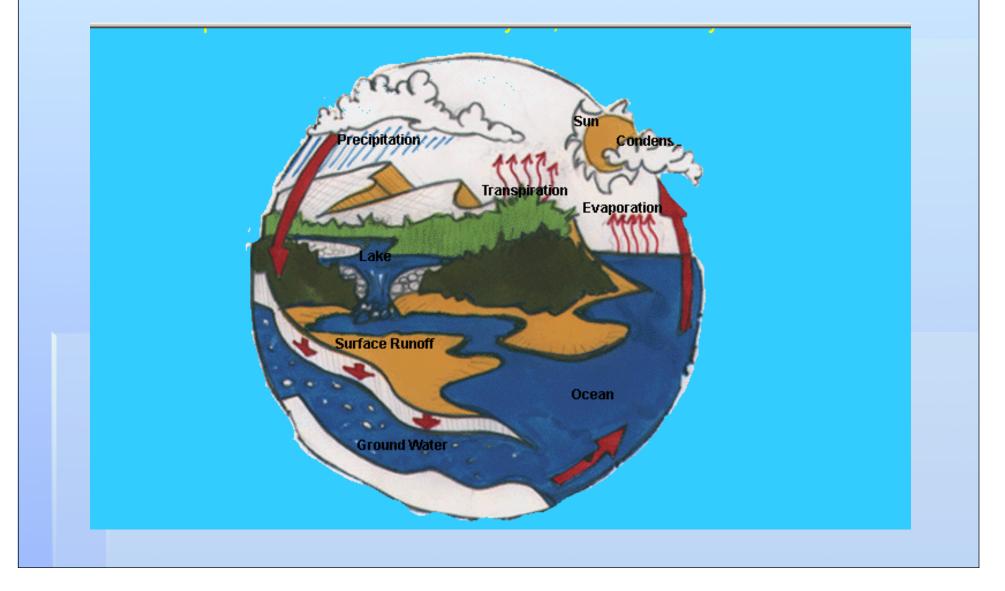
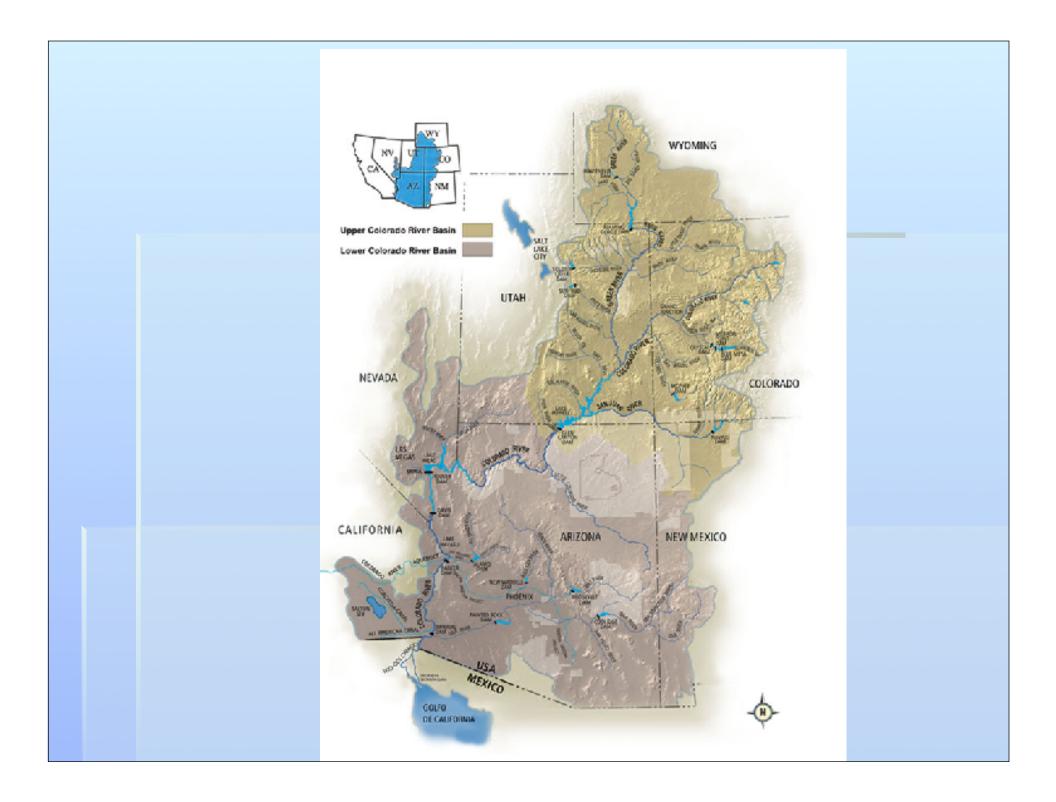
WATER





