RECLAMATION

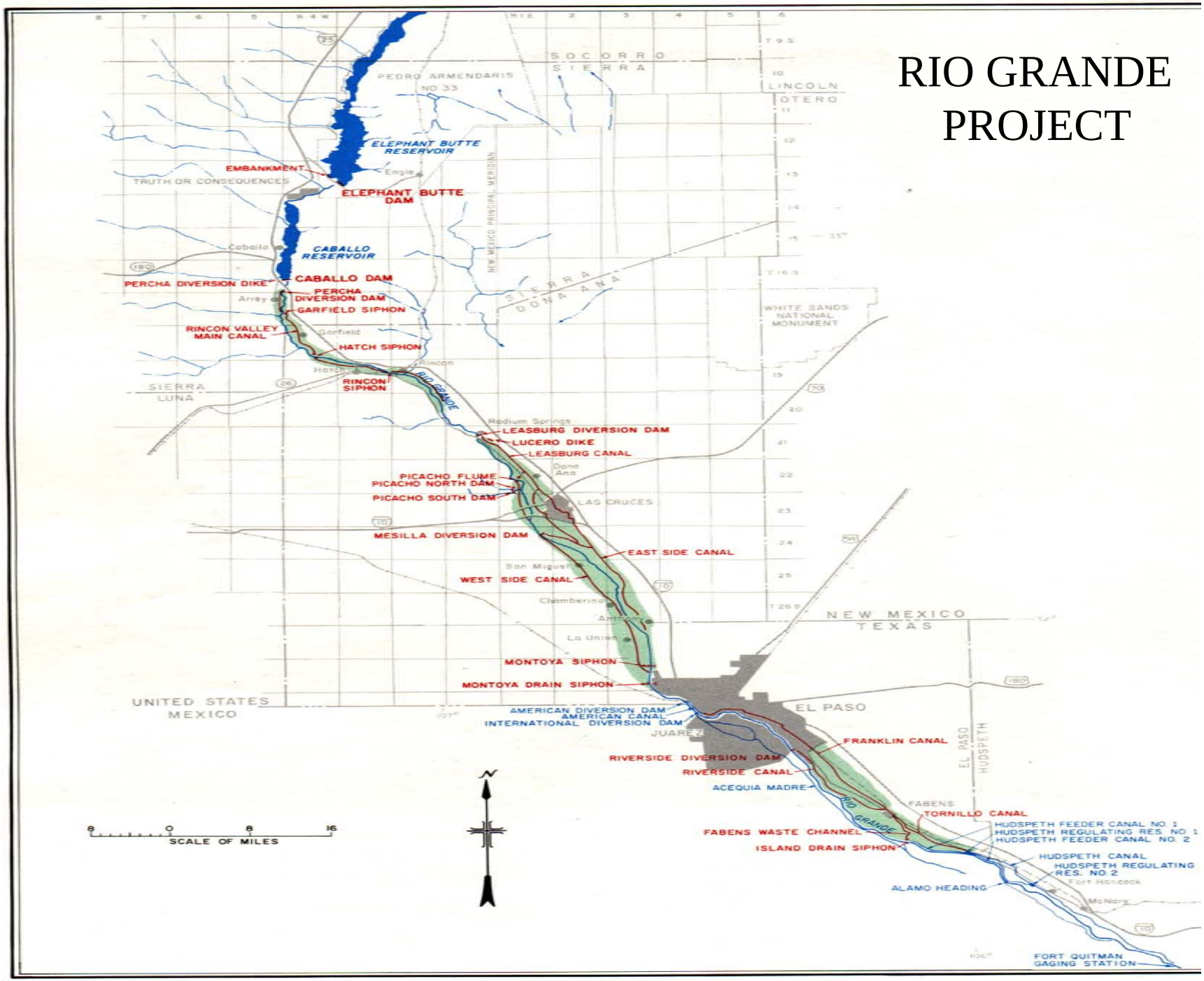
Managing Water in the West

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

RIO GRANDE PROJECT



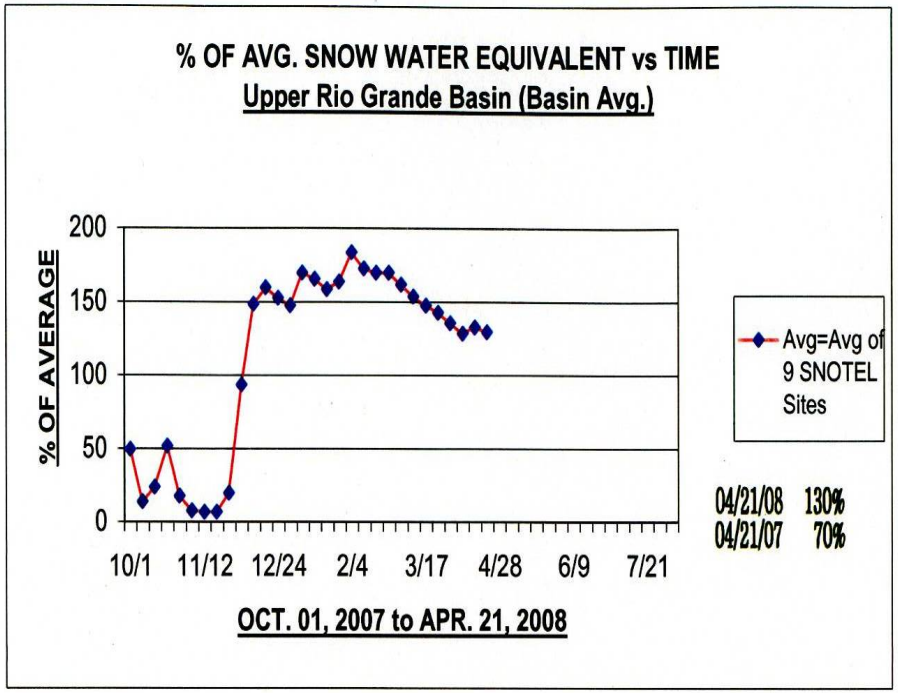
RECLAMATION

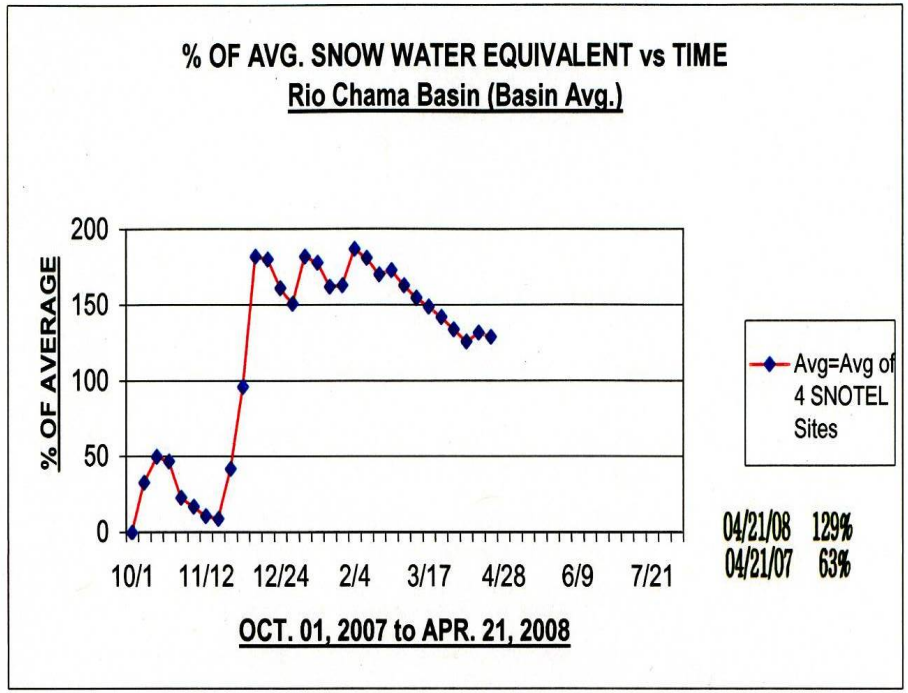
Managing Water in the West

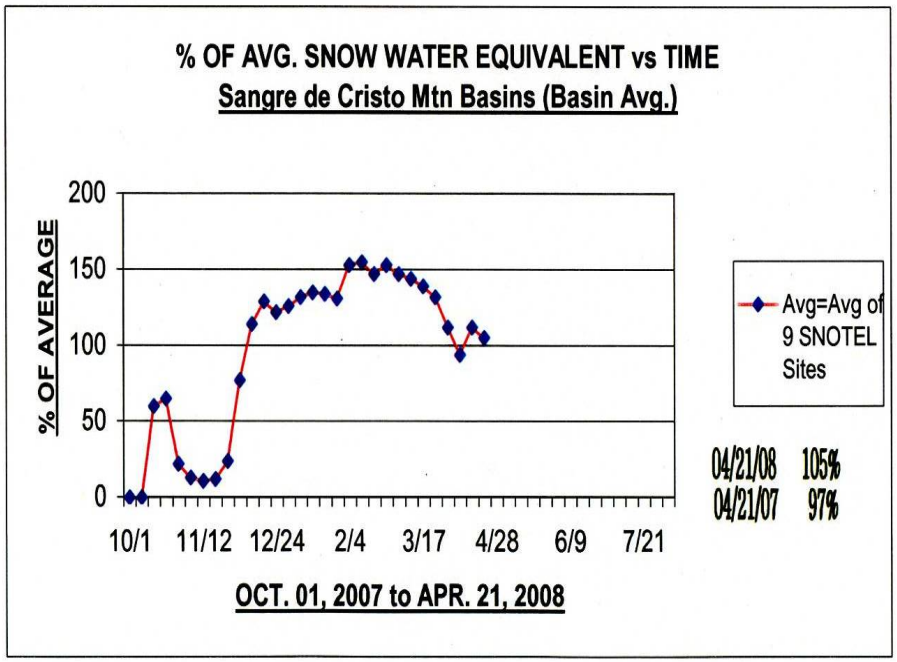
