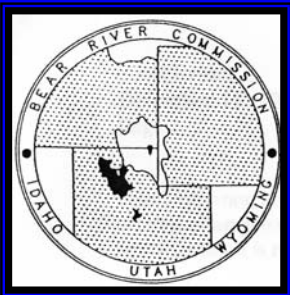
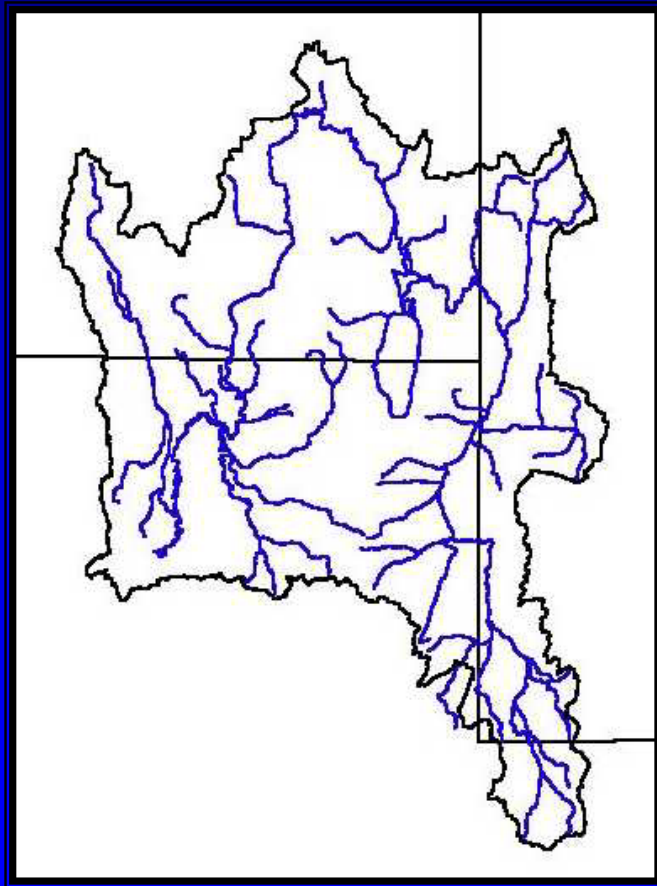


# Bear River TMDL Effort

Bear River Commission  
Cirrus Ecological Solutions

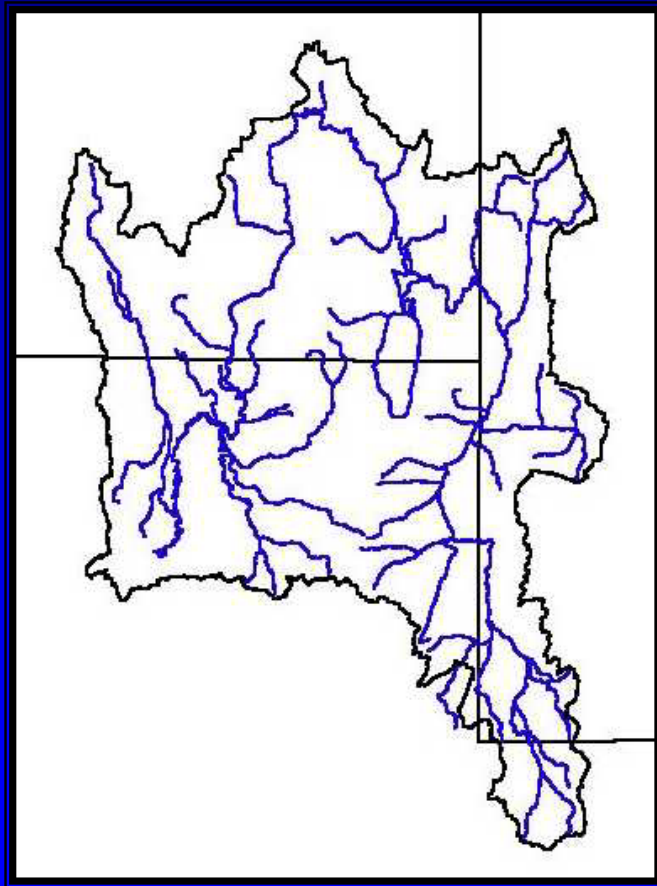


# Bear River TMDL Effort



1. TMDL/WP status
2. TMDL/WP content
3. TMDL/WP implementation
4. Meetings
5. Displays/Presentations
6. Success Stories
7. Final Report

