2008 Annual Operating Plan April 1 Runoff Forecast





Definitions

Native/Natural Rio Grande water: Water that comes directly from the Rio Grande Basin

San Juan-Chama water: Water that is imported into the Rio Grande Basin from the San Juan Basin through the San Juan-Chama Project

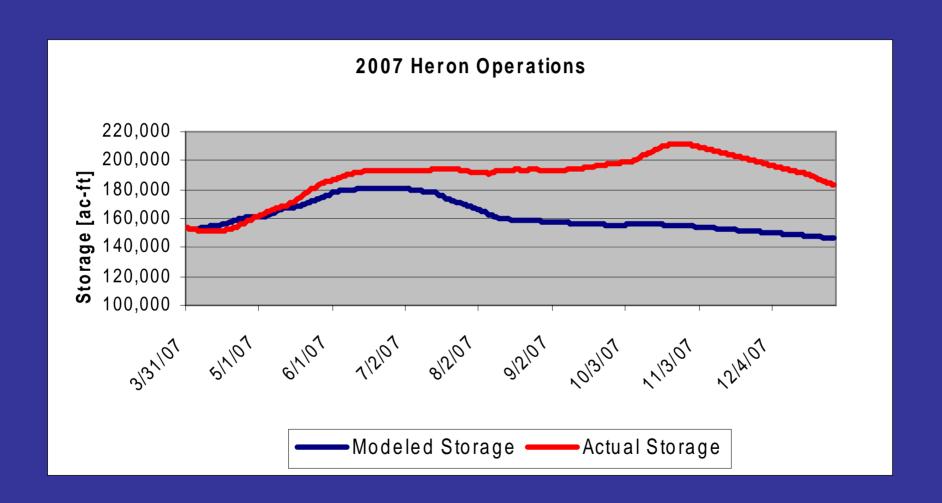
Rio Grande Compact: Agreement between the states of Colorado, New Mexico, and Texas that apportions Rio Grande water between the three states.

Article 7: Section of the Rio Grande Compact that dictates storage in reservoirs. If Rio Grande Project storage is less than 400,000 ac-ft at Elephant Butte and Caballo, no storage of Rio Grande water can take place at El Vado except to satisfy Native American needs.

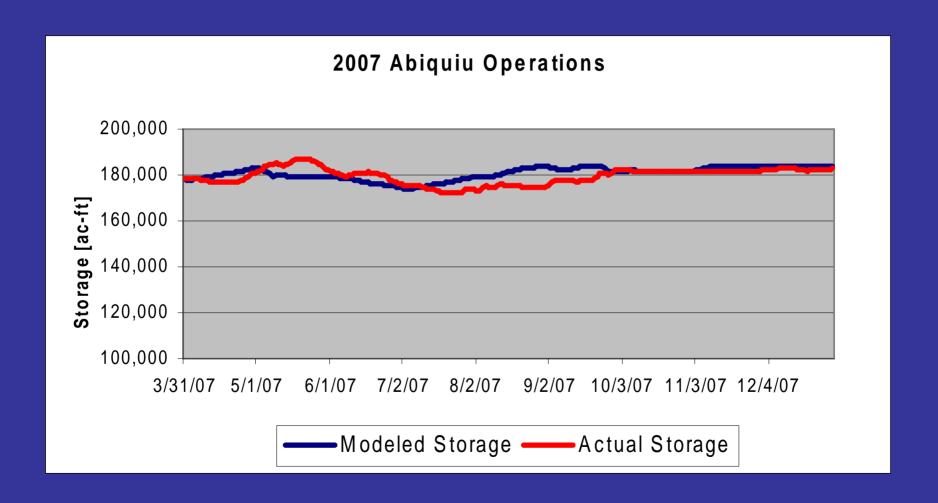
Operated By: Dams:	Reclamation Spanish of the arrange and arrange arrange and arrange arrange arrange arrange arrange and arrange ar	Corps	Water Supply	Recreation	Flood Control	Sediment Control
HERON	000					
EL VADO	000					
ABIQUIU		000				
NAMBE FALLS	000					
GALISTEO		000				
COCHITI		0 0				
JEMEZ CANYON		000				
ELEPHANT BUTTE	000					

