Compacts at a glance... North Chevenne Salt Lake City. Denver coeka Carson City Sacramento ANDROSE A **ILS, Supreme Good Cases** istilka Creek Basin Santa Fe Metrosko e Wyoming 325 U.S. 589 (1945) (North Platta River). Divides water in the North Platte River among Colorado, Nebraska and Wyoming, Limits total irrigation in Jackson County, Colo. to 145,000 acres and 17,000 acre-feet of storage for irrigation in each season. Limits total water exports from transbasin diversions from Phoenix the North Platte River in Colorado to no more than 60,000 Rio Grande Basin acre-feet during any 10-year period. Wyoming v. Calarado, 353 U.S. 953 (1957) (Laramie River). Establishes states' rights to water in the Laramie River Basin, Limits total disemipos from the Lamonia River in Colorado to 39 750 acro-feet. Informational Unadies Austin* Mexican Treaty on the Rio Grande, Tijuana and Colorado Rivers (1944). Guarantees delivery of 1.5 million acre-feet of Colorado River water per year to Mission Mexico except in times of extraordinary drought when the United States can reduce deliveriss in the same proportion as the United States cuts its consumptive use. If the river does not have adequate water to meet the obligations under the treaty, the Doper Colorado River Basin and Lower Colorado River Basin must share the obligation of reducing use to make up deficiencies. Convention with Mexico on the Rio Grande above Fort Quitman, Texas (1906). Requires that the United States deliver 60,000 page-feet of water annually at the international Dam at Gudad Journz except during periods of extraordnary drought. Elephant Buttle Reservoir in New Mexico was constructed in part to meet this obligation.

Interstate Compacts

South Platte River Compact (1929), Divides the waters of the South Platte River between Colonato and Nebraska, giving Colonato the right to fully use the water between Oct. 15 and April 1. During the irrigation season, Colonado will deliver 120 cubic feet per second to Nebraska at Juleabury. If the fine is issue than 120 cubic feet per second, Colonado must control juvior diversions. The State Engineers are authorized to administer the compact.

Republican River Compact (1942). Divides the waters of the Republican River Basin strong Colorado, Kansas and Rebranko. Colorado is granted 54,100 acre-feet of water sach year. The compact allocates 190,300 acre-feet of water each year to Kansas and 234,500 acre-feet of water such year to Rebranko. If the water capply of any source varies, the allocations also change. A commission oversees compliance.

Arkanuss River Compact (1948), Divides the waters of the niver between Colorade and Kansas primarily based on 1949 candition. An intendate agency administers provisions of the compact and oversees operations of John Martin Reservoir. Principles adopted in 1980 provide for storage accounts in John Martin Reservoir for water users in both states.

Costilla Croek Compact (1944; revised 1963), Establishes uses, allocatives and administration of the waters of Costilla Croek in Colorado and line Mosico. A commission oversees compliance. Later amendments specify rights to water in specific buildine.

No Grande Compact (1938). Details obligations of Colorado and New Mexico to deliver water for descriptions storm, including Mexico and Texas, sets brink replace of delits and credits and rules to account for factuations in stream flow A commission or established to administer terms.

Colorado River Compact (1922), Apportices 7.5 million screfeet of consumptive use per year to the Upper Basin and the name amount to the Lover Basin. The Upper states may not cause the flow of the Colorado River at Lee Ferry, Ariz, to be depieted below an aggregate of 7.5 million acre-feet for any period of 10 consocutive years. The State Engineers, Bureau of Rectamation and U.S. Sociological Survey administrate the compact.

Opper Colorado River Compact (1948). Apportous a percentage of available river water to each Upper Basin state as follows. Actions, 50,000 acro-feet each year. Colorado, 51.75%; Ubds. 22%; Wyoming, 14%; and New Mexico, 11.25%. The Upper Colorado Rever Commission overseen compliance.

Le Plate River Compact (1922), Grants Colorado and New Maccou surestituted use of the neitr between Dec. 1 and Feb. 15. At other times, each state can use the Bow of the river at the state line if the New in in success of 100 cubic bett per second. If the New in Ieas. Colorado must ensure delivery of New equal to come had the Mace of the New 101.

Animon-La Plata Project Compact (1968), Unusual because it addresses a water project rather than dividing new votiers, the compact gives the Mission and Colorado equal priority in rights to store and divert project water. The ambitious project has been repeatedly acaded tack. The one menuioning reservoir started Sting in 2009.

Colorado Is A Headwater State

- Flows to 18 Downstream States
- Uses Downstream Developed Earlier

Landmark Cases (U.S. Supreme Court)

- Kansas v. Colorado 1901
 - Arkansas River, "Equitable Apportionment"
 - Could Allocate Stream to offset advantages of other State
- Wyoming v. Colorado 1922
 - Laramie River
 - Doctrine Prior Appropriation could be applied Interstate Basis

Interstate Compact

- Agreement Between Two or More States
 - Approved by State Legislatures
 - Approved by Congress

Water Compacts

- Establishes How States Share Water
- Colorado party to 9 Compacts

Why Interstate Compacts?

