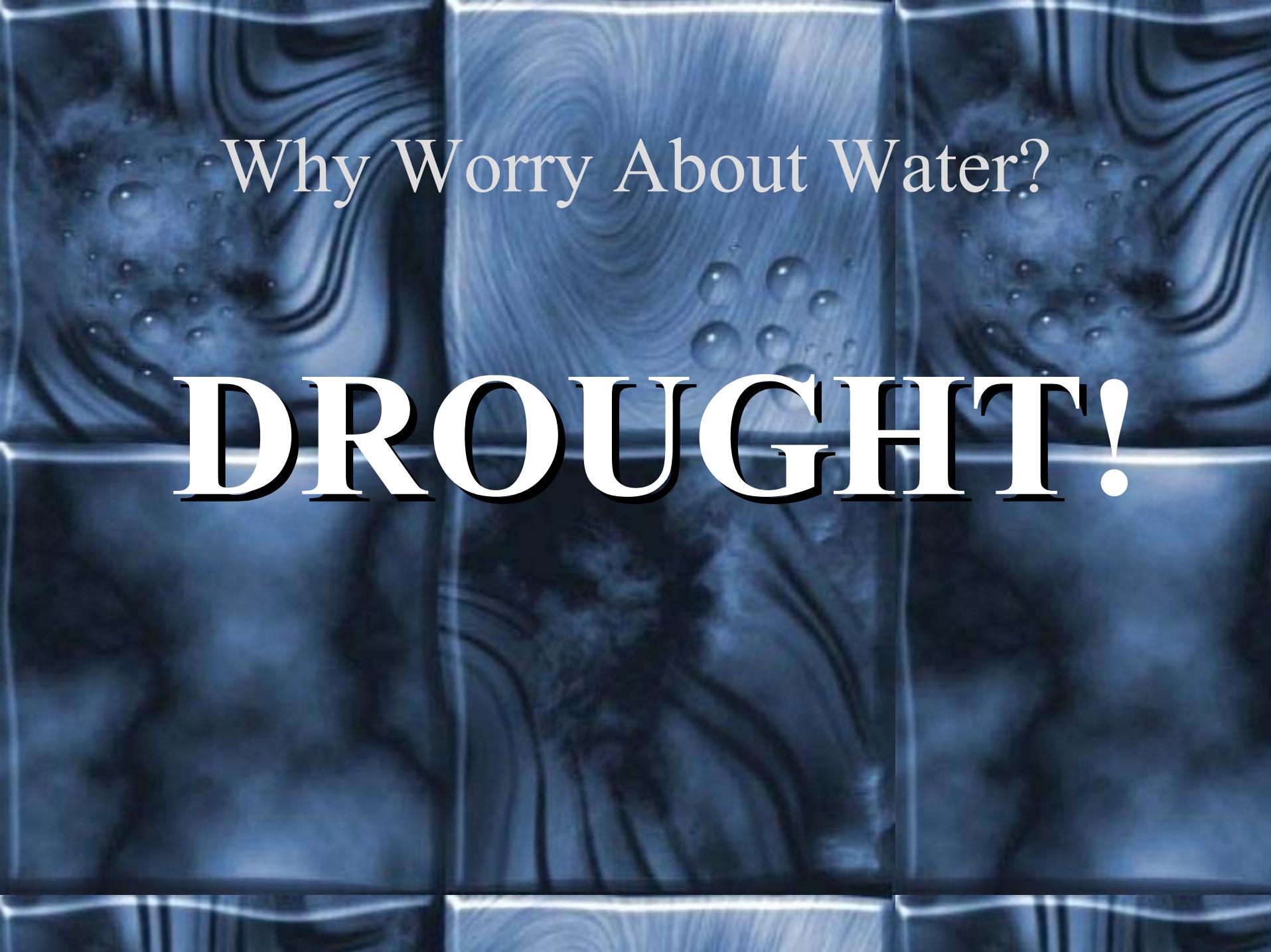


# Water Consumption & Conservation Non-Regulatory Environmental Aspects and Impact

Rusty Harris-Bishop  
EMS Government Course  
November 13, 2001

# Why Worry About Water?

- It's not that expensive ...
- It's consumption is not regulated ...  
(CUA excepted)
- It's plentiful ...
- It comes from the sky!
- We've got TONS of it!

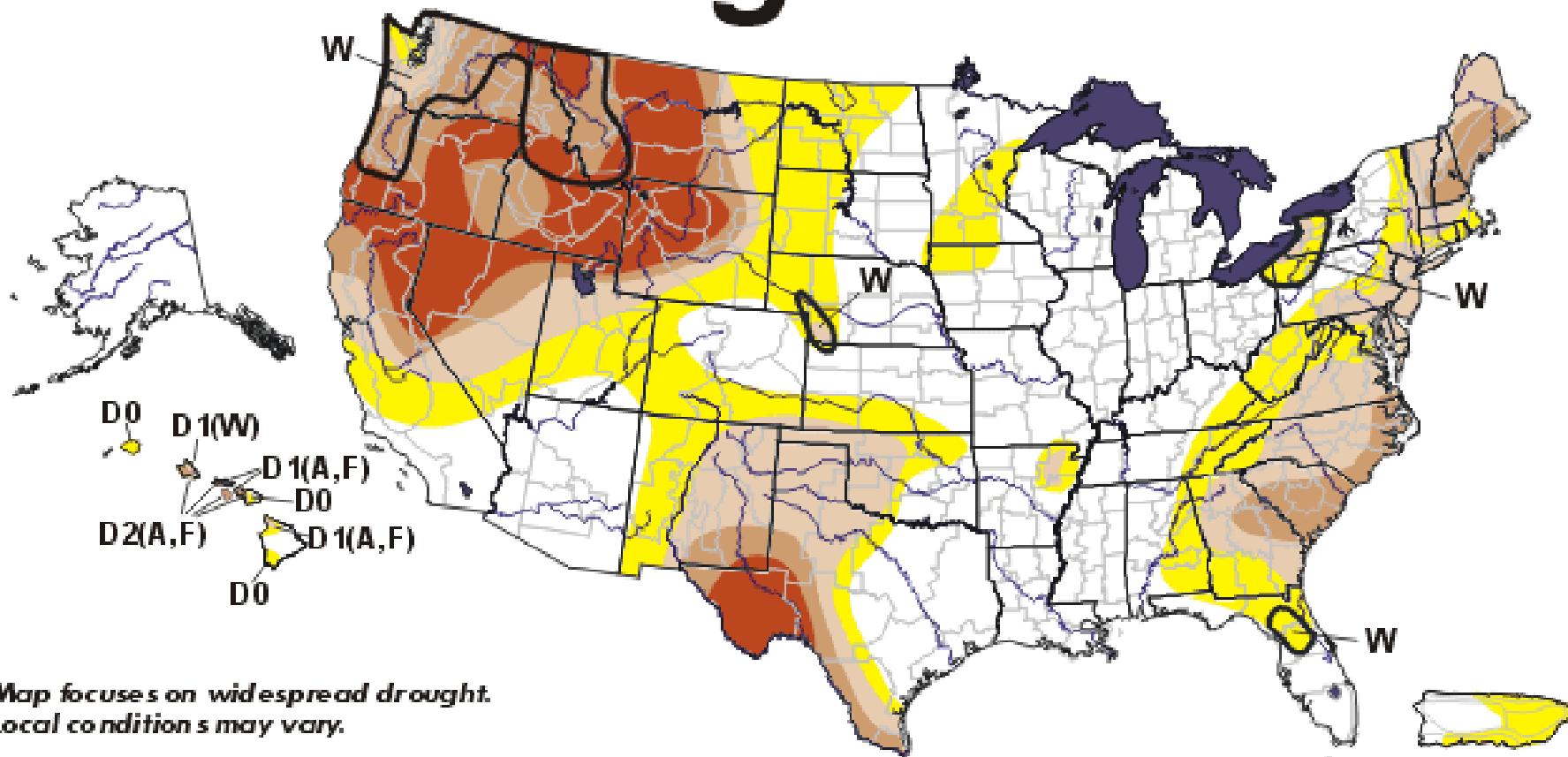


Why Worry About Water?

**DROUGHT!**

November 6, 2001 Valid 8 a.m. EST

# U.S. Drought Monitor



Map focuses on widespread drought.  
Local conditions may vary.

- D0 Abnormally Dry
- D1 Drought-Moderate
- D2 Drought-Severe
- D3 Drought-Extreme
- D4 Drought-Exceptional
- Delineates Overlapping Areas

Drought Impact Types:  
A = Agriculture  
W = Water (Hydrological)  
F = Fire danger (Wildfires)  
(No type = All 3 impacts)



See accompanying text summary for forecast statements

<http://esmc.unl.edu/monitor/monitor.html>

● Released Thursday, November 8, 2001 ●

# Water Use Restrictions in North Carolina

<b>County</b>	<b>System</b>	<b>Level</b>
Cabarrus	Concord	Mandatory
Cabarrus	Harrisburg	Mandatory
Cabarrus	Kannapolis	Voluntary
Catawba	Maiden	Voluntary
Chatham	Siler City	Voluntary
Clay	Clay County	Mandatory
Davidson	Thomasville	Voluntary
Gaston	Cherryville	Voluntary
Guilford	Greensboro	Voluntary
Madison	Marshall	Voluntary
Mecklenberg	Charlotte	Voluntary
Orange	Hillsborough	Mandatory
Orange	Orange-Alamance	Mandatory
Rowan	China Grove	Mandatory
Rowan	Landis	Mandatory

# Why Worry About Water?

- **Saving water saves \$\$\$**
  - Water Bills
  - Sewer Bills
  - Chemical Treatment costs
  - Utility Bills for heating water

# Using Water Efficiently

- Equipment
  - Lavatory fixtures
    - Low flow/auto flush/waterless
  - Conductivity meters
  - Controls
    - Cut-off valve control
    - Fog rinses/low volume spray nozzles
    - Flow restrictors
  - Drag out racks

# Using Water Efficiently

- **Behavior**
  - Dry cleaning (a hose is NOT a broom!)
  - Faucets/hoses/nozzle shut-off
  - Leak detection
- Counter current/reactive rinsing
- **Reusing Wash Water**
  - Countercurrent washing/rinsing
  - Reducing carryover

# Using Water Efficiently

- Maintenance
  - Correcting water losses
  - Cooling tower blowdown management
- Xeriscaping
  - It's not just about cactus anymore

# Additional Information

- <http://wrrc.p2pays.org/industry/water.htm>
- <http://www.p2pays.org/ref/01/00692.pdf>
- [http://www.dwr.ehnr.state.nc.us/Water\\_Supply\\_Planning/Water\\_Conversation/](http://www.dwr.ehnr.state.nc.us/Water_Supply_Planning/Water_Conversation/)