2007: The Year in Review

Heron Reservoir

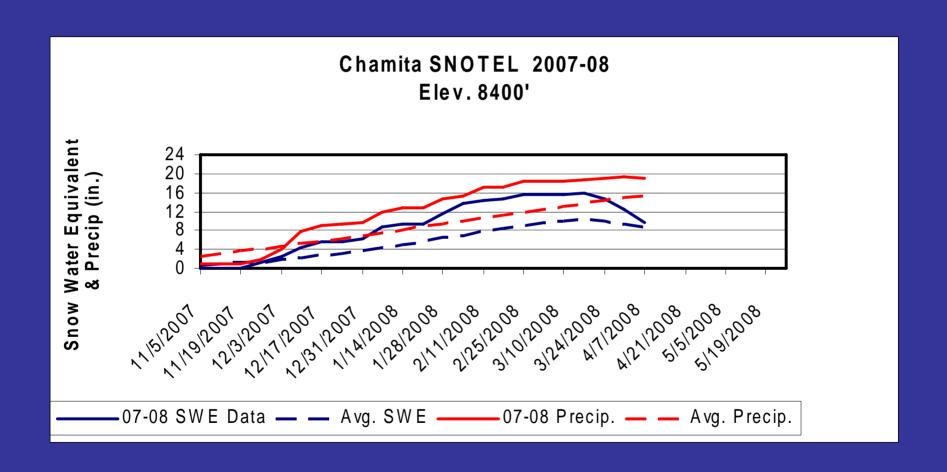


Abiquiu Reservoir

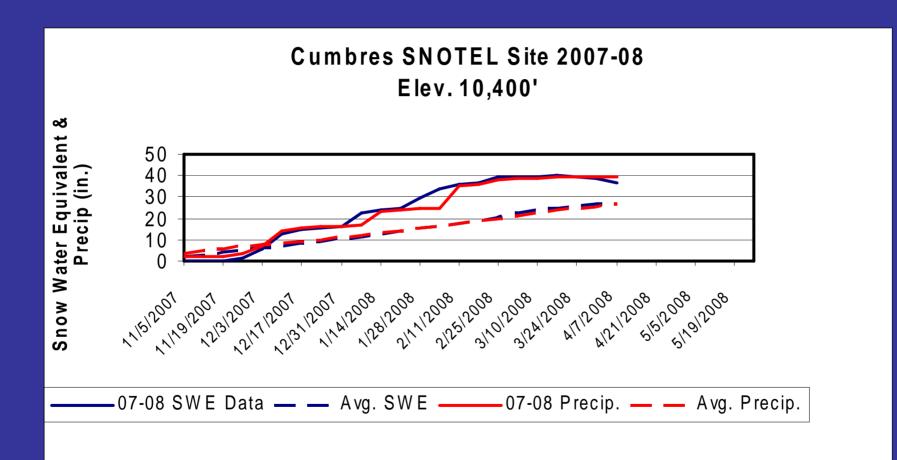


Current Snow Conditions

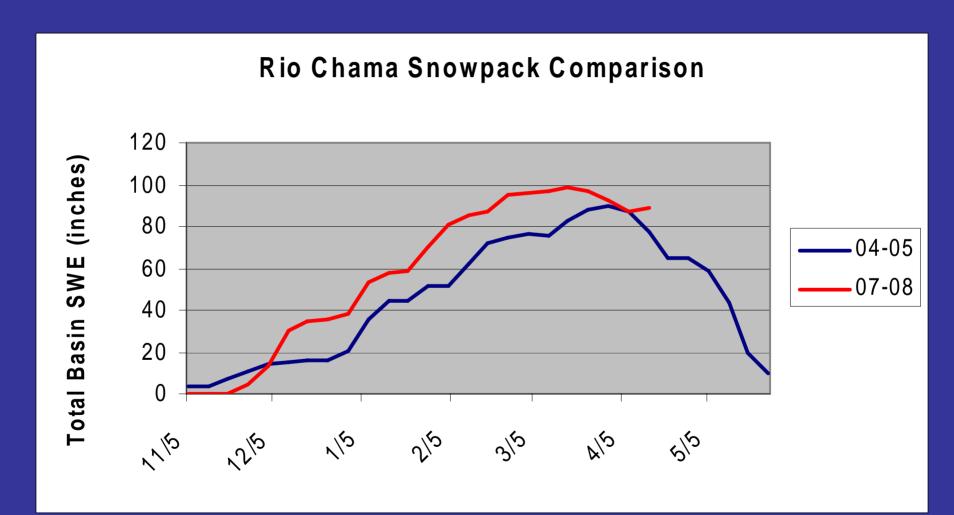
Rio Chama Snow Data



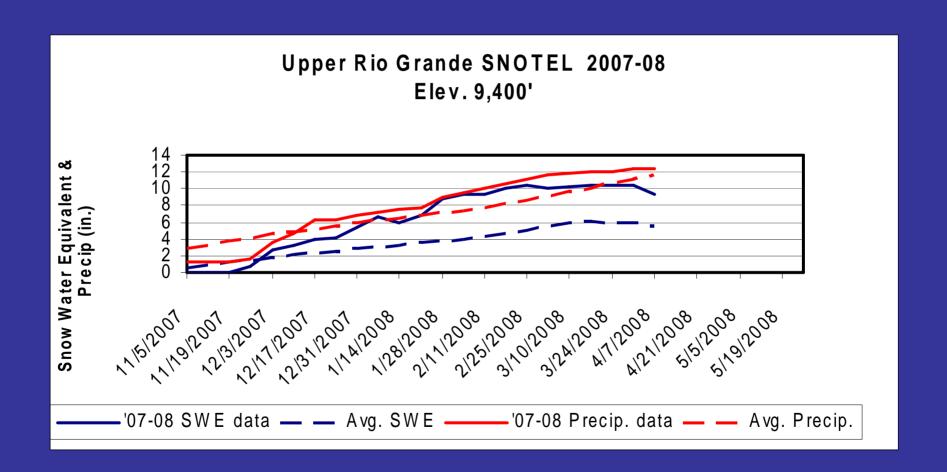
Rio Chama Snow Data



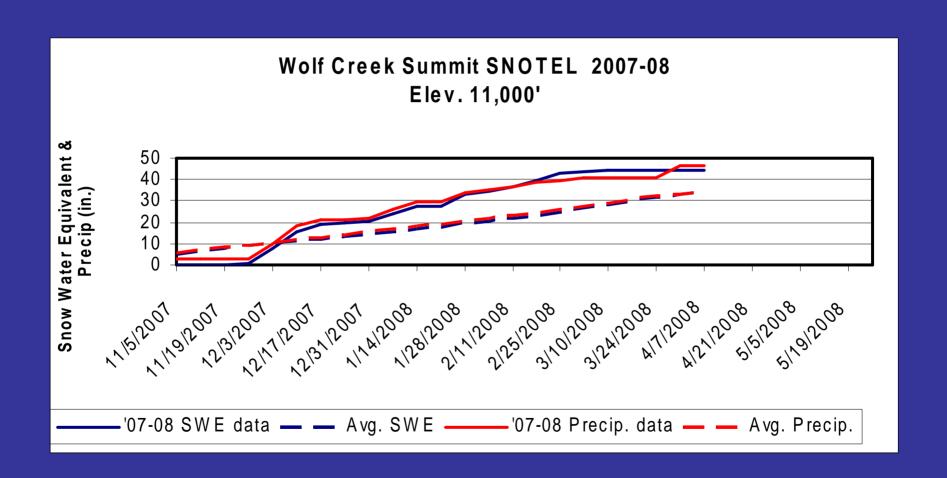
Rio Chama Snow Comparison



Rio Grande Snow Data



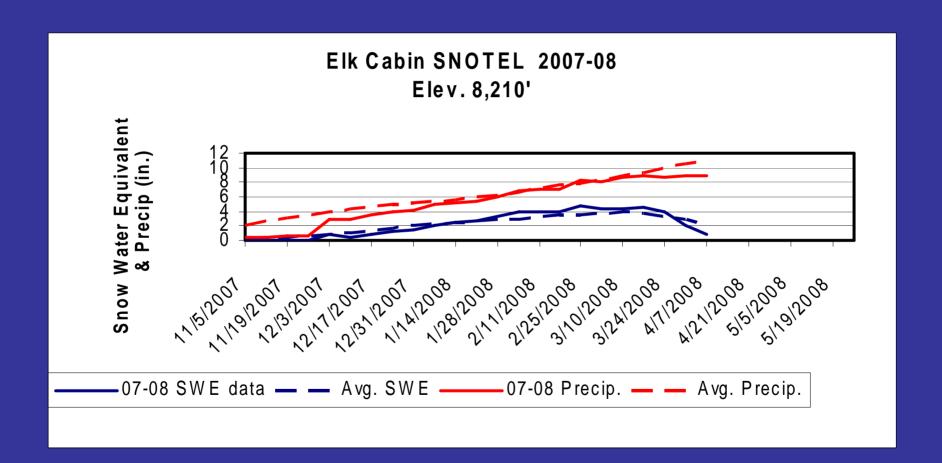
Rio Grande Snow Data



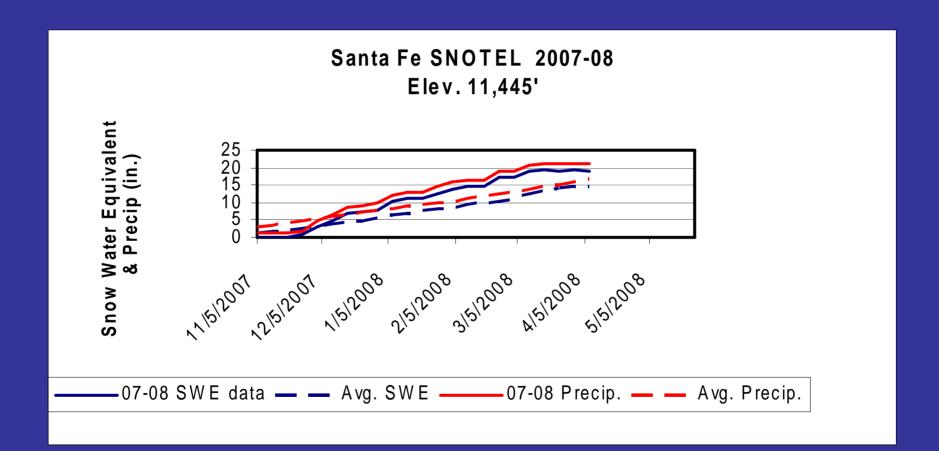