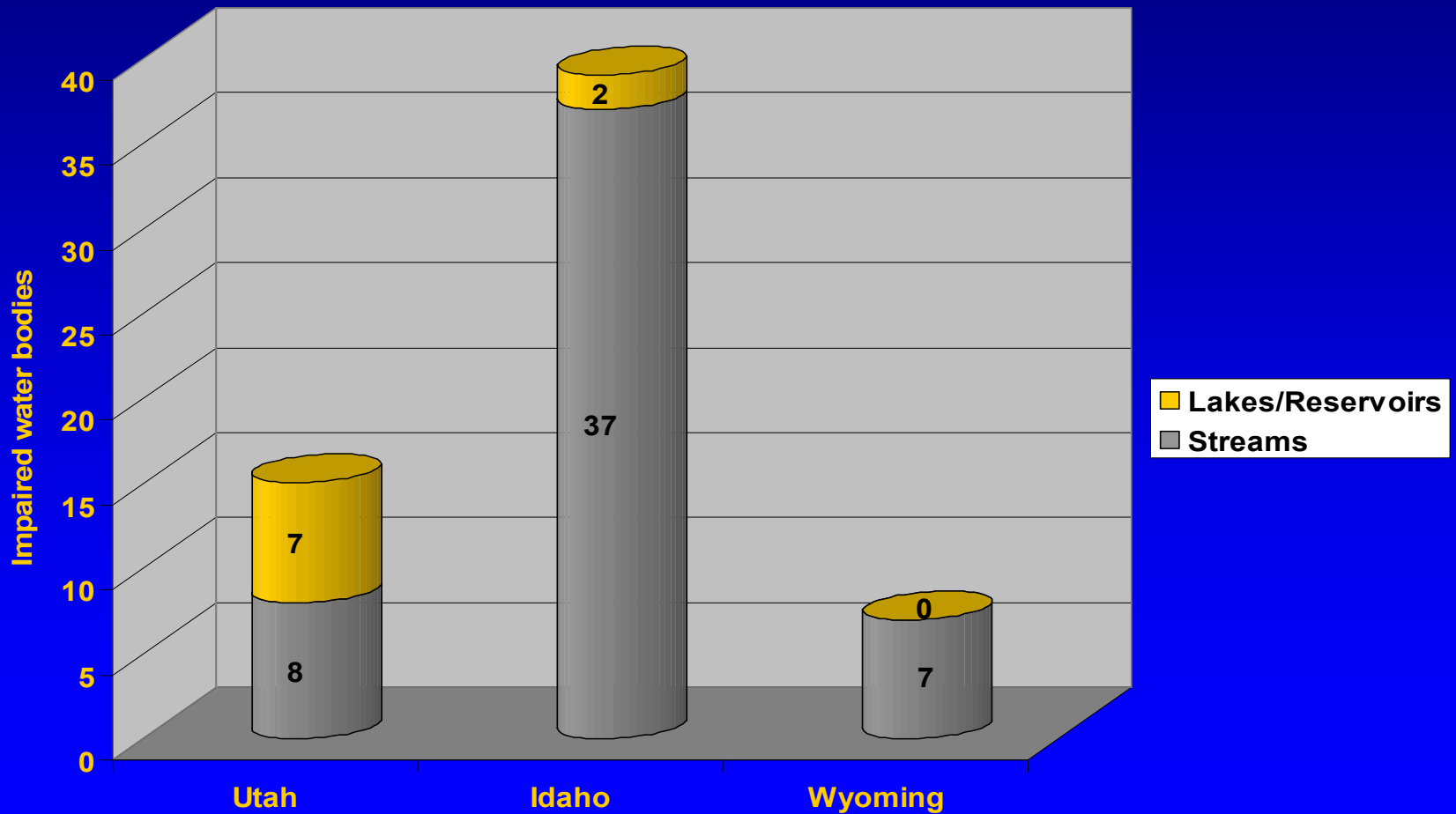
# Bear River TMDL Effort



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# Bear River TMDL Effort

**Bear River Basin  
Impaired water bodies 1998 - present**



# Bear River TMDL Effort

- TMDL/WP Status -

## TMDL/WP completed (EPA approved)

### Utah

- Little Bear River from Cutler Reservoir to Hyrum Reservoir
  - Total P, Hydrologic Modification
- Little Bear River from Hyrum Reservoir to East Fork Little Bear
  - Total P, Hydrologic Modification
- Mantua Reservoir
  - Total P, Dissolved Oxygen, pH

# Bear River TMDL Effort

- TMDL/WP Status -

TMDL/WP completed (EPA approved)

Idaho - Currently no EPA approved TMDL's for water bodies in Bear River Basin.

# Bear River TMDL Effort

- TMDL/WP Status -

TMDL/WP completed (EPA approved)

## Wyoming

- Yellow Creek below Evanston WWTP
  - Ammonia, Fecal Coliform, Total Residual Chlorine
- Bear River below Cokeville WWTP
  - Fecal Coliform, Total Residual Chlorine

# Bear River TMDL Effort

- TMDL/WP Status -

TMDL/WP pending (awaiting EPA approval)

## Utah

- Bear River from G.S.L. to confluence with Malad River
  - Total P
- Bear River from confluence with Malad River to Cutler Reservoir
