Tulane Institute on Water Resources Law and Policy

## Water In Perspective: Louisiana, the Nation, and the Future

Mark Davis
Tulane Institute on Water Resources Law and Policy

October 16, 2013

#### The Waters We Manage

- Surface Water + Ground Water
- + Precipitation = **Total Water**

#### Louisiana and the Nation's Rivers

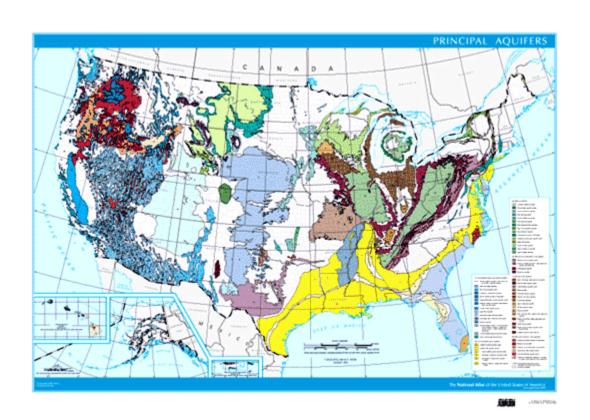


This map is not to scale.

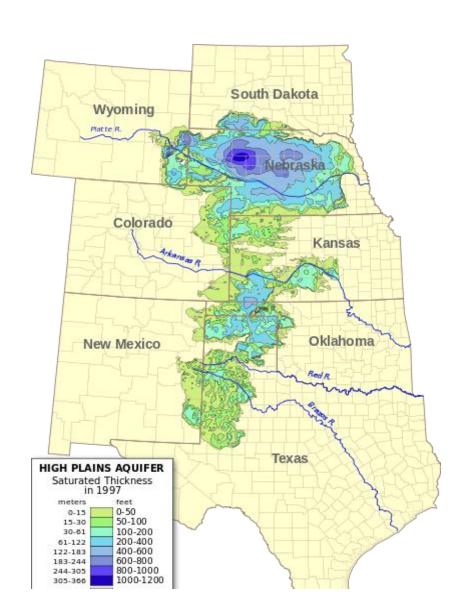
#### Louisiana's Rivers



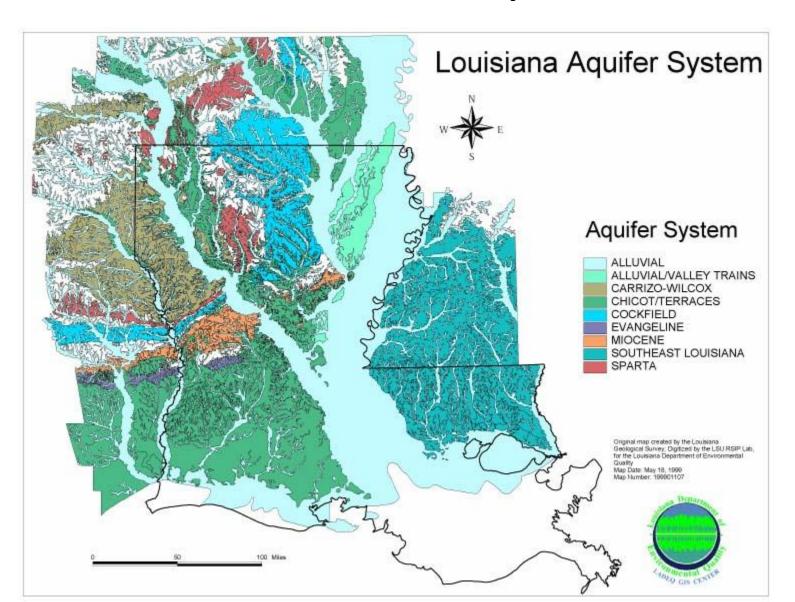
### Aquifers of the United States



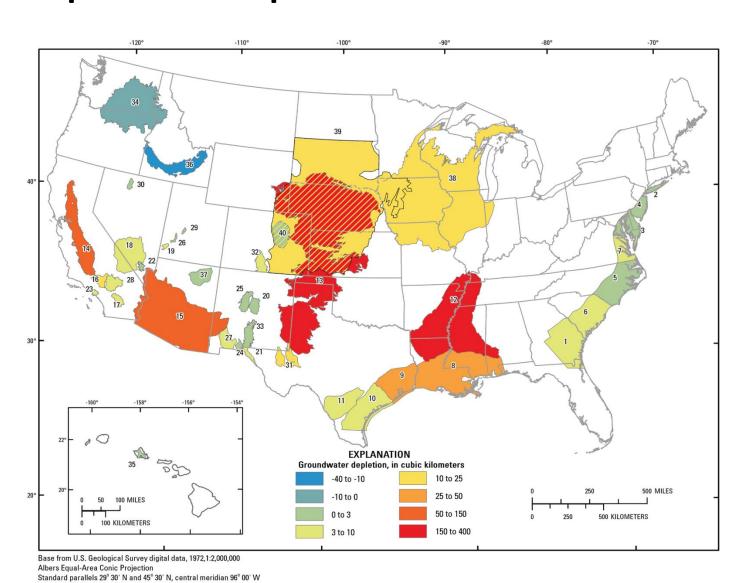
### The High Plains/Ogallala Aquifer



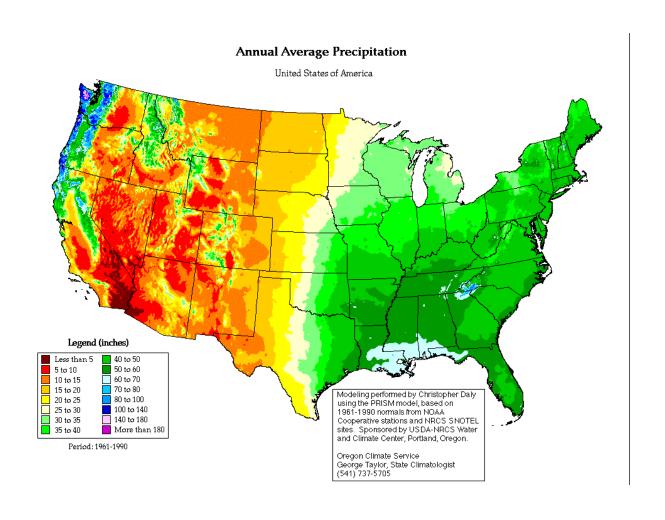
### Louisiana's Aquifers



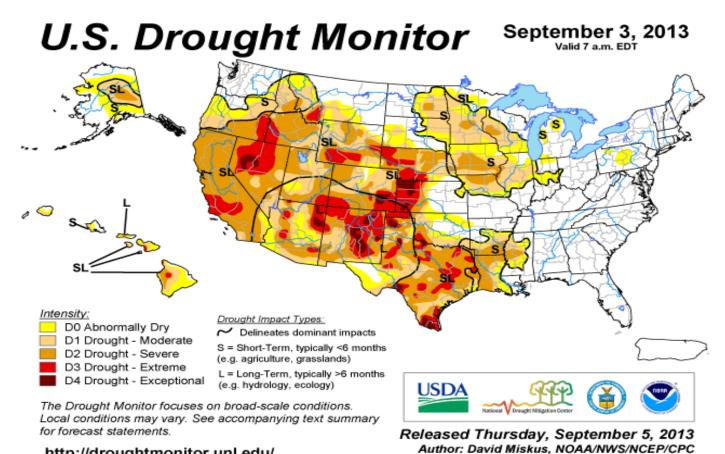
#### Aquifer Depletion 1900-2008



#### Precipitation

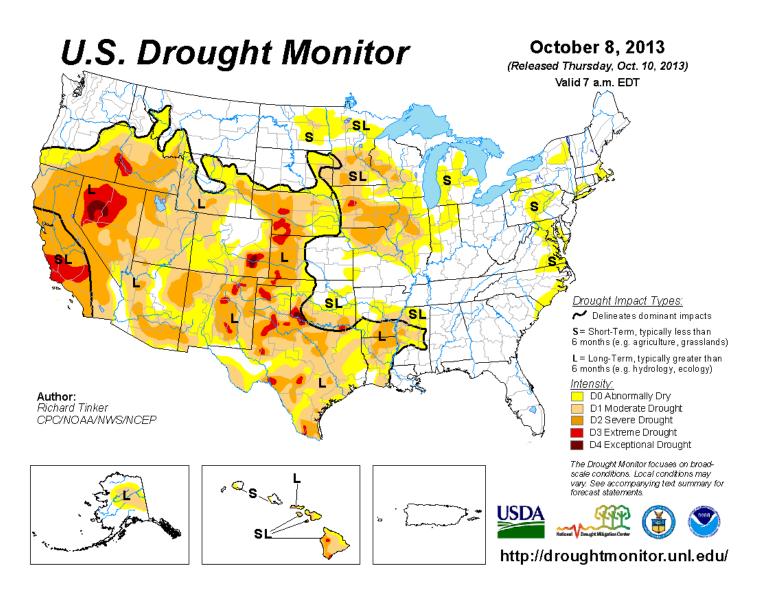