Wolf Creek Pass SNOTEL 4/08/08



Sangre de Cristo Snow Data

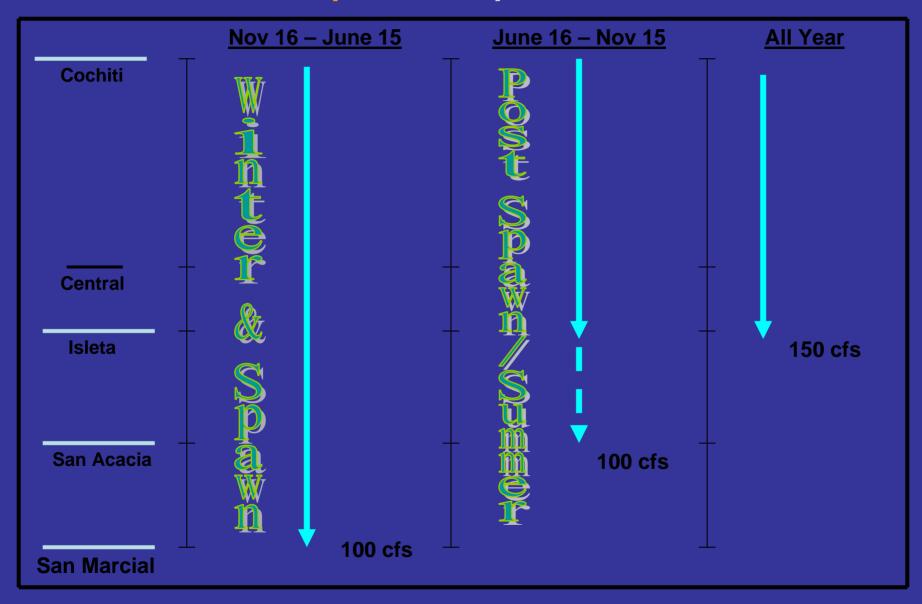


Sangre de Cristo Snow Data



2008 Water Operations Modeling

March 2003 BiOp Flow Requirements - WET YEAR



Major Assumptions

- April 1 50% most probable Forecast
- Wet year target flow requirements
- Same monsoon conditions as forecast hydrograph year (1979)
- No storage occurs under the Emergency Drought Water Agreement for MRGCD & Reclamation

Similar Hydrologic Years

Basin	Pre-Forecast Year	Forecast Year	Post-Forecast Year
San Juan	1979	1979	1979
Rio Chama	1993	1984	1993
Upper Rio Grande	1985	1985	1985
Sangre de Cristo	1987	1987	1987
Middle Rio Grande	1979	1979	1979

April Forecast Data

	Most Probable Percent of Average		April 1 Most Probable Volume (acre-feet)
	2007	2008	2008
Rio Grande nr Del Norte	78%	140%	745,000
El Vado Reservoir Inflow	65%	158%	375,000
Rio Grande at Otowi	62%	155%	1,170,000
Santa Fe River nr Santa Fe	67%	98%	4,500
Jemez blw Jemez Dam	64%	94%	44,000
Heron Reservoir Inflow	68%	150%	150,000

