RECLAMATION

Managing Water in the West

RIO GRANDE PROJECT

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

U. S Dept. of the Interior
Bureau of Reclamation

RECLAMATION

Managing Water in the West

RIO GRANDE PROJECT

2008 ANNUAL OPERATING PLAN BRIEFING

U. S Dept. of the Interior
Bureau of Reclamation

RECLAMATION

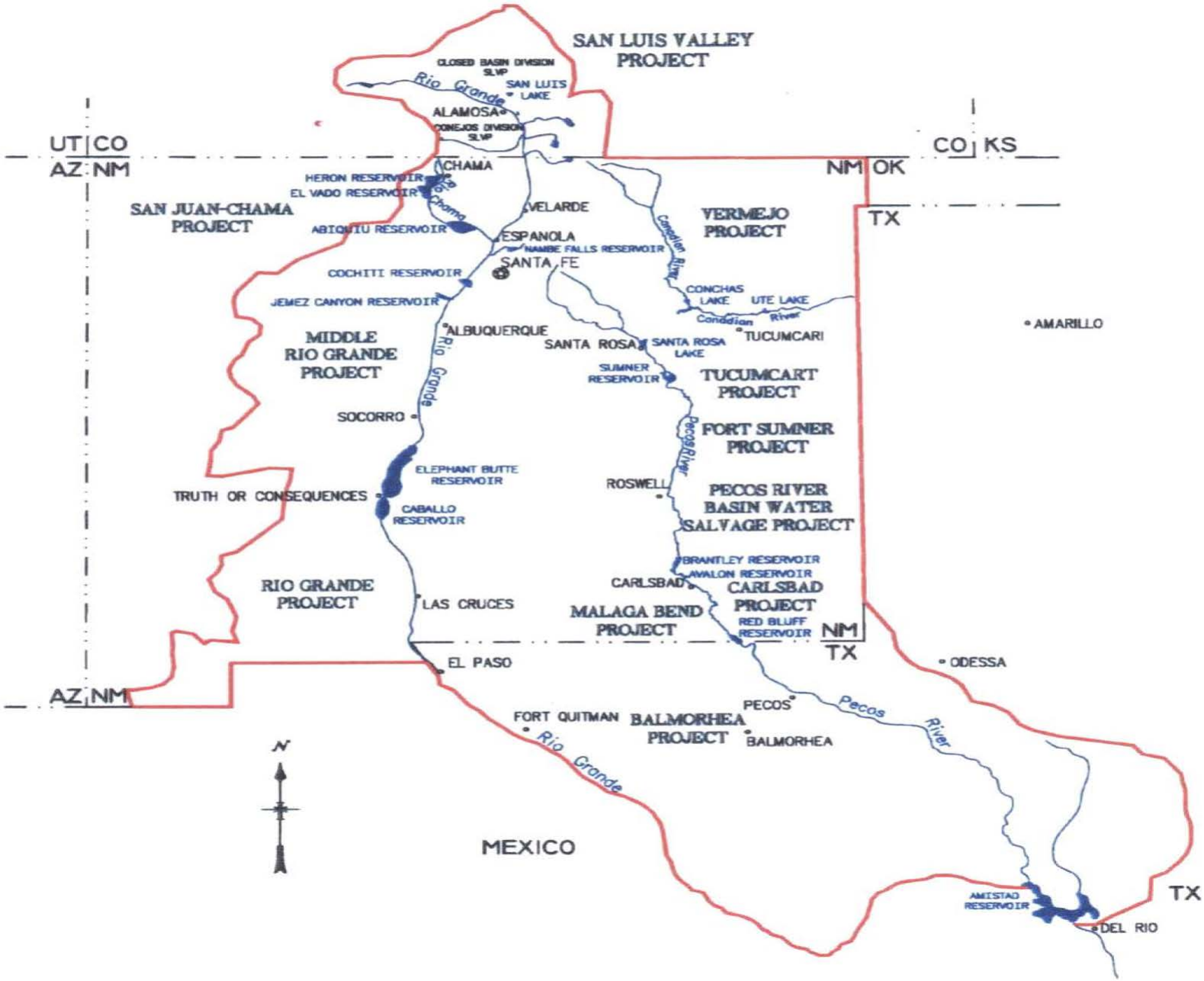
Managing Water in the West

RIO GRANDE PROJECT

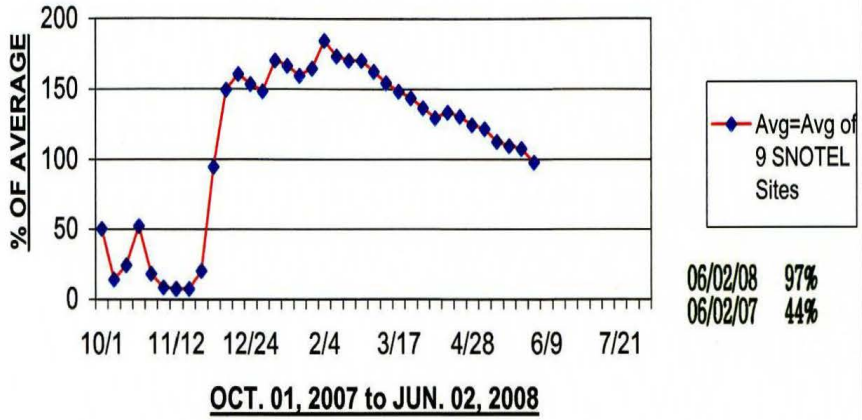
CURRENT HYDROLOGIC CONDITIONS OF UPPER RIO GRANDE BASIN

U. S Dept. of the Interior
Bureau of Reclamation

ALBUQUERQUE AREA OFFICE
BUREAU OF RECLAMATION



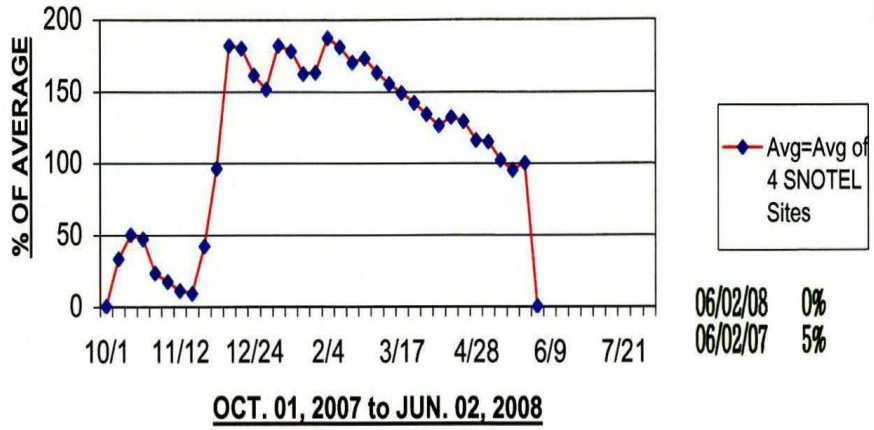
% OF AVG. SNOW WATER EQUIVALENT vs TIME
Upper Rio Grande Basin (Basin Avg.)



06/02/08 97%
06/02/07 44%

OCT. 01, 2007 to JUN. 02, 2008

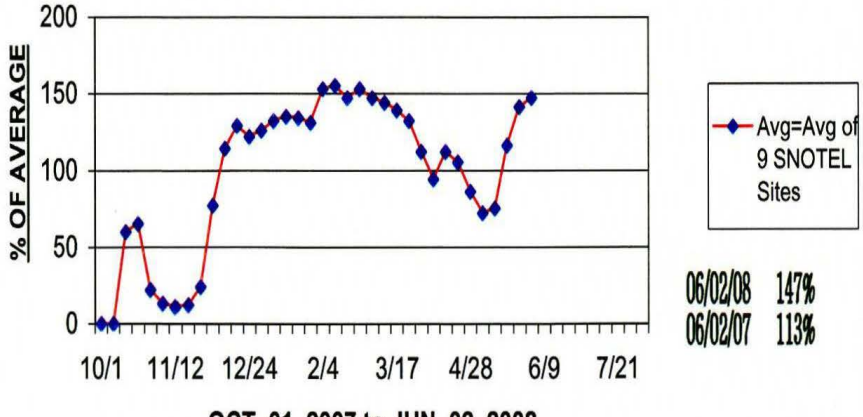
% OF AVG. SNOW WATER EQUIVALENT vs TIME
Rio Chama Basin (Basin Avg.)



06/02/08 0%
06/02/07 5%

OCT. 01, 2007 to JUN. 02, 2008

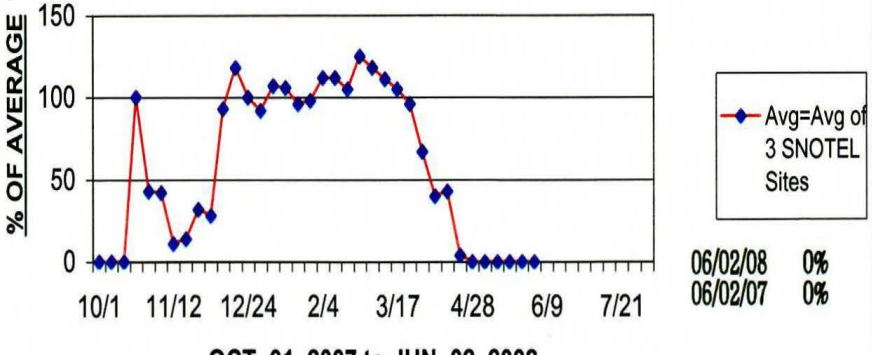
% OF AVG. SNOW WATER EQUIVALENT vs TIME
Sangre de Cristo Mtn Basins (Basin Avg.)



06/02/08 147%
06/02/07 113%

OCT. 01, 2007 to JUN. 02, 2008

% OF AVG. SNOW WATER EQUIVALENT vs TIME
Jemez River Basin (Basin Avg.)