#### Drought

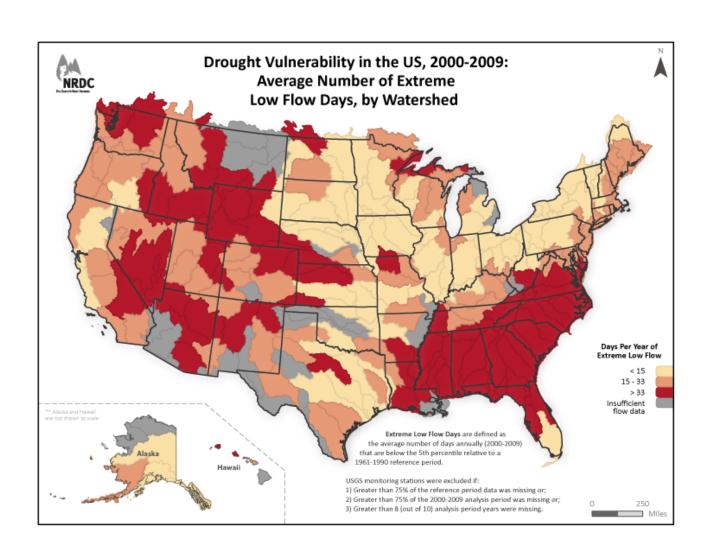


http://droughtmonitor.unl.edu/

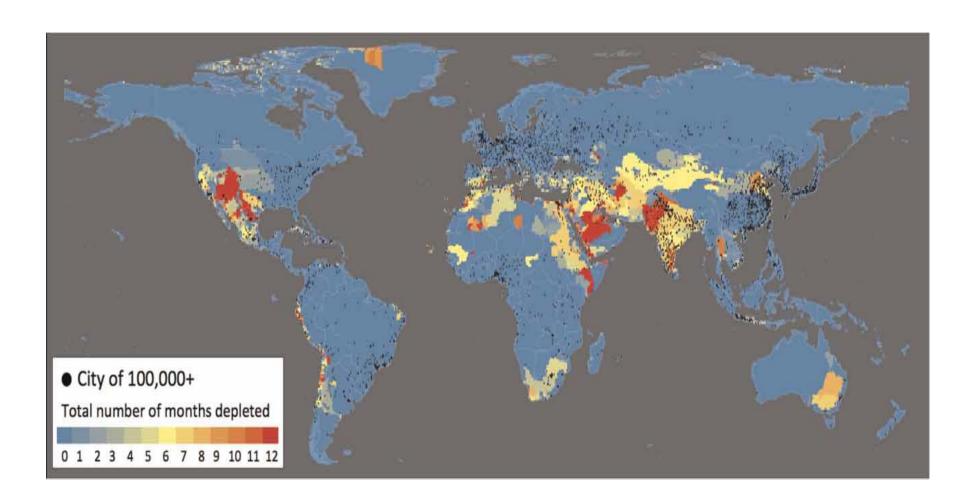
#### Drought



#### Recent US Drought Vulnerability



#### **Urban Water Vulnerability**



### THE KANSAS CITY STAR.

Breaking News
High Plains Aquifer will be 69
percent depleted in 50 years, KState study says

