

An aerial photograph of a coastal area. In the upper portion, there is a large, calm body of water. A narrow, light-colored strip, likely a beach or dune area, runs along the water's edge. Below this, there are green fields and some buildings. The foreground is dominated by a large, dark green area, possibly a forest or a large field, with a winding path or road visible in the lower right corner.

C.E.A.P.

Conservation

Effects

Assessment

Project

# The Watershed Assessment Studies

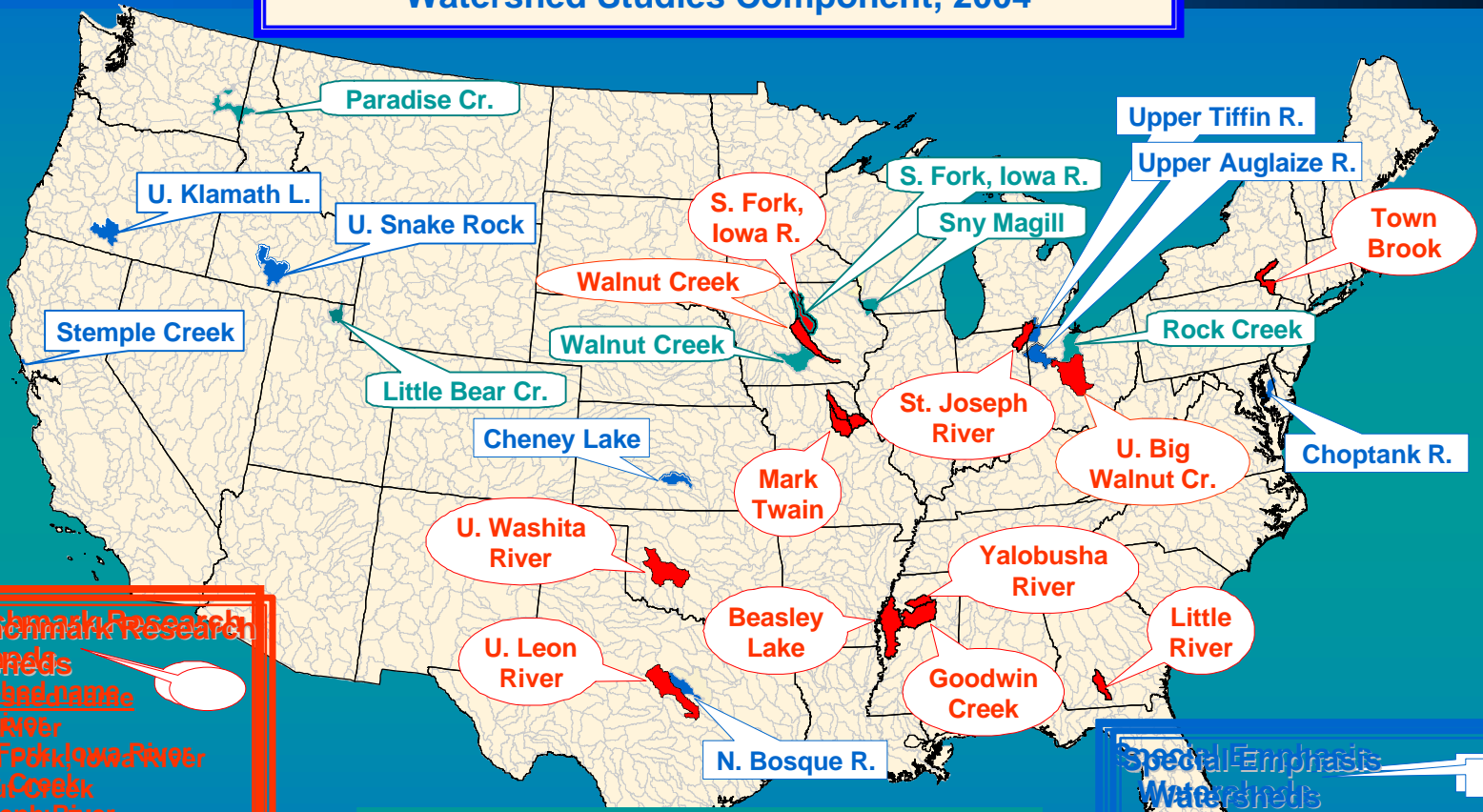
- Three Watershed Categories:
  - **Competitive Grants Watersheds (CSREES)**
  - **Agricultural Research Service (ARS) Benchmark Watersheds**
  - **Special Emphasis Watersheds (NRCS)**



