COLORADO RIVER COMPACT AND LAW OF THE COLORADO RIVER

Interbasin Compact Committee December 4, 2013

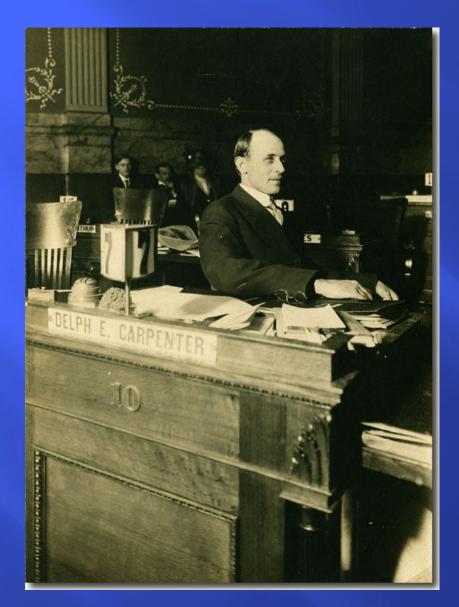
John H. McClow Colorado Commissioner, Upper Colorado River Commission

DISCLAIMER

The Colorado River Basin







Delphus Emory Carpenter

Colorado River Compact



- Interstate Compact
- Contract among states
- Authorized by U. S.
 Constitution
- Ratified by
 - State Legislatures
 - U. S. Congress
- State Law
- Law of United States

Key Provisions of the Colorado River Compact

Article III(a)

Apportions to Upper Basin and Lower Basin 7.5 million acre-feet per year in perpetuity

Article III(c)

Defines obligations of Upper and Lower Basins for deliveries to Mexico

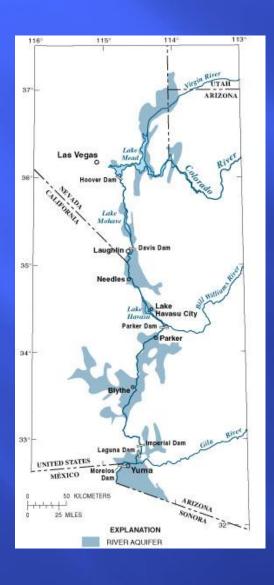
Article III(d)

Upper Division will not deplete flows at Lee Ferry below an aggregate of 75 million acre-feet over any period of ten consecutive years

Article VIII

Present perfected rights ar e unimpaired

Lower Basin Operations



Nevada – 300,000 acre-feet (Las Vegas intakes – Lake Mead)

Arizona – 2.8 million acre-feet (Central Arizona Project)

California *- 4.4 million acre-feet
(Direct diversion - PVID; Colorado
River Aqueduct - MWD; AllAmerican Canal - IID)

* Senior priority

Mexican Water Treaty



TREATY SERIES 994

UTILIZATION OF WATERS OF THE COLORADO AND TIJUANA RIVERS AND OF THE RIO GRANDE

TREATY BETWEEN THE UNITED STATES OF AMERICA AND MEXICO

Signed at Washington February 3, 1944.

AND PROTOCOL

Signed at Washington November 14, 1944.

Ratification advised by the Senate of the United States of America April 18, 1945, subject to certain understandings. Ratified by the President of the United States of America November 1, 1945, subject to said understandings.

Ratified by Mexico October 16, 1945.

Ratifications exchanged at Washington November 8, 1945. Proclaimed by the President of the United States of America November 27, 1945, arbject to said understandings. Effective November 8, 1945.



UNITED STATES GOVERNMENT PRINTING OFFICE Article 1

International Boundary and Water Commission

Article 10(a)

1.5 maf "guaranteed" to Mexico annually

Article 10(b)

"surplus of waters" and

"extraordinary drought" provisions

Upper Colorado River Basin Compact

Article I

"equitable division and apportionment of the use of waters"

Article III(a)

- Arizona 50,000 af
- Colorado 51.75%
- Utah 23.00%
- Wyoming 14.00%
- New Mexico 1.25%

Article III(b)

- Apportionment of any and all man-made depletions
- Beneficial use is the basis, measure, and limit

Article IV

- In the event of curtailment Commission determines quantities
- Penalty for over use by any state

Navajo Reservoir



Flaming Gorge Reservoir



Blue Mesa Reservoir





Lake Powell

Historic
Annual Release:
8.23 million
acre-feet

2014 Release: 7.48 maf

Inflows to Lake Powell

Percentage of 30-year average (12.04 maf)