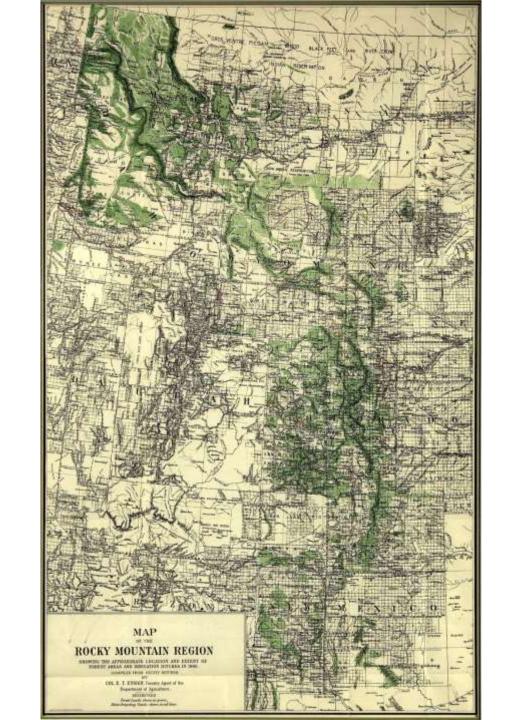
Interstate Compacts

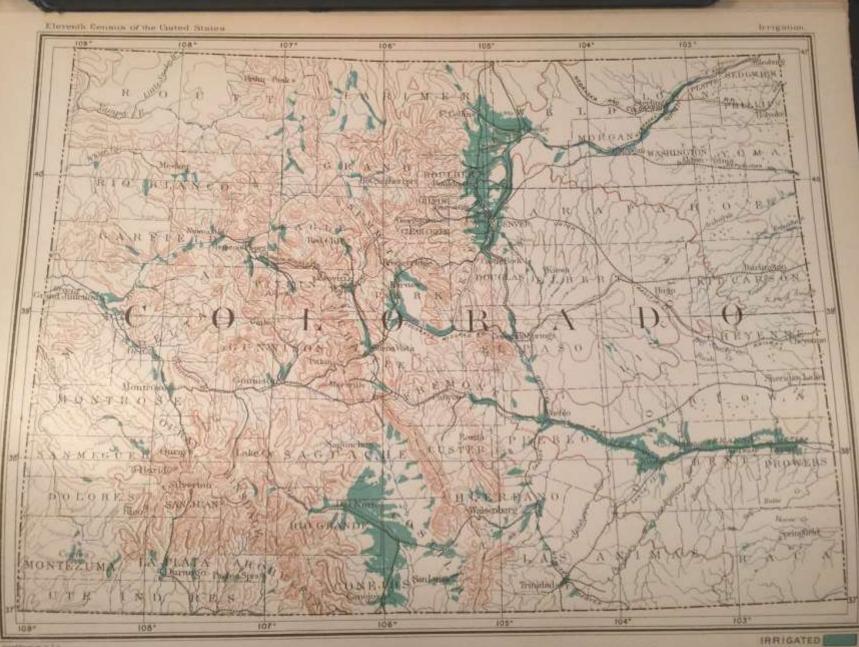
- South Platte River Compact (1923)
- Republican River Compact (1942)
- Arkansas River Compact (1948)
- Costilla Creek Compact (1944, 1963)
- Rio Grande Compact (1938)
- Colorado River Compact (1922)
- Upper Colorado River Compact (1948)
- La Plata River Compact (1922)
- Animas-La Plata Project Compact (1968)

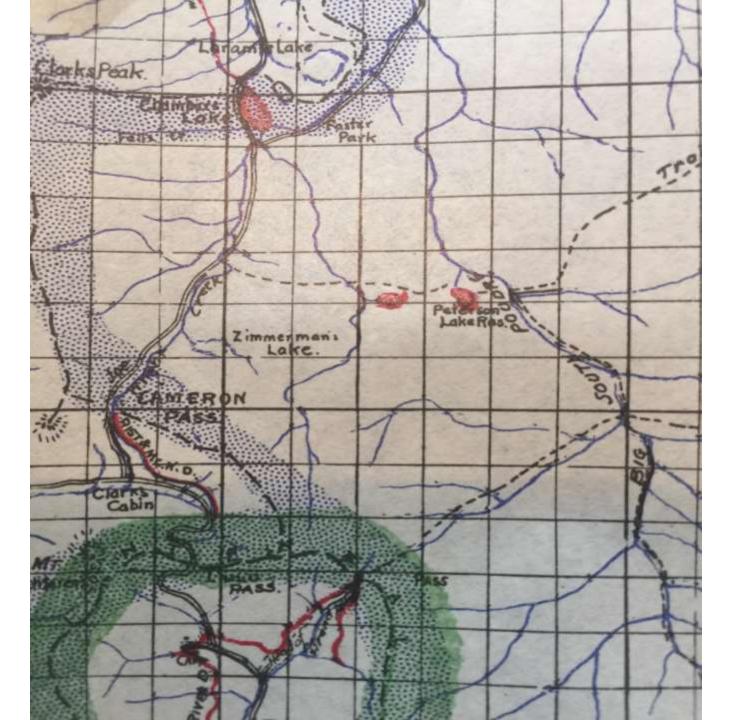
Nine Interstate Compacts

- Mexican Treaty 1944
 - Rio Grande
 - Tijuana River
 - Colorado River
 - Delivery of 1.5 Million af to Mexico
- Convention with Mexico 1906
 - Rio Grande
 - Delivery of 60,000 af

