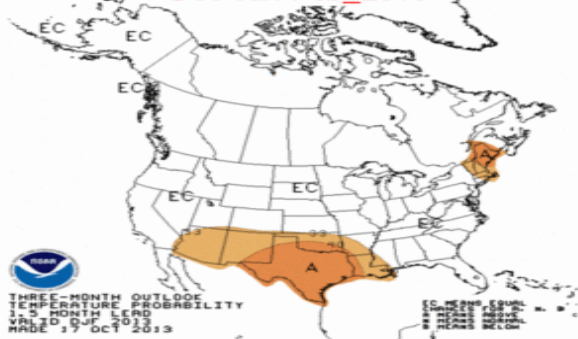


RIO GRANDE PROJECT

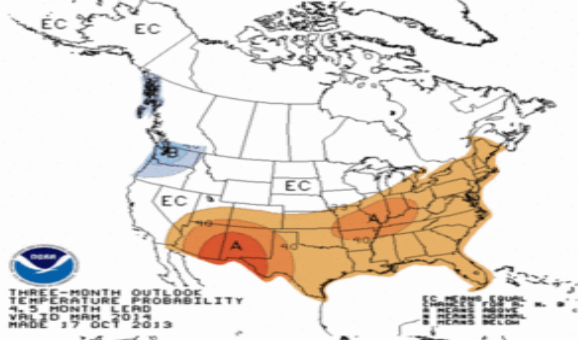
CURRENT HYDROLOGIC
CONDITIONS OF UPPER
RIO GRANDE BASIN

RECLAMATION

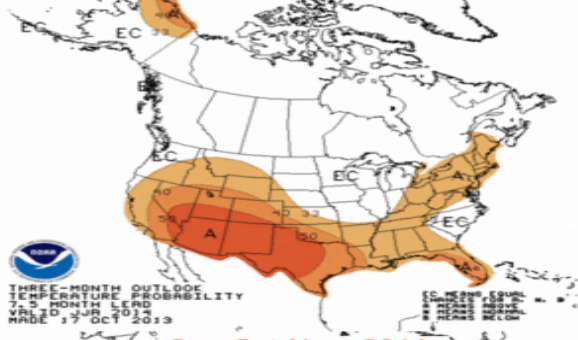
Dec-Jan-Feb_2013



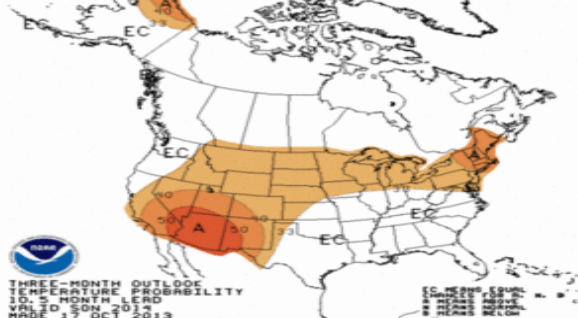
Mar-Apr-May_2014



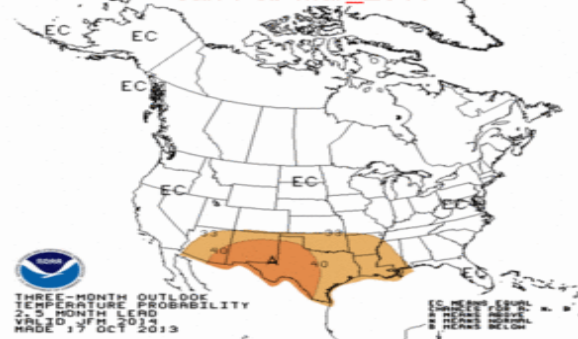
Jun-Jul-Aug_2014



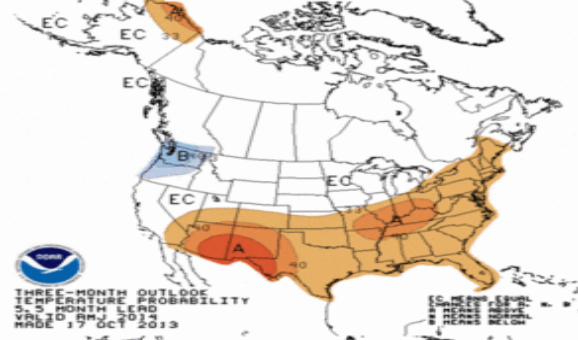
Sep-Oct-Nov_2014



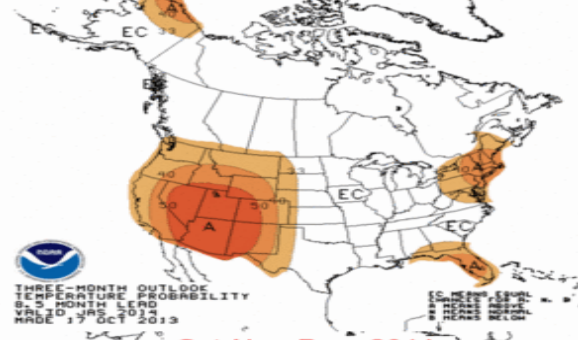
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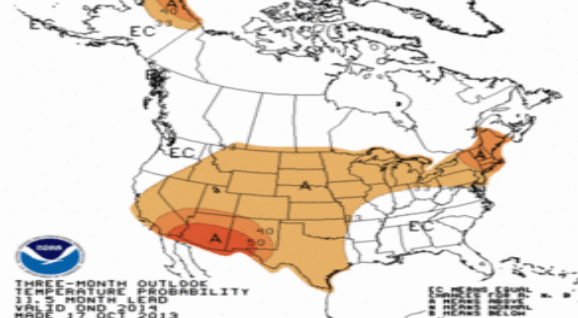
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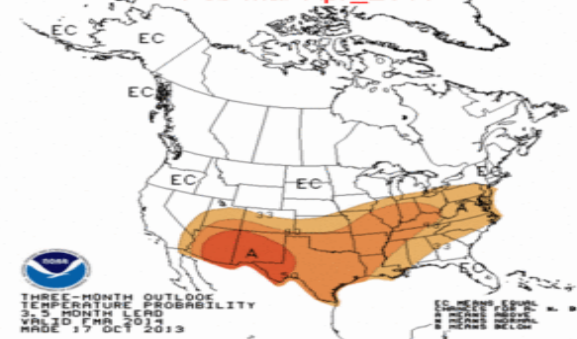