## CEAP- Special Emphasis Watersheds (SEWs)

- **SEWs selected in FY 2004**
- **Focus on specific resource concerns**
- **Locations add diversity to other CEAP watersheds**
- **Technical collaboration with others**

# Conservation Effects Assessment Project (CEAP): Watershed Studies Component, 2004



**ARCS Benchmark Research Watersheds**

Watershed name	Research Lead
CA Little River	(John S. U.)
CA South Fork Iowa River	(John S. U.)
CA Walnut Creek	(John S. U.)
IN St. Joseph River	(John S. U.)
MO Mark Twain	(John S. U.)
NY Troy Brook	(John S. U.)
OH Upper Auglaize River	(John S. U.)
OK Upper Washita River	(John S. U.)
MS Goodwin Creek	(John S. U.)
MS Beasley Lake	(John S. U.)
MS Yalobusha River	(John S. U.)
TX Upper Leon River	(John S. U.)

**Competitive Grants Watersheds**

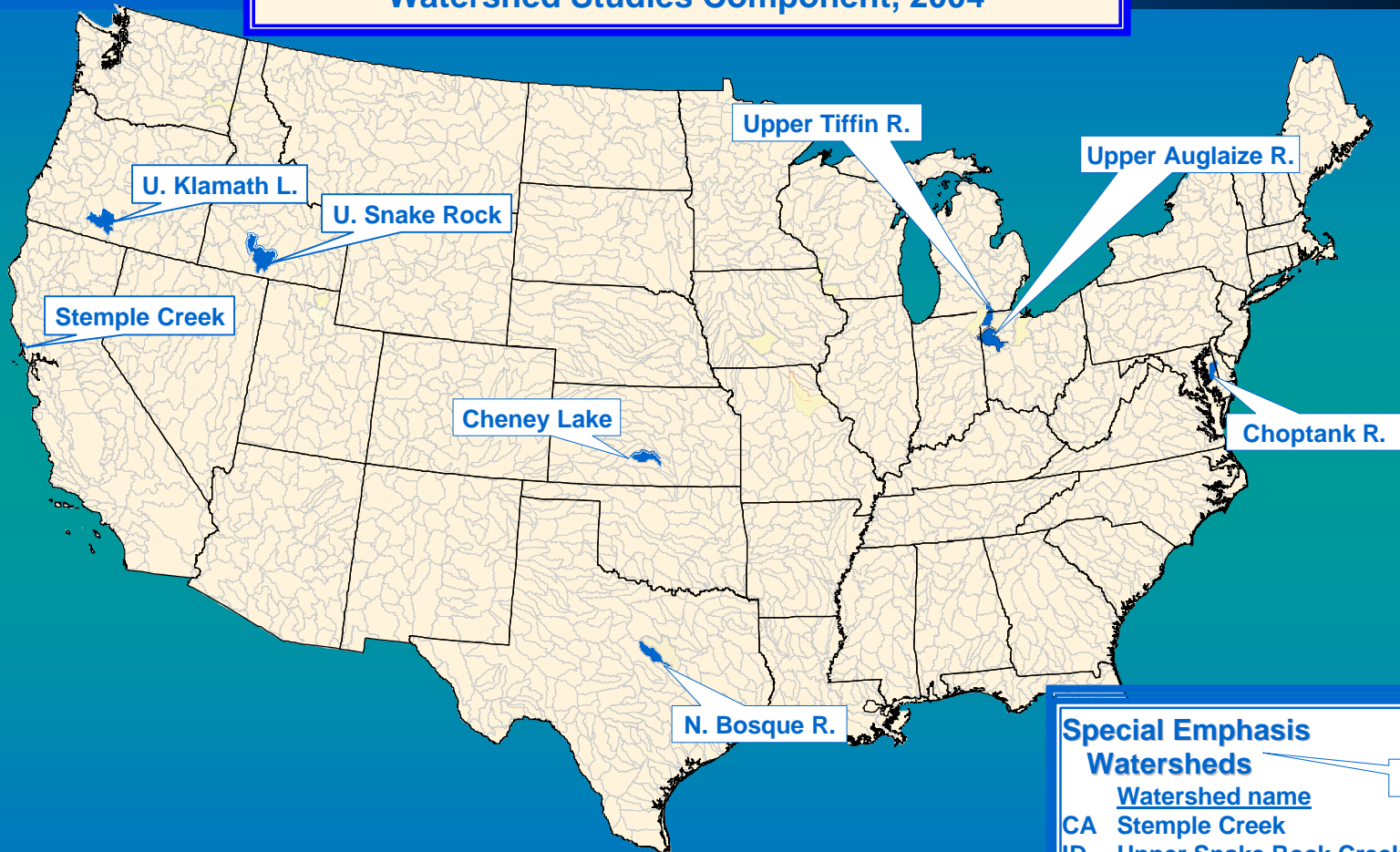
Watershed name	Research Lead
IA Three watersheds (Walnut Creek, South Fork Iowa River, Sny Magill)	(John S. U.)
UT Little Bear River	(John S. U.)
OH Rock Creek	(John S. U.)
ID Paradise Creek	(John S. U.)