Two International Treaties











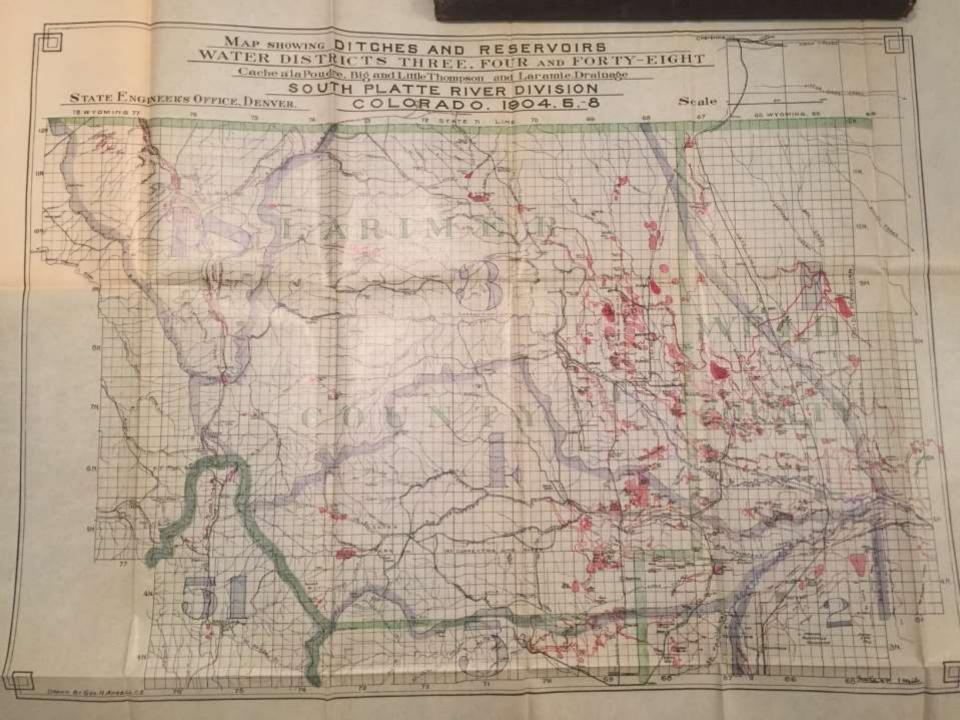








DELPHUS EMORY CARPENTER

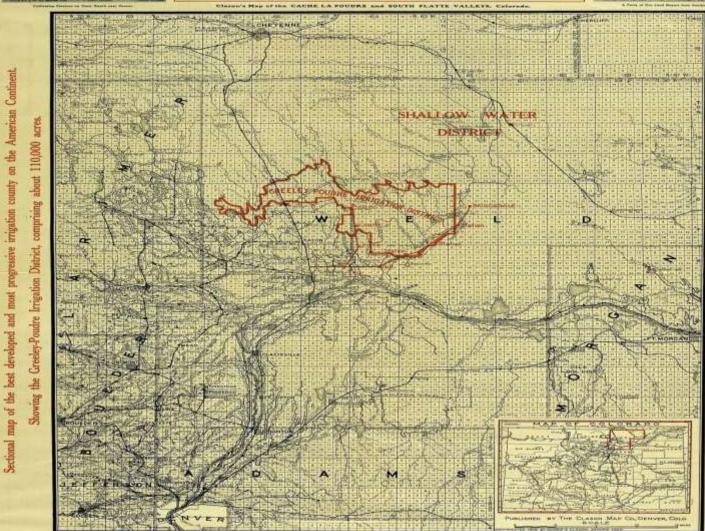


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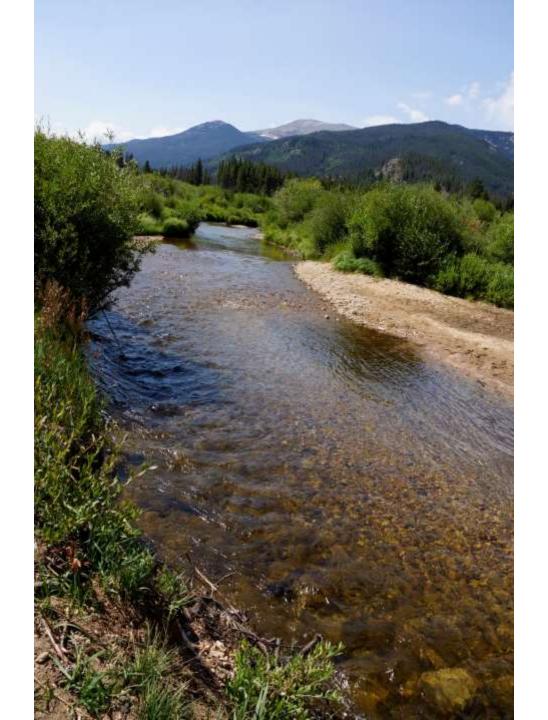
WILSON-PROCTOR REALTY CO.

Grover, Colorado.

MAIN OFFICE, IRON BUILDING, DENVER.