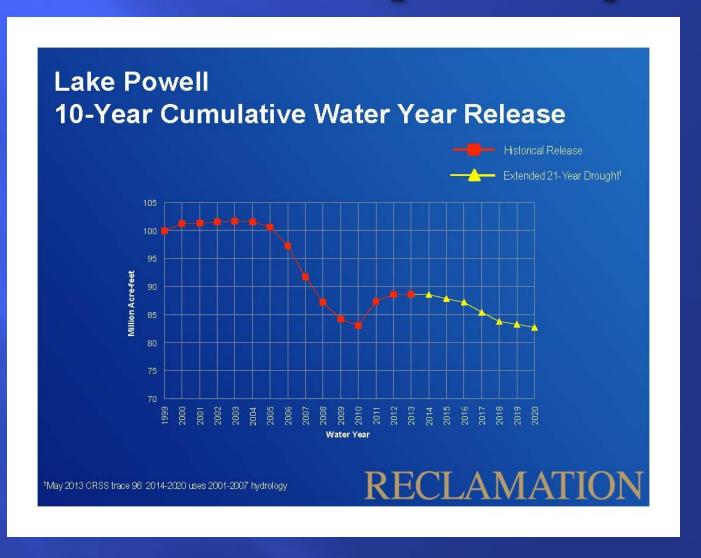
- 2000 62%
- 2006 71%
 - 2012 29%2013 47%

- 2001 59%
- 2007 68%
- 2002 25%
- 2008 102%
- 2003 51%
- 2009 92%
- 2004 49%
- 2010 73%
- 2005 105%
- 2011 142%



Historic Flow at Lee Ferry

2000	9,530	101,754
2001	8,361	101,983
2002	8,348	102,308
2003	8,372	102,543
2004	8,348	102,585
2005	8,395	101,738
2006	8,508	98,716
2007	8,422	93,265
2008	9,180	89,004
2009	8,406	85,870
2010	8,436	84,777
2011	13,227	89,643
2012	9,534	90,829





John W. Suthers Attorney General Cynthia H. Coffman Chief Deputy Attorney General Daniel D. Domenico Solicitor General

STATE OF COLORADO DEPARTMENT OF LAW

Natural Resources and Environment Section

November 21, 2013

Ralph L. Carr Colorado Judicial Center 1300 Broadway, 7th Floor Denver, Colorado 80203 Phone (720) 508-6000

MEMORANDUM

TO: John McClow, Colorado Commissioner Upper Colorado River Commission

FROM: Karen.Kwon, First Assistant Attorney General

RE: Issues related to Compact Compliance/Curtailment Implementation

Per your request, the following is a subset of questions related to curtailment that will have to be answered or litigated to successfully implement compact compliance:

NOTE: This is a subset of curtailment issues that have been identified, and should not be considered exhaustive under any circumstances.

- How will the Amount of Each Upper Division State's Curtailment be Determined?
 - a. What is the basis for calculating the amount of water at Lee Ferry?
 - b. What should each Upper Division State's allocation calculated assuming its percentage of 7.5 MAF/yr or is each allocation calculated using a safe yield of some smaller volume?
 - c. What accounting system will the Commission use to monitor consumptive water use that has been curtailed for compact purposes?
 - d. Has there been any overdraft by an Upper Division State?
 - e. Where should each Upper Division State's share of curtailment be measured?
 - f. Can an Upper Division State effectively account for and protect water that results from curtailment? What prohibits a downstream state of

ADAPTING THE LAW OF THE RIVER

CONTINGENCY PLANNING

Adapting the Law of the River

2007 Interim Shortage Guidelines

	Lake Powell Operational Tiers		
(subject to April adjustments or mid-year review modifications)			
Lake Powell Elevation (feet)	Lake Powell Operational Tier	Lake Powell Active Storage (maf)	
3,700		24.32	
	Equalization Tier equalize, avoid spills or release 8.23 maf		
3,636 - 3,666		15.54 - 19.29	
(see table below)	Upper Elevation Balancing Tier release 8.23 maf;	(2008 – 2026)	
	if Lake Mead < 1,075 feet, balance contents with a min/max release of 7.0 and 9.0 maf		
3,575	Mid-Elevation Release Tier	9.52	
3,525	wind-Elevation Release Her release 7.48 maf; if Lake Mead < 1,025 feet, release 8.23 maf	5.93	
	Lower Elevation Balancing Tier balance contents with a min/max release of 7.0 and 9.5 maf		
3,370		0	



THE SECRETARY OF THE INTERIOR
WASHINGTON

Record of Decision

Colorado River Interim Guidelines for Lower Basin Shortages and the

Coordinated Operations for Lake Powell and Lake Mead

December 2007

Recommending Official:

1111

Date

Commissioner, Dureau of rectain

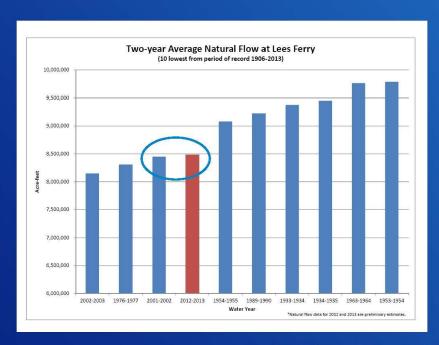
Approved:

OIRK KEMPTHORNE

Secretary of the Department of the Interior

Date

Comparison of Two-year Periods Historical Record



RECLAMATION

Lake Powell Elevation 1999-2012

