

## Benefits of Irrigation in Humid Areas

#### Ed Barnes

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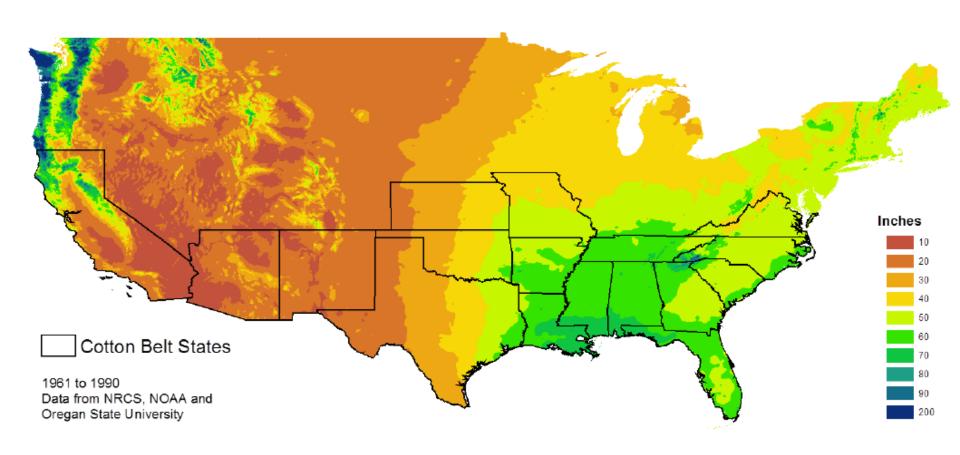
# Acknowledgements (those not on program)

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- Dana Porter Texas A&M
- And see the author list in the irrigation publication for other experts.

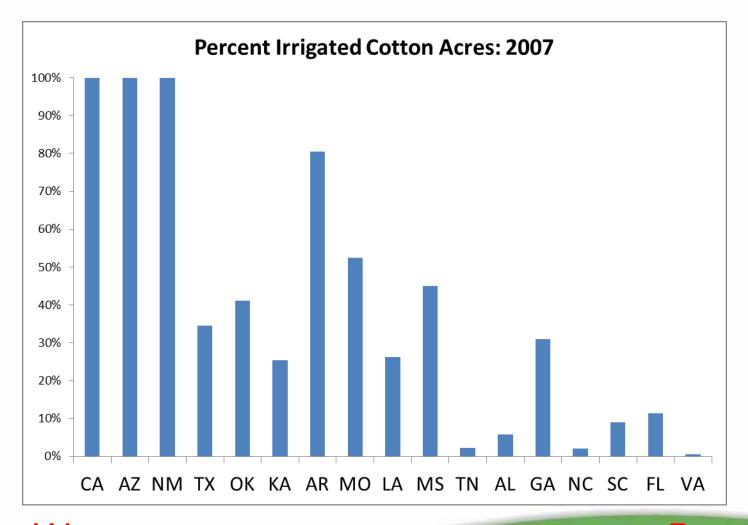
#### Overview

- Benefits of Precision Managed Irrigation:
  - Maximize Yield
  - Minimize Risk
  - Improve sustainability of operation
  - Reduce pressure from regulators
  - Better public perception of water used

## Average Annual Rainfall



## U.S. Irrigated Acres in 2007





East

## Impact on Productivity (Yield)

- Cotton: 40 to 70 lbs of fiber per acre inch
- Corn: 7 bushel per acre inch
- Wheat: 4 bushel per acre inch
- Rice: 250 lb per acre inch

#### + Risk Management



## Yield from Irrigation in Mid-South

- Pounds of fiber per acre:
- Arkansas: **215**
- Mississippi: **185**
- Louisiana: **102**
- Range: -13 to 365



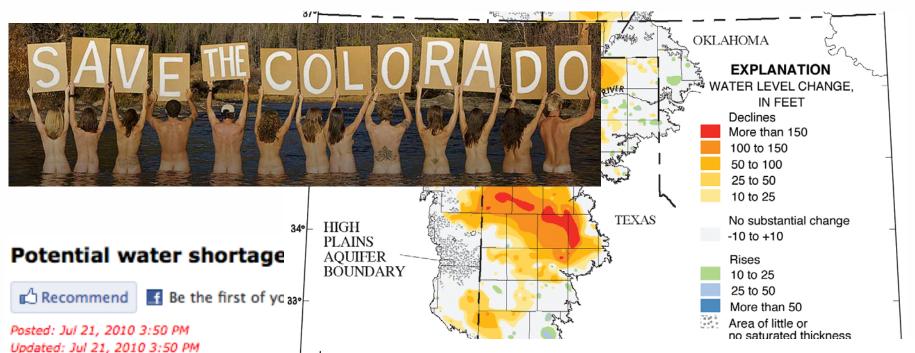
Source: USDA, NASS Survey Data



## Regulatory

#### California's Man-Made Drought

The green war against San Joaquin Valley farmers.



#### New Water Councils Appointed for Georgia Water Management

February 18th, 2009

The report from the Natural Resources Def picture of warm temperatures further taxir heavy agricultural and consumer use.

STATE OF MISSISSIPPI (WLBT) - A ne<sup>32°</sup> for a potential water shortage in the r

Mississippi is one of fourteen states consid

Last week the Atlanta Journal Constitution ran an article on the creation of 10 new water councils all throughout the state. Each council will be made up of "farmers, government officials, businessmen and others" and will be tasked with determining how to divide rivers, lakes and underground aquifers.

## Sustainability Organizations Have Water Metrics



#### Sample of TSC Members:





















Coalition to set Common Metrics and Standards to Improve Apparel Sustainability



#### Water Risk



## Today's Program

- Lessons Learned from Pumping Monitoring in the Midsouth Chris Henry
- Cotton Water Requirements in Humid Areas Ken Fisher
- Sensitivity of Cotton to Water Stress Derrick Oosterhuis
- Agronomic Considerations Managing Irrigated Cotton- Tom Barber
- Overview of Sensor-based Irrigation Scheduling Brian Leib
- Irrigation Sensor Company Presentations:
- Tom Speed Smartfield
- Steve Perkins CMA / Irrometer
- Mel Cantebury EnviroSolutions, Inc.