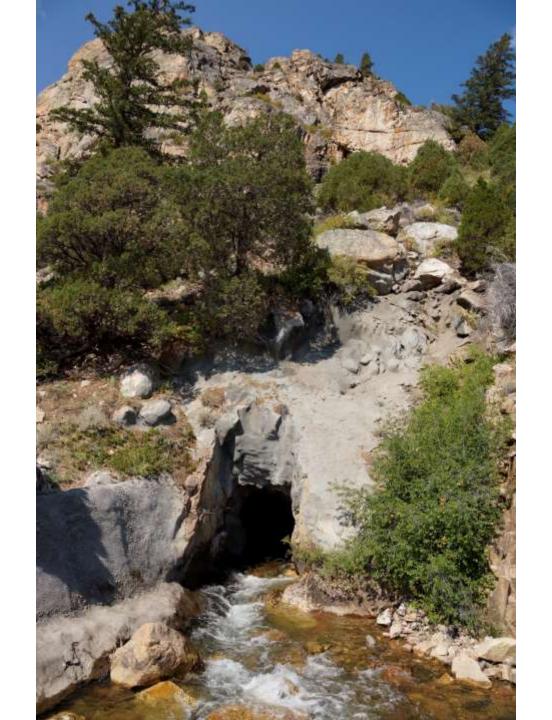


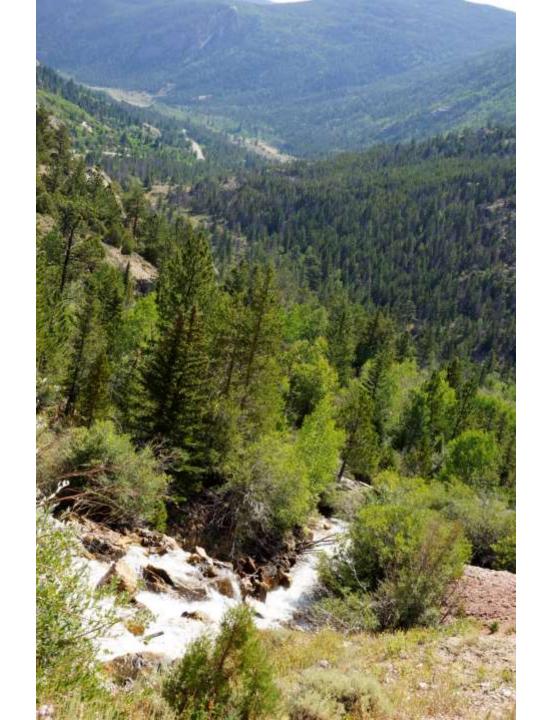
- FERTILE CROW CREEK VALLEY

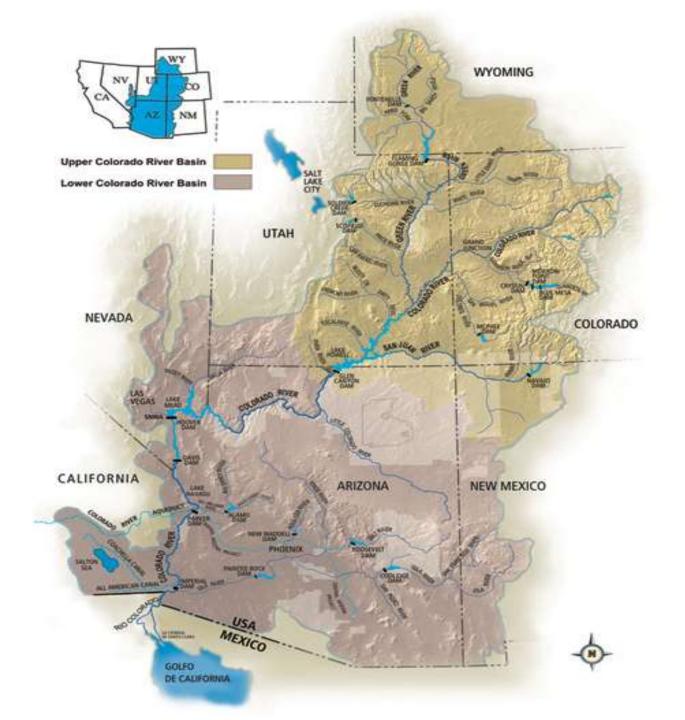




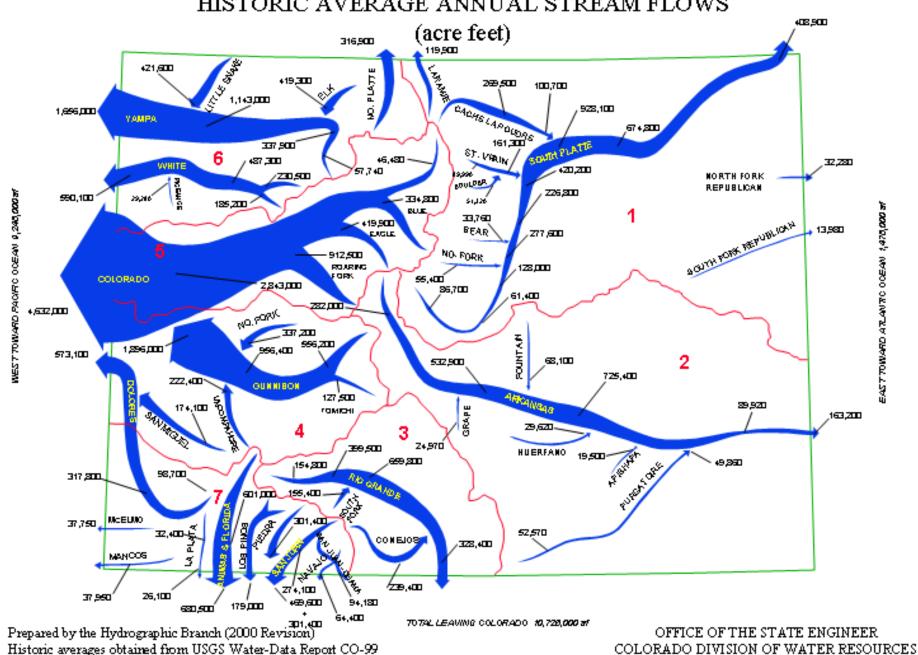


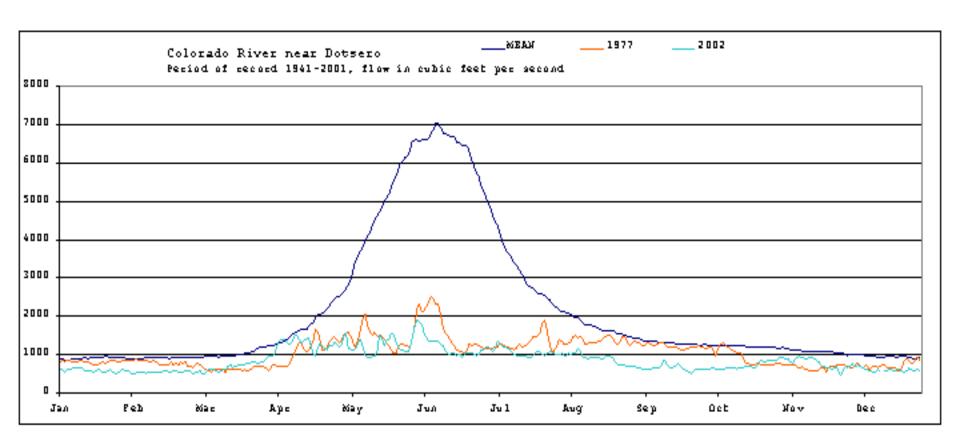






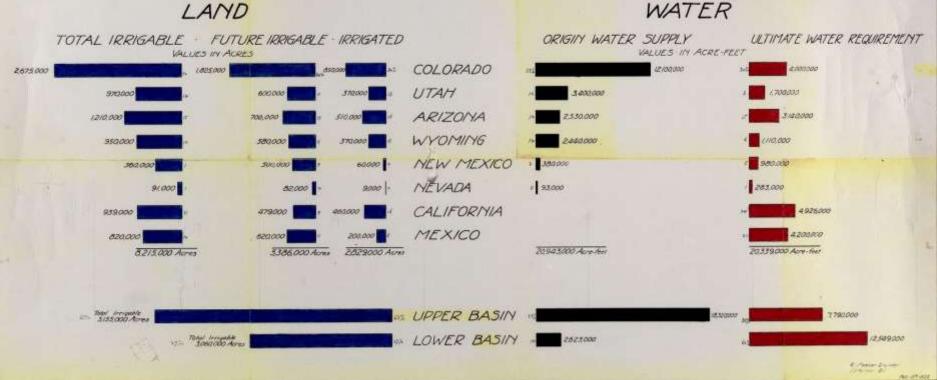
COLORADO HISTORIC AVERAGE ANNUAL STREAM FLOWS