RIO GRANDE PROJECT

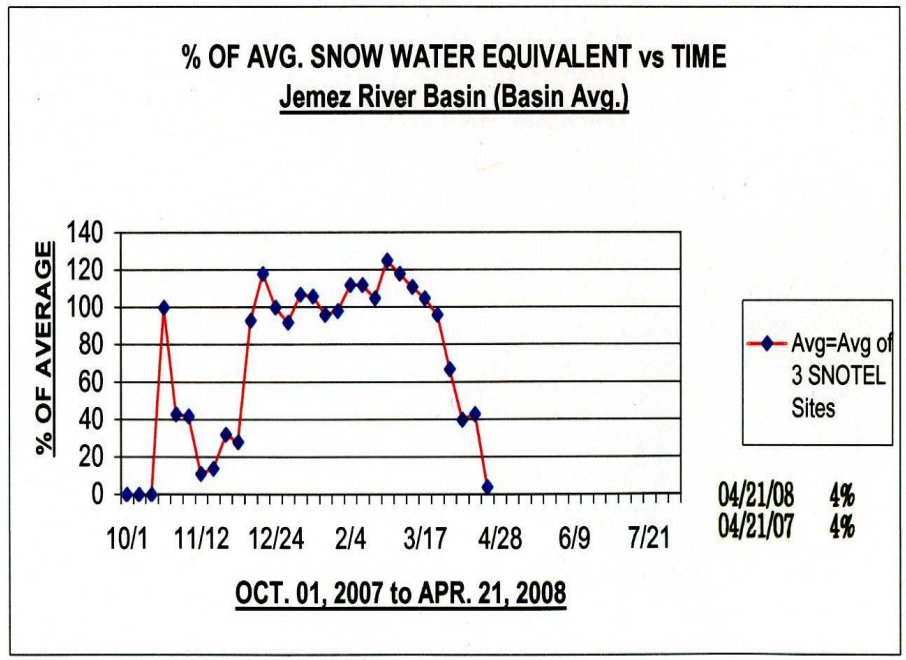
CURRENT HYDROLOGIC CONDITIONS OF UPPER RIO GRANDE BASIN

U. S Dept. of the Interior
Bureau of Reclamation


% OF AVG. SNOW WATER EQUIVALENT vs TIME
Upper Rio Grande Basin (Basin Avg.)
% OF AVERAGE
200
150
100
50
0
10/1
11/12
12/24
2/4
3/17
4/28
6/9
7/21
Avg=Avg of 9 SNOTEL Sites
04/21/08 130%
04/21/07 70%
OCT. 01, 2007 to APR. 21, 2008


% OF AVG. SNOW WATER EQUIVALENT vs TIME
Rio Chama Basin (Basin Avg.)
% OF AVERAGE
200
150
100
50
0
10/1
11/12
12/24
2/4
3/17
4/28
6/9
7/21
Avg=Avg of 4 SNOTEL Sites
04/21/08 129%
04/21/07 63%
OCT. 01, 2007 to APR. 21, 2008