  - Total P
- Spring Creek from confluence with Little Bear River to headwaters
  - Total P, dissolved oxygen, ammonia, temperature, fecal coliform
- Hyrum Reservoir
  - Total P, dissolved oxygen



# Bear River TMDL Effort

- TMDL/WP Status -

TMDL/WP pending (awaiting EPA approval)

Idaho - No TMDL/WPs awaiting EPA approval

Wyoming - No TMDL/WPs awaiting EPA approval

# Bear River TMDL Effort

- TMDL/WP Status -

## TMDL/WP in process

### Utah

- Newton Reservoir from headwaters of Clarkston Creek to confluence of Newton Creek and Cutler Reservoir.
  - Total P, Dissolved Oxygen

# Bear River TMDL Effort

- TMDL/WP Status -

## TMDL/WP in process

### Idaho - 37 stream segments, 2 reservoirs

- **Central Bear watershed:** Bear River, Thomas Fork
  - Nutrients, Sediment, Habitat Alteration
- **Middle Bear watershed:** Bear River, St. Charles Creek, Alexander Reservoir
  - Nutrients, Sediment
- **Little Bear - Logan watershed:** Bear River, Cottonwood Creek, Weston Creek, Oneida Narrows Reservoir
  - Nutrients, Sediment, Hydrologic Modification
- **Lower Bear - Malad watershed:** Malad River, Little Malad River, Devil Creek
  - Nutrients, Sediment