**Special Emphasis Watersheds**

Watershed name	Research Lead
CA Upper Tiffin River	(John S. U.)
OH Upper Auglaize River	(John S. U.)
NY Town Brook	(John S. U.)
MD Choptank R.	(John S. U.)

Note: CEAP Watershed locations are plotted as 8-digit Hydrologic Unit Code Watershed boundaries for general locations only.

**Conservation Effects Assessment Project (CEAP):  
Watershed Studies Component, 2004**



**Special Emphasis Watersheds**

	<u>Watershed name</u>
CA	Stemple Creek
ID	Upper Snake Rock Creek
KS	Cheney Lake
MD	Choptank River
OH	Maumee River (Upper Auglaize R.)
MI	Maumee River (Upper Tiffin R.)
OR	Upper Klamath Lakes
TX	North Bosque River

Note: CEAP Watershed locations are plotted as 8-digit Hydrologic Unit Code Watershed boundaries for general locations only.



# CEAP- Special Emphasis Watersheds (SEWs)

- **Selection**

- **Augment existing data**

- **Perform assessments**

- **Three Year Funding**

- **Initial NRCS funding in August 2004.**

- **Organizational status**

- **Detailed plans of work are still being developed**

# CEAP- Special Emphasis Watersheds (SEWs)

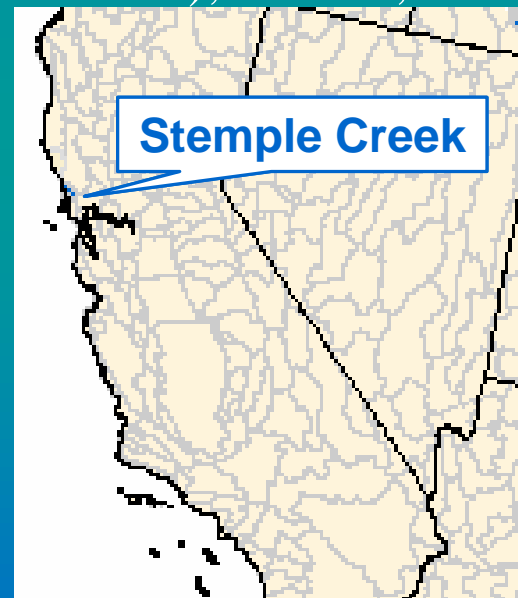
<b>Watershed</b>	<b>Programs</b>	<b>Monitoring</b>	<b>Modeling</b>
<b>Stemple Creek</b>	<b>EQIP, PL-566</b>	<b>Surface Water</b>	<b>AnnAGNPS, CONCEPTS</b>
<b>Upper Snake Rock Creek</b>	<b>CREP, CRP, EQIP, WRP, WHIP, 319, 104b</b>	<b>Surface Water, Ground Water, Biological</b>	<b>MODFLOW (Gr. W.) SWAT</b>
<b>Choptank River</b>	<b>CREP, CRP, EQIP, WRP, WHIP, 319</b>	<b>Surface Water, Biological</b>	<b>GWLF, WSM, RADM (Air), SPARROW</b>
<b>Cheney Lake</b>	<b>CRP, EQIP, WRP, WHIP, 319</b>	<b>Surface Water, Biological</b>	<b>AnnAGNPS, BATHTUB</b>
<b>Upper Tiffin River</b>	<b>CRP, EQIP, WRP, 319</b>	<b>Biological</b>	<b>AnnAGNPS</b>
<b>Upper Auglaize River</b>	<b>CREP, CRP, EQIP, WRP, WHIP</b>	<b>Surface Water, Erosion</b>	<b>AnnAGNPS</b>
<b>Sprague River, Upper Klamath</b>	<b>CREP, CRP, EQIP, WRP</b>	<b>Surface Water, Ground Water, Lake, Biological</b>	<b>AnnAGNPS, MIKE SHE, DHSVM</b>
<b>North Bosque River</b>	<b>EQIP, PL-566, 319</b>	<b>Surface Water</b>	<b>SWAT, APEX</b>