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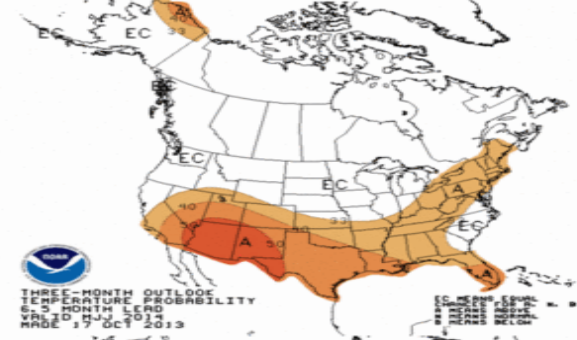
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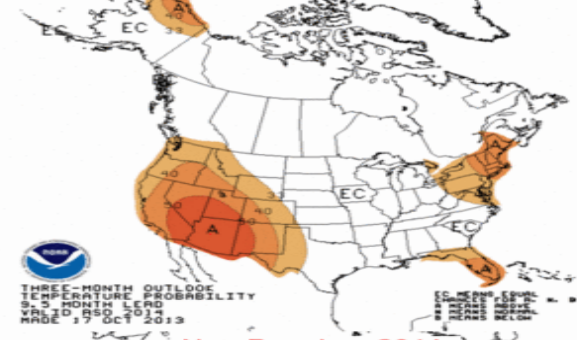
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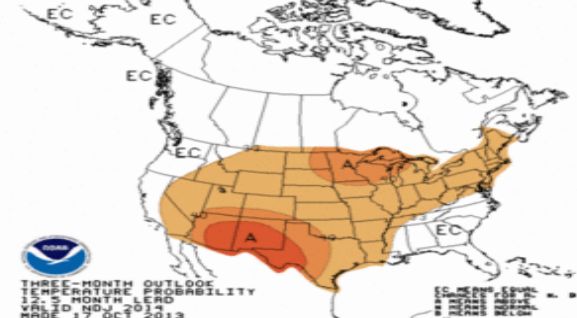
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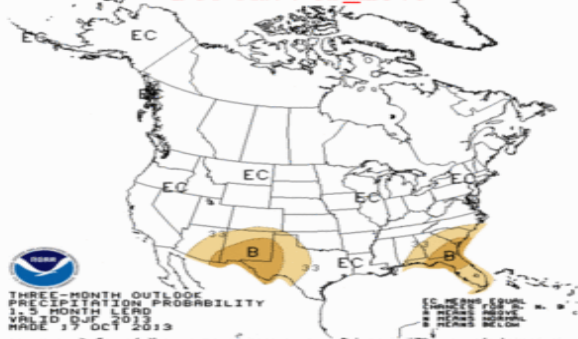
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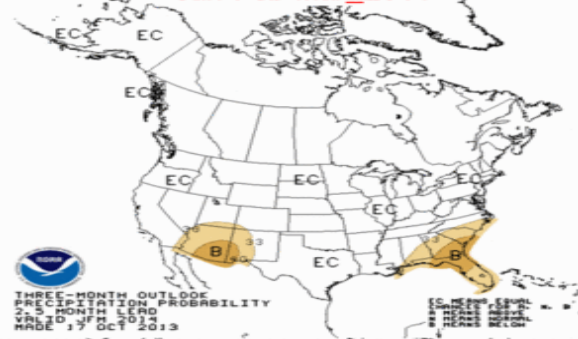
Nov-Dec-Jan_2014



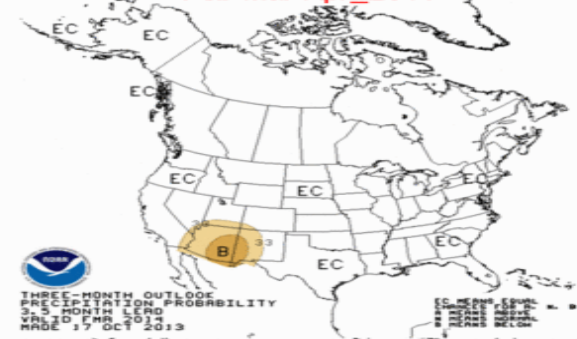
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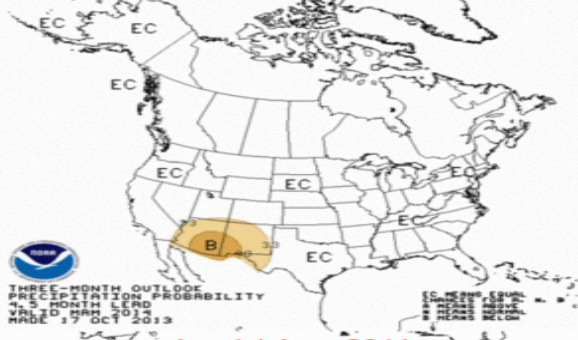
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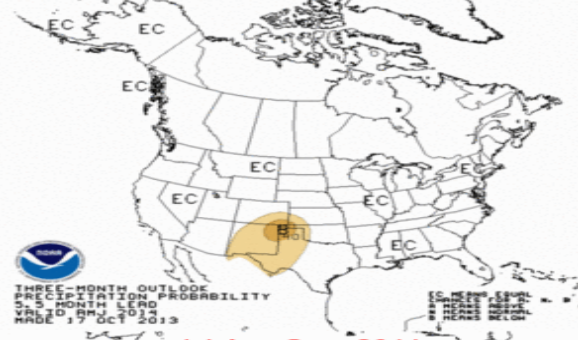
Feb-Mar-Apr_2014