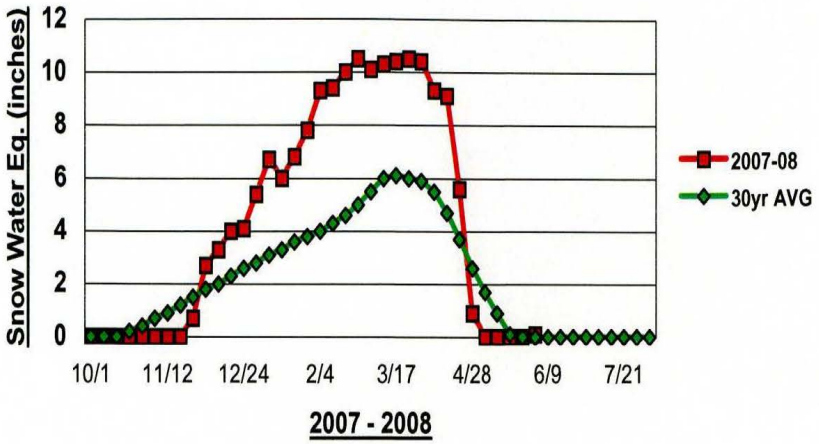
06/02/08 0%
06/02/07 0%

OCT. 01, 2007 to JUN. 02, 2008

UNITED STATES
DEPARTMENT OF INTERIOR

UPPER RIO GRANDE SNOTEL

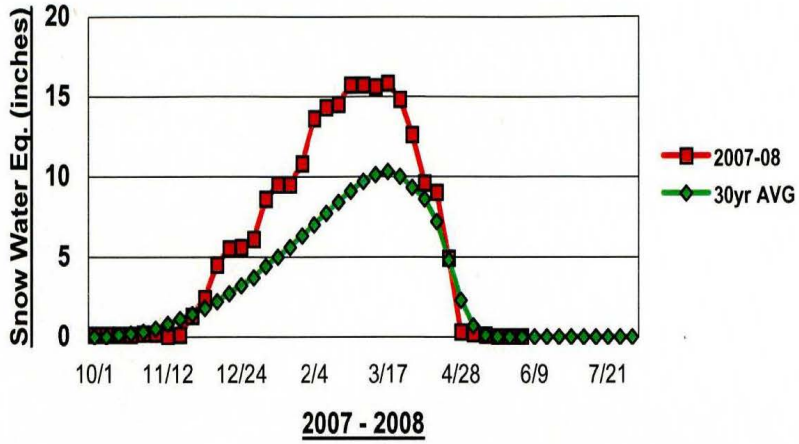
Elevation: 9,400 FT



2007 - 2008

CHAMITA SNOTEL

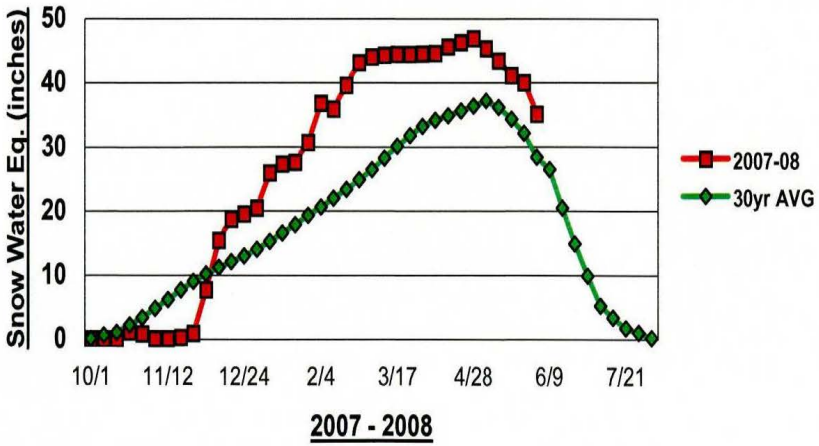
Elevation: 8,400 FT



2007 - 2008

WOLF CREEK SUMMIT SNOTEL

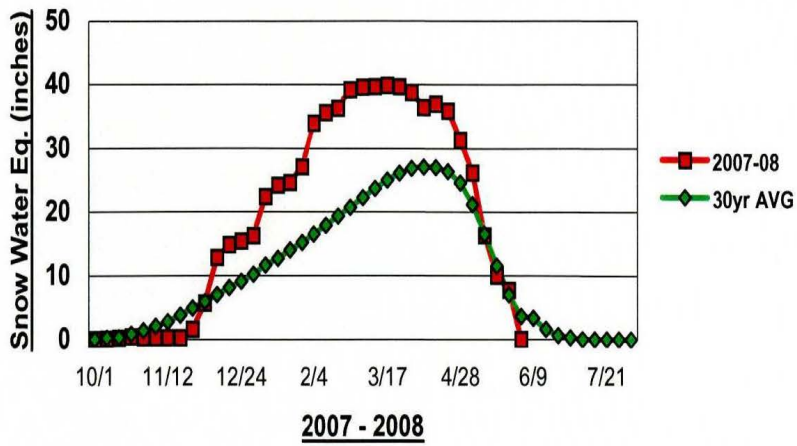
Elevation: 11,000 FT



2007 - 2008

CUMBRES TRESTLE SNOTEL

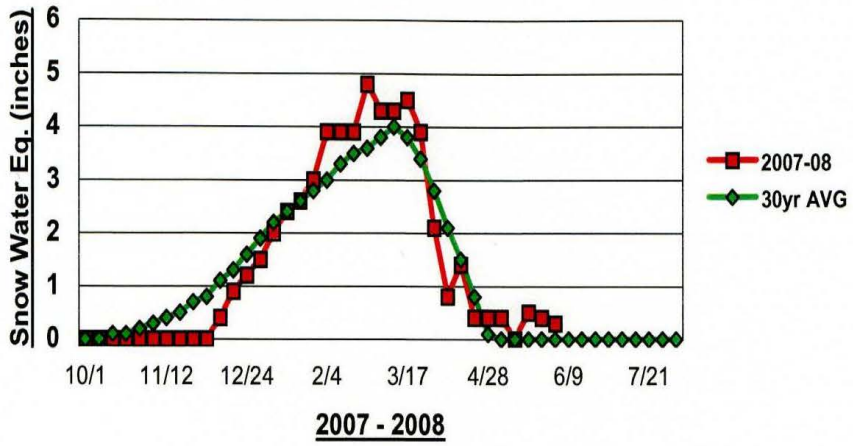
Elevation: 10,040 FT



2007 - 2008

ELK CABIN SNOTEL

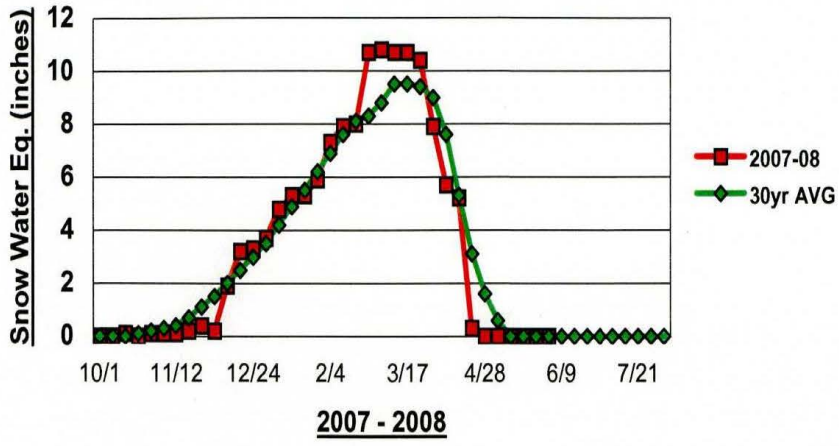
Elevation: 8,210 FT



2007 - 2008

SENORITA DIVIDE #2 SNOTEL

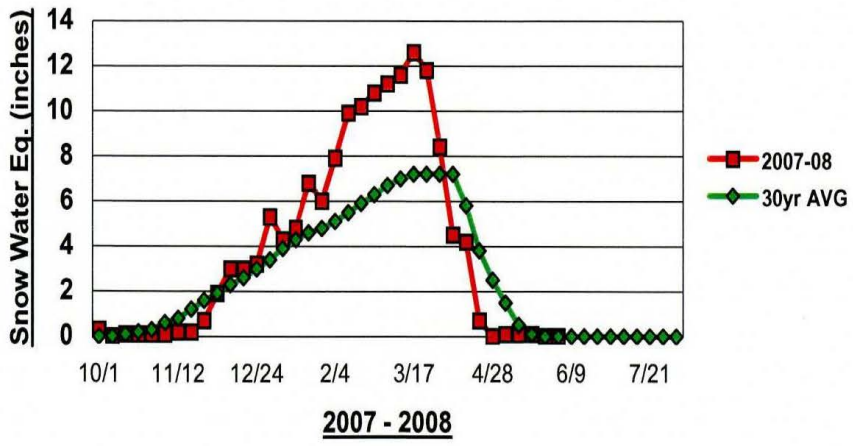
Elevation: 8,600 FT



2007 - 2008

RED RIVER PASS #2 SNOTEL

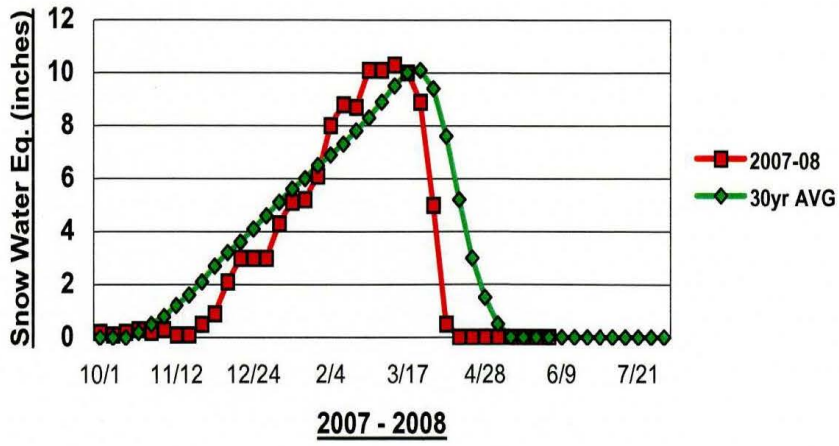
Elevation: 9,850 FT



2007 - 2008

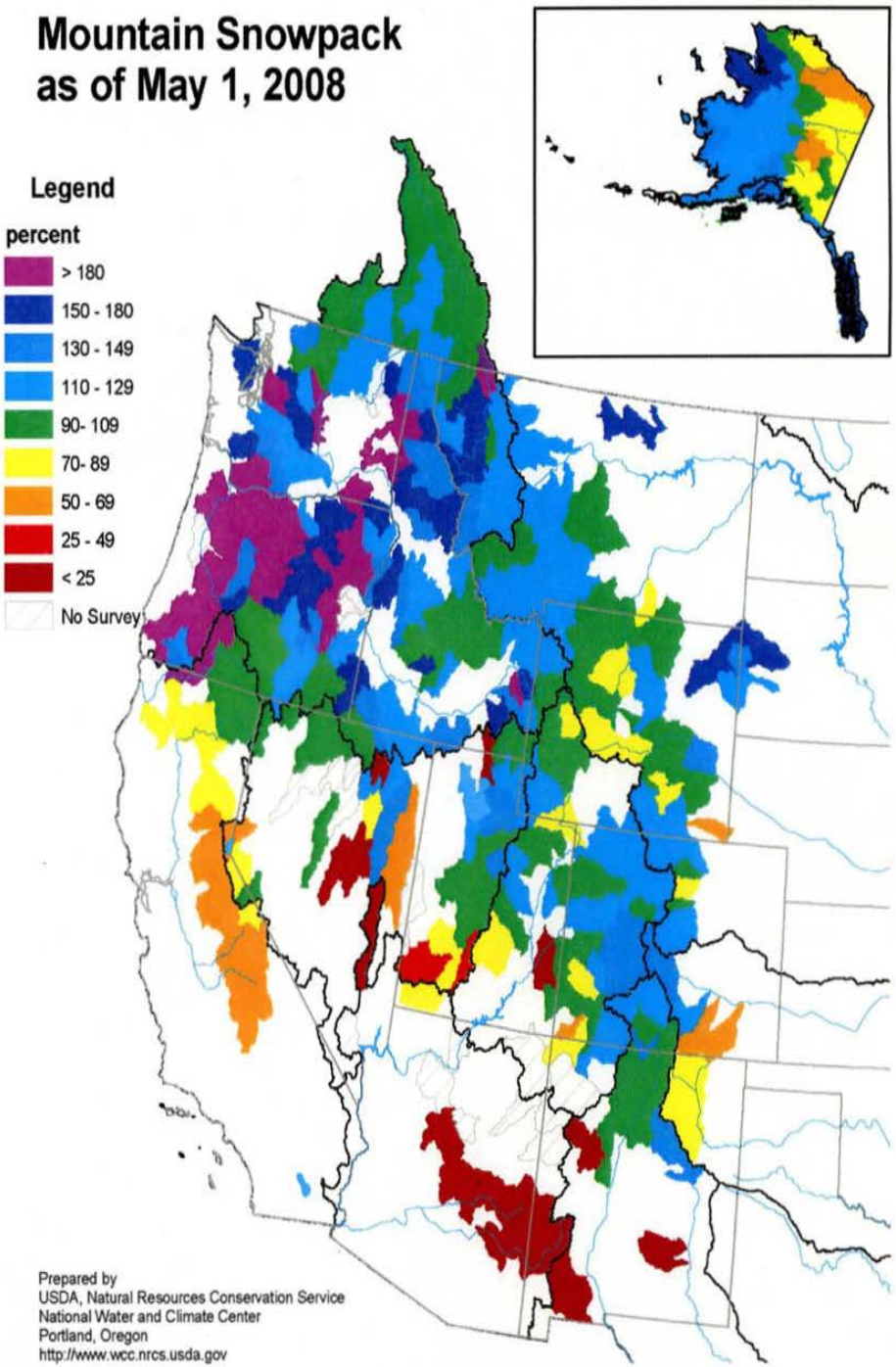
QUEMAZON SNOTEL

Elevation: 9,500 FT



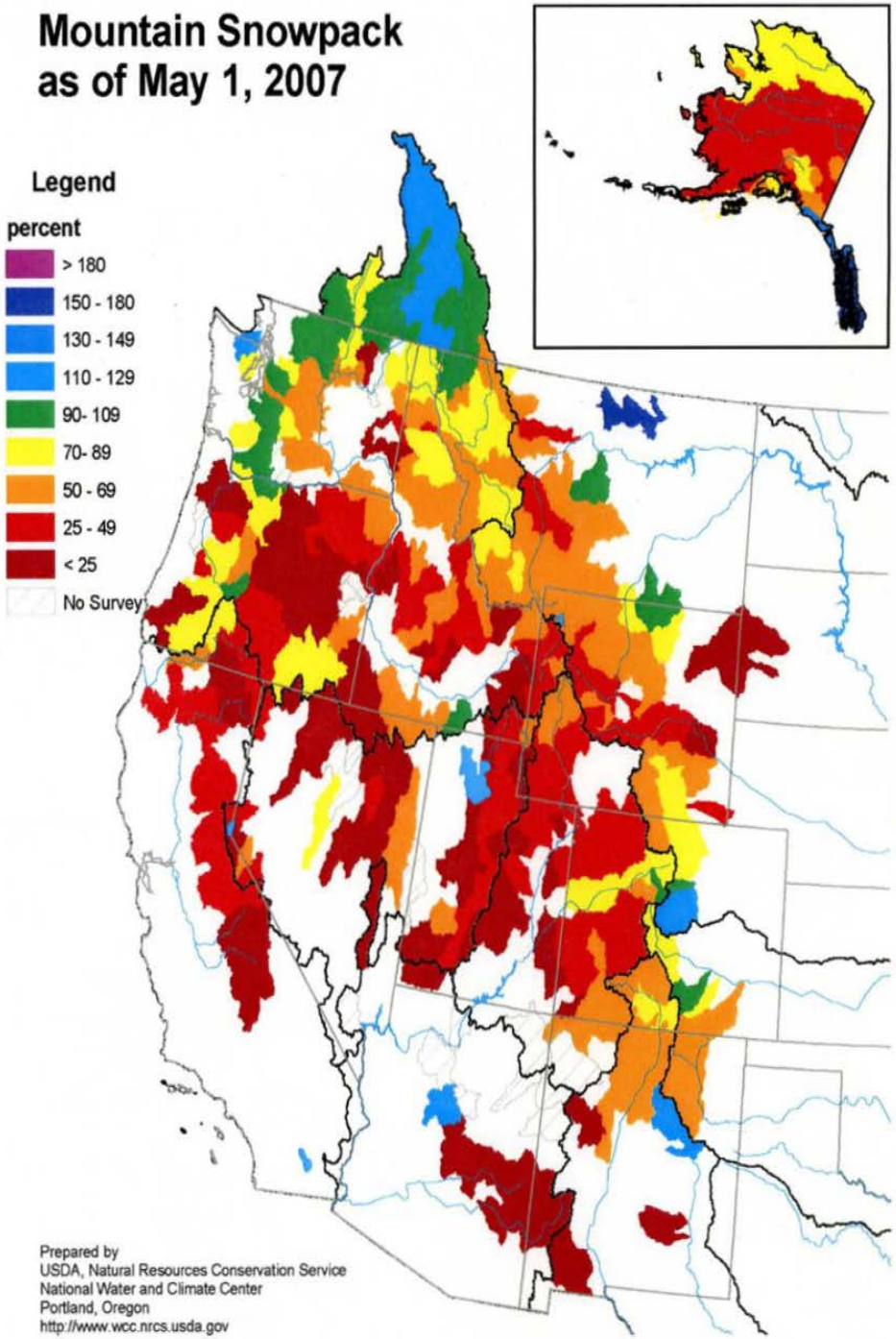
2007 - 2008

Mountain Snowpack as of May 1, 2008



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, 2007



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

SPRING RUNOFF FORECASTS

2008

RIO GRANDE BASIN

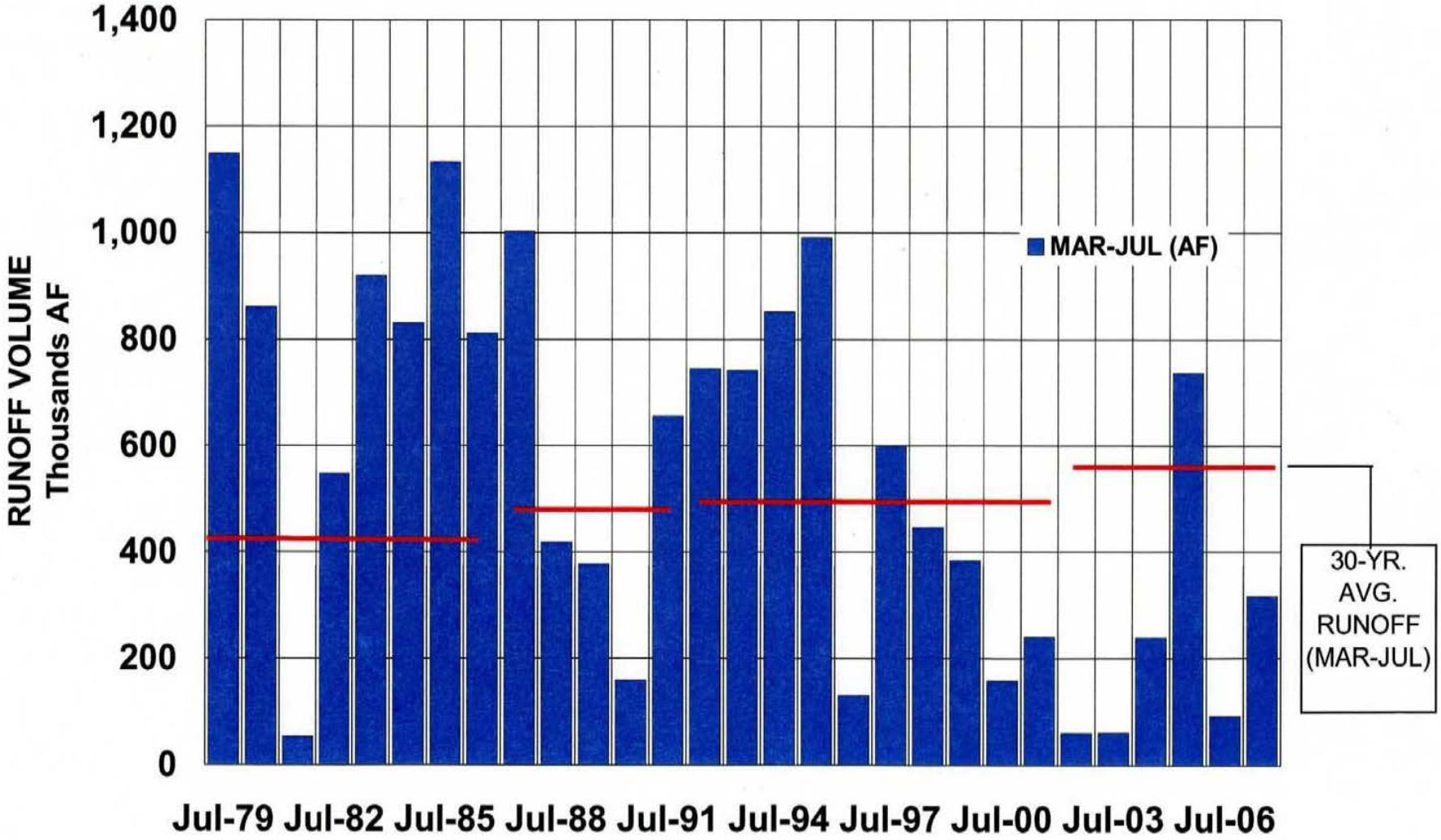
(ACRE-FEET)

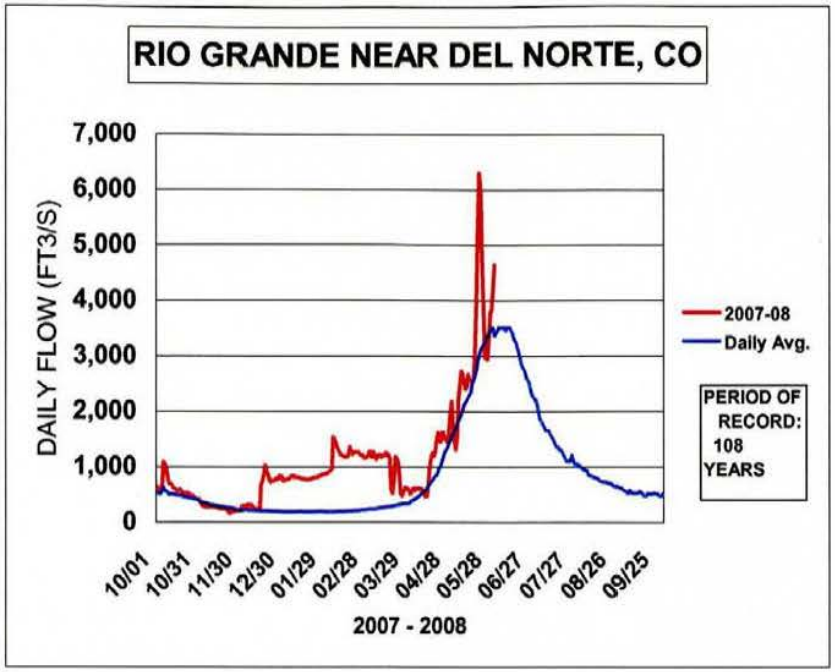