The origin of the Colorado **River is in the Wind River Range in Wyoming.** The **Colorado stretches 1700** miles, drops 14,000 feet. **Before dams were built, the Colorado flowed into the Gulf** of California – now virtually





DAMS ON THE COLORADO Glen Canyon Hoover Davis Parker **Headgate Rock Palo Verde Diversion** Imperial

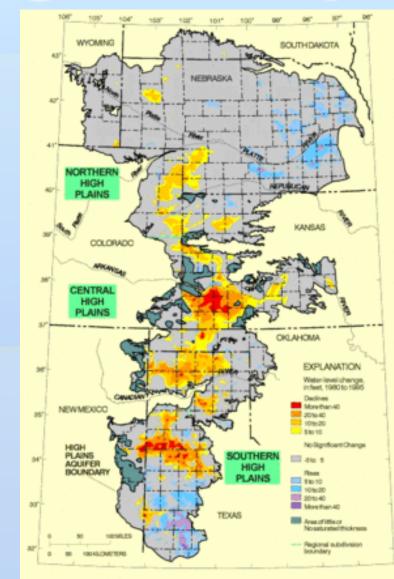


The main beneficiary of massive **Colorado River irrigation** projects is the cow. More than half of the water is used for cows, either to water them or grow feed such as alfalfa. Overgrazing is a major problem, resulting in the loss of native grasslands, the spread of

Herbert Hoover helped negotiate the Colorado River **Compact of 1922.** The water was allocated on the basis of river flows measured during relatively wet years, as was later borne out by tree ring studies.

Lake Powell took 17 years to fill. Over the last 8 years, half of the water in the lake has disappeared.

Ogallala Aquifer



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The Crops versus Craps Controversy

- Only 3 % of the water used by Las Vegas goes to the Strip – 75% is used to fill swimming pools and irrigate lawns and golf courses.
- Las Vegas has proposed construction of a 280 mile pipeline that would direct ground water from northern Nevada to the city. This plan is opposed by ranchers and farmers in northern Nevada and Utah.
- Whoever prevails, non-renewable ground water will be depleted.