By ROXANA HEGEMAN The Associated Press August 26, 2013

#### The Colorado River/Lake Mead



#### Up for Grabs: Water in America Today



### TIME

# Is Southern California Finally Getting Serious About Its Water Crisis?

By Jens Erik Gould / Los Angeles Monday, Jan. 03, 2011

#### Bloomberg

# Drought-Induced Curb on Lake Powell Water Is First-Ever

ву Rachel Layne - Aug 16, 2013

#### **CHARLOTTE BUSINESS JOURNAL**

# Charlotte water conference focuses on limited resources

Date: Thursday, September 15, 2011, 11:56am

**EDT** 

#### Timesfreepress.com

### Georgia lawmakers eye Tennessee water again

Monday, February 11th, 2013 by <u>Lindsay Burkholder</u>

# National Geographic Water Grabbers: A Global Rush on Freshwater, November 30, 2012



#### **E&E Publishing Service**

WATER: Could Midwestern supplies be the answer to Las Vegas' woes? (Thursday, April 9, 2009)

#### denverpost.com

Denver suburbs look for new sources as aquifer levels fall (04/28/2011)

#### **Chicago Sun-Times**

Apri I 29, 2013

# Editorial: Mississippi River problems felt here

#### Bloomberg

# Drought-Induced Curb on Lake Powell Water Is First-Ever

By Rachel Layne - Aug 16, 2013



# Florida governor says he'll sue Georgia for water August 14, 2013

### THE KANSAS CITY STAR.

## The Ogallala Aquifer, an important water resource, is in trouble

September 1
By KAREN DILLON

## theguardian

# A Texan tragedy: ample oil, no water

Fracking boom sucks away precious water from beneath the ground, leaving cattle dead, farms bone-dry and people thirsty

August 11, 2013



# Missouri River Water an Option for KS

August 9, 2013



#### Bureau of Reclamation Forecasts Lower Water Release from Lake Powell to Lake Mead for 2014

August 13, 2013

#### **CLIMATEPFOGFESS**

# Sin City Runs Dry: Drought in The Land of Fountains August 16, 2013

## Black Hills Pioneer October 3, 2013

# Corps, states, tribes clash on water rights

### Water and the Law

#### Water Law Gumbo

#### **Louisiana Law**

Constitution

Civil Code

Mineral Code

Jurisprudence

State Law (30 other States)

#### **Federal Law**

Constitution

Servitudes

Statutes

Compacts

**Native American and Reserved Rights** 

#### Water Law Gumbo (con't.)

#### **Surface Water**

Flowing/Non Flowing

Coastal/Tidal

Navigable/Nonnavigable

Riparian Rights/Littoral Rights

**Ground Water** 

**Diffuse Waters** (storm water and flood water)

**Drainage** 

Special Water Management Units (Sabine, Capital Area)

#### The Game is On

**Tarrant v Herrmann** (Texas v Oklahoma over the Red River) Decided by U.S. Supreme Court 2013

**Texas v New Mexico** (Dispute over the Rio Grande and aquifers. Pending before U.S. Supreme Court)

**Montana v Wyoming** (Dispute over the Yellowstone River and aquifers with specific attention on fracking. Trial underway in U.S. Supreme Court)

**Tri-State Water Rights Litigation** (Suit between GA, FL, and AL over Apalachicola, Chatahoochee and Flint Rivers. 11<sup>th</sup> Cir ruled in favor of GA in 2011.)

Florida v Georgia (Dispute over the Apalachicola River system. Petition filed in U.S. Supreme Court)