FORECAST POINT	Rio Grande nr Del Norte	Rio Chama at El Vado Reservoir	Rio Grande at Otowi Bridge	Jemez River at Jemez Canyon Reservoir	Rio Grande at San Marcial
FORECAST PERIOD	APR-SEP	MAR-JUL	MAR-JUL	MAR-JUL	MAR-JUL
30-YEAR AVERAGE RUNOFF *	531,000	237,000	757,000	45,000	**573,000**
JANUARY 1 FORECAST	**690,000** 130%	**295,000** 124%	**940,000** 124%	**36,000** 80%	**750,000** 131%
FEBRUARY 1 FORECAST	**790,000** 149%	**390,000** 165%	**1,300,000** 172%	**50,000** 111%	**1,050,000** 183%
MARCH 1 FORECAST	**850,000** 160%	**400,000** 169%	**1,380,000** 182%	**52,000** 116%	**1,150,000** 201%
APRIL 1 FORECAST	**745,000** 140%	**375,000** 158%	**1,170,000** 155%	**41,000** 91%	**980,000** 171%
MAY 1 FORECAST **	**680,000** 128%	**330,000** 139%	**1,040,000** 137%	**36,000** 80%	**695,000** 121%
MAY 1, 2007	**385,000** 73%	**149,000** 63%	**450,000** 59%	**29,000** 64%	**255,000** 45%

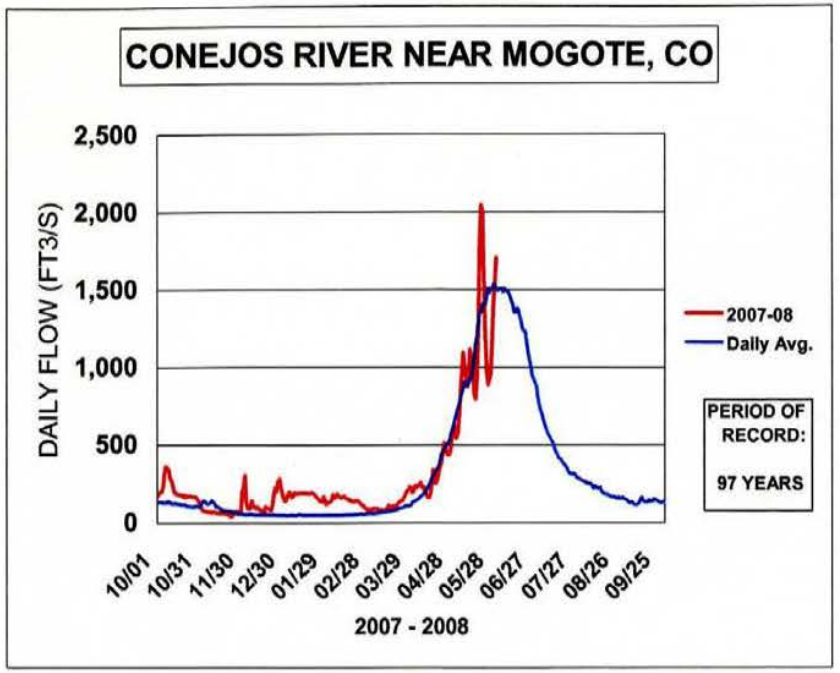
* based on 1971-2000 runoff data.

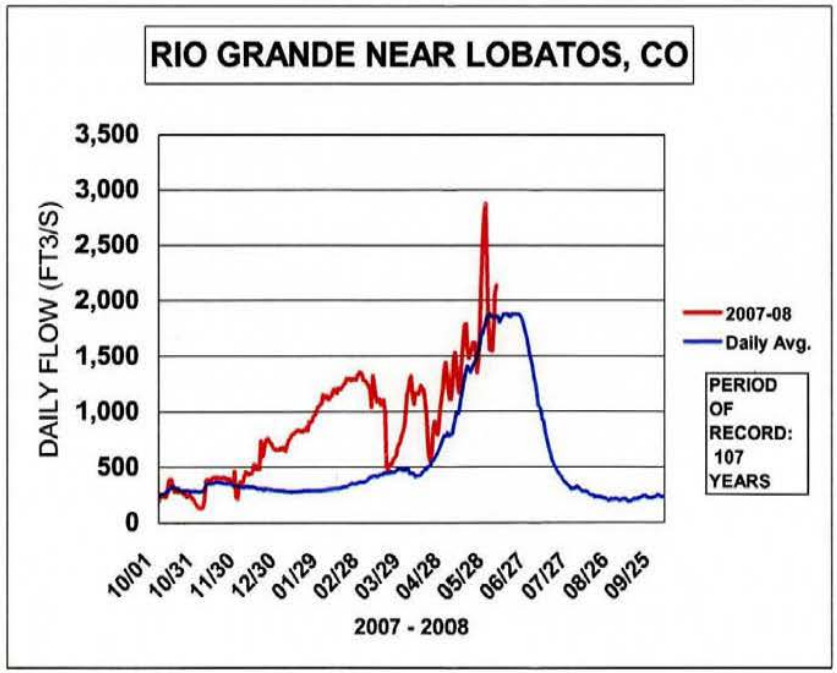
** last official forecast for 2008 spring runoff.

HISTORICAL RUNOFF - SAN MARCIAL
1979 - 2007

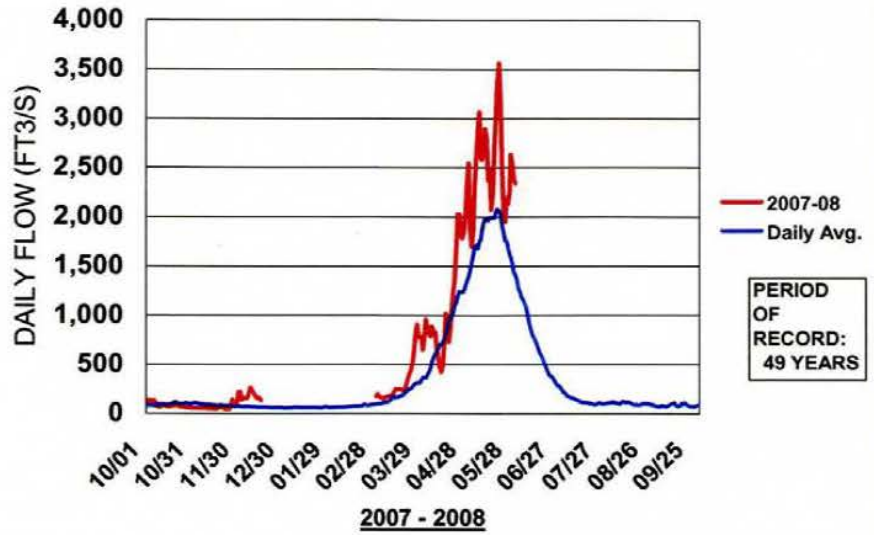



RIO GRANDE NEAR DEL NORTE, CO
DAILY FLOW (FT3/S)
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
PERIOD OF RECORD: 108 YEARS