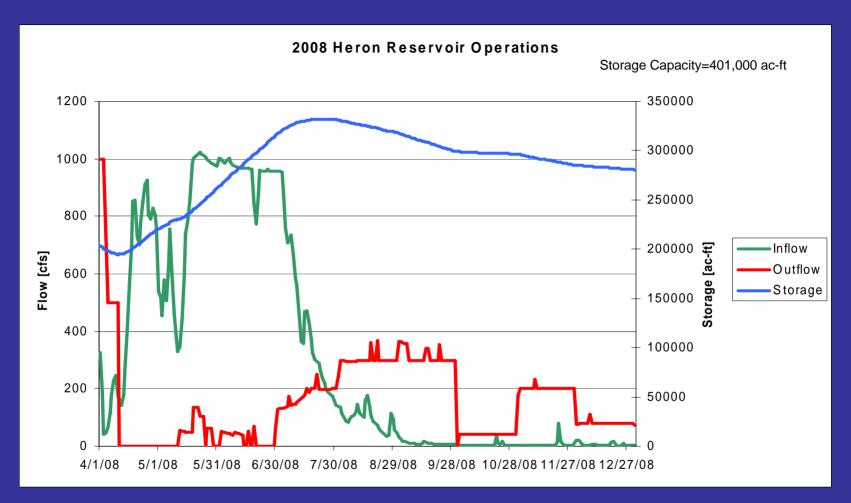
Major Results

- Snowmelt Runoff above normal
- BiOp flow requirements met through out the irrigation season
- Supplemental Water Releases begin early-July
- Heron Reservoir Inflow roughly 150% of average (150,000 af)
- Recreational Flows provided for the Rio Chama through most of the Summer

Heron Reservoir



Proposed 2008 Heron Operations



Heron Reservoir:

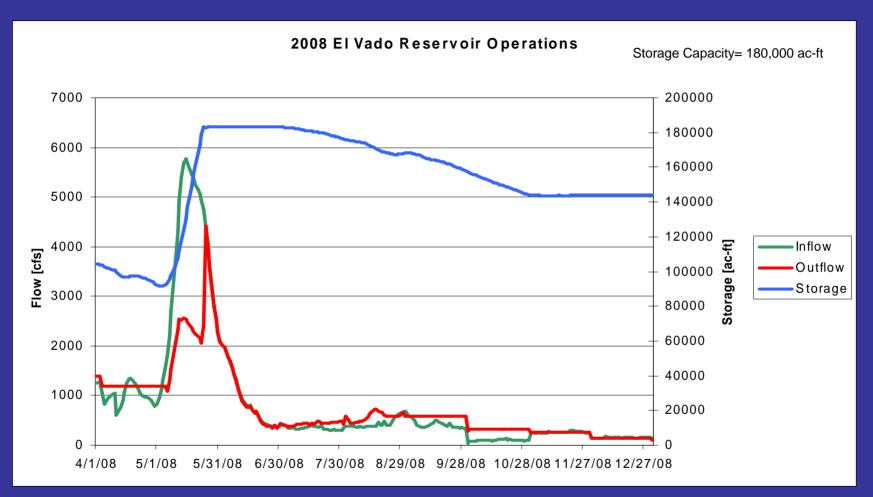
Lake Level: Increasing BOY to EOY from Elevation 7146' to 7164' with a peak of 7174'.

Water Supply: Able to meet this and next years' SJ-C allocations ("BOY" means beginning of calendar year. "EOY" means end of calendar year)

El Vado Reservoir



Proposed 2008 El Vado Operations



El Vado Reservoir:

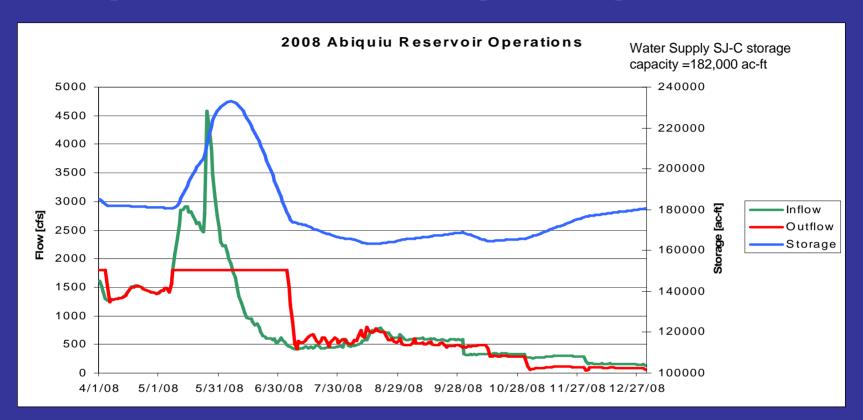
Lake Level: Dropping slightly from a peak at Elev. 6901' to 6888'