# Bear River TMDL Effort

- TMDL/WP Status -

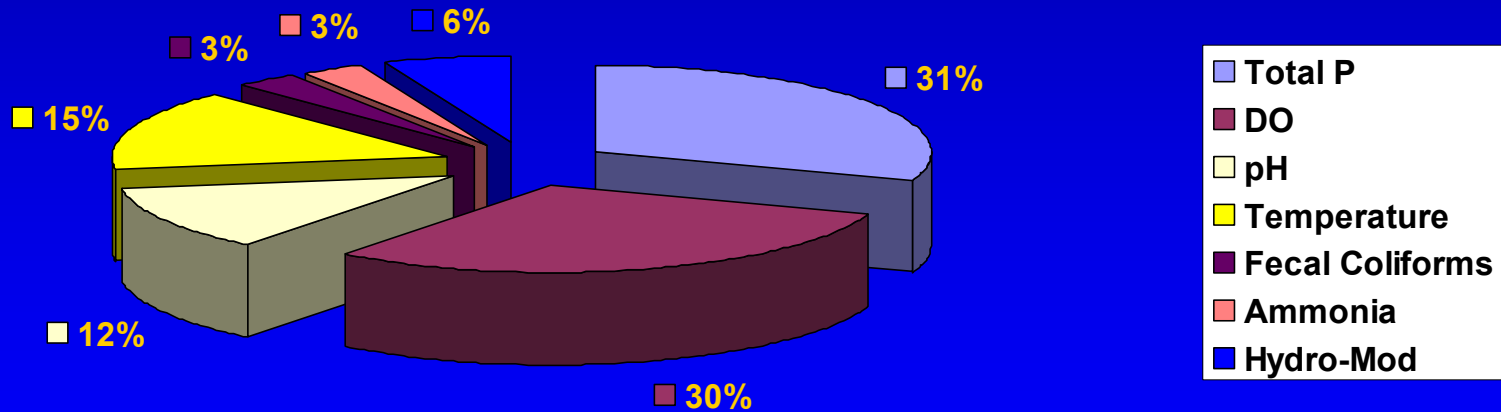
TMDL/WP in process

Wyoming - No TMDL/WPs currently in process

# Bear River TMDL Effort

- TMDL/WP Content -

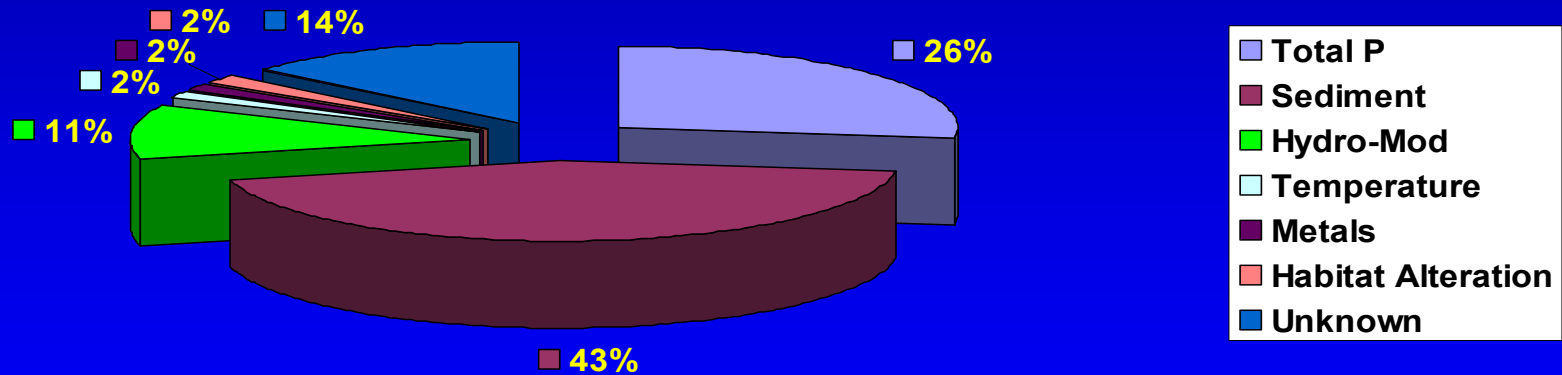
## Pollutants of concern - Utah



# Bear River TMDL Effort

- TMDL/WP Content -