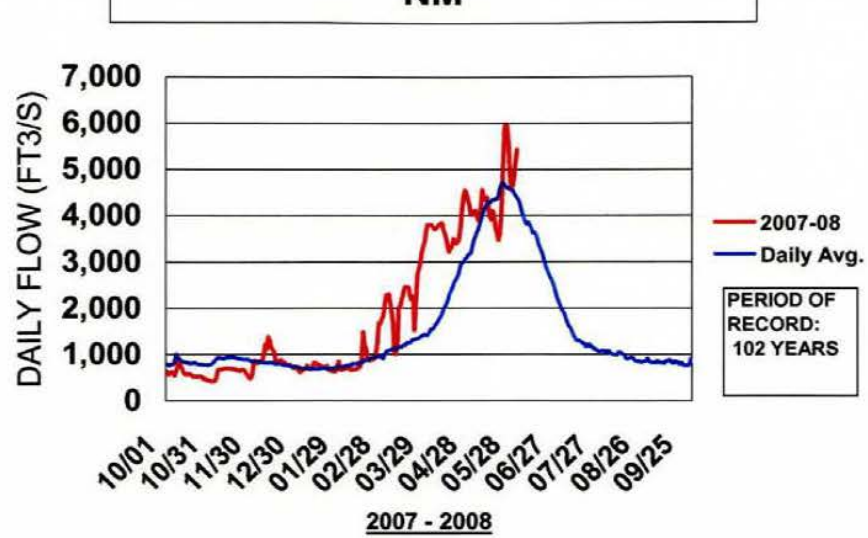

CONEJOS RIVER NEAR MOGOTE, CO
DAILY FLOW (FT3/S)
2,500
2,000
1,500
1,000
500
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
PERIOD OF RECORD: 97 YEARS


RIO GRANDE NEAR LOBATOS, CO
DAILY FLOW (FT3/S)
3,500
3,000
2,500
2,000
1,500
1,000
500
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
PERIOD OF RECORD: 107 YEARS

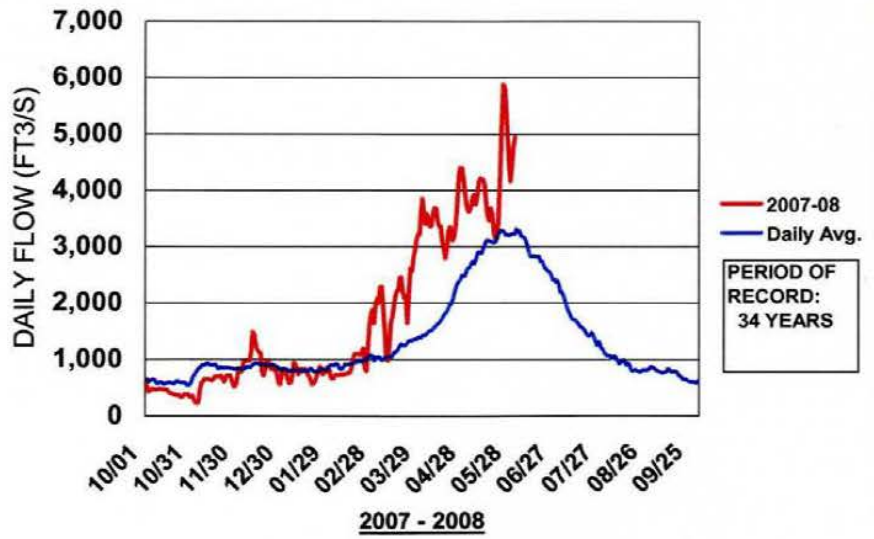
RIO CHAMA NEAR LA PUENTE, NM



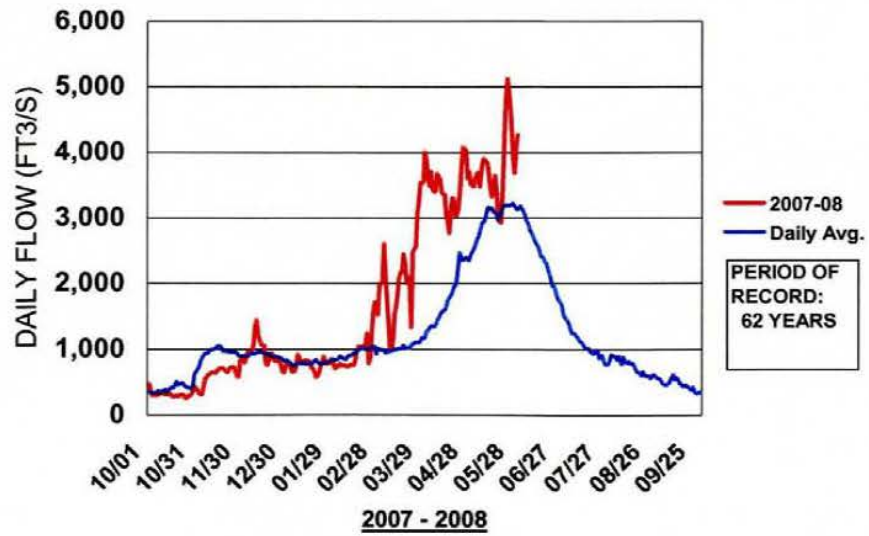
RIO GRANDE AT OTOWI BRIDGE, NM



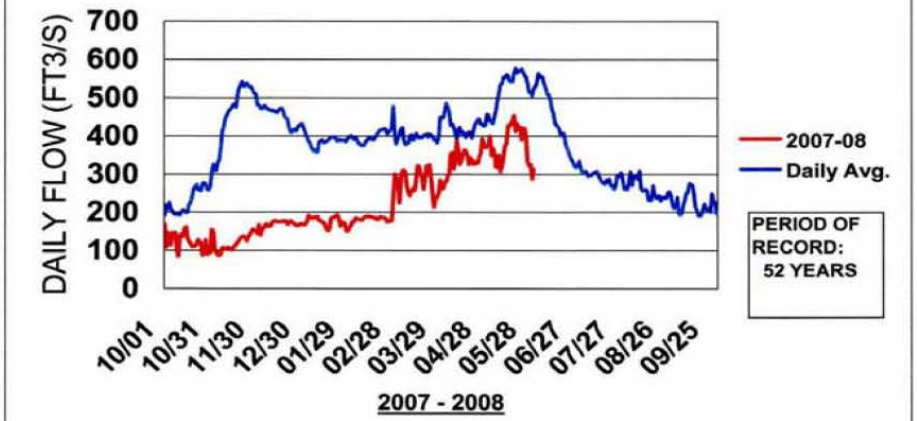
RIO GRANDE BLW COCHITI DAM, NM



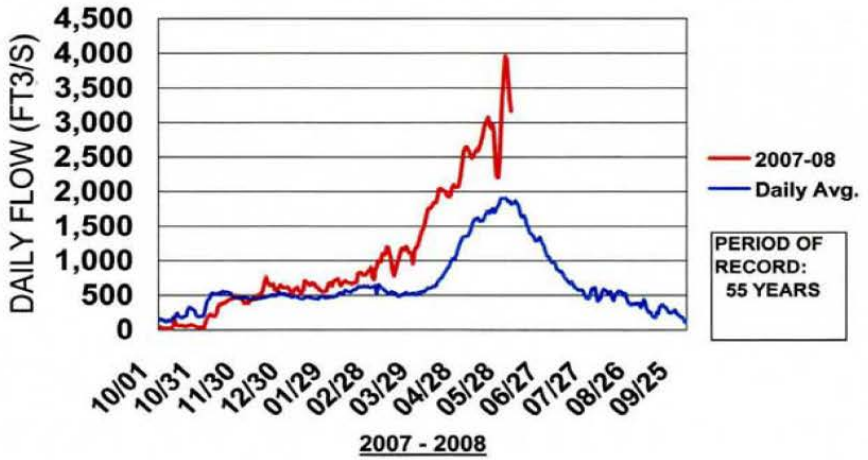
RIO GRANDE AT ALBUQUERQUE, NM



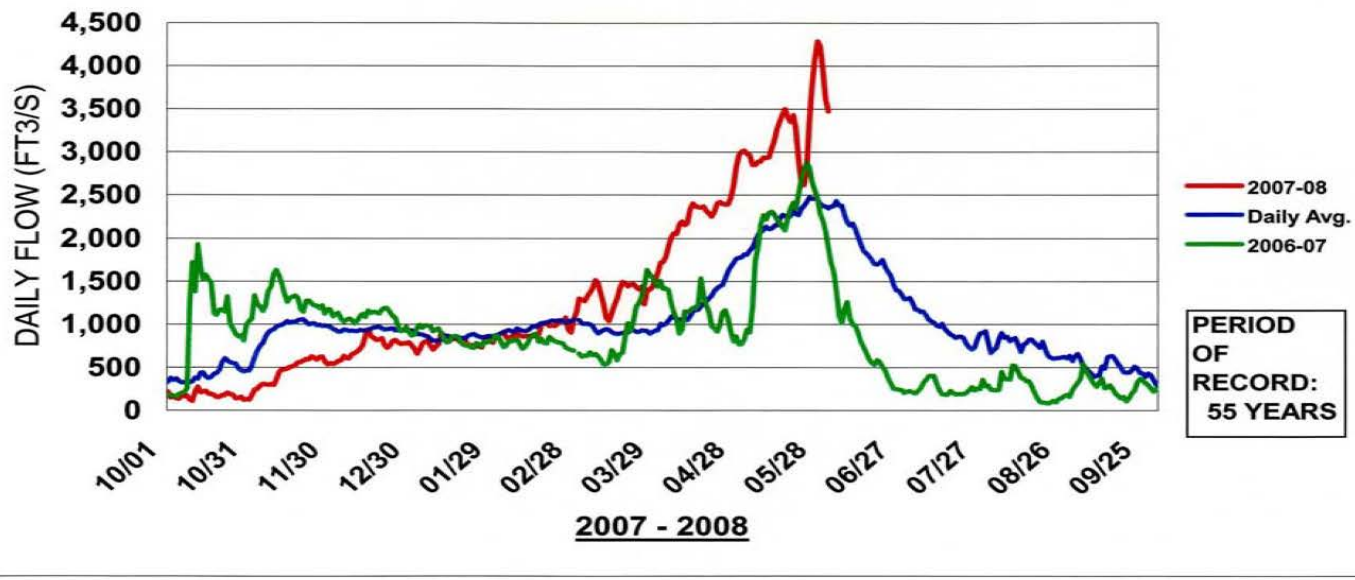
RIO GRANDE AT SAN MARCIAL,NM LOW FLOW CONVEYANCE CHANNEL