Mar-Apr-May_2014



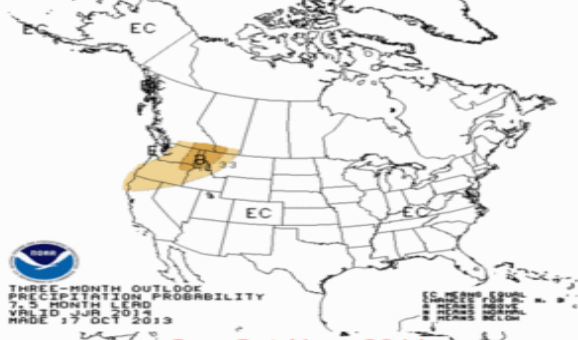
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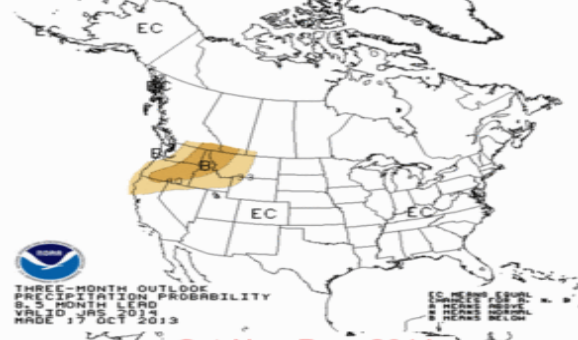
May-Jun-Jul_2014



Jun-Jul-Aug_2014



Jul-Aug-Sep_2014



Aug-Sep-Oct_2014



Sep-Oct-Nov_2014



Oct-Nov-Dec_2014



Nov-Dec-Jan_2014

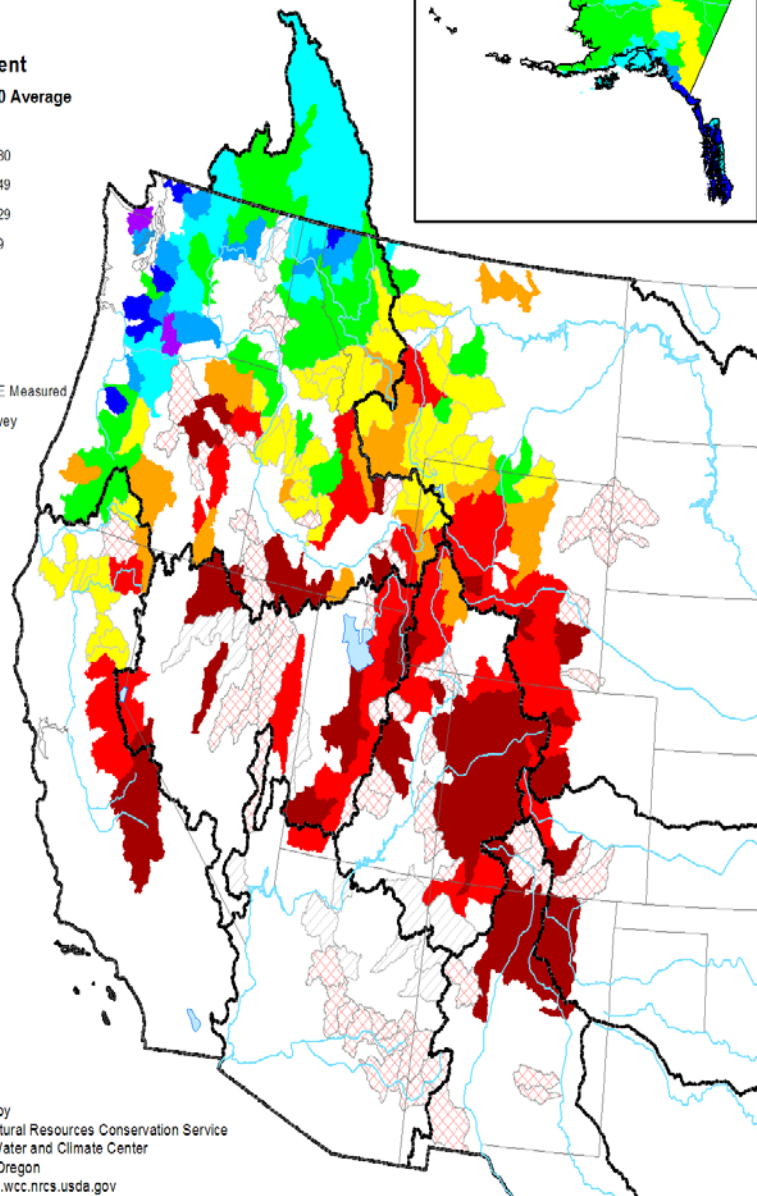
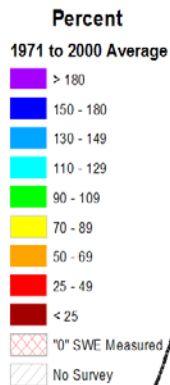


2010-2013 El Paso Precipitation

	All Values in Inches	January	February	March	April	May	June	July	August	September	October	November	December	Annual
	2010	0.66	1.43	0.02	0.13	0.01	1.08	1.07	0.31	1.62	0.18	T	0.16	6.67
	2011	T	0.11	0	0	0	0.05	2.59	1.11	0.43	.001	0.23	0.74	5.27
	2012	0.66	0.02	0.08	0.09	0.53	T	2.39	0.65	1.41	0.1	0.02	0.1	6
	2013	0.3	0.41	T	T	0.18	0.16	<u>3.13</u>	1.12	3.82	T			9.15
*	Monthly Avg.	0.45	0.46	0.36	0.31	0.44	0.76	1.67	1.59	1.35	0.83	0.49	0.58	8.71
*	Monthly Max	1.84	1.92	2.26	2.24	4.22	3.18	8.18	6.85	6.68	5.15	2.5	3.94	18.29
*	Monthly Min	0	0	0	0	0	0	0.04	T	T	0	0	0	2.22
*1878 - 2012		http://www.srh.noaa.gov/epz/?n=el Paso_monthly_precip												