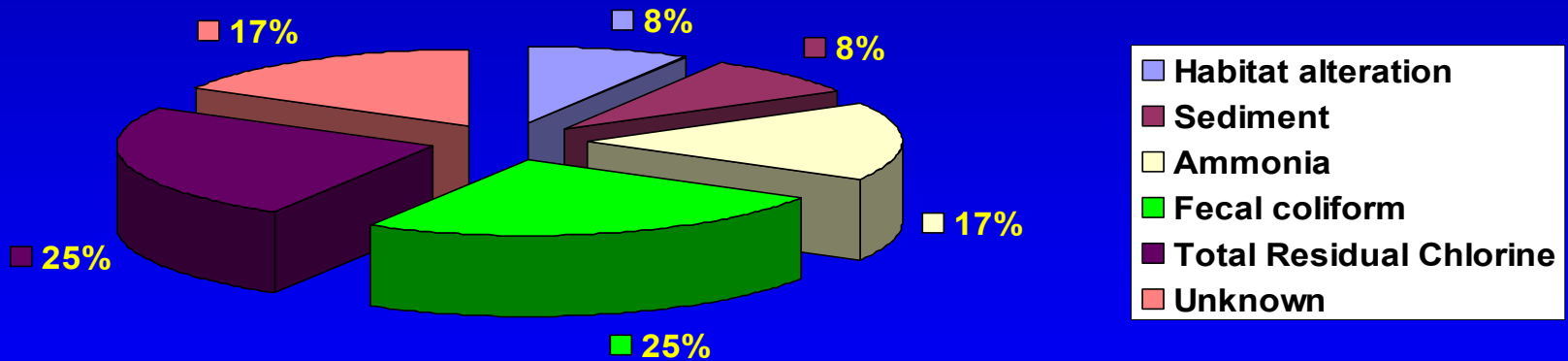
## Pollutants of concern - Idaho



# Bear River TMDL Effort

- TMDL/WP Content -

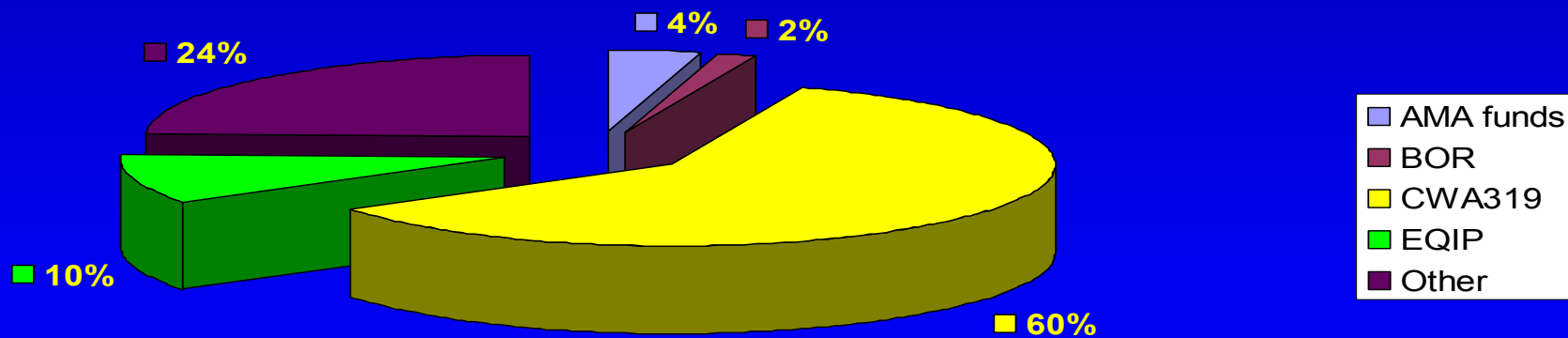
## Pollutants of concern - Wyoming



# Bear River TMDL Effort

- TMDL/WP Implementation -

**Dollars spent toward water quality improvements  
Utah 1991-2002  