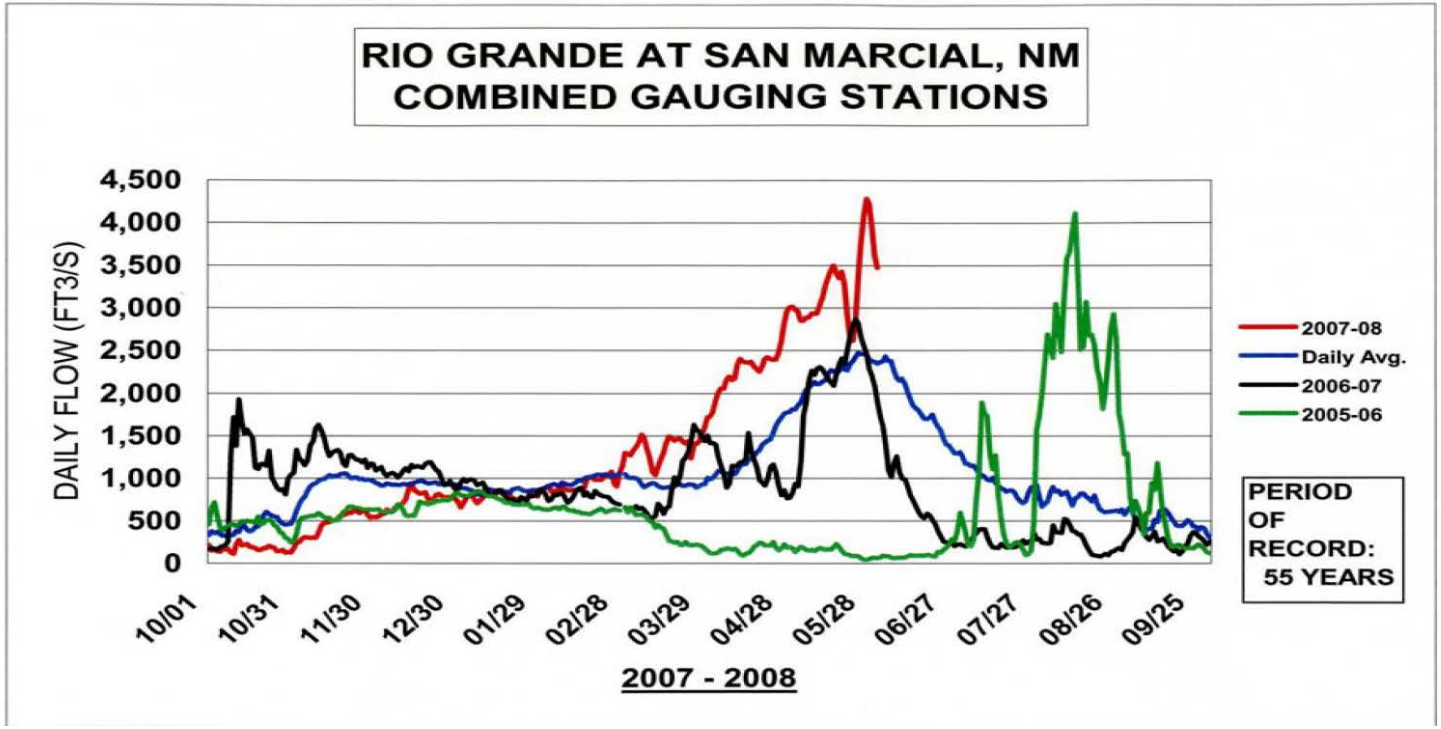


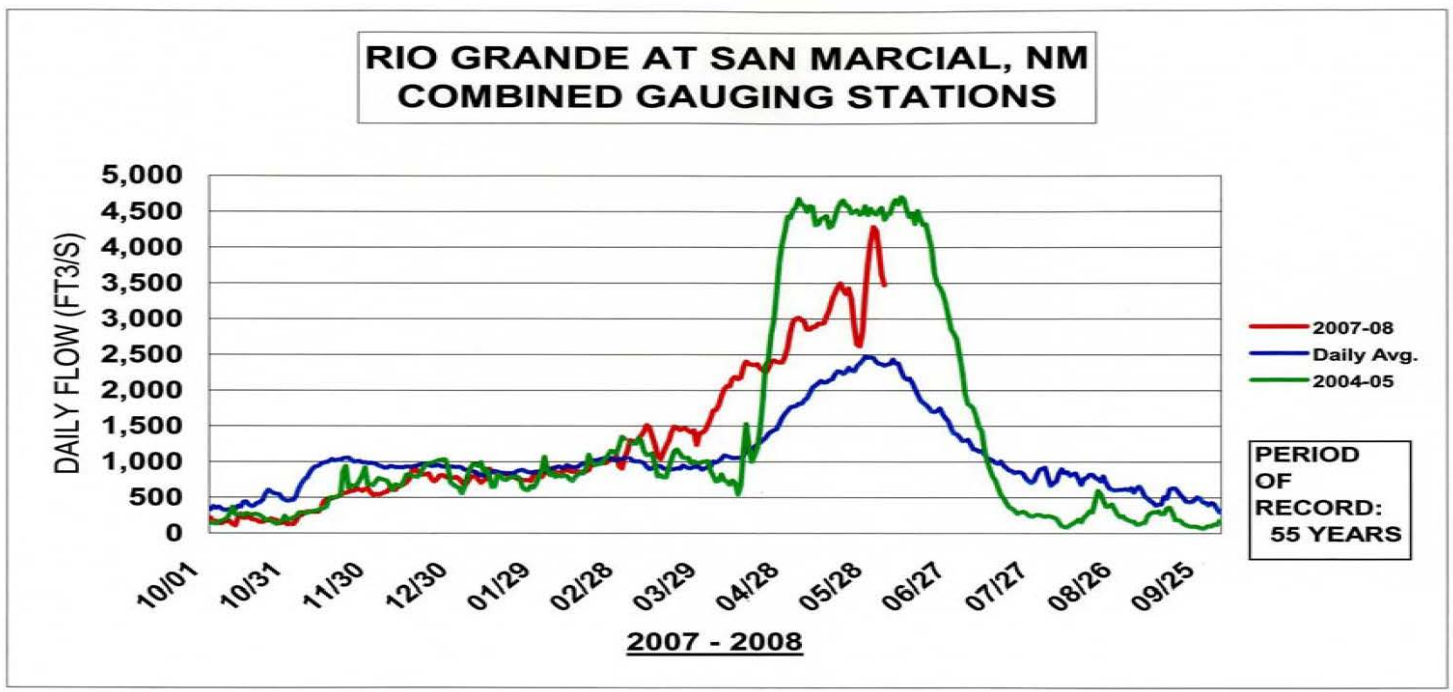
RIO GRANDE AT SAN MARCIAL,NM FLOODWAY



RIO GRANDE AT SAN MARCIAL, NM COMBINED GAUGING STATIONS




RIO GRANDE AT SAN MARCIAL, NM
COMBINED GAUGING STATIONS
DAILY FLOW (FT3/S)
4,500
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
2006-07
2005-06
PERIOD OF RECORD: 55 YEARS


RIO GRANDE AT SAN MARCIAL, NM
COMBINED GAUGING STATIONS
DAILY FLOW (FT3/S)
5,000
4,500
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
10/01
10/31
11/30
12/30
01/29
02/28
03/29
04/28
05/28
06/27
07/27
08/26
09/25
2007 - 2008
2007-08
Daily Avg.
2004-05
PERIOD OF RECORD: 55 YEARS

RECLAMATION

Managing Water in the West

RIO GRANDE PROJECT

INFLOW TO ELEPHANT BUTTE RESERVOIR AT SAN MARCIAL STATIONS

	2007			2008				
Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
10,217	27,189	44,941	48,363	53,726	84,367	137,429	199,521	605,753
Avg. 30,000	59,000	60,000	47,000	48,000	60,000	120,000	195,000	619,000

Mar.-Jul. 2007 = 55.3% of average (316,976 AF)

Mar. 2008 – May 2008 = 112.4% of average

Oct. 2007 – Feb. 2008 = 75.6% of average

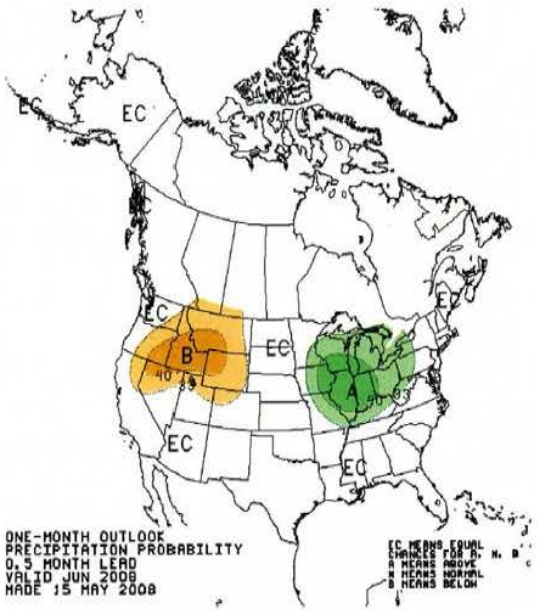
Projected Mar. 2008 – Jul. 2008 = 132.0% of average

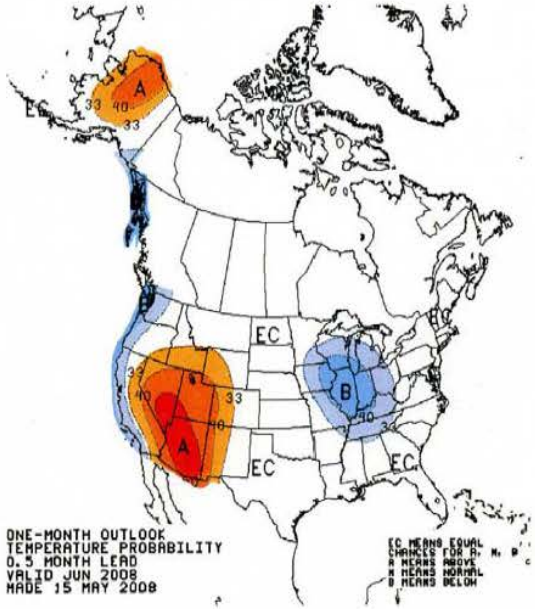
2008

Precipitation

Temperature

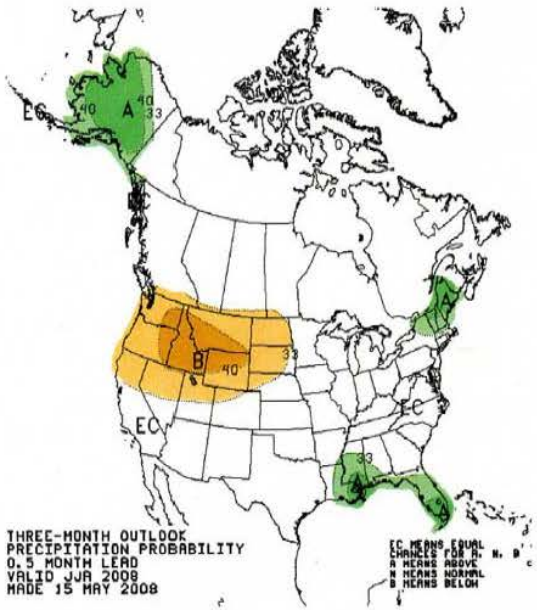
Jun08

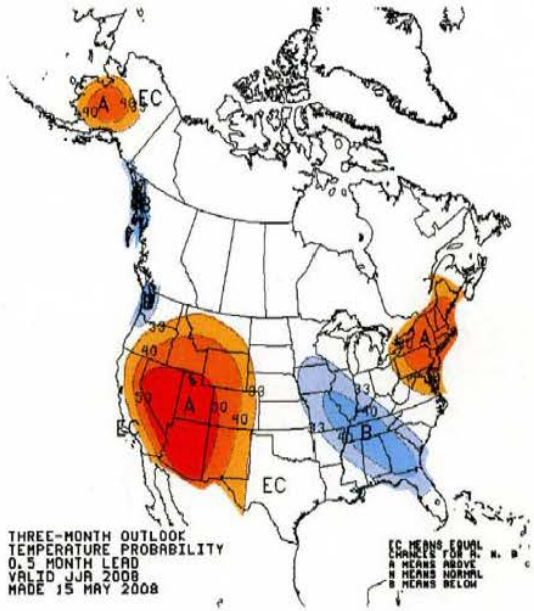




Jun08

Jun08-Aug08





Jun08-Aug08

RECLAMATION

Managing Water in the West

RIO GRANDE PROJECT

CURRENT RESERVOIR CONDITIONS

U. S Dept. of the Interior
Bureau of Reclamation

BUREAU OF RECLAMATION
RIO GRANDE PROJECT
EL PASO, TX

2008 OPERATIONAL DATA STATUS

ELEPHANT BUTTE RESERVOIR

			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 (%)
TODAY'S DATE:	**Wednesday,**	**June 04, 2008**	**4348.34**		**58.66**	**619,442**	**31.39%**	**14,496**	**41.18%**
2007 HIGH POINT:	**Monday,**	**March 26, 2007**	**4347.76**		**59.24**	**611,063**	**30.58%**	**14,395**	**40.45%**
2007 LOW POINT:	**Wednesday,**	**October 24, 2007**	**4324.40**		**82.60**	**323,488**	**16.19%**	**10,270**	**28.85%**
Gates Closed Oct. 25, 2007									
2006 LOW POINT:	Friday,	July 28, 2006	4308.50		98.50	183,875	9.32%	7,228	20.54%
2005 LOW POINT:	Saturday,	January 01, 2005	4309.94		97.06	194,426	9.73%	7,426	20.86%
2004 LOW POINT:	Friday,	September 24, 2004	4294.04	*	112.96	94,615	4.79%	4,935	14.02%

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

CABALLO RESERVOIR

TODAY'S DATE:	**Wednesday,**	**June 04, 2008**	**4145.36**		**27.08**	******	**47,059**	**20.76%**	**3,814**	**40.78%**
2007 HIGH POINT:	**Wednesday,**	**May 23, 2007**	**4151.88**		**20.56**	******	**76,662**	**33.82%**	**5,243**	**56.07%**
2007 LOW POINT:	**Tuesday,**	**October 16, 2007**	**4132.72**		**39.72**	******	**13,287**	**5.86%**	**1,814**	**19.39%**
Gates Closed Oct. 26, 2007.										
2006 FALL LOW PT.:	Sunday,	October 08, 2006	4141.98		30.46	**	35,351	15.60%	3,121	33.37%
Gates Closed Oct. 10, 2006.										
2005 LOW POINT:	Thursday,	October 13, 2005	4131.26		41.18	**	10,744	4.74%	1,670	17.86%
Gates Closed Oct. 14, 2005.										
2004 GATES CLOSED:	Tuesday,	September 28, 2004	4134.10		38.34	**	15,883	7.01%	1,949	20.84%