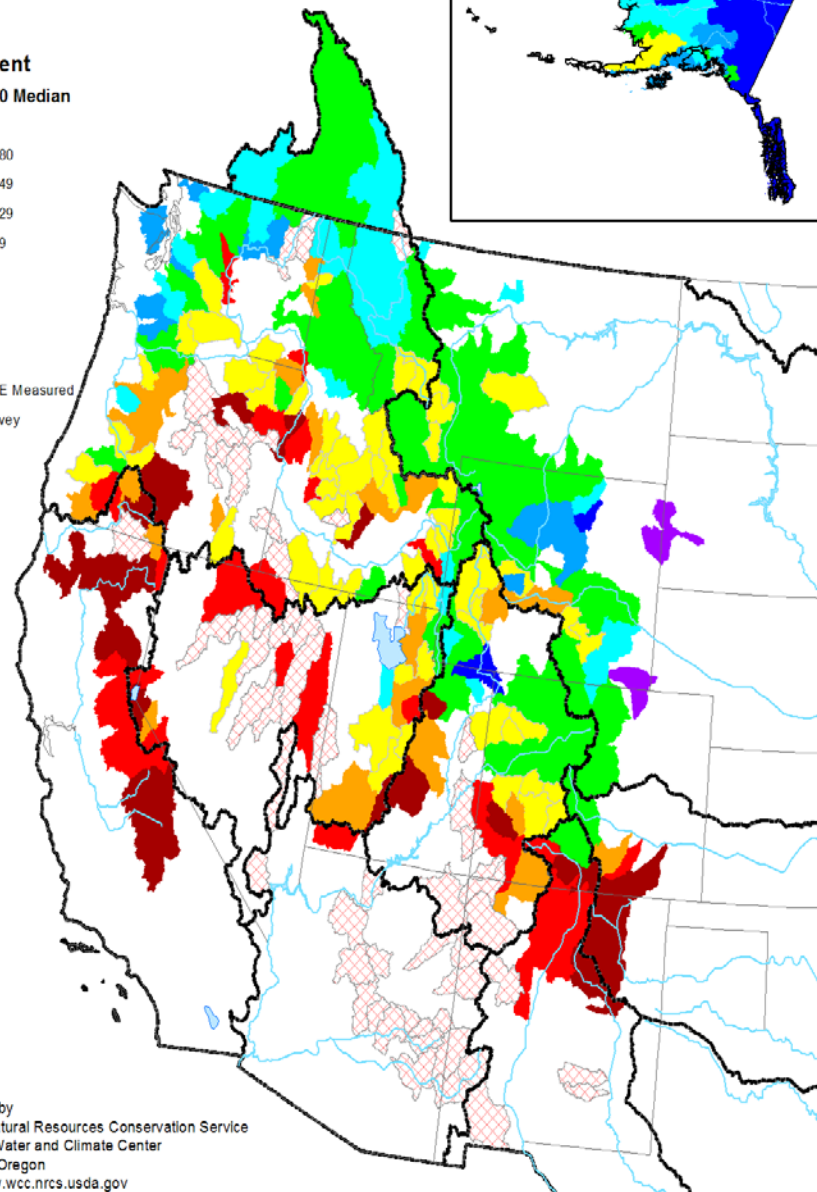
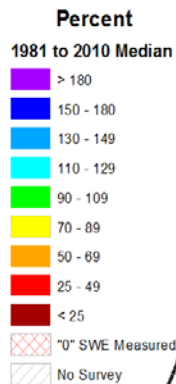


Mountain Snowpack as of May 1, 2012



Prepared by
USDA, Natural Resources Conservation Service
National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>

Mountain Snowpack as of May 1, 2013



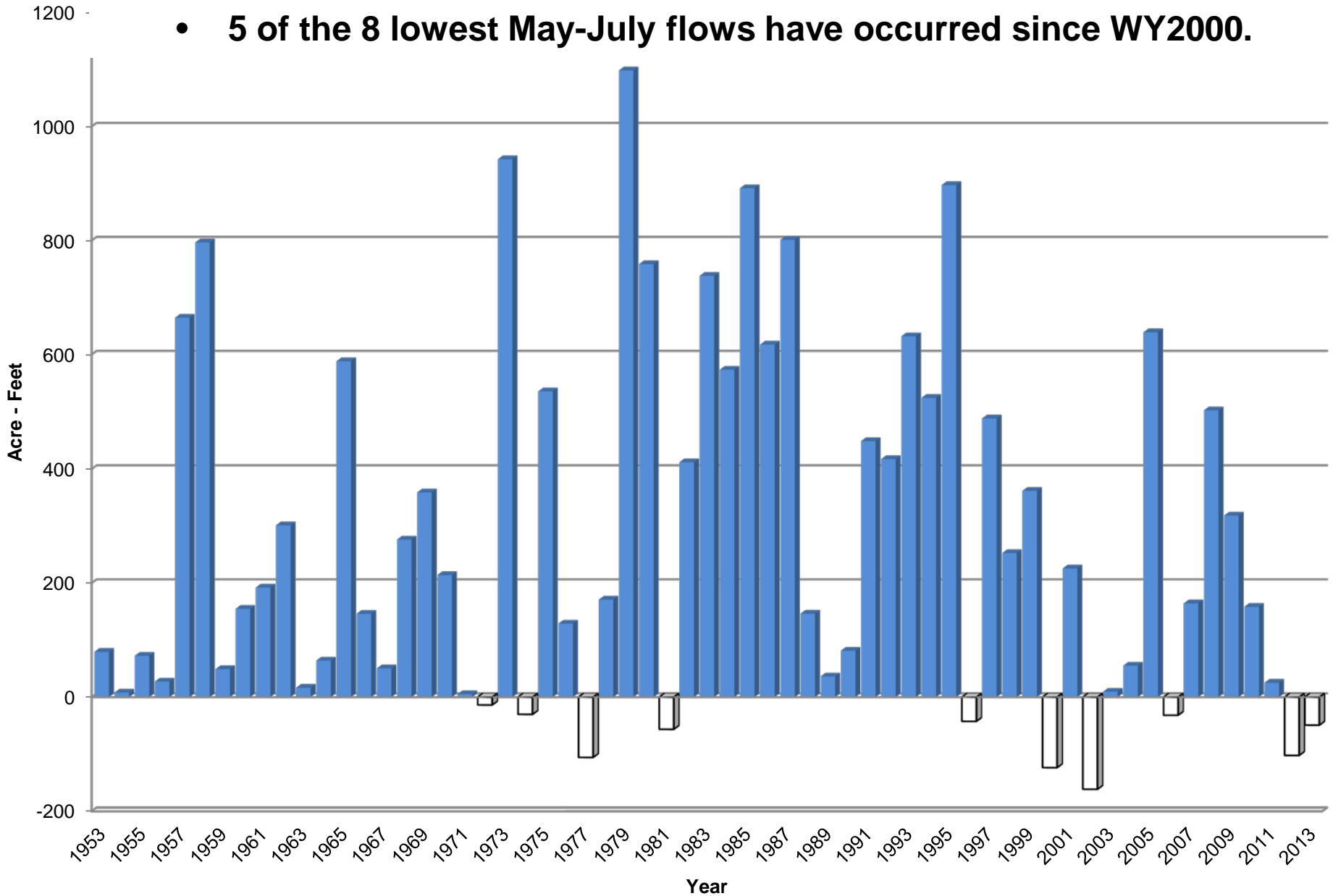
Prepared by
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**SPRING RUNOFF FORECAST
2013
RIO GRANDE BASIN
(ACRE-FEET)**