# CEAP- Special Emphasis Watersheds (SEWs)

- **Special Emphasis resource concerns**
  - Water Quality
  - Wildlife Habitat
- **Practices**
  - Dairy waste mgmt.
  - Riparian restoration

## Stemple Creek, CA

HUC-18010111 (Bodega Bay Subbasin); DA=32,980 acres





# CEAP- Special Emphasis Watersheds (SEWs)

- **Special Emphasis resource concerns**

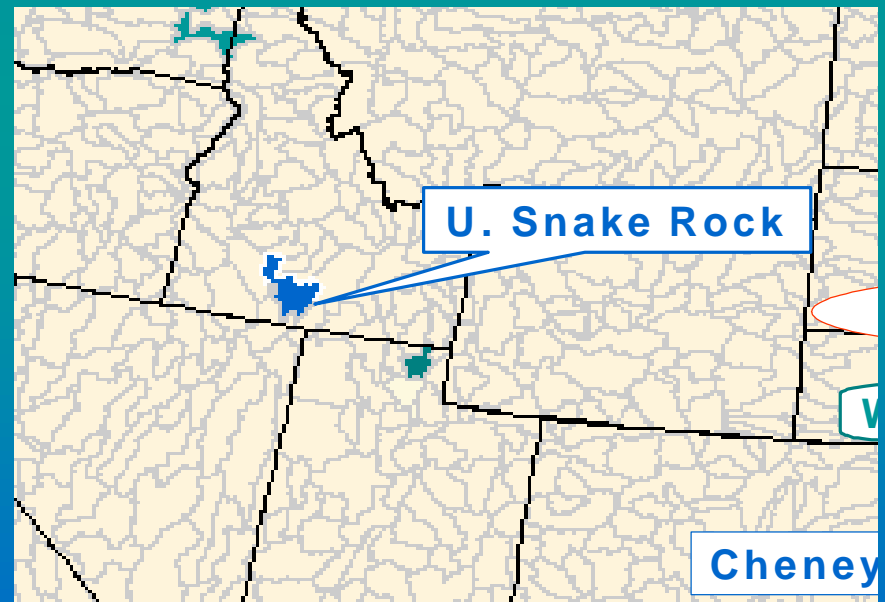
- Water Quality
- Soil Quality
- Water Conservation
- Air Quality
- Wildlife Habitat