% OF AVG. SNOW WATER EQUIVALENT vs TIME
Sangre de Cristo Mtn Basins (Basin Avg.)
% OF AVERAGE
200
150
100
50
0
10/1
11/12
12/24
2/4
3/17
4/28
6/9
7/21
Avg=Avg of 9 SNOTEL Sites
04/21/08 105%
04/21/07 97%
OCT. 01, 2007 to APR. 21, 2008


% OF AVG. SNOW WATER EQUIVALENT vs TIME
Jemez River Basin (Basin Avg.)
% OF AVERAGE
140
120
100
80
60
40
20
0
10/1
11/12
12/24
2/4
3/17
4/28
6/9
7/21
Avg=Avg of 3 SNOTEL Sites
04/21/08 4%
04/21/07 4%
OCT. 01, 2007 to APR. 21, 2008

SPRING RUNOFF FORECASTS

2008

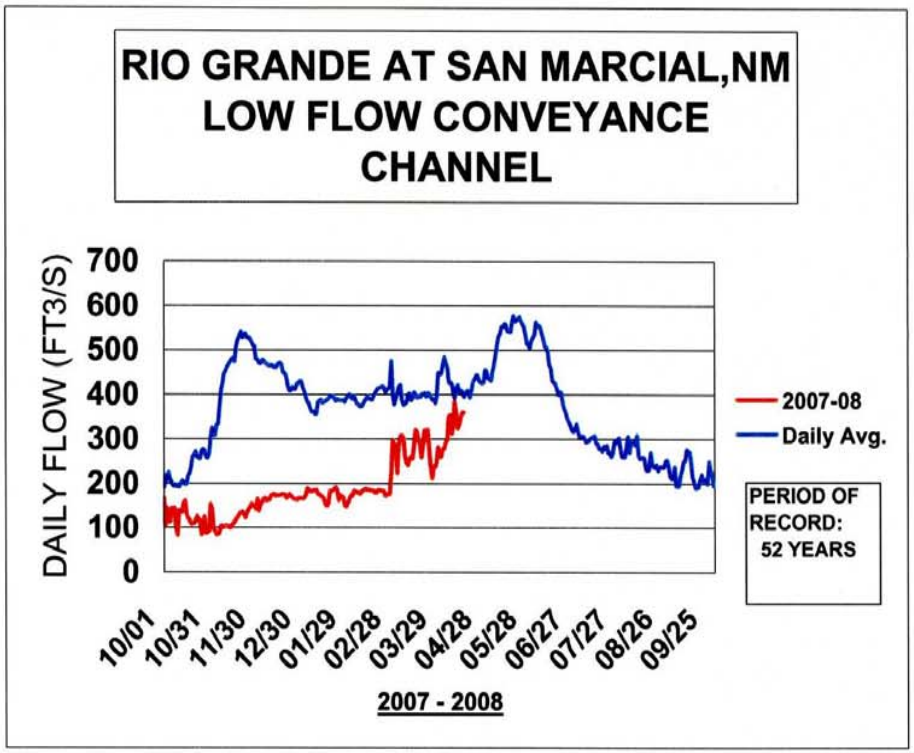
RIO GRANDE BASIN

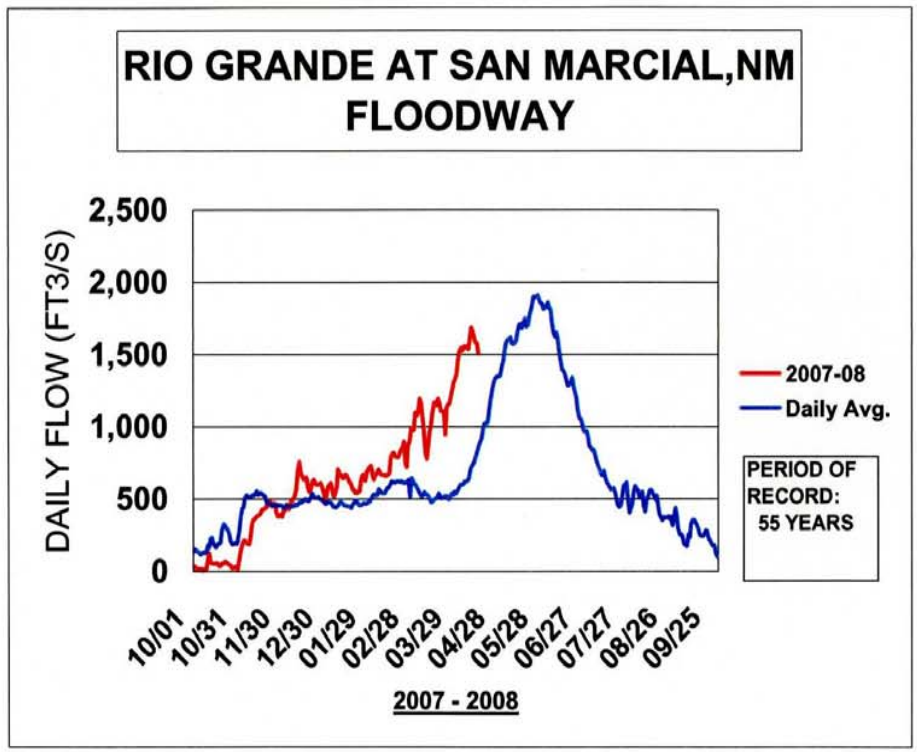
(ACRE-FEET)