** Feet below top of conservation pool.

RECLAMATION

Managing Water in the West

RIO GRANDE PROJECT

2008 RESERVOIR OPERATIONS AND PROJECT WATER SUPPLY

U. S Dept. of the Interior
Bureau of Reclamation

RIO GRANDE PROJECT RESERVOIR OPERATIONS — PRELIMINARY SUBJECT TO REVIEW — 12-May-08

BASED ON 2008 MARCH THROUGH JULY WATER SUPPLY OUTLOOK REPOR May 1

2008 MAR-JUL @ SAN MARCIAL (NRCS forecast) 121% 695 KAF
2008 MAR-JUL @ SAN MARCIAL (regulated forecast) 132% 755 KAF

** Based on 30-yr (1971-2000)avg of 573,000 Acre-feet.

* Actual historical data

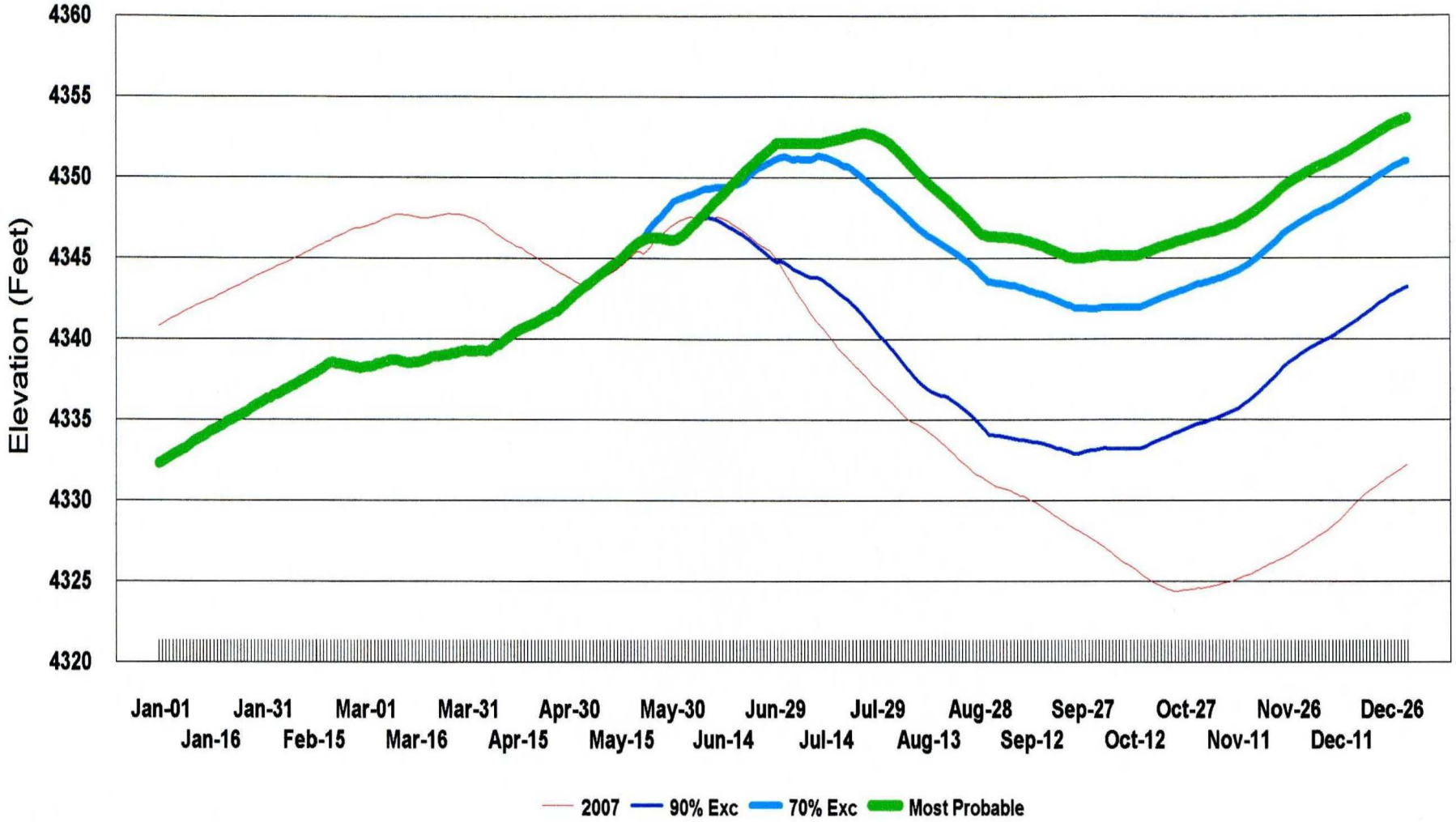
	YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE EVAP	ELEPHANT BUTTE CONTENT	ELEPHANT BUTTE RELEASE	<=== CABALLO EVAP	CABALLO LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	
	2007														2007
*	JAN	38	-14	52	5	2	558	1	1	-3	0	0	0	45	JAN
*	FEB	40	-3	44	-1	4	598	0	1	-2	0	0	0	47	FEB
*	MAR	86	28	57	-14	7	609	54	1	4	76	0	76	19	MAR
*	APR	73	8	66	-15	10	556	124	2	6	74	0	74	61	APR
*	MAY	161	29	133	4	10	601	73	3	6	56	0	56	68	MAY
*	JUN	84	38	46	-11	14	571	73	4	-7	104	0	104	40	JUN
*	JUL	50	34	16	-13	11	461	128	3	1	105	0	105	59	JUL
*	AUG	44	29	15	-15	9	397	86	3	4	105	0	105	33	AUG
*	SEP	40	23	17	-12	7	358	61	1	0	77	0	77	16	SEP
*	OCT	32	21	11	-5	6	326	42	1	-2	39	0	39	21	OCT
*	NOV	32	5	27	-4	4	352	0	1	-2	0	0	0	22	NOV
*	DEC	56	23	33	-27	3	409	0	1	-3	0	0	0	24	DEC
	TOTAL	736	221	515	-109	87		642	22	2	637	0	637		TOTAL
	AVG		Total Mar-Jul				483							38	AVG
		454	137	317	55%										

	YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE EVAP	ELEPHANT BUTTE CONTENT	ELEPHANT BUTTE RELEASE	<=== CABALLO EVAP	CABALLO LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	
	2008														2008
*	JAN	45	-3	48	-1	3	455	1	1	-2	0	0	0	26	JAN
*	FEB	57	3	54	-4	5	482	25	1	3	7	0	7	41	FEB
*	MAR	140	55	84	-32	8	495	95	2	7	89	0	89	38	MAR
*	APR	215	78	137	-33	12	536	117	3	6	95	0	95	51	APR
	MAY	281	127	154	-26	16	589	111	3	7	102	0	102	50	MAY
	JUN	243	16	227	-6	18	676	128	4	-6	130	0	130	50	JUN
	JUL	142	-10	152	-7	18	680	137	3	1	133	0	133	50	JUL
	AUG	119	71	48	-9	18	591	128	3	3	132	0	132	40	AUG
	SEP	70	23	47	-6	12	573	59	1	0	78	0	78	20	SEP
	OCT	57	17	40	-4	10	592	15	1	-2	24	0	24	11	OCT
	NOV	52	-7	59	1	5	645	0	1	-2	0	0	0	12	NOV
	DEC	53	-7	60	2	3	700	0	1	-3	0	0	0	14	DEC
	TOTAL	1473	362	1111	-124	128		817	24	13	790	0	790		TOTAL
	AVG		Total Mar-Jul				585							34	AVG
		1020	265	755	132%										

	YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE EVAP	ELEPHANT BUTTE CONTENT	ELEPHANT BUTTE RELEASE	<=== CABALLO EVAP	CABALLO LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	
	2009														2009
	JAN	40	-7	47	0	4	742	0	1	-3	0	0	0	16	JAN
	FEB	44	-4	48	-0	8	760	23	1	-2	0	0	0	40	FEB
	MAR	75	15	60	-1	10	683	128	2	2	119	0	119	45	MAR
	APR	157	37	120	-2	16	706	83	2	2	79	0	79	45	APR
	MAY	250	55	195	-4	18	787	100	3	2	90	0	90	50	MAY
	JUN	197	67	130	-6	24	762	137	4	2	131	0	131	50	JUN
	JUL	119	51	68	-7	18	683	136	4	-1	133	0	133	50	JUL
	AUG	78	34	44	-9	14	609	113	2	-3	124	0	124	40	AUG
	SEP	55	23	32	-6	12	578	57	1	-2	78	0	78	20	SEP
	OCT	47	17	30	-2	10	575	25	1	-2	35	0	35	11	OCT
	NOV	52	-7	59	2	5	627	0	1	-2	0	0	0	12	NOV
	DEC	53	-7	60	2	3	681	0	0	-3	0	0	0	14	DEC
	TOTAL	1167	274	894	-33	142		803	22	-9	790	0	790		TOTAL
	AVG		Total Mar-Jul				683							33	AVG
		798	225	573	100%										

ELEPHANT BUTTE RESERVOIR

2008 PROJECTED ELEVATION*

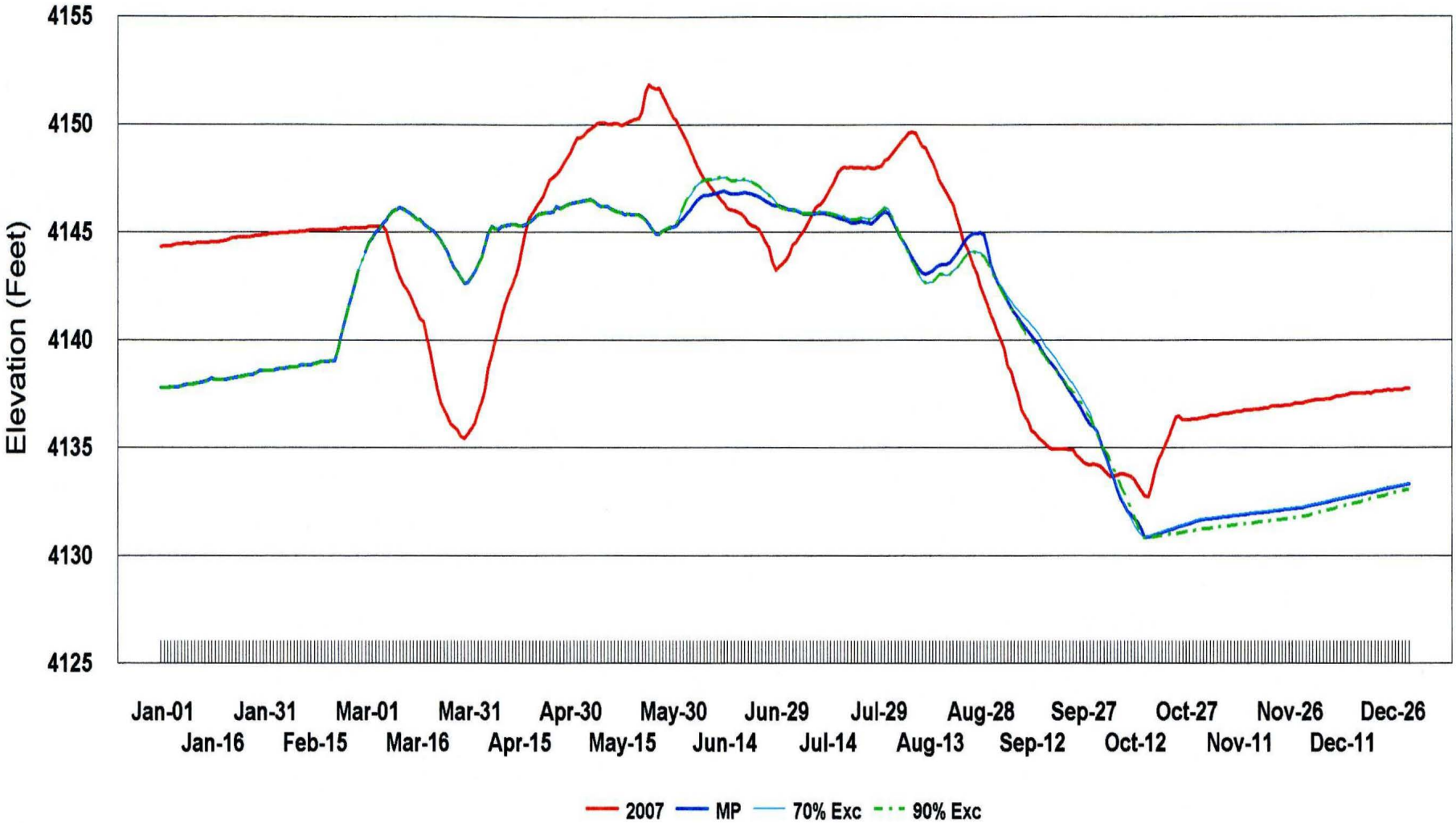


*Actual data thru May 11; other data is a projection..

*Based on Rio Grande Project runs dated May 12, 2008

CABALLO RESERVOIR

2008 PROJECTED ELEVATION*

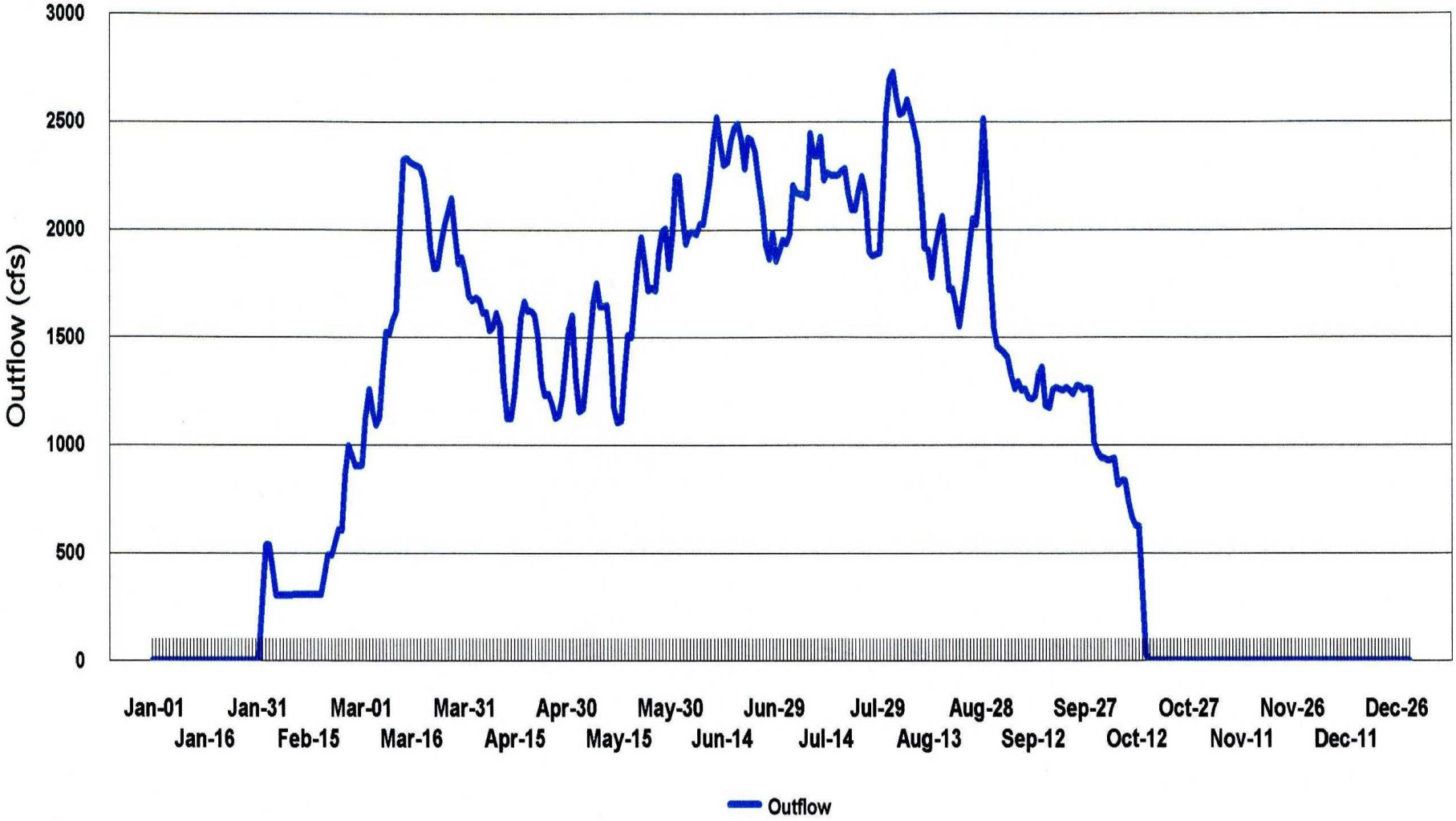


* Actual data through May 20; other data is a projection.