- **Practices**

- Irrigation Water Mgmt.
- Subsurface drainage
- Wetlands and sed. ponds

## Upper Snake Rock Cr., ID

HUC 17040212; DA=1,536,880 acres

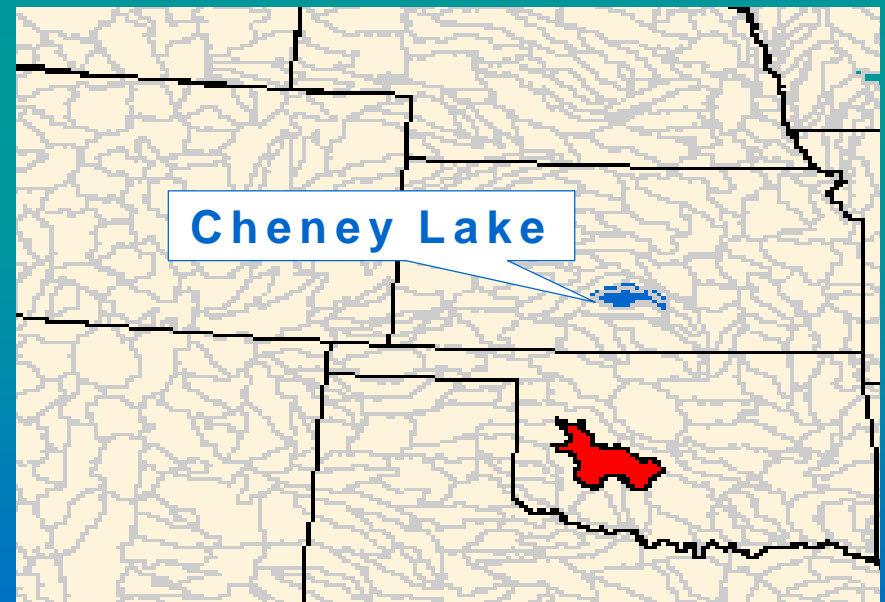


# CEAP- Special Emphasis Watersheds (SEWs)

- **Special Emphasis resource concerns**
  - **Water Quality**
  - **Soil Quality**
  - **Wildlife Habitat Mgmt.**
- **Practices**
  - **Animal waste management**
  - **Irrigation management**
  - **No till/reduced till**
  - **Wildlife habitat**

## Cheney Lake, KS

HUC 17040212 (North Fork  
Ninnescah); DA=633,000 acres



# CEAP- Special Emphasis Watersheds (SEWs)

- **Special Emphasis resource concerns**

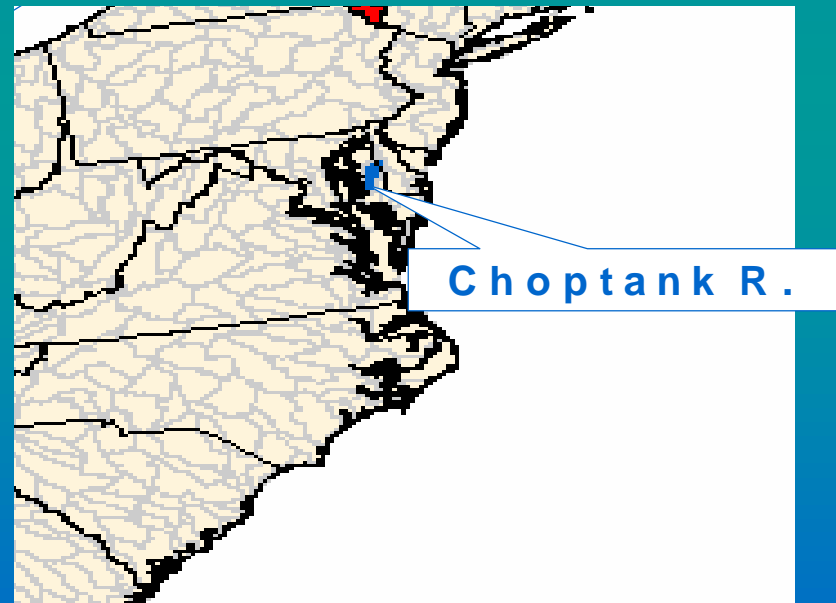
- Water quality
- Soil quality
- Air quality
- Water conservation
- Wildlife habitat