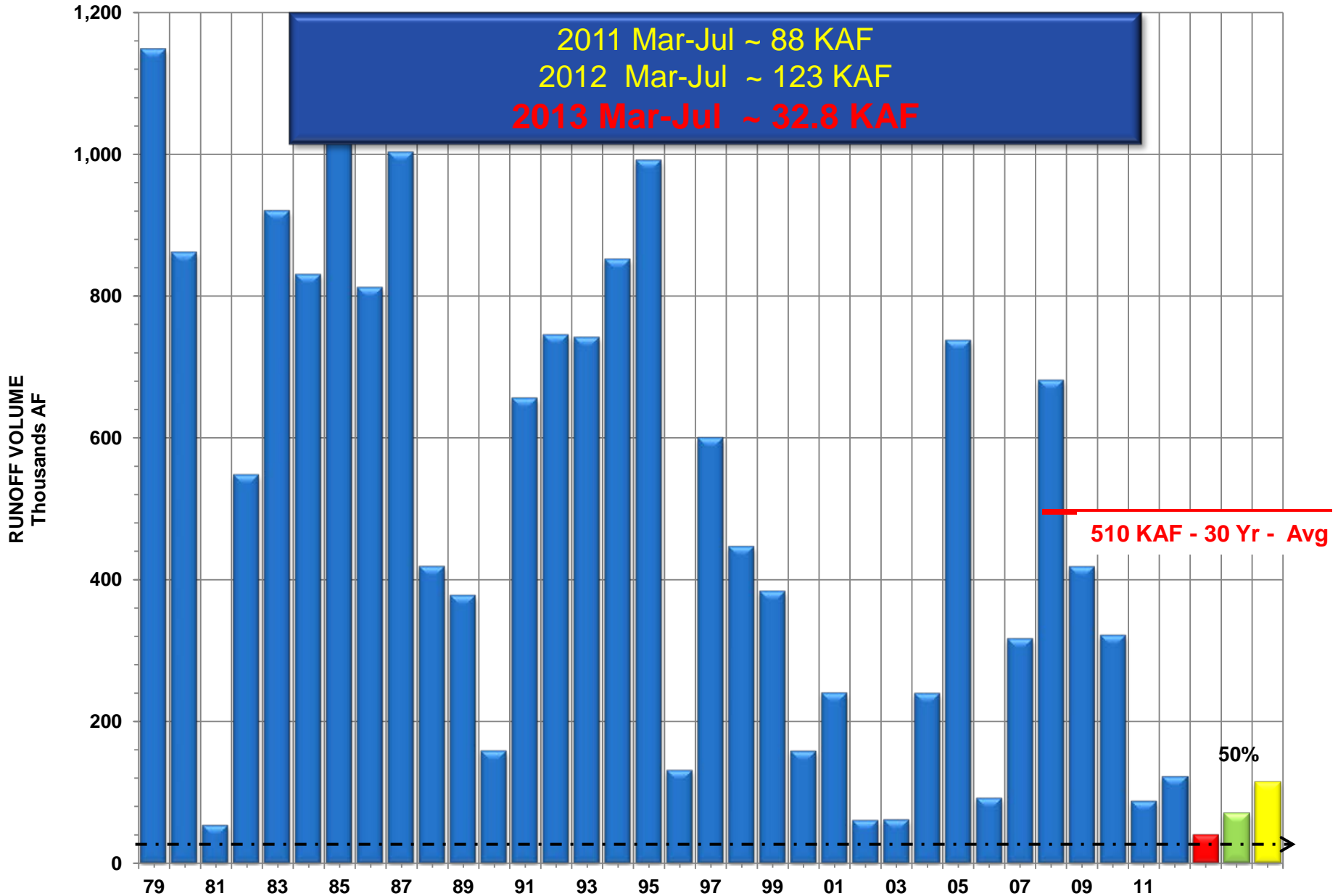
<u>FORECAST POINT</u>	<u>Rio Grande at OTOWI BRIDGE</u>	<u>Rio Grande at San Marcial</u>
<u>FORECAST PERIOD</u>	<u>MAR-JUL</u>	<u>MAR-JUL</u>
<u>30-YEAR AVERAGE RUNOFF*</u>	<u>*757,000/720,000</u>	<u>*573,000/510,000</u>
Jan 2013	340,000 47%	191,000 37%
Feb 2013	380,000 53%	197,000 39%
March 2013	395,000 55%	200,000 39%
April 2013	235,000 33%	71,000 14%
May 2013	171,000 24%	-41,000
June 2013	162,000 23%	-49,000