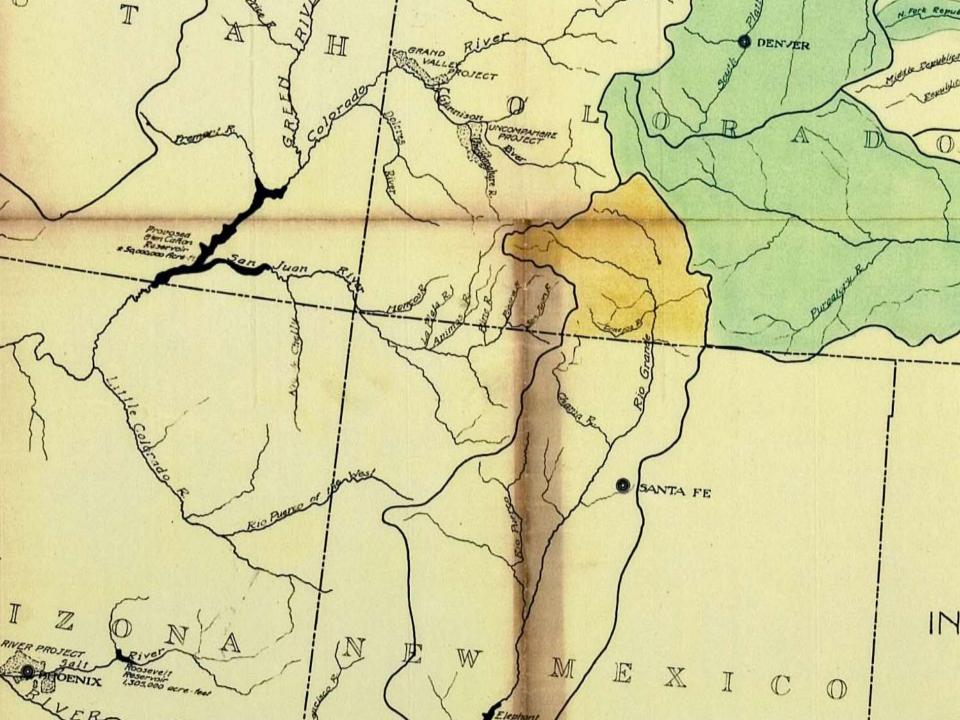




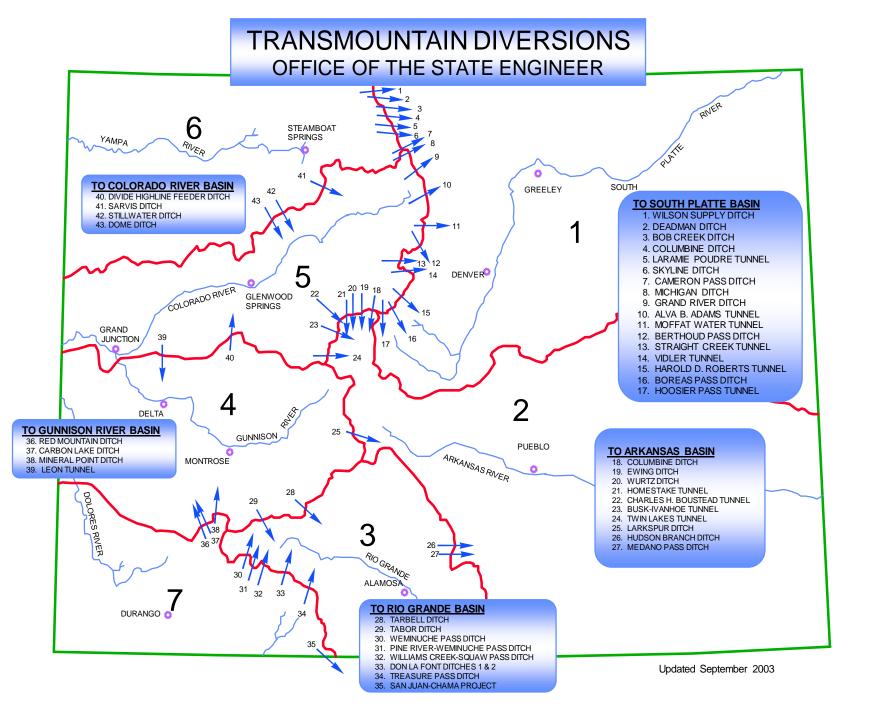
COLORADO RIVER BASIN

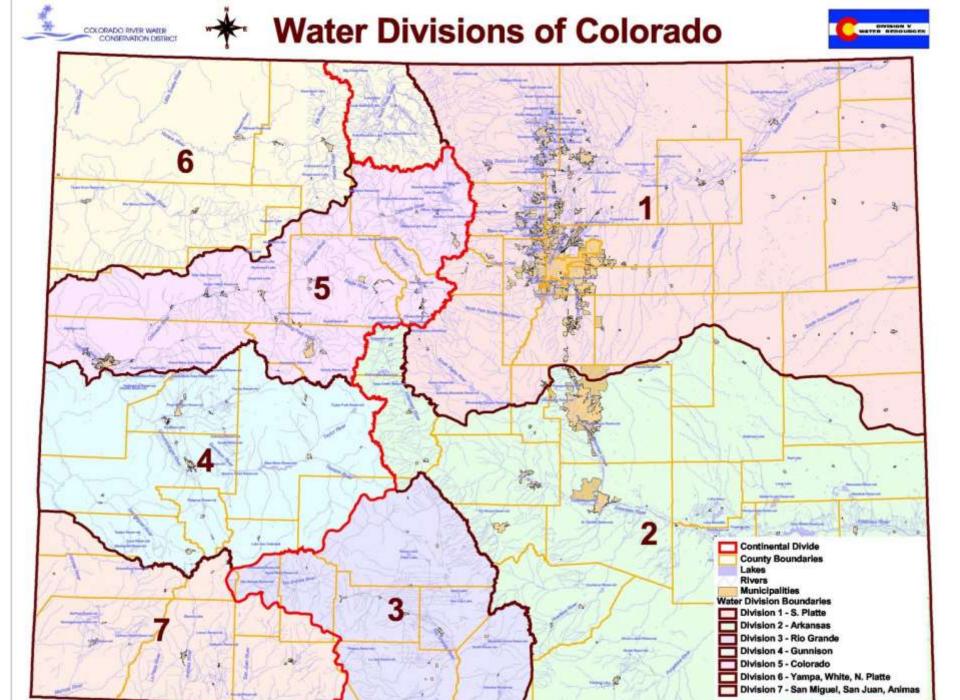












- Allocates Flow Colorado & New Mexico
 - Unrestricted Use Both States
 - Between Dec 1 and Feb 15
 - CO Deliver ½ Flow to NM following day
 - Upper Index Hesperus, CO
 - Lower Index Colorado-New Mexico Stateline
 - Beneficial Use, Max Delivery Requirement of 100 cfs

La Plata River Compact 1922

- Apportions 7.5 million af/yr Upper Basin (Division CO, UT, WY, NM)
- Apportions 7.5million af/yr Lower Basin (Division CA, AZ, NV)
 - Upper States cannot cause the flow at Lee Ferry, AZ to be depleted below 75 million af for 10 year period
- Mexican Allocation first from Surplus
 - Above 15 million af Colorado River
 - Splits Obligation between the basins
 - Mexican Treaty 1944 1.5 million af/yr
- Based on Consumptive Use