*Based on Rio Grande Project runs dated May 21.

CABALLO RESERVOIR

2008 PROJECTED OUTFLOW (cfs)*



* Actual data through May 12; other data is a projection.

*Based on Rio Grande Project runs dated May 12.

RECLAMATION

Managing Water in the West

RIO GRANDE PROJECT

2008 PROJECT ALLOCATION

U. S Dept. of the Interior
Bureau of Reclamation

2008 Rio Grande Project Allocation

Initial Allocation - End of December, 2007

(letter issued Jan. 18, 2008)

Mexico	10,711	AF
Elephant Butte Irrigation District	59,928	AF
El Paso County Water Improvement District # 1	154,901	AF
[24.20% of a full supply]	225,540	AF *

Updated Allocation - End of January, 2008

(letter issued Feb. 21, 2008)

Mexico	26,935	AF
Elephant Butte Irrigation District	151,859	AF
El Paso County Water Improvement District # 1	232,339	AF
[44.12% of a full supply]	411,133	AF *

Updated Allocation - End of February, 2008

(letter issued Mar. 20, 2008)

Mexico	31,519	AF
Elephant Butte Irrigation District	169,877	AF
El Paso County Water Improvement District # 1	258,634	AF
[49.37% of a full supply]	460,030	AF *

Updated Allocation - End of March, 2008

(letter issued Apr. 17, 2008)

Mexico	38,773	AF
Elephant Butte Irrigation District	198,384	AF
El Paso County Water Improvement District # 1	300,239	AF
[57.67% of a full supply]	537,396	AF *

Updated Allocation - End of April, 2008

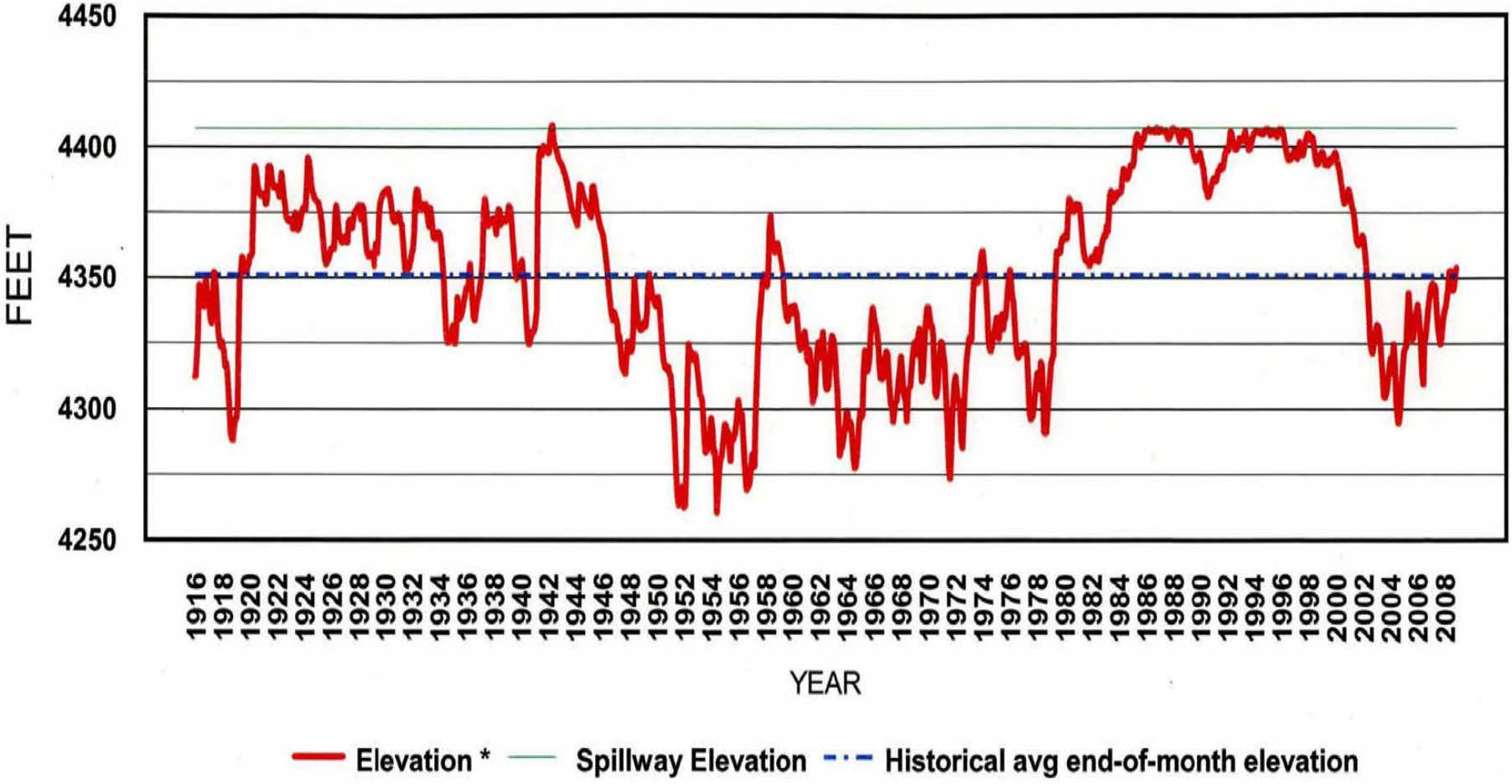
(letter issued May 19, 2008)

Mexico	52,680	AF
Elephant Butte Irrigation District	253,045	AF
El Paso County Water Improvement District # 1	380,012	AF
[73.59% of a full supply]	685,737	AF *

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

ELEPHANT BUTTE RESERVOIR

HISTORICAL END-OF-MONTH ELEVATION**



**Data thru Apr. 2008 is actual data; other 2008 data is a projection based on Reclamation's most probable plan.

* BOR project datum. To obtain mean sea level datum, add 43.3 feet

RECLAMATION

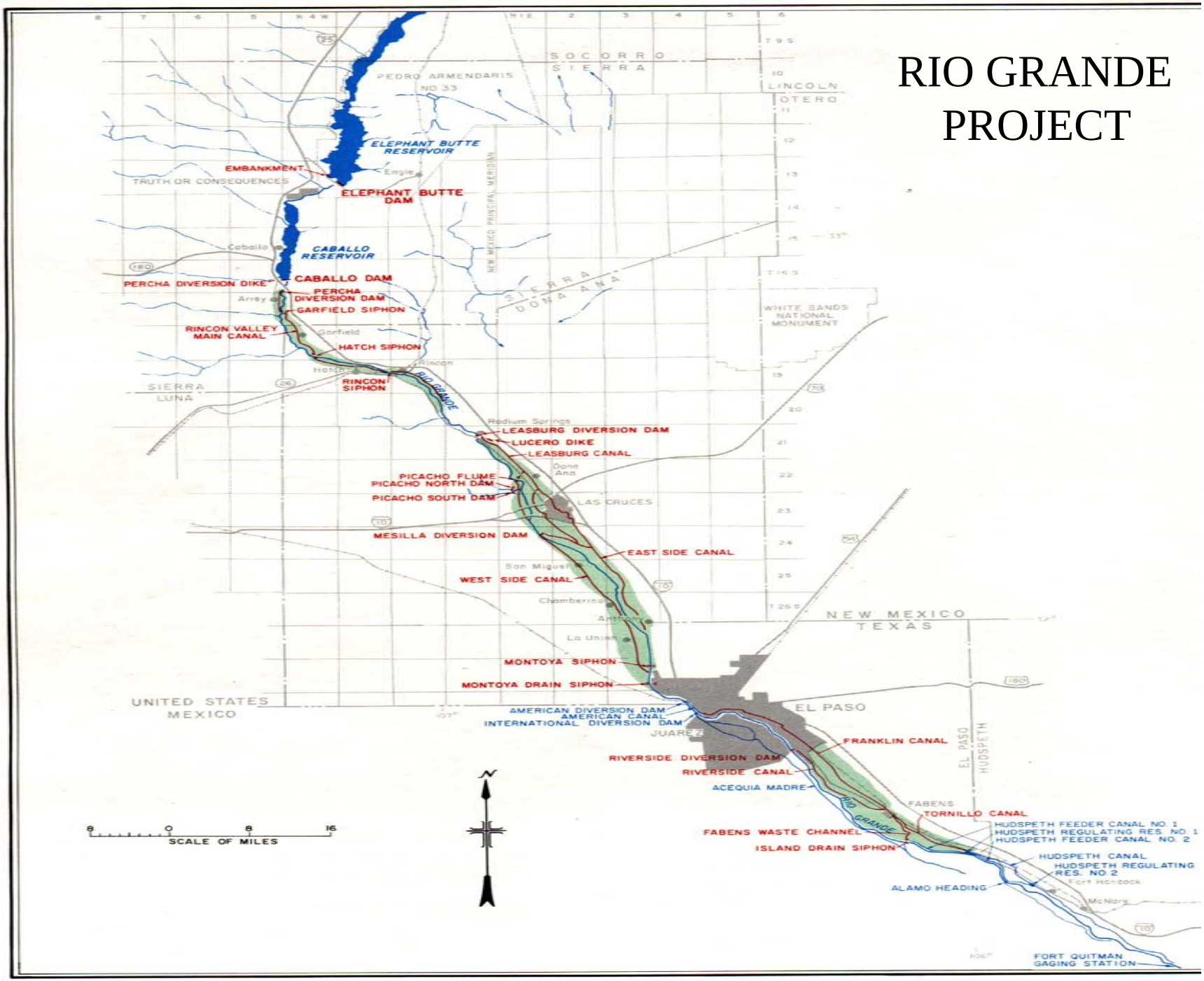
Managing Water in the West

RIO GRANDE PROJECT

SUPPORTING INFORMATION

U. S Dept. of the Interior
Bureau of Reclamation

RIO GRANDE PROJECT



ELEPHANT BUTTE RESERVOIR
2008 PROJECTED LAKE ELEVATIONS
SUMMARY TABLE

WTreers
5/21/2008

[SUBJECT TO REVISION]

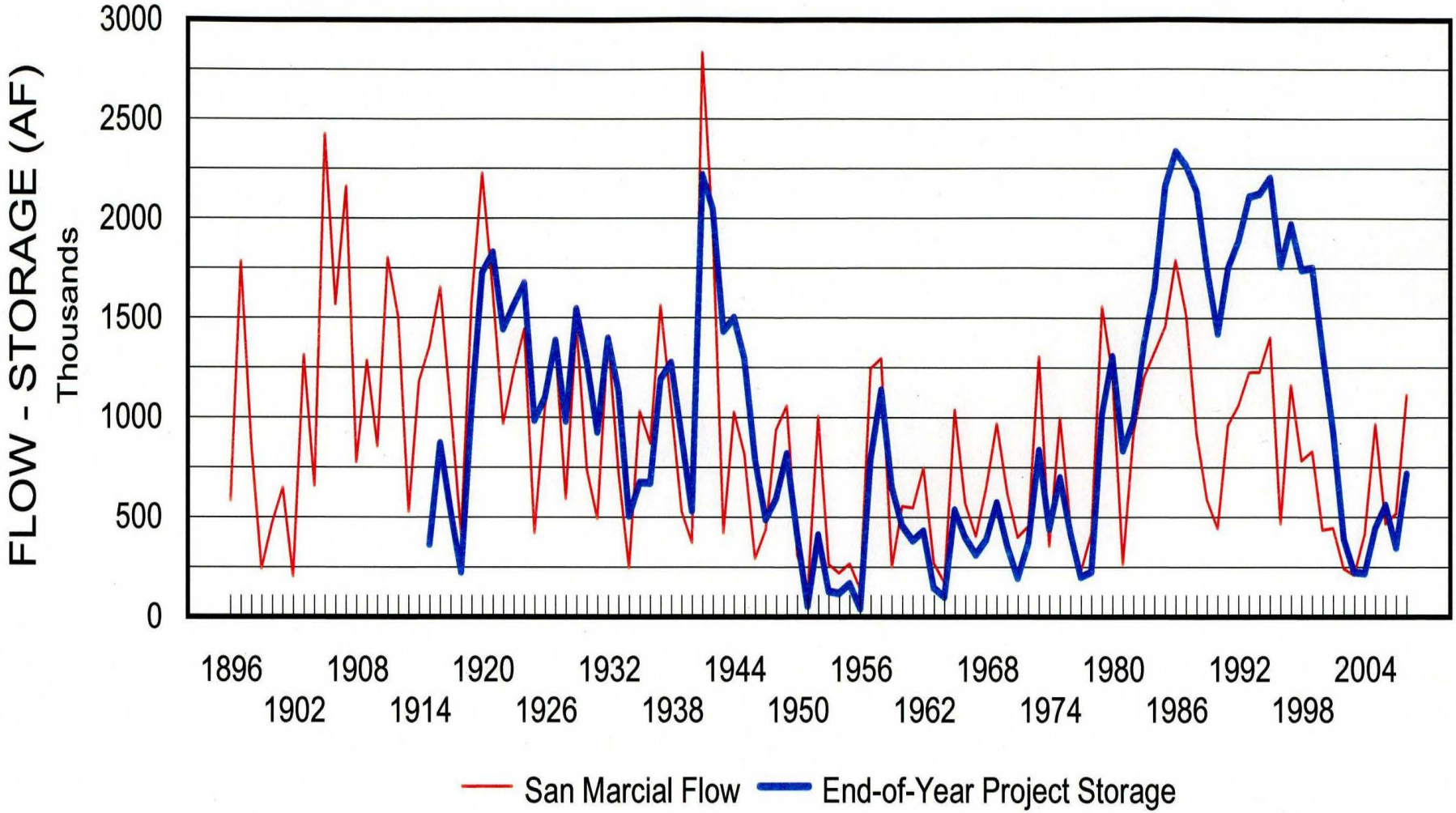
May 26 = Memorial Day
July 04 = Independence Day
September 01 = Labor Day