- **Practices**

- Riparian buffer
- Comprehensive nutrient management
- Erosion/sediment control

## Choptank River, MD

HUC 02060005; DA=580,000 acres

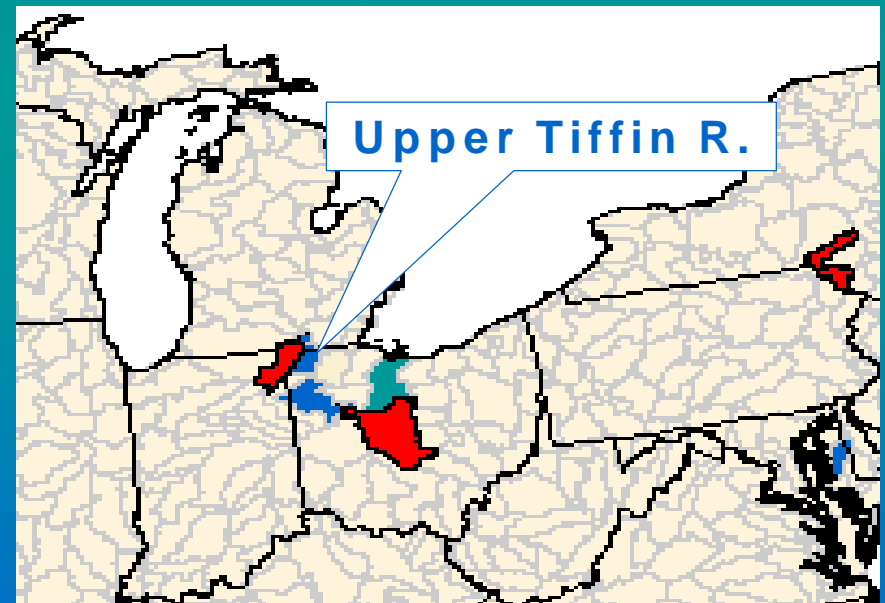


# CEAP- Special Emphasis Watersheds (SEWs)

- **Special Emphasis resource concerns**
  - Water quality
  - Subsurface drainage
- **Practices**
  - Conservation tillage
  - Animal waste management
  - Buffers

## Upper Tiffin, Maumee River, MI

HUC 04100006; DA=781 mi<sup>2</sup> (all)



# CEAP- Special Emphasis Watersheds (SEWs)

- **Special Emphasis resource concerns**

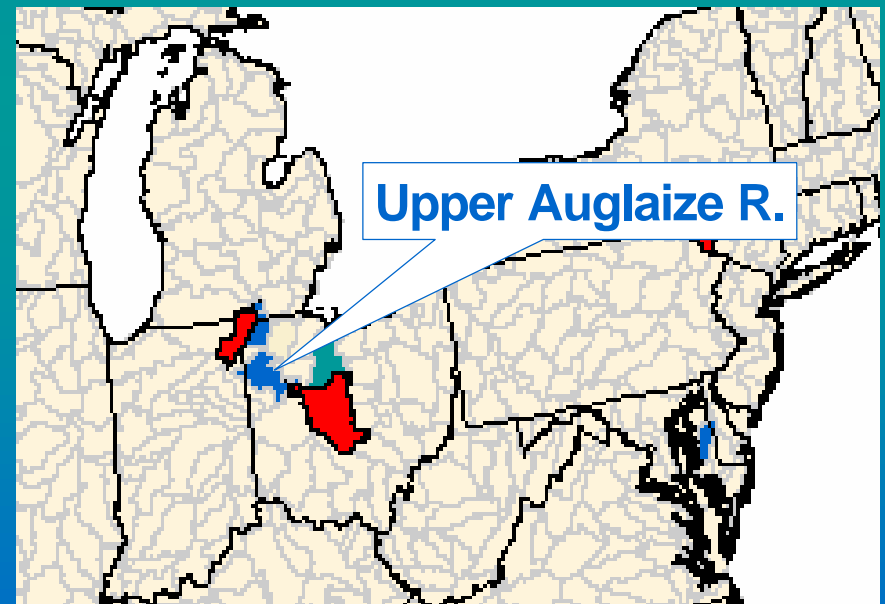
- Water quality
- Soil quality
- Wildlife management

- **Practices**

- Reduced tillage
- Nutrient management
- Subsurface drainage management
- Wetland rehabilitation