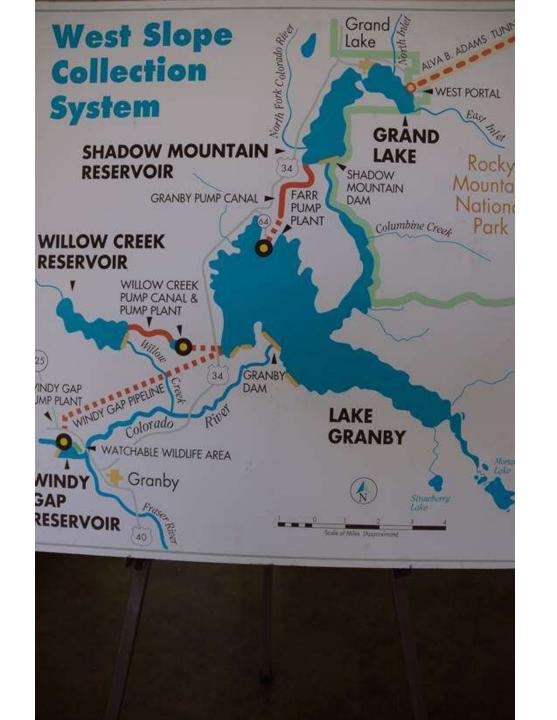
Colorado River Compact 1922

"Law of the River"

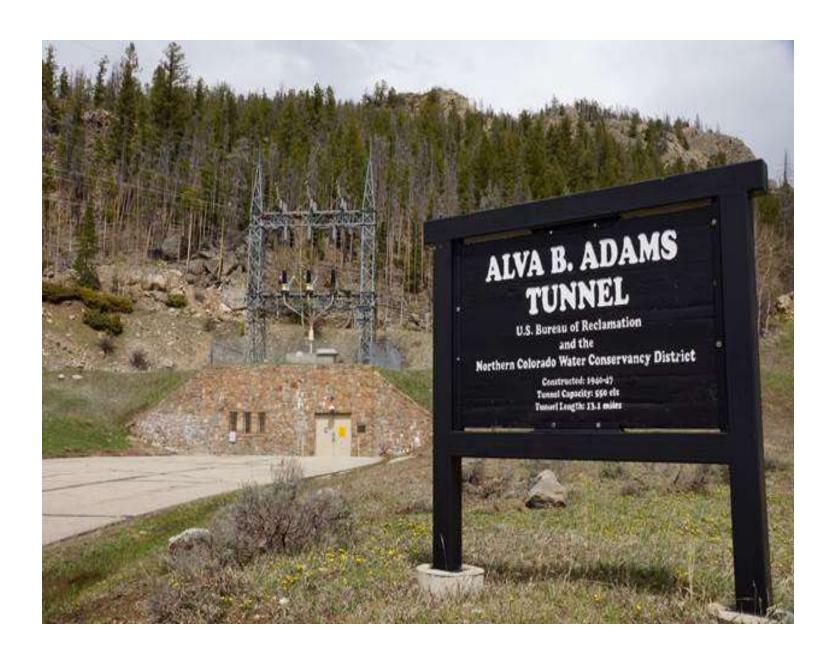
- 1922 Colorado River Basin Compact
- 1944 International Mexico Treaty
- 1948 Upper Colorado River Basin Compact
- 1928 Boulder Canyon Project Act
- 1956 Colorado River Storage & Participating Projects Act
- 1964 Decree in Arizona v. California
- 1968 Colorado River Basin Act
- 2007 Interim Guidelines
 - Coordinate Operations Lake Powell & Lake Mead
 - Lower Basin Shortages

Colorado River Hydrology

- Natural Flow at Lee Ferry 1906-2014
 - 14.8 maf/year)
- Natural Flow at Lee Ferry 1988-2014
 - 13.2 maf/year
- Natural Flow at Lee Ferry 2000-2014
 - 12.3 maf/year
- *Sources: Basin Study, Natural Flow Data Base