San Marcial Historical May-July Forecast 1953-2013

- **5 of the 8 lowest May-July flows have occurred since WY2000.**



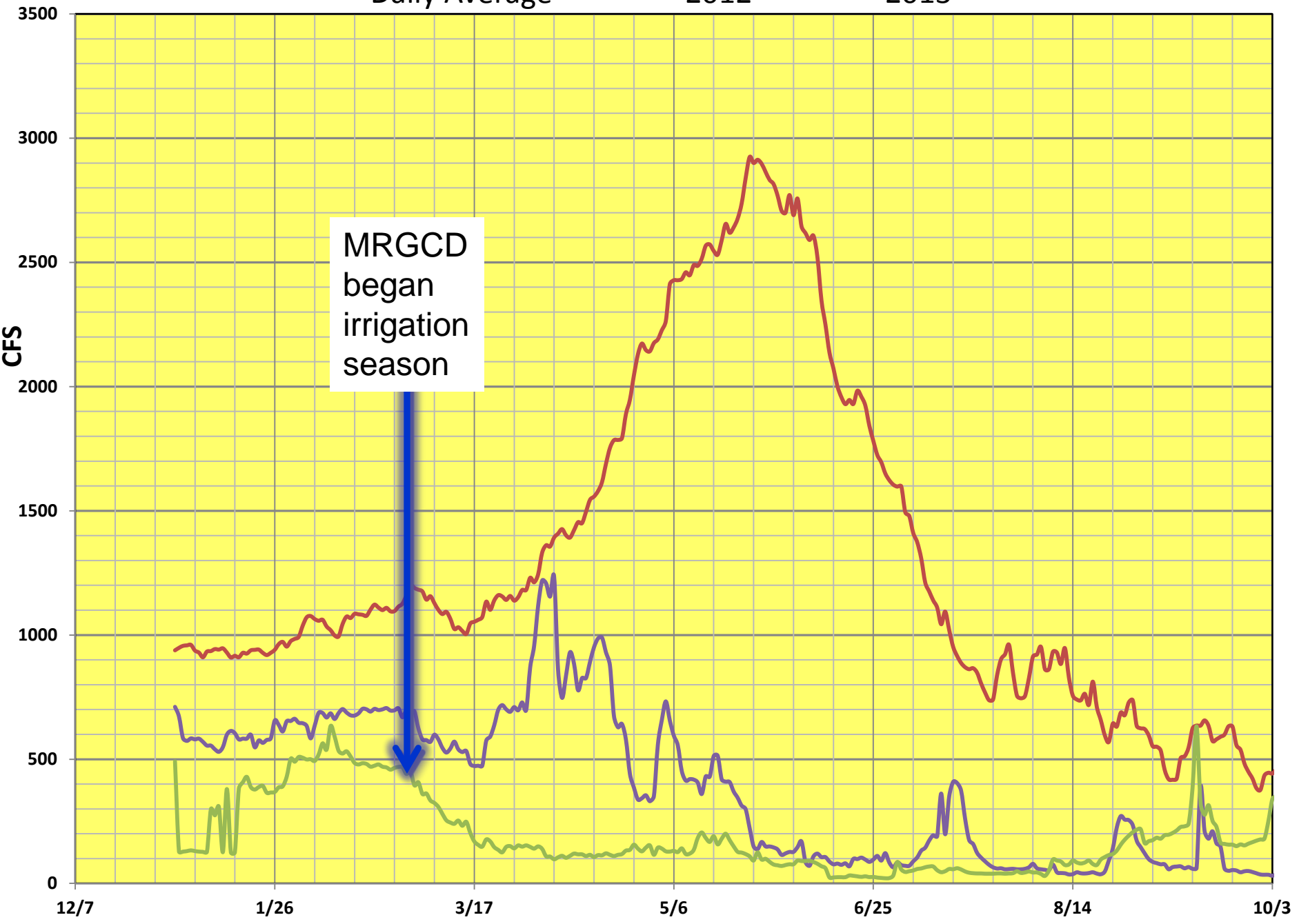
HISTORICAL Mar- Jul RUNOFF - SAN MARCIAL 1979 - 2012