Water Supply: Relatively little stored water used this year

ABIQUIU LAKE



Proposed 2008 Abiquiu Operations



Abiquiu Reservoir:

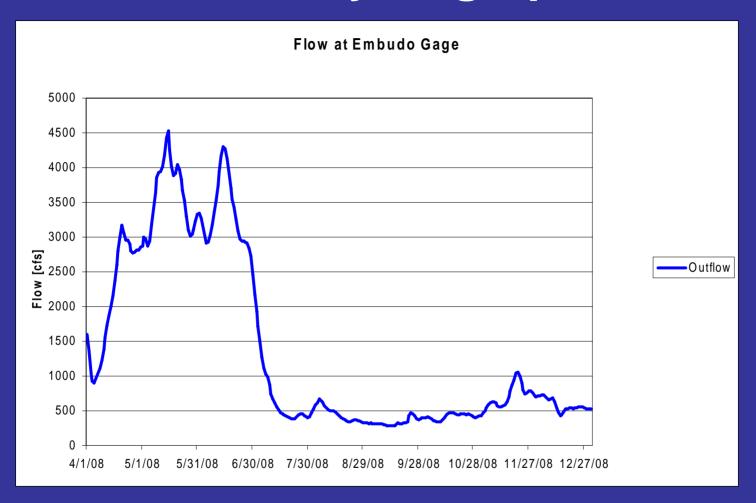
Flood Operations: Downstream channel capacity reached and 50,000 ac-ft temporarily stored

Lake Level: Started at Elev. 6220', dropping to around 6215, then recovering to full at 6220, fall thru EOY

Water Supply: Storing Albuquerque's and others' SJ-C water for the future.

Silvery Minnow: Releasing SJ-C water for Silvery Minnow this year

Estimated 2008 Hydrograph at Embudo



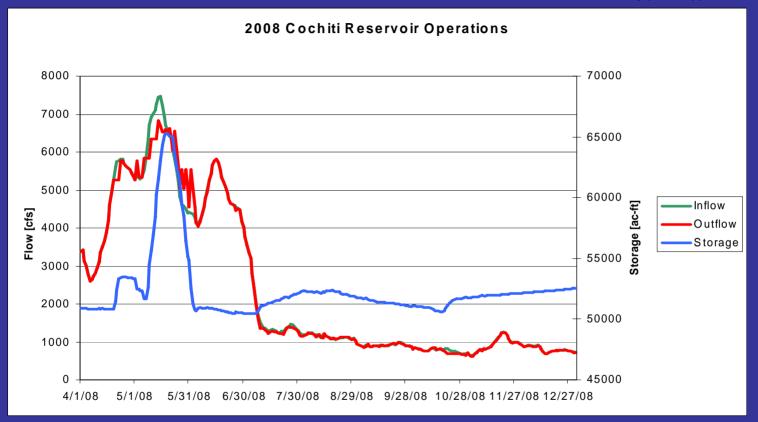
Rio Grande Colorado Border to Rio Chama Confluence:

Spring Runoff Peak: Peak will occur some time in May depending on weather conditions. Flows above 4,000 cfs likely until June.



Proposed 2008 Cochiti Operations

Recreation/Fishery pool= approx 50,000 ac-ft

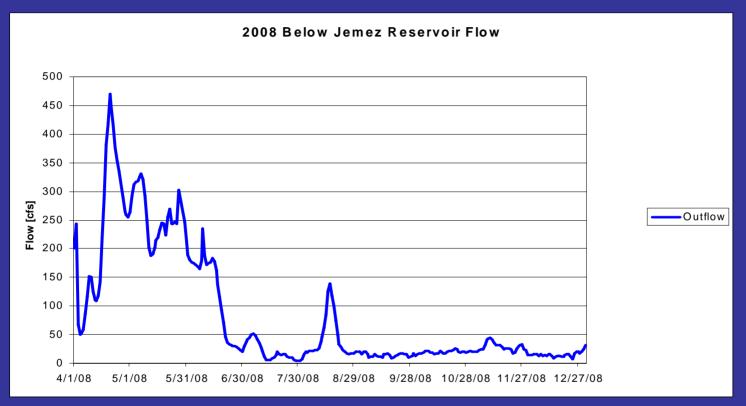


Flood Operations: Approximately 15,000 ac-ft stored in May. Lake Level for Recreation, Fishery: Steady year-round (slight evaporation slope thru spring/summer/fall, refilling at end of year) Water Supply: No water supply storage (just passes inflows downstream)