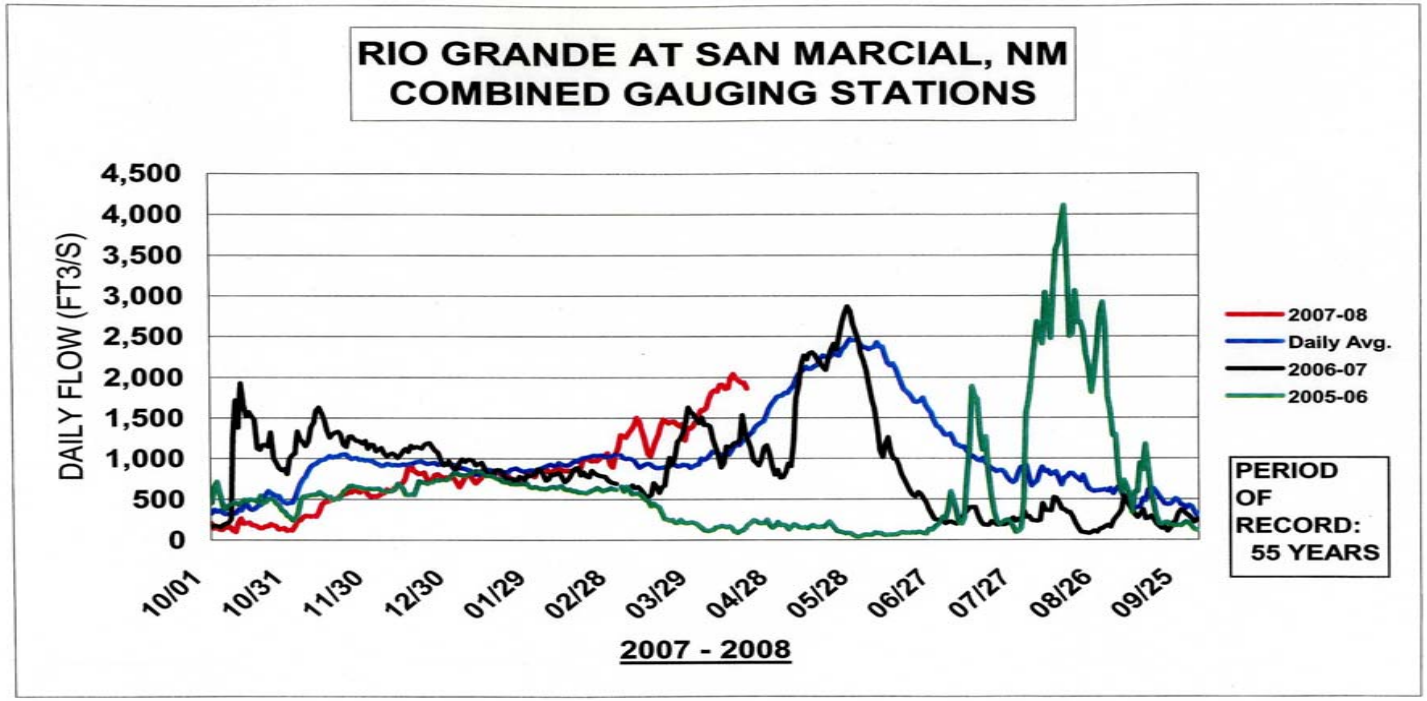
FORECAST POINT	Rio Grande nr Del Norte	Rio Chama at El Vado Reservoir	Rio Grande at Otowi Bridge	Jemez River at Jemez Canyon Reservoir	Rio Grande at San Marcial
FORECAST PERIOD	APR-SEP	MAR-JUL	MAR-JUL	MAR-JUL	MAR-JUL
30-YEAR AVERAGE RUNOFF *	531,000	237,000	757,000	45,000	**573,000**
JANUARY 1 FORECAST	**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 **					
APR 1, 2007	**415,000** 78%	**155,000** 65%	**470,000** 62%	**29,000** 64%	**265,000** 46%

