Benefits of Irrigation in Humid Areas

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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
U.S. Irrigated Acres in 2007

Percent Irrigated Cotton Acres: 2007

Source: USDA 2007 Census of Agriculture
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**
- **Years:** 1990 to 2011 (LA ends 2009)
- **Source:** USDA, NASS Survey Data
Regulatory

California's Man-Made Drought
The green war against San Joaquin Valley farmers.

SAVE THE COLORADO

Potential water shortage

Posted: Jul 21, 2010 3:50 PM
Updated: Jul 21, 2010 3:50 PM

STATE OF MISSISSIPPI (WLBT) - A new report for a potential water shortage in the state.

The report from the Natural Resources Defense Council of warm temperatures further tax energy, heavy agricultural and consumer use.

Mississippi is one of fourteen states consid

New Water Councils Appointed for Georgia Water Management
February 18th, 2009

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:
Water Risk

Collective responses to rising water challenges
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 Canterbury – EnviroSolutions, Inc.
  – Keith Patterson – John Deere Water