Total = \$3,962,810**

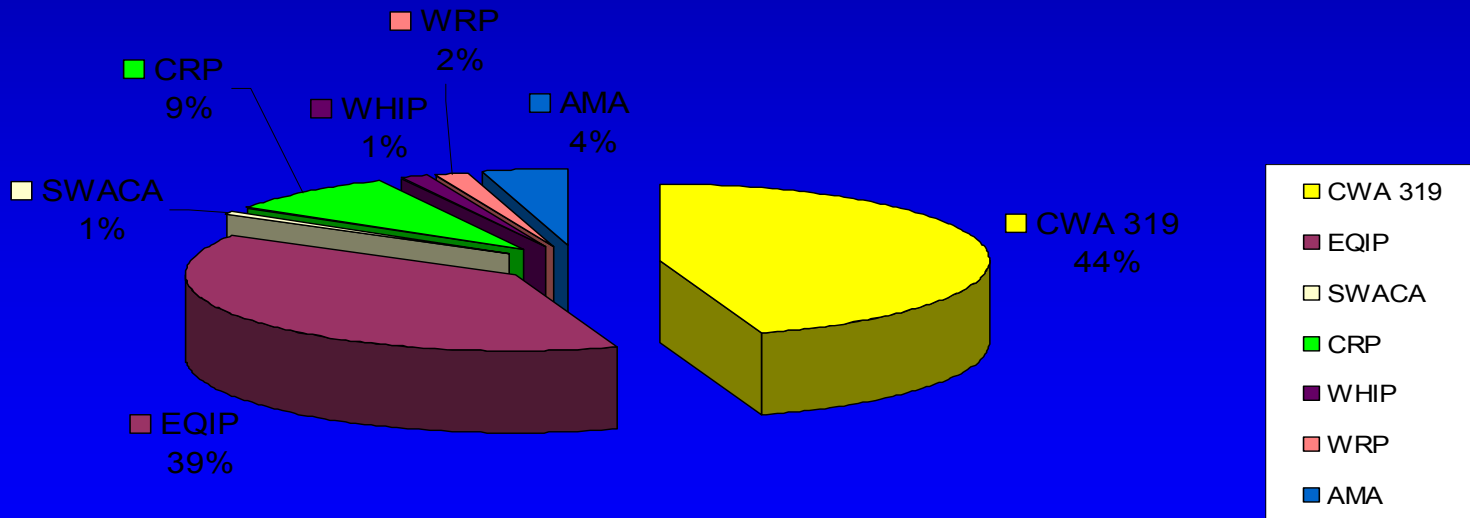




# Bear River TMDL Effort

- TMDL/WP Implementation -

**Dollars spent toward water quality improvements - Wyoming  
1996 - 2002  
Total = \$812,674**



# Bear River TMDL Effort

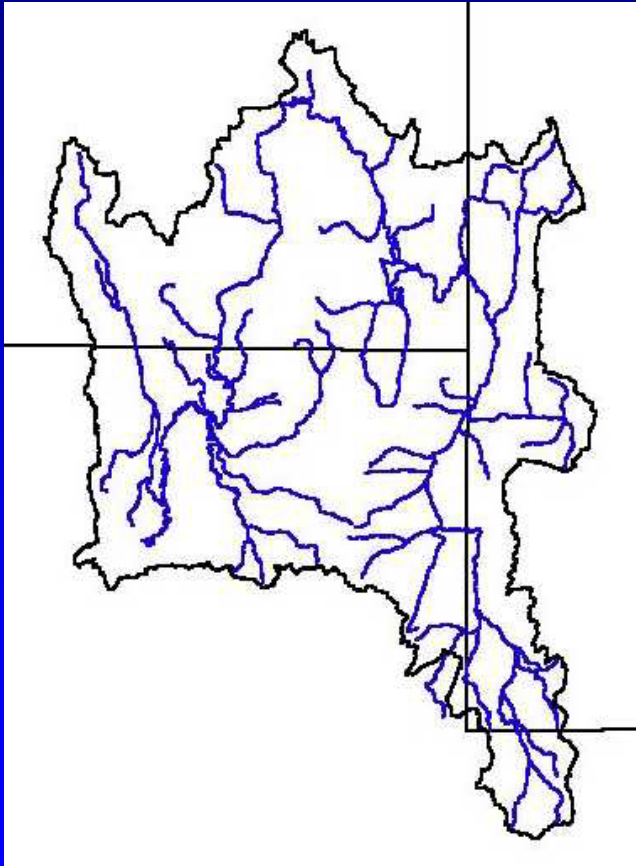