— Daily Average

— 2012

— 2013



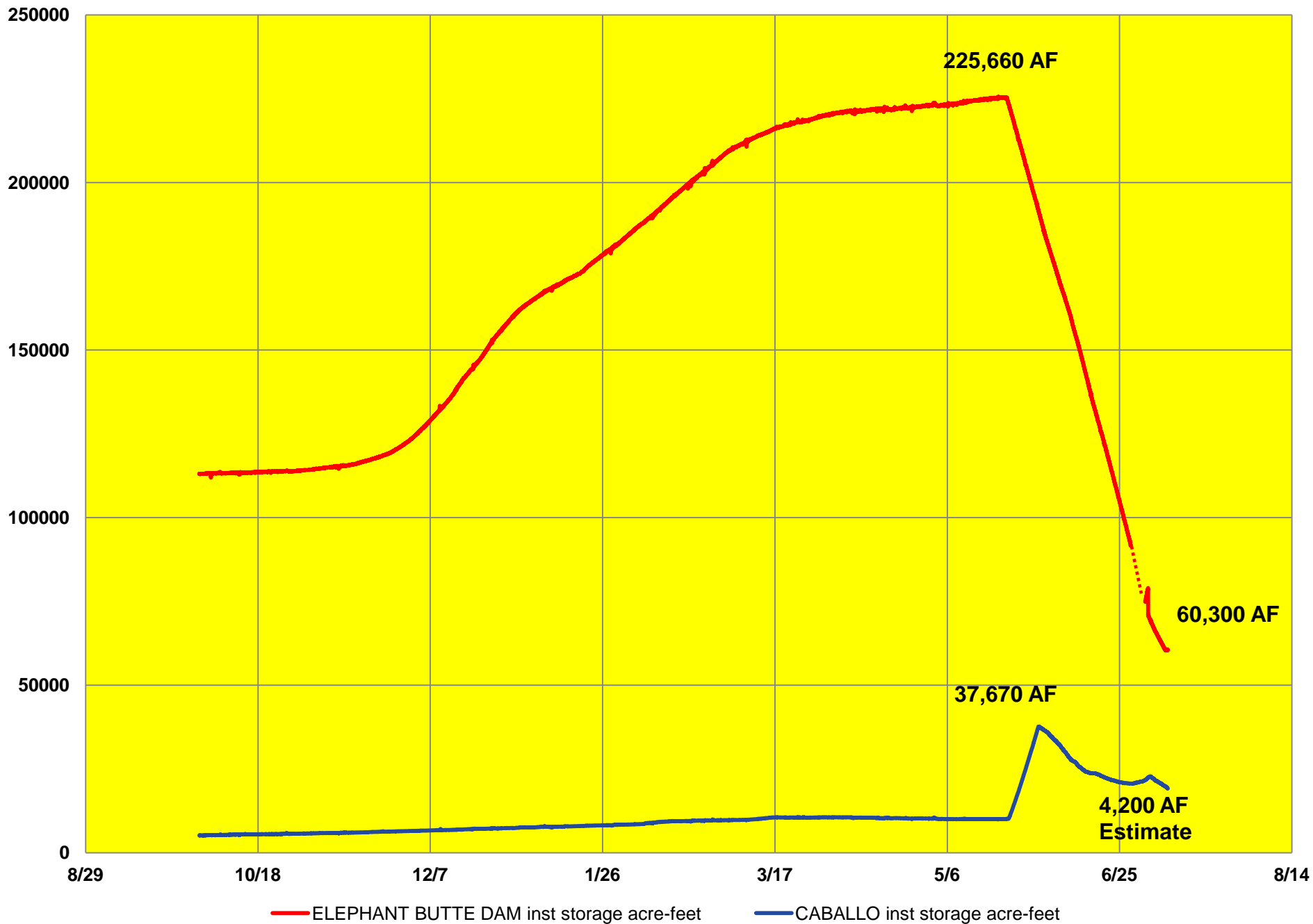
2013 Caballo & EB Reservoir *Storage & *Release Operations

Caballo Elephant Butte Caballo Release EB Release

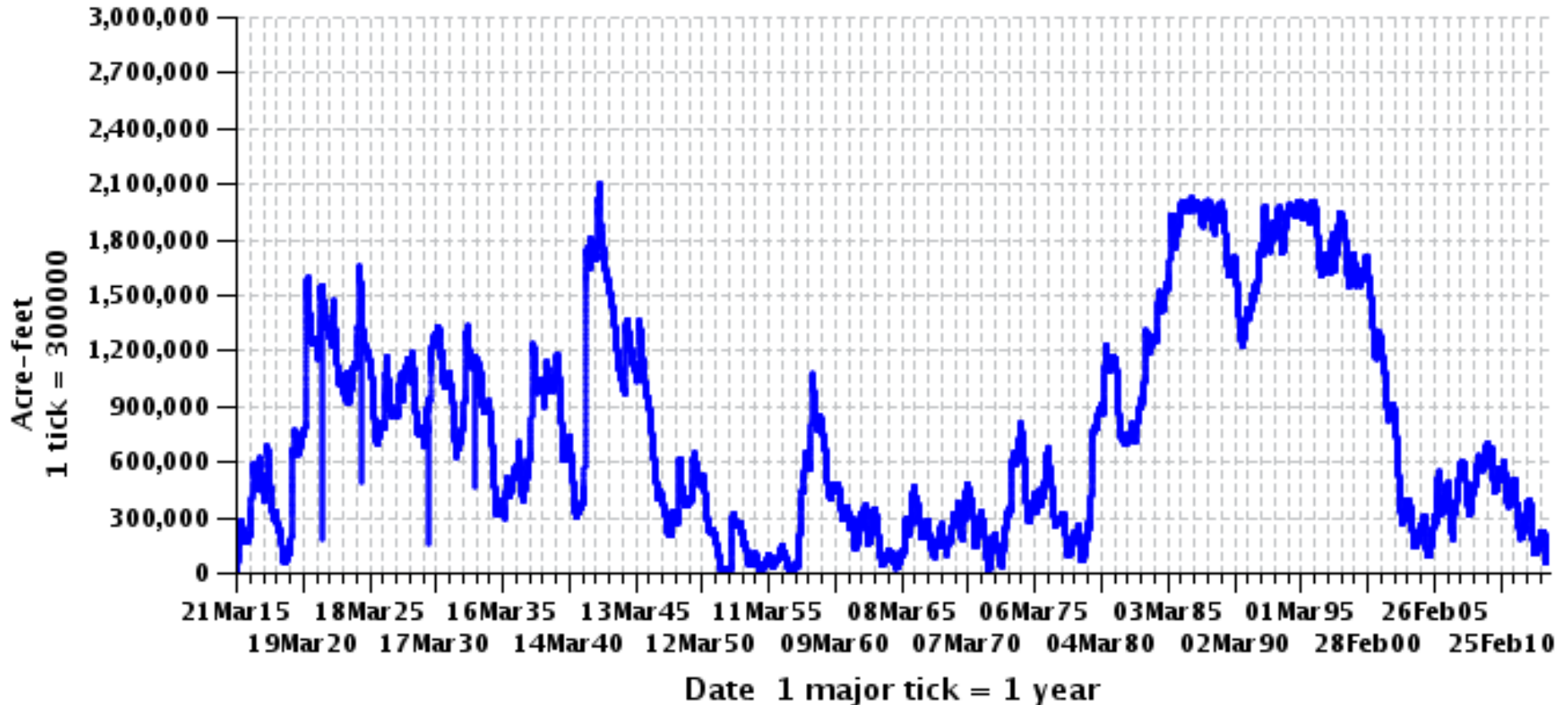


*End Date Estimated

Elephant Butte & Caballo Reservoir Storage (AF) 2013



Elephant Butte Historical Storage



RECLAMATION

2012 Summary

- April 2012 – 412 KAF Total – 283.5 KAF Usable
- Initial Allocation – 19% of a full Supply
- SM Inflow – 123 KAF (Mar-July)
- Total Caballo Release – 371.3 KAF