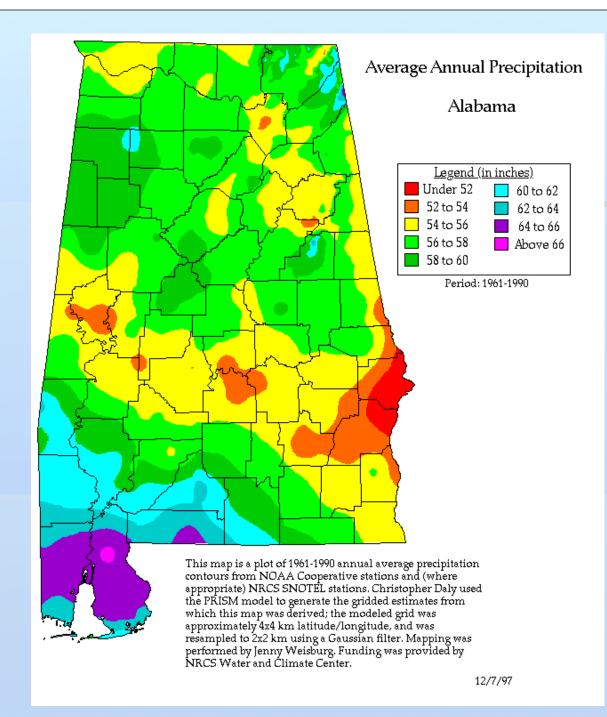
SILT

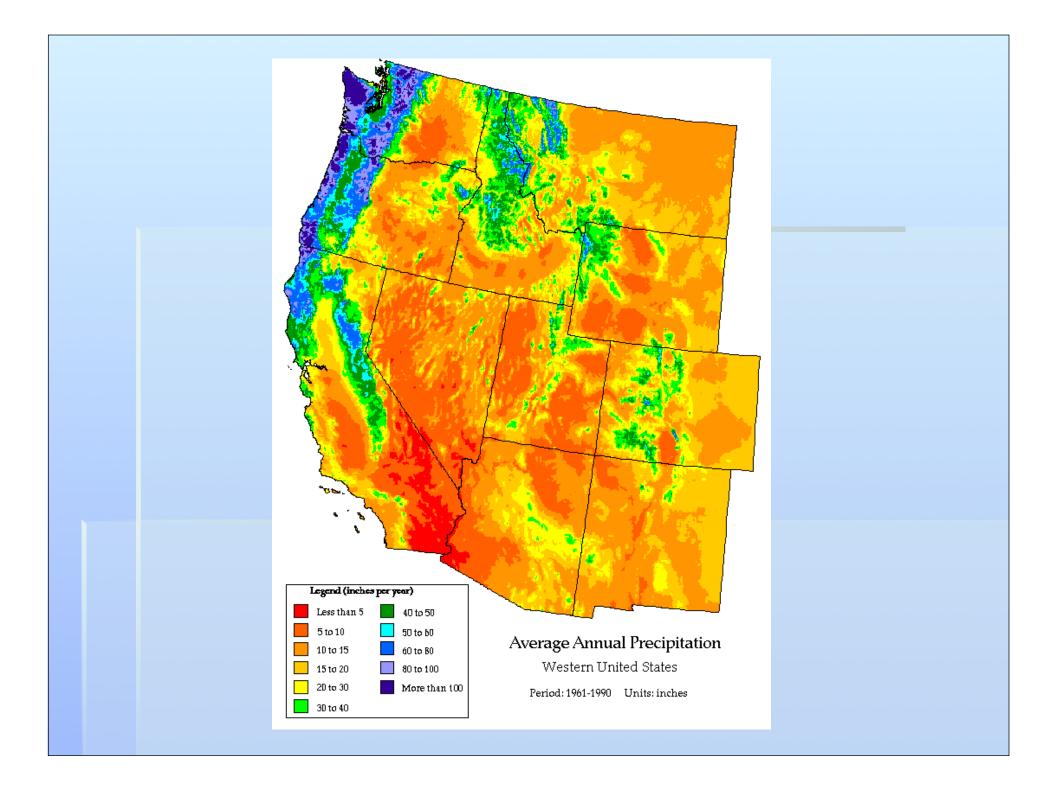
Earliest settlers described Colorado River water as "too thick to drink, too thin to plow".

A survey conducted from 1891 to 1935 estimated that the Colorado dumped 6.5 billion tons of silt into it's delta, at rates as high as a thousand tons per second.

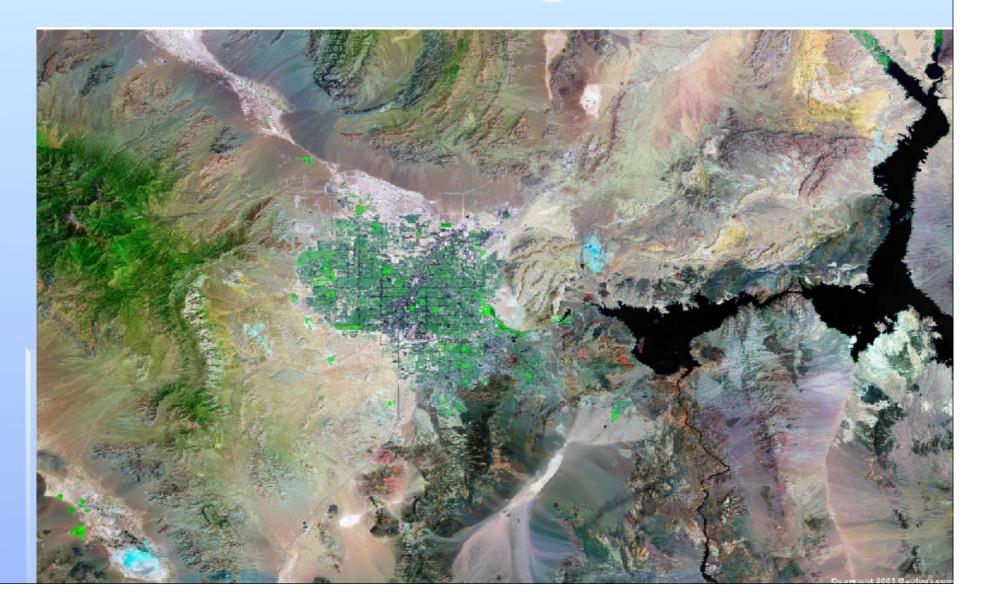
Before the gates of the Hoover Dam were closed in 1935, 180 million tons of silt passed Yuma, Arizona annually. **Currently 13 million tons pass** this point – the rest now accumulates behind dams, chiefly in Lake Powell.

Spring snowmelt, not rainfall, provides water for the interior West.





Las Vegas



Phoenix



Salinity

Dissolved calcium chloride, sodium chloride, bicarbonate, magnesium, selenium, sulfate and smaller amounts of other minerals. Salinity of Colorado river water rises from 50 mg / liter in the Wind River Range, the river's origin, to 668 in the Grand Canyon, 1000 at the north side of the US – Mexico border, and 39,000 in the Salton Sea. Ocean water averages 35,000.

Desert Societes -Civilizations

- Sumeria 3250 BCE 2300 BCE
- Assyria 2400 BCE 612 BCE
- Carthage 814 BCE 146 BCE
- Hohokam 200 CE 1450 CE
- Anasazi 490 CE 1300 CE
- Aztec 1248 CE 1521 CE
- Inca 1435 CE- 1532 CE
- Egypt

Dividing the Waters

A Century of Controversy Between the United States and Mexico

NORRIS HUNDLEY, JR.

 Over the last five years, the Colorado River Basin has experienced both increasing drought and increasing population - over five million additional people.