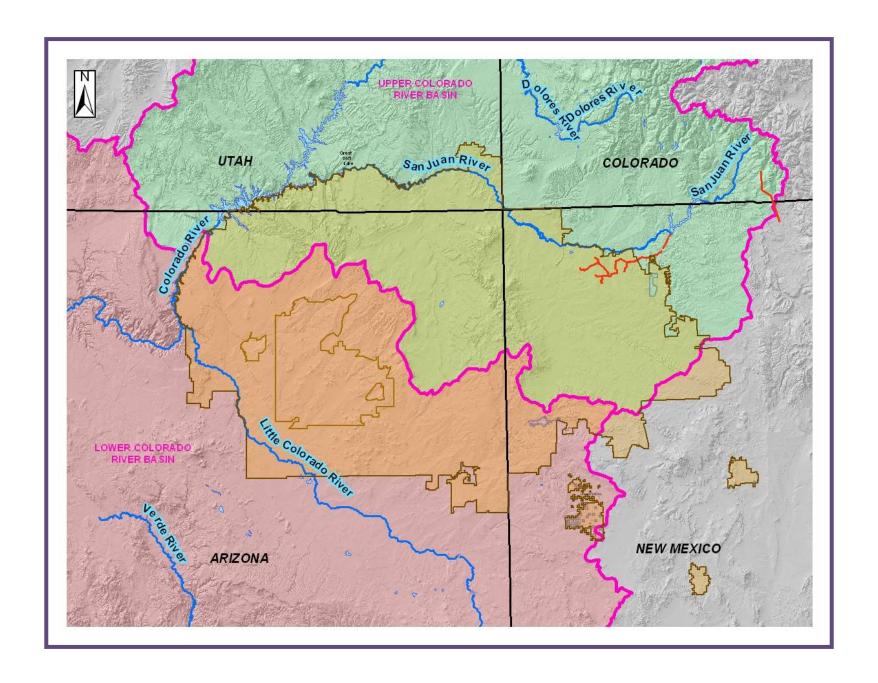












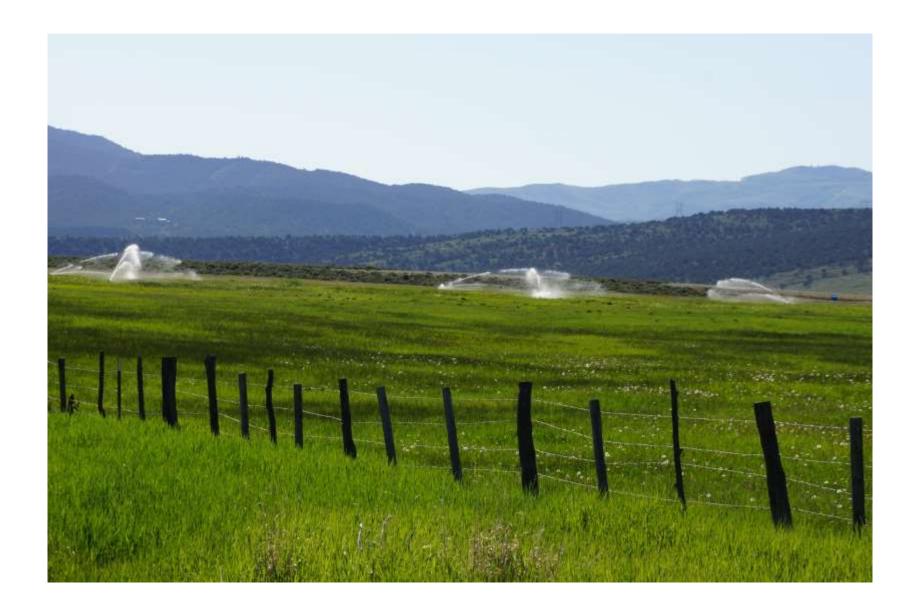






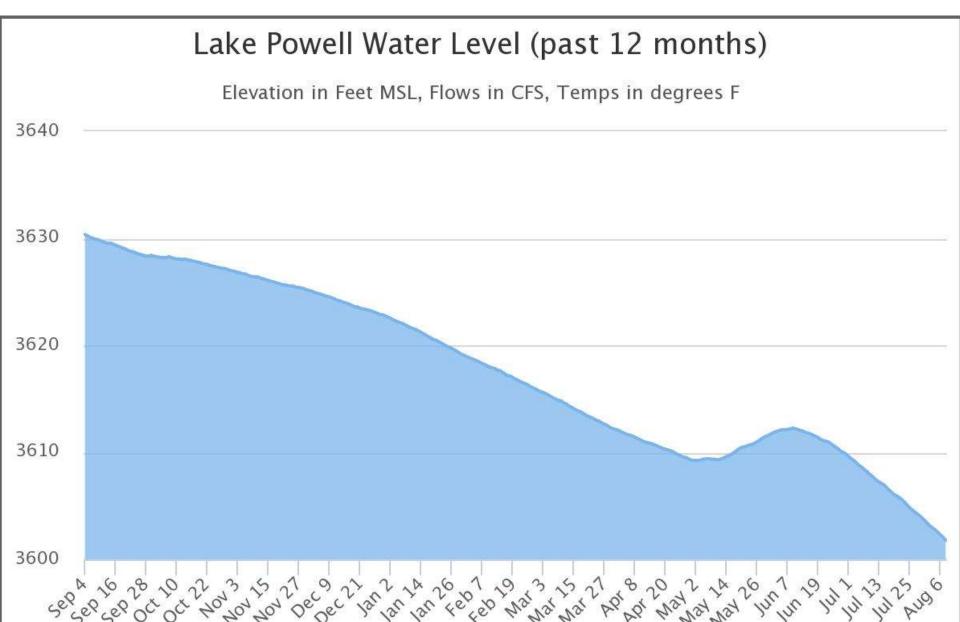




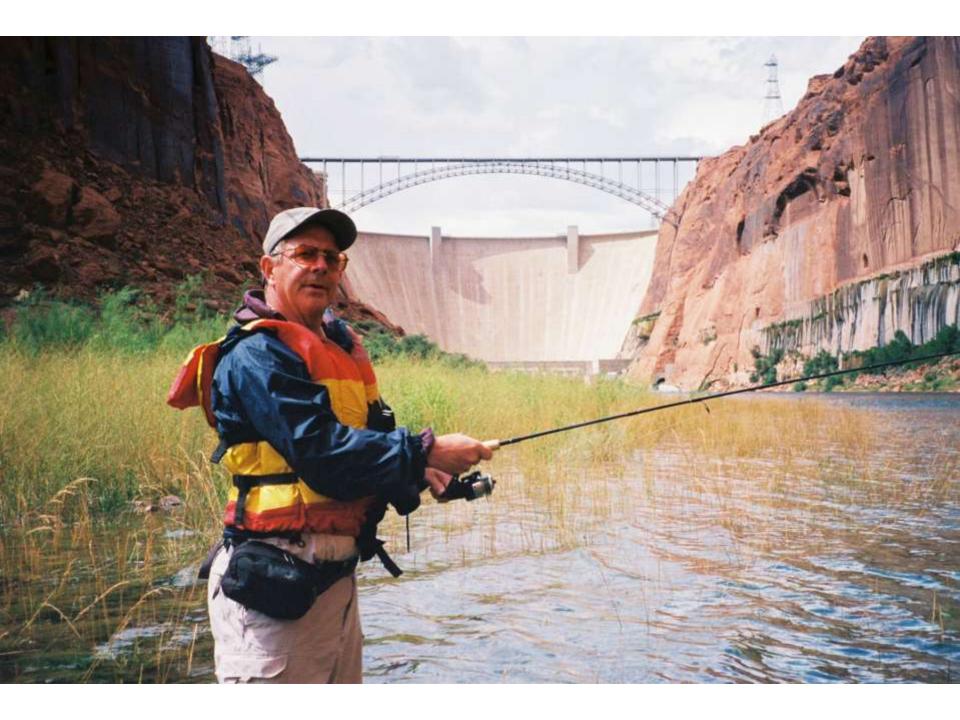


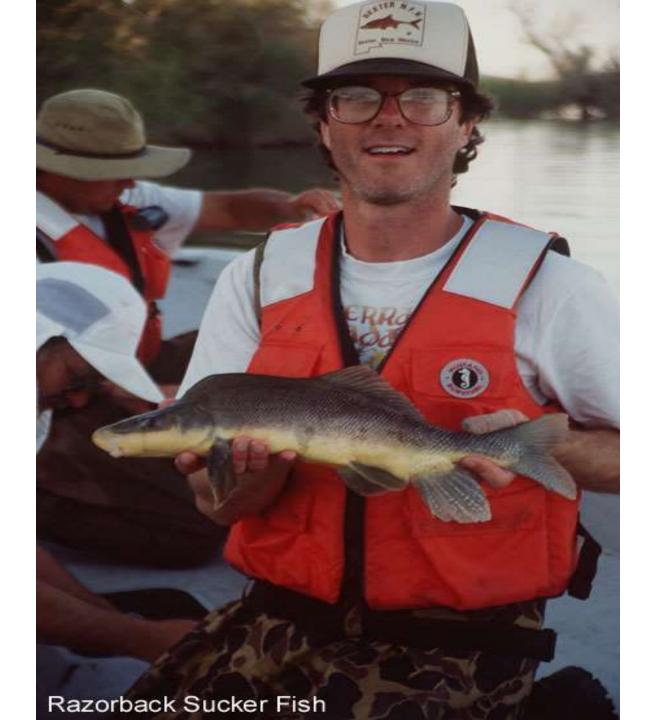






Highcharts.com





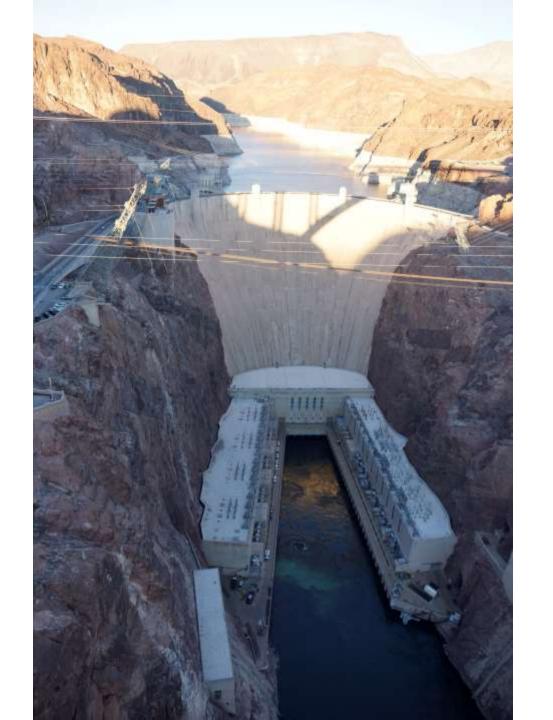


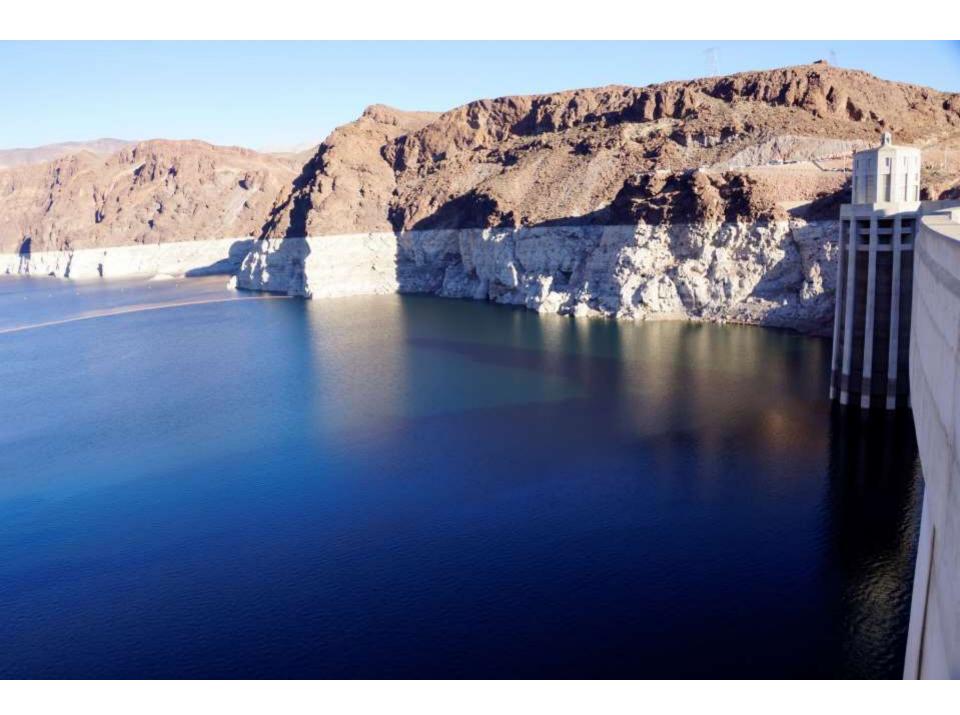












"Law of the River"

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Current Conditions

- Lake Powell is currently at 3598' (11.4 MAF, 47%);
 Lake Mead is at 1079' (9.9 MAF, 38%)
- Reclamation operations are in the Upper Elevation Balancing Tier (9.0 MAF release for 2018).
- August 2018 24-Month Study, operations for <u>2019</u> are in the Upper Balancing Tier (8.23-9.0 MAF release, but can be adjusted April 2018)
- Lake Powell Min Power Pool 3490'
- Contingency Plan Possible Critical Elevation 3525'
- Power Production and Las Vegas water supply (Lake Mead) could be at risk during drought conditions

Balancing Tier Interim Guidelines

Lake Powell			Lake Mead		