JEMEZ CANYON DAM



Estimated 2008 Hydrograph below Jemez Reservoir



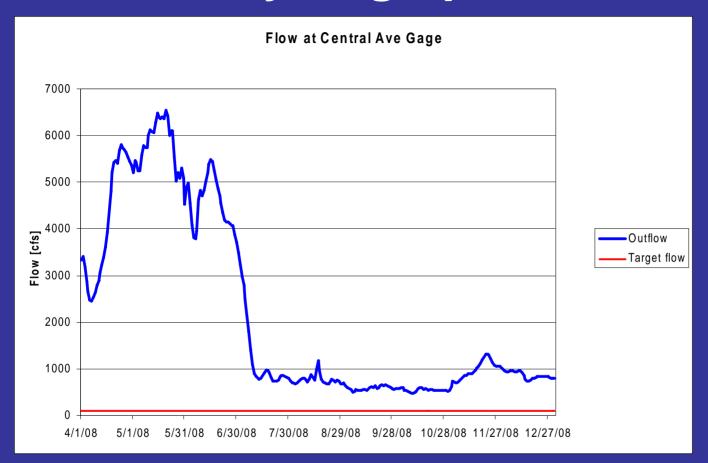
Jemez Canyon Reservoir:

Flood Operations: None expected unless there is rapid snowmelt or are big rains during year

Spring Runoff: moderate volume of water, with a peak of maybe 450 cfs Summer/Fall Flows: Small peaks of 40 to 150 cfs, unless larger rains come Lake Level: Dry except for very short-term, flood storage

Water Supply: No water supply storage (just passes inflows downstream)

Estimated Hydrograph at Central Ave.

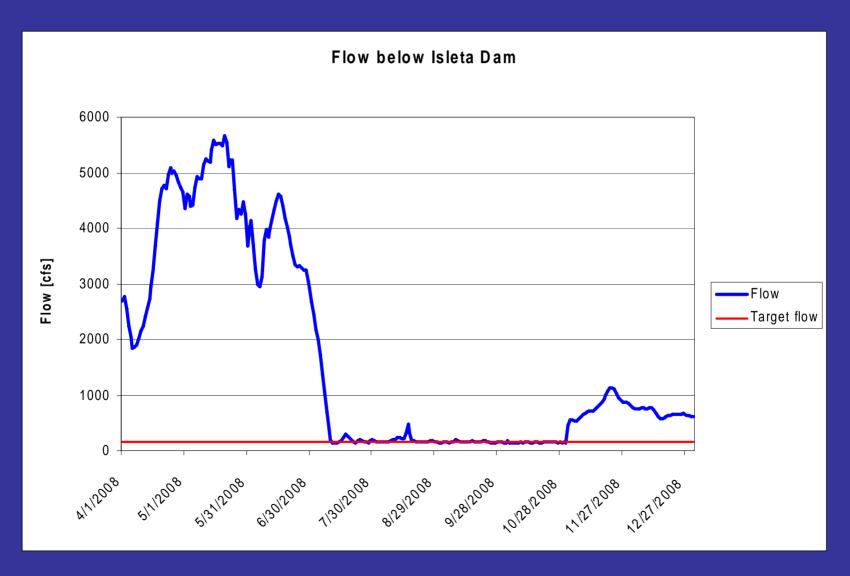


Rio Grande Below Cochiti to Albuquerque:

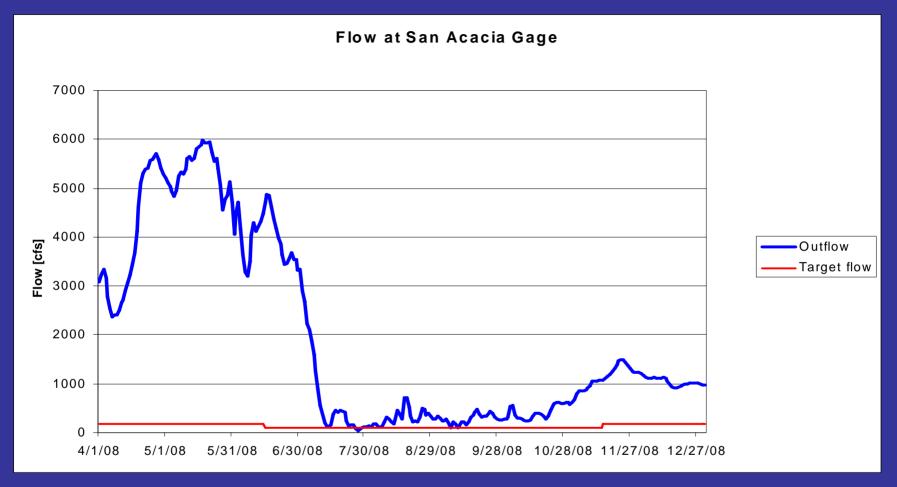
Irrigation Flows: MRGCD Demand peak around 950 cfs late June thru early July.