- TMDL/WP Implementation -

Dollars spent toward water quality improvements

Idaho 1995 - 2002

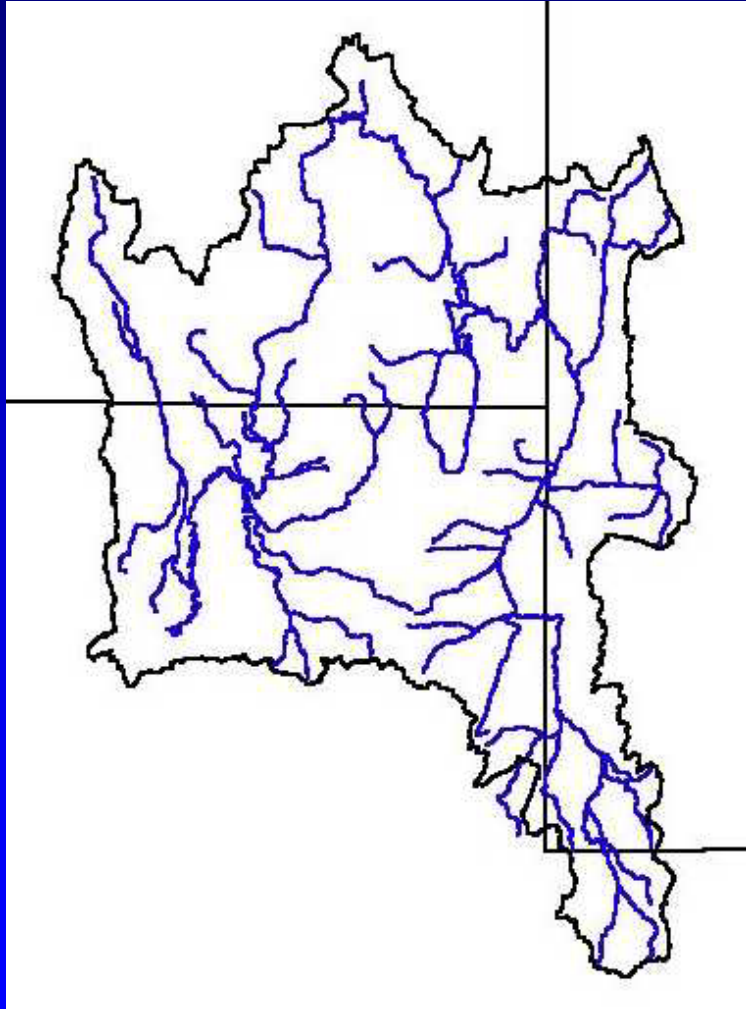
CWA 319 (Thomas Fork) = \$439,064

# Bear River TMDL Effort



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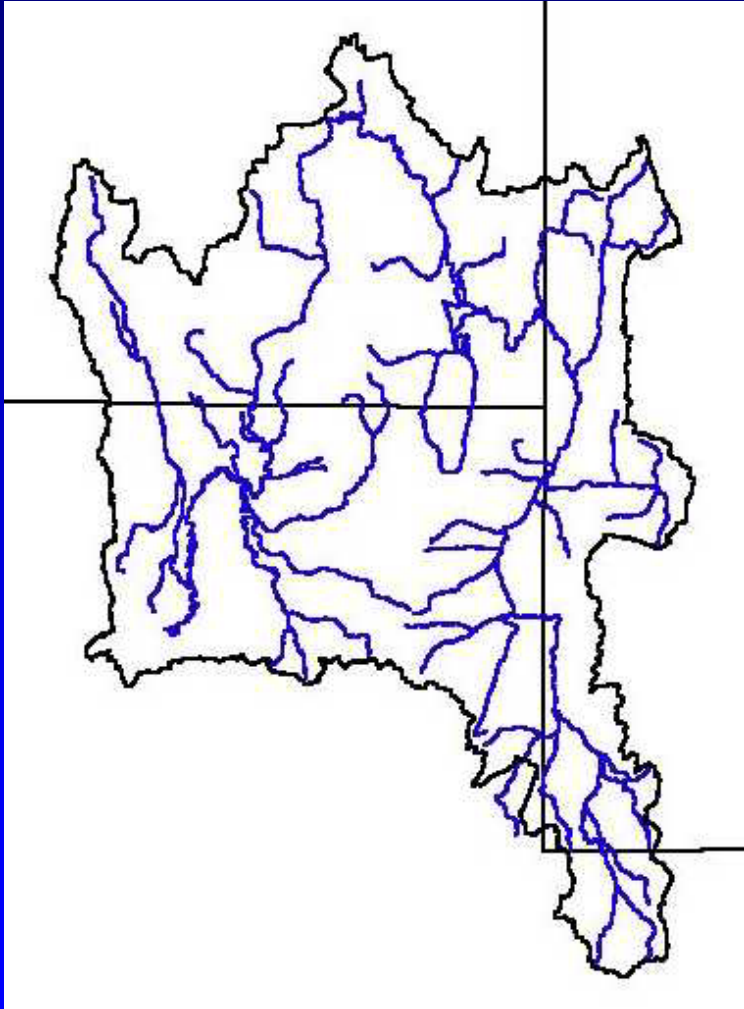
# Bear River TMDL Effort