Elevation (feet)	Operation According to the Interim Guidelines	Live Storage (maf) ¹	Elevation (feet)	Operation According to the Interim Guidelines	Live Storage (maf) ¹
3,700	Equalization Tier Equalize, avoid spills	24.3	1,220	Flood Control Surplus or Quantified Surplus Condition Deliver > 7.5 maf	25.9
3,636 - 3,666 (2008-2026)	or release 8.23 maf Upper Elevation Balancing Tier ³	15.5 - 19.3 (2008-2026)	1,200 (approx.) ²	Domestic Surplus or ICS Surplus Condition Deliver > 7.5 maf	22.9 (approx.) ²
3,575	Release 8.23 maf; If Lake Mead < 1,075 feet, balance contents with a min/max release of 7.0 and 9.0 maf Mid-Elevation Release Tier Release 7.48 maf; If Lake Mead < 1,025 feet,	9.5	1,145		15.9
			1,105	Normal or ICS Surplus Condition Deliver ≥ 7.5 maf	11.9
			1,075	Shortage Condition Deliver 7.167 ⁴ maf	9.4
3,525	release 8.23 maf Lower Elevation	5.9	1,050	Shortage Condition Deliver 7.083° maf	7.5
			1,025		5.8
3,490	Balancing Tier Balance contents with a min/max release of 7.0 and 9.5 maf	4.0	1,000	Shortage Condition Deliver 7.0 ⁵ maf Further measures may be undertaken ⁷	4.3
3,370		o	895		0