## Upper Auglaize, Maumee River, OH

HUC 04100007; DA=211,950 acres

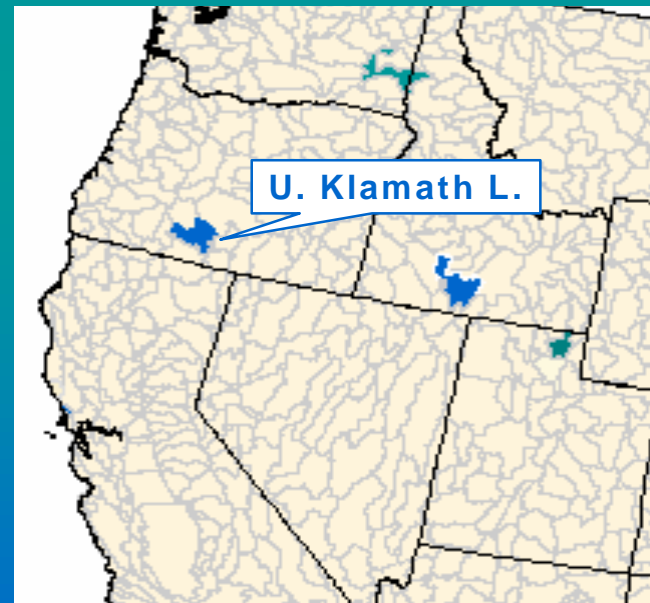


# CEAP- Special Emphasis Watersheds (SEWs)

- **Special Emphasis resource concerns**
  - Water quantity
  - Water quality
  - Riparian habitat
- **Practices**
  - Irrigation water mgmt.
  - Wetland/riparian restoration
  - Nutrient/pest mgmt.

## Sprague River of Upper Klamath Lake, OR

HUC 18010202; DA=1,021,300 acres





# CEAP- Special Emphasis Watersheds (SEWs)

- **Special Emphasis resource concerns**

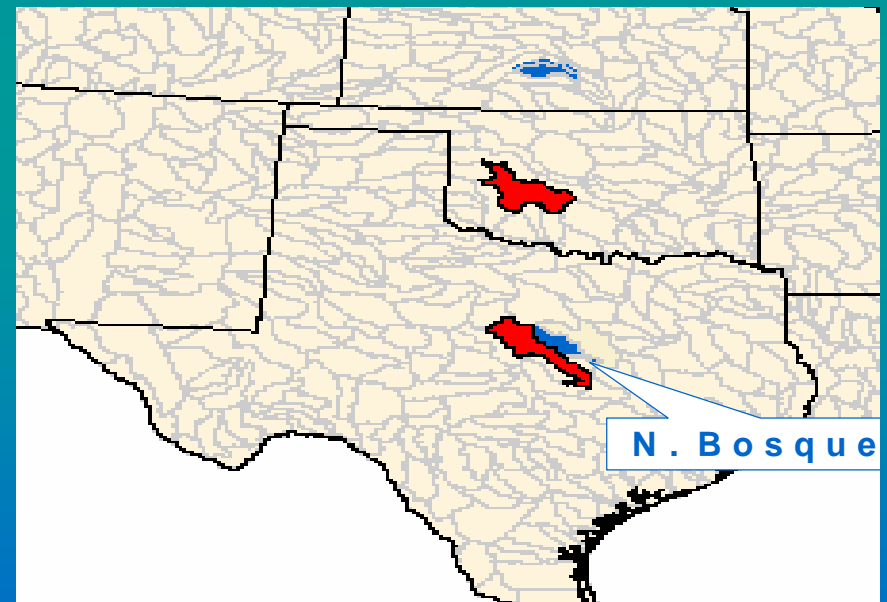
- Water quality
- Soil quality
- Water conservation
- Air quality
- Wildlife habitat

- **Practices**

- Nutrient management
- Brush management
- Animal waste management
- Pasture planting
- Prescribed grazing

## North Bosque River, TX

HUC 12060204; DA=799,103 acres



# CEAP- Special Emphasis Watersheds (SEWs)

## ● Final Reports

- Stemple Creek 2006
- Upper Snake Rock Cr. 2006
- Cheney Lake 2006
- Choptank River 2005 (prob. 2006)
- Upper Tiffin River 2006
- Upper Auglaize River 2006
- Sprague R. of U. Klamath 2007
- North Bosque River 2007

- **CEAP Web site:**

<http://www.nrcs.usda.gov/technical/nri/ceap/index.html>

- **Tom Drewes**

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