## 4. Meetings

- Task Force - Evanston, WY (4/11/02)
- WQ Committee - SLC, UT (4/15/02)
- Commission - SLC, UT (4/16/02)
- BAG - Kemmerer, WY (7/15/02)
- Task Force - Garden City, UT (8/20/02)
- Task Force - Soda Spr, ID (11/13/02)
- WQ Committee - SLC, UT (11/18/02)
- BAG - Evanston, WY (11/18/02)
- Commission - SLC, UT (11/19/02)
- BAG - Pocatello, ID (11/20/02)

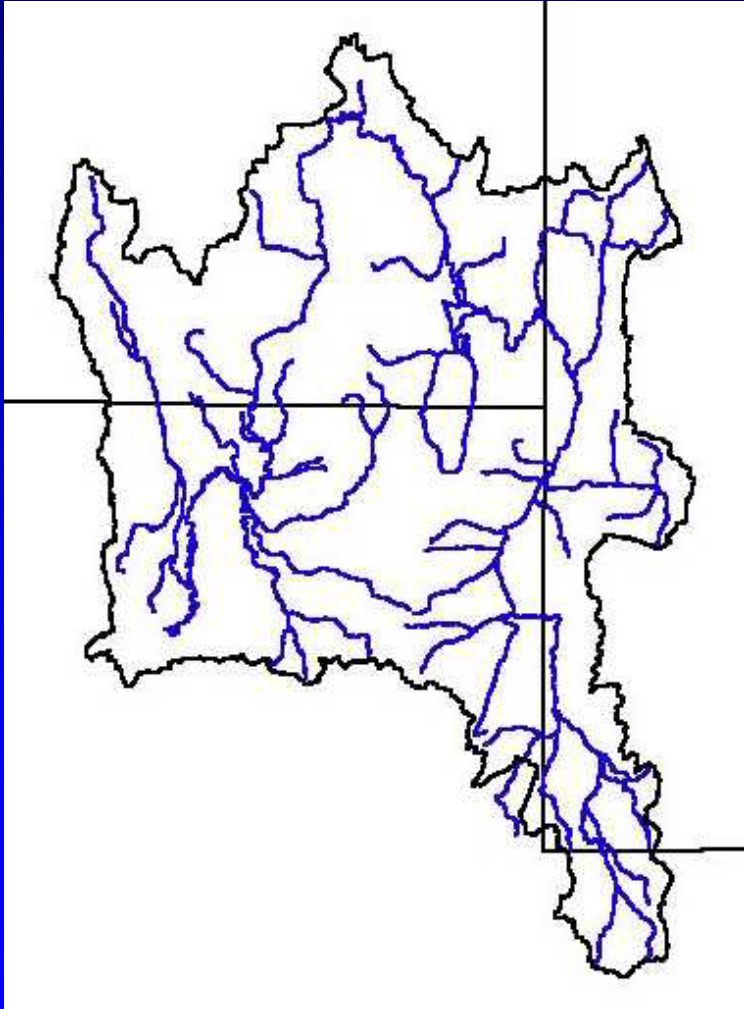
# Bear River TMDL Effort



## 5. Displays/Presentations

- meetings where requested
- posters
- flyers
- newspaper articles

# Bear River TMDL Effort



## 6. Success stories

### Utah

- Spring Creek - WWTP upgrades
- Cutler Reservoir - bank rehabilitation, habitat improvements