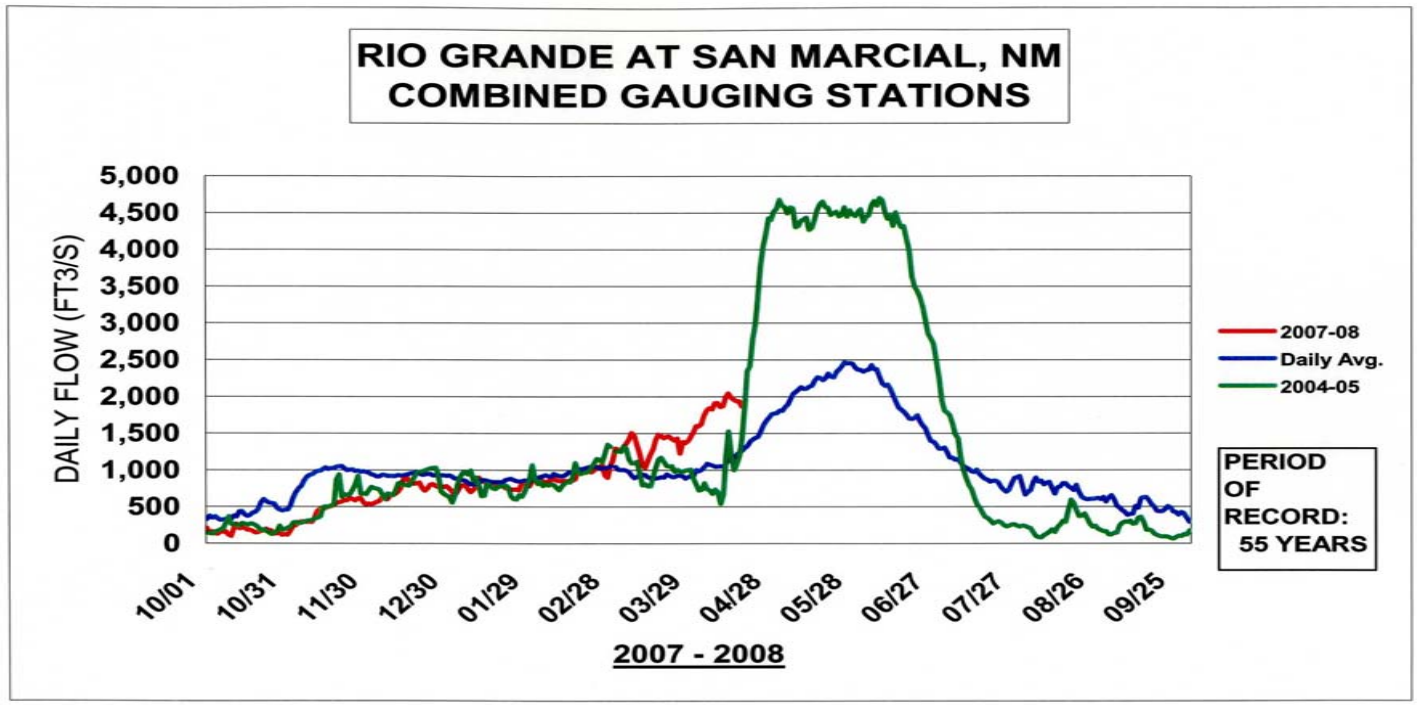
* based on 1971-2000 runoff data.

** last official forecast for 2008 spring runoff.


RIO GRANDE AT SAN MARCIAL,NM
LOW FLOW CONVEYANCE
CHANNEL
DAILY FLOW (FT3/S)
700
600
500
400
300
200
100
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:
52 YEARS


RIO GRANDE AT SAN MARCIAL,NM
FLOODWAY
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:
55 YEARS


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

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:	**Tuesday,**	**April 22, 2008**	**4341.08**	**65.92**	**518,782**	**26.29%**	**13,234**	**37.60%**
2007 HIGH POINT:	**Monday,**	**March 26, 2007**	**4347.76**	**59.24**	**611,063**	**30.58%**	**14,395**	**40.45%**
2007 LOW POINT: Gates Closed Oct. 25, 2007	**Wednesday,**	**October 24, 2007**	**4324.40**	**82.60**	**323,488**	**16.19%**	**10,270**	**28.85%**
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:	**Tuesday,**	**April 22, 2008**	**4145.84**	**26.60 ****	**48,916**	**21.58%**	**3,922**	**41.94%**
2007 HIGH POINT:	**Wednesday,**	**May 23, 2007**	**4151.88**	**20.56 ****	**76,662**	**33.82%**	**5,243**	**56.07%**
2007 LOW POINT: Gates Closed Oct. 26, 2007.	**Tuesday,**	**October 16, 2007**	**4132.72**	**39.72 ****	**13,287**	**5.86%**	**1,814**	**19.39%**
2006 FALL LOW PT.: Gates Closed Oct. 10, 2006.	Sunday,	October 08, 2006	4141.98	30.46 **	35,351	15.60%	3,121	33.37%
2005 LOW POINT: Gates Closed Oct. 14, 2005.	Thursday,	October 13, 2005	4131.26	41.18 **	10,744	4.74%	1,670	17.86%
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

U. S Dept. of the Interior
Bureau of Reclamation

RIO GRANDE PROJECT RESERVOIR OPERATIONS

PRELIMINARY SUBJECT TO REVIEW

04-Apr-08

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

2008 MAR-JUL @ SAN MARCIAL (NRCS forecast)	171%	980 KAF
2008 MAR-JUL @ SAN MARCIAL (regulated forecast)	167%	955 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	CONTENT	RELEASE	<=== 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	CONTENT	RELEASE	<=== EVAP	CABALLO LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	
	2008														2008
*	JAN	45	-2	47	-3	3	455	1	1	-2	0	0	0	26	JAN
*	FEB	57	9	48	-9	5	482	25	1	3	7	0	7	41	FEB
*	MAR	140	64	75	-41	8	495	95	2	8	89	0	89	38	MAR
	APR	200	42	158	-4	12	537	109	2	6	88	0	88	50	APR
	MAY	299	23	276	-4	16	692	109	3	6	100	0	100	50	MAY
	JUN	270	14	256	-6	18	806	130	4	-6	132	0	132	50	JUN
	JUL	216	26	190	-7	18	848	137	3	1	133	0	133	50	JUL
	AUG	113	28	85	-9	18	795	129	3	3	132	0	132	40	AUG
	SEP	75	28	47	-6	12	778	59	1	0	78	0	78	20	SEP
	OCT	62	22	40	-4	10	791	21	1	-2	31	0	31	11	OCT
	NOV	52	-7	59	1	5	843	0	1	-2	0	0	0	12	NOV
	DEC	53	-7	60	2	3	898	0	1	-3	0	0	0	14	DEC
	TOTAL	1583	241	1342	-90	128		814	23	12	790	0	790		TOTAL
	AVG		Total Mar-Jul				702							33	AVG
		1125	170	955	167%										

	YEAR	COCHITI RELEASE	NET LOSSES	SAN MARCIAL	<==== LOSSES	ELEPHANT BUTTE====> EVAP	CONTENT	RELEASE	<=== EVAP	CABALLO LOSSES	IRRIG. DEMAND	EXCESS RELEASE	TOTAL RELEASE	CABALLO CONTENT	
	2009														2009
	JAN	40	-7	47	0	4	941	0	1	-3	0	0	0	16	JAN
	FEB	44	-4	48	-0	8	958	23	1	-2	0	0	0	40	FEB
	MAR	75	15	60	-1	10	881	128	2	2	119	0	119	45	MAR
	APR	157	37	120	-2	16	904	83	2	2	79	0	79	45	APR
	MAY	250	55	195	-4	18	985	100	3	2	90	0	90	50	MAY
	JUN	197	67	130	-6	24	961	137	4	2	131	0	131	50	JUN
	JUL	119	51	68	-7	18	882	136	4	-1	133	0	133	50	JUL
	AUG	78	34	44	-9	14	808	113	2	-3	124	0	124	40	AUG
	SEP	55	23	32	-6	12	777	57	1	-2	78	0	78	20	SEP
	OCT	47	17	30	-2	10	774	25	1	-2	35	0	35	11	OCT
	NOV	52	-7	59	2	5	826	0	1	-2	0	0	0	11	NOV
	DEC	53	-7	60	2	3	880	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				881							33	AVG
		798	225	573	100%										