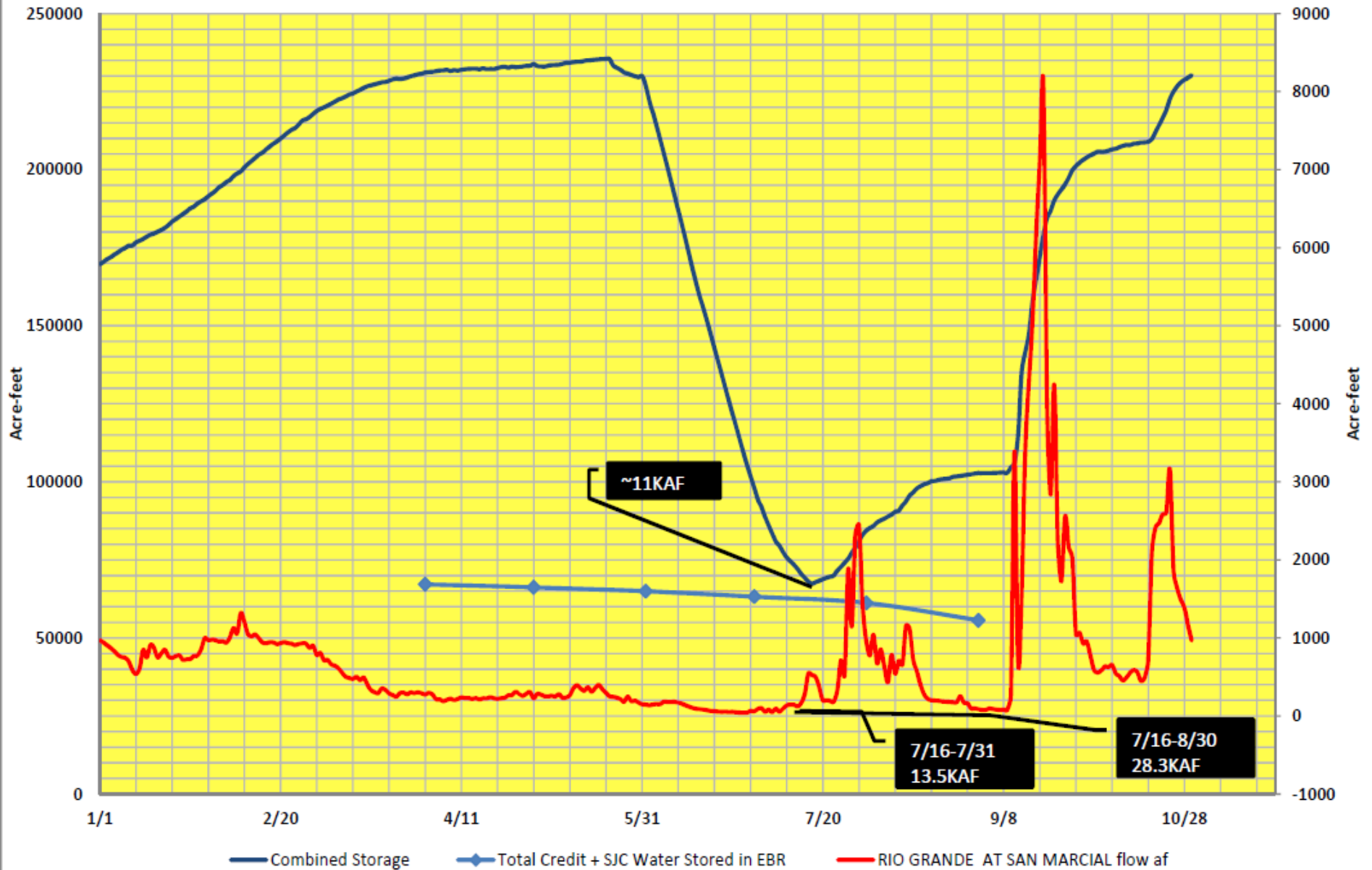
2013 Summary

- April 2013 – 218 KAF Total – 153 KAF Usable
- Initial Allocation – 6% of a full Supply
- SM Inflow – 32.8 KAF (Mar-July)
- Prelim. Caballo Release ~ 169 KAF

2013	Allocation	Irrigation Season		
	Acre-Feet	Begin	End	Duration (Days)
EBID	58,705	June 1st	July 8th	37
EPCWID1	48,333	June 6th	July 21st	45
MEXICO	3,665	June 10th	June 28th	18



2013 Combined Storage (EBR+CR) & San Marcial Combined Flow



El Paso Field Division Office

Rio Grande Project

Releases: Year-To-Date (cfs)

Daily Morning Report

Elephant Butte Reservoir: 86,939

Caballo Reservoir: 85,799

Water Flow (Last Updated) : 2013-11-18

Rio Grande Basin - Reservoir Data

Reservoir Data	Elevation (FT*)	Releases (CFS**)	Storage (AF*)	Computed Inflow (CFS**)
ELEPHANT BUTTE RES	4,313.23	0	213,464	706
CABALLO RESERVOIR	4,143.29	1	38,649	50
Total Rio Grande Project Storage			252,113	
Rio Grande Compact Credit Water			24,267	
San Juan-Chama Water			33,337	
Rio Grande Project Usable Water			194,509	

**** Unless otherwise noted: Preliminary Data ... All Data Subject To Revision ****

Rio Grande Basin - River Gauging Stations

River Gauging Stations	Time	GH (ft)	Spot Readings Flow (cfs)		24-Hour Average Flow (cfs)	
			Flow (cfs)		Flow (cfs)	
			Order	Actual	Order	Actual
SAN MARCIAL FLOODWAY	0:00 AM	16.16	N/A	605	N/A	550
SAN MARCIAL CONV. CHANNEL	0:00 AM	9.7	N/A	153	N/A	154
TOTAL				758		704

Questions?



RECLAMATION