	Elevation (feet) *	Storage (acre-feet)	Lake Surface Area (acres)	Difference In Elevation From 2007	
END OF SEASON ELEVATION: October 24, 2007	4324.40	323,488	10,270	-6.24	(Diff. from 2006)
TODAY - MAY 21, 2008:	4346.08	587,125	14,103	0.66	
2008 RIO GRANDE PROJECT RESERVOIRS PLAN SAN MARCIAL MOST PROBABLE - 121%/132% RUNOFF **					
May 26, 2008	4346.31	590,439	14,143	0.11	(-0.27 from 5/28/07)
July 04, 2008	4352.14	676,052	15,422	8.50	
July 26, 2008 (High Pt.)	4352.79	686,136	15,616	15.07	
September 01, 2008	4346.39	591,519	14,157	15.39	(15.55 from 9/3/07)
October 14, 2008 (Low Pt.)	4345.23	575,134	13,955	19.71	(20.83 from 10/24/07)
December 31, 2008	4353.68	700,179	15,881	21.46	
2008 RIO GRANDE PROJECT RESERVOIRS PLAN SAN MARCIAL 70% EXCEEDANCE - 103%/117% RUNOFF **					
May 26, 2008	4347.36	605,280	14,325	1.16	(0.78 from 5/28/07)
July 04, 2008	4351.20	661,672	15,142	7.56	
July 13, 2008 (High Pt.)	4351.34	663,796	15,184	10.50	
September 01, 2008	4343.52	551,523	13,658	12.52	(12.68 from 9/3/07)
October 15, 2008 (Low Pt.)	4342.04	531,503	13,401	16.68	(17.64 from 10/24/07)
December 31, 2008	4351.03	659,203	15,091	18.81	
2008 RIO GRANDE PROJECT RESERVOIRS PLAN SAN MARCIAL 90% EXCEEDANCE - 79%/96% RUNOFF **					
May 26, 2008	4346.31	590,439	14,143	0.11	(-0.27 from 5/28/07)
June 10, 2008 (High Pt.)	4347.53	607,766	14,355	-0.05	
July 04, 2008	4344.51	565,198	13,830	0.87	
September 01, 2008	4334.07	430,524	11,933	3.07	(3.23 from 9/3/07)
October 15, 2008 (Low Pt.)	4333.27	421,072	11,783	7.91	(8.87 from 10/24/07)
December 31, 2008	4343.20	547,215	13,602	10.98	

* Rio Grande Project datum; to obtain USGS mean sea level, add 43.30 feet.
** Based on NRCS/NWS May 1st runoff forecasts, and adjusted for upstream reservoir regulation and middle valley gains.

SAN MARCIAL FLOW - RIO GRANDE PROJECT STORAGE

1896 Through 2008*



* End-of-year project storage and San Marcial flow for 2008 is a projection based on Rio Grande Project most probable plan.

STATUS OF RIO GRANDE COMPACT CREDIT WATERS IN ELEPHANT BUTTE RESERVOIR SINCE LAST SPILL FROM RIO GRANDE PROJECT STORAGE *

YEAR	COLORADO (acre-feet)	NEW MEXICO (acre-feet)	
1995	0	0	**SPILL YEAR**
1996	2,400	68,800	
1997	2,900	105,500	
1998	11,500	153,100	
1999	17,700	170,700	
2000	27,000	269,100	
2001	10,100	155,700	
2002	42,800	265,000	
2003	1,200	54,000	
2004	4,400	35,600	
2005	4,600	37,100	
2006	15,500	180,100	
2007	7,200	184,500	

* derived from Rio Grande Compact Commission yearly reports.

ELEPHANT BUTTE RESERVOIR

	TOTAL STORAGE	FLOOD RESERVATION POOL
Top of Conservation Storage Pool: (Rio Grande Project Authorization)	2,023,358 AF (ELEV 4407.00 FT)	
Top of Conservation Storage Pool: Winter (October 1 - March 31)	1,998,358 AF (ELEV 4406.30 FT)	25,000 AF (WINTER)
Top of Conservation Storage Pool: Summer (April 1 - September 30)	1,973,358 AF (ELEV 4405.60 FT)	50,000 AF (SUMMER)
Top of City of Albuquerque SJ-C Pool: 1983 Contract for irrig. and domestic	50,000 AF (ELEV 4295.11 FT)	
Top of Federal Recreation Pool: 1974 Public Law 93-493, 88 Stat. 1486	50,000 AF (ELEV 4282.68 FT)	

CABALLO RESERVOIR

		EXCLUSIVE FLOOD CONTROL
Top of Flood Control Pool:	326,672 AF (ELEV 4182.00 FT)	100,000 AF
Top of Conservation Storage Pool:	226,672 AF (ELEV 4172.44 FT)	
Top of Minimum Fishery Pool: Biological Opinion (1991)	25,000 AF (ELEV 4138.24 FT)	

Court Order No. CIV-90-95 HB/WWD:

October 1 - January 31 (each year), storage level will not exceed 50,000 AF (elev 4146.11 ft)

Operation Plan of Caballo Reservoir during 2008:

February 1 - September 30 (2008), storage level will be maintained such that the storage level shall not exceed 57,000 AF (elev 4147.79 ft) nor drop below 10,000 AF (elev 4130.81 ft) from Feb. 1 to Sep. 30

RIO GRANDE PROJECT HISTORICAL ALLOCATION OF PROJECT WATER SUPPLY

WTreers
03/05/2008

YEAR	EO FEB. TOTAL RIO GRANDE PROJECT STORAGE (acre-feet)	SAN MARCIAL SPRING RUNOFF (Mar-Jul) (acre-feet)	INITIAL ALLOTMENT TO PROJECT LANDS (acre-foot/acre)	FINAL ALLOTMENT TO PROJECT LANDS (acre-foot/acre)	INITIAL ALLOTMENT TO PROJECT CANAL HEADINGS (acre-feet)	FINAL ALLOTMENT TO PROJECT CANAL HEADINGS (acre-feet)	EO OCT. TOTAL RIO GRANDE PROJECT STORAGE (acre-feet)	MEXICO DIVERSION AT ACEQUIA MADRE HEADING (acre-feet) *	INITIAL RELEASE DATE FROM CABALLO DAM	CABALLO DAM TOTAL YEARLY RELEASE (acre-feet)
1951	452,730	17,877	1.00	1.75			32,900	33,059	03/06	469,450
1952	103,920	832,160	0.21	2.50			370,950	49,890	03/20	543,975
1953	468,600	143,170	1.00	1.90			99,990	37,760	03/10	528,628
1954	184,460	76,720	0.42	0.50			91,480	10,147	03/20	244,165
1955	169,850	68,920	0.21	0.42			129,700	8,185	03/20	219,157
1956	212,180	59,885	0.33	0.39			31,040	7,864	03/18	246,140
1957	77,130	600,680	0.10	1.17			645,760	23,290	03/20	397,103
1958	857,510	988,030	1.75	**4.00**			1,007,170	60,050	03/01	737,125
1959	1,185,120	72,590	3.00	**3.50**			575,670	60,110	03/02	687,414
1960	713,550	410,900	2.25	**3.25**			405,820	60,320	03/02	705,162
1961	492,870	269,550	1.25	2.45			223,080	48,610	03/10	561,697
1962	486,570	448,250	1.75	**3.25**			269,580	60,057	03/05	651,941
1963	513,170	116,765	1.85	2.00			109,440	39,693	03/05	517,172
1964	194,790	67,930	0.25	0.33			58,670	6,653	03/15	206,085
1965	172,340	598,290	0.17	1.85			340,940	36,658	03/20	505,598
1966	627,430	328,380	1.75	2.50			312,910	49,618	03/05	610,341
1967	454,710	74,090	1.25	1.50			223,340	29,829	02/27	456,517
1968	386,860	238,560	1.00	2.00			277,530	39,677	02/27	505,691
1969	466,970	358,710	1.25	**3.00**			387,410	59,884	02/27	667,669
1970	614,620	257,960	2.00	**3.00**			223,870	60,065	02/23	661,125
1971	435,640	112,837	1.50	1.75			75,540	34,847	02/26	498,375
1972	283,380	77,630	0.60	0.80			258,910	16,077	03/01	260,911
1973	457,960	914,090	1.00	**3.00**			707,340	60,000	03/09	617,461
1974	915,650	95,430	3.00	**3.00**			376,650	60,050	03/02	640,843
1975	507,700	617,850	1.00	**3.00**			534,490	60,052	01/24	580,617
1976	762,230	204,260	2.50	**3.00**			353,910	60,172	01/16	679,676
1977	482,460	43,374	1.00	1.25			140,460	24,824	03/03	416,496
1978	268,220	248,610	0.25	0.75			112,160	14,903	03/10	356,167
1979	328,690	1,148,880	0.67	**3.00**		**790,000**	855,640	60,055	03/08	568,687
1980	1,080,400	861,894	3.00	**3.00**		**790,000**	1,178,400	60,033	01/17	658,686
1981	1,339,860	54,256	3.00	**3.00**	**750,650**	**750,650**	774,380	60,262	02/04	608,166
1982	878,660	548,573	3.00	**3.00**	**790,000**	**790,000**	866,140	59,257	01/27	635,642
1983	1,070,130	920,545	3.00	**3.00**	**790,000**	**790,000**	1,289,750	60,621	02/03	648,386
1984	1,424,200	831,291	3.00	**3.00**	**902,000**	**902,000**	1,515,500	58,588	02/09	653,150
1985	1,747,700	1,133,599			**902,000**	**902,000**	2,121,600	60,276	02/20	677,398
1986	2,322,200	812,686			**902,000**	**902,000**	2,290,800	66,163	04/01	1,396,165
1987	2,336,900	1,003,319			**902,000**	**902,000**	2,168,400	65,866	02/03	1,376,099
1988	2,383,900	419,098			**902,000**	**902,000**	2,060,100	61,935	01/20	838,008
1989	2,151,900	378,144			**890,900**	**890,900**	1,705,300	58,854	02/13	736,866
1990	1,801,000	159,213			**931,841**	**931,841**	1,319,400	58,353	02/12	680,107
1991	1,509,660	656,638			**931,841**	**931,841**	1,580,080	59,242	02/19	625,956
1992	1,830,380	745,950			**931,841**	**931,841**	1,802,720	58,080	01/09	734,982
1993	1,980,230	742,508			**931,841**	**931,841**	1,978,640	63,763	01/12	823,263
1994	2,155,690	852,845			**931,841**	**931,841**	2,003,860	60,167	01/11	893,384
1995	2,203,730	991,736			**931,841**	**931,841**	2,083,050	63,618	01/17	1,096,146
1996	2,263,420	131,980			**931,841**	**931,841**	1,689,550	60,063	01/12	774,335
1997	1,814,910	600,666			**931,841**	**931,841**	1,814,980	59,442	01/21	798,621
1998	2,036,000	447,172			**931,841**	**931,841**	1,636,860	60,628	01/16	808,661
1999	1,803,410	384,225			**931,841**	**931,841**	1,658,810	58,308	01/27	735,467
2000	1,804,980	159,000			**931,841**	**931,841**	1,243,900	60,611	01/20	751,373
2001	1,359,370	241,000			**931,841**	**931,841**	856,910	61,037	02/02	786,549
2002	974,610	61,095			738,139	**931,841**	323,190	60,324	02/19	801,147
2003	456,140	62,029			74,860	317,495	170,490	26,948	03/17	364,528
2004	288,480	240,387			43,667	353,944	128,010	27,613	03/12	398,612
2005	331,000	738,095			138,549	**931,841**	362,060	58,091	03/09	676,031
2006	517,170	92,521			351,560	472,426	436,950	27,112	03/08	434,228
2007	644,990	316,979			369,466	760,391	346,170	51,245	03/07	636,730

bold number means full irrigation supply for Rio Grande Project water users.

* derived from International Boundary & Water Commission (IBWC) - U. S. Section, Yearly Flow Data Publications.