RECLAMATION

Managing Water in the West

RIO GRANDE PROJECT

2008 WATER SUPPLY & PROJECTED 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 *

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

SUMMARY TABLE OF PROJECTED ALLOCATIONS FOR 2008

W Treers
4/16/2008

	Most Probable	70% Exceed.	90% Exceed.
SAN MARCIAL 2008 ESTIMATED RUNOFF FORECAST	**980,000 AF 171% of Average ***	**810,000 AF 141% of Average ***	**600,000 AF 105% of Average ***
FORECASTS ADJUSTED FOR UPSTREAM REGULATION	- 24,900 AF **955,100 AF 167%**	- 5,800 AF **804,200 AF 140%**	- 10,900 AF **589,100 AF 103%**

			(acre-feet)	(acre-feet)	(acre-feet)
EO APRIL, 2008 ** (a)	EBID	(b)	251,688	232,207	225,951
	EP#1		378,036	349,604	340,473
	MEXICO		52,335	47,379	45,787
	TOTAL		**682,059 73.19%**	**629,190 67.52%**	**612,210 65.70%**
EO MAY, 2008 ** (a)	EBID	(b)	393,597	310,740	280,068
	EP#1		483,844	461,669	419,455
	MEXICO		60,000	60,000	59,556
	TOTAL		**937,441 100.60%**	**832,409 89.33%**	**759,080 81.46%**
EO JUNE, 2008 ** (a)	EBID	(b)	494,979	494,979	372,188
	EP#1		483,844	483,844	483,844
	MEXICO		60,000	60,000	60,000
	TOTAL		**1,038,823 111.48%**	**1,038,823 111.48%**	**916,032 98.30%**
EO JULY, 2008 ** (a)	EBID	(b)	494,979	494,979	494,979
	EP#1		483,844	483,844	483,844
	MEXICO		60,000	60,000	60,000
	TOTAL		**1,038,823 111.48%**	**1,038,823 111.48%**	**1,038,823 111.48%**
EO AUGUST, 2008 ** (a)	EBID	(b)	494,979	494,979	494,979
	EP#1		483,844	483,844	483,844
	MEXICO		60,000	60,000	60,000
	TOTAL		**1,038,823 111.48%**	**1,038,823 111.48%**	**1,038,823 111.48%**
EO SEPTEMBER, 2008 ** (a)	EBID	(b)	494,979	494,979	494,979
	EP#1		483,844	483,844	483,844
	MEXICO		60,000	60,000	60,000
	TOTAL		**1,038,823 111.48%**	**1,038,823 111.48%**	**1,038,823 111.48%**

2008 ESTIMATED CABALLO RESERVOIR RELEASE	789,775	789,821	789,549
2008 ESTIMATED ELEPHANT BUTTE RESERVOIR HIGH POINT	851,183 (July 28)	716,822 (July 21)	552,176 (June 11)
FALL 2008 ESTIMATED ELEPHANT BUTTE RESERVOIR LOW POINT	775,890 (October 14)	624,793 (October 14)	402,734 (October 14)

* Average (normal) runoff volume at San Marcial gauging stations (Mar-Jul) is 573,000 AF.

** EO month storage figures based on Reclamation's Rio Grande Project reservoirs operational plans developed on **April 04, 2008**. Allotments are made to the Rio Grande Project canal headings. A full supply allocation for an irrigation season is: 494,979 AF to EBID canal headings; 376,862 AF to EP#1 headings; and 60,000 AF to Mexico's Acequia Madre heading under the 1906 Treaty for a total of 931,841 AF.

(a) Assuming a relinquishment of Rio Grande Compact credit waters occurring in 2008 for New Mexico of 125,000 AF and 1,200 AF for Colorado. Excludes New Mexico's and Colorado's estimated Rio Grande Compact credit waters in Elephant Butte Reservoir of 65,500 AF accrued credits at beginning of 2008 as well as San Juan-Chama water of 25,019 AF through Mar. 31, 2008.

(b) Assuming river efficiency of 0.999962 until June when the efficiency increases to 1.02, and in July increasing to 1.07, and in August increasing to 1.10

2008 STATUS OF RIO GRANDE COMPACT USABLE WATER IN PROJECT STORAGE

	167%	140%	103%
Below 400 KAF	Jan 01	Jan 01	Jan 01
Above 400 KAF	Feb 01	Feb 01	Feb 01
Below 400 KAF			Aug 15
Above 400 KAF			Dec 02

Stay above 400 KAF for rest of 2008