Silvery Minnow Flows: Maintained above 100 cfs year-round.

Estimated Hydrograph below Isleta Dam



2008 Estimated Flow at San Acacia



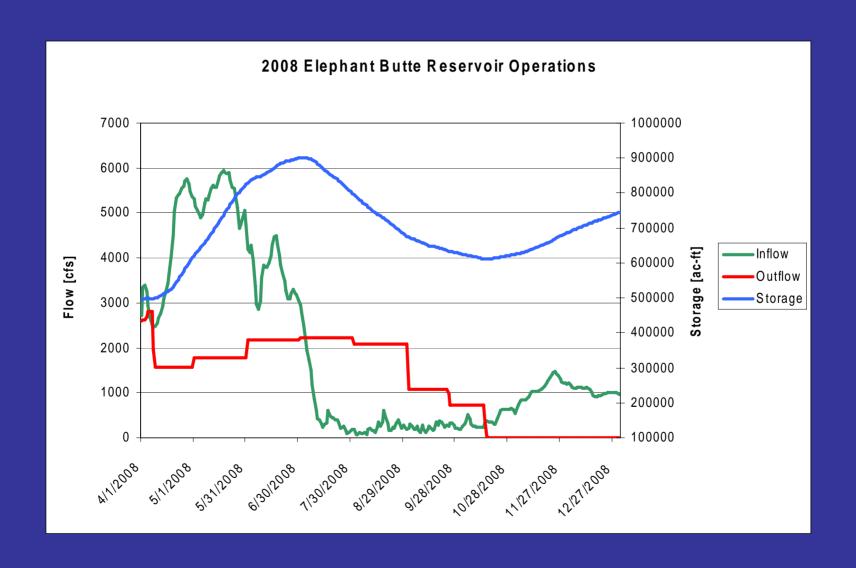
Rio Grande Albuquerque to San Acacia:

Silvery Minnow Flows: Wet thru June 15th. Minimum flow of 150 cfs at Isleta Dam. Recession/drying at times afterwards

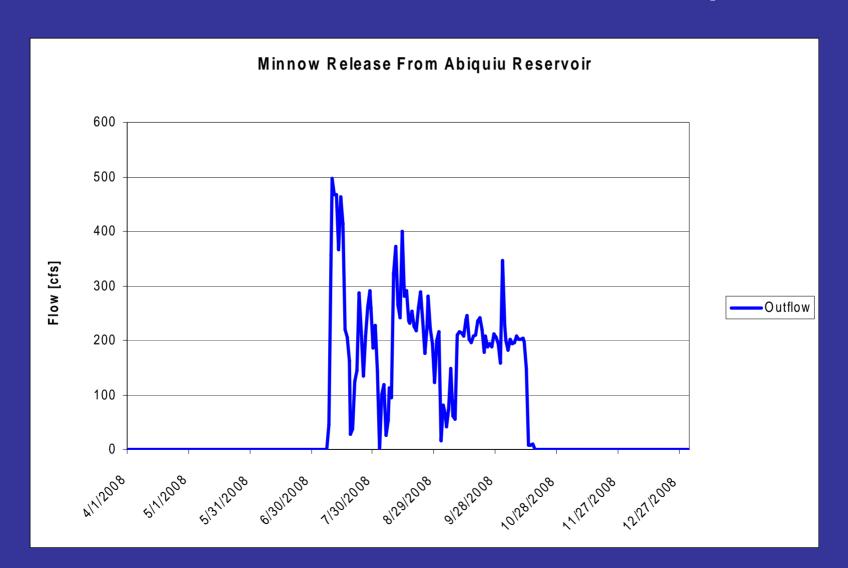
Rio Grande San Acacia to San Marcial:

Silvery Minnow Flows: Wet thru June 15th with a target flow of 100 cfs at San Marcial. Minimum of 100 cfs at San Acacia after June 15. Recession/drying at times, with dry stretches and occasional re-wetting from monsoons

Proposed 2008 Elephant Butte Operations



2008 Estimated Supplemental Water Released from Abiquiu



2008 Supply/Demand Outlook

Supply	Demand		
50,000 -60,000	~40,000		

 Actual supplemental water used in the model run is approximately 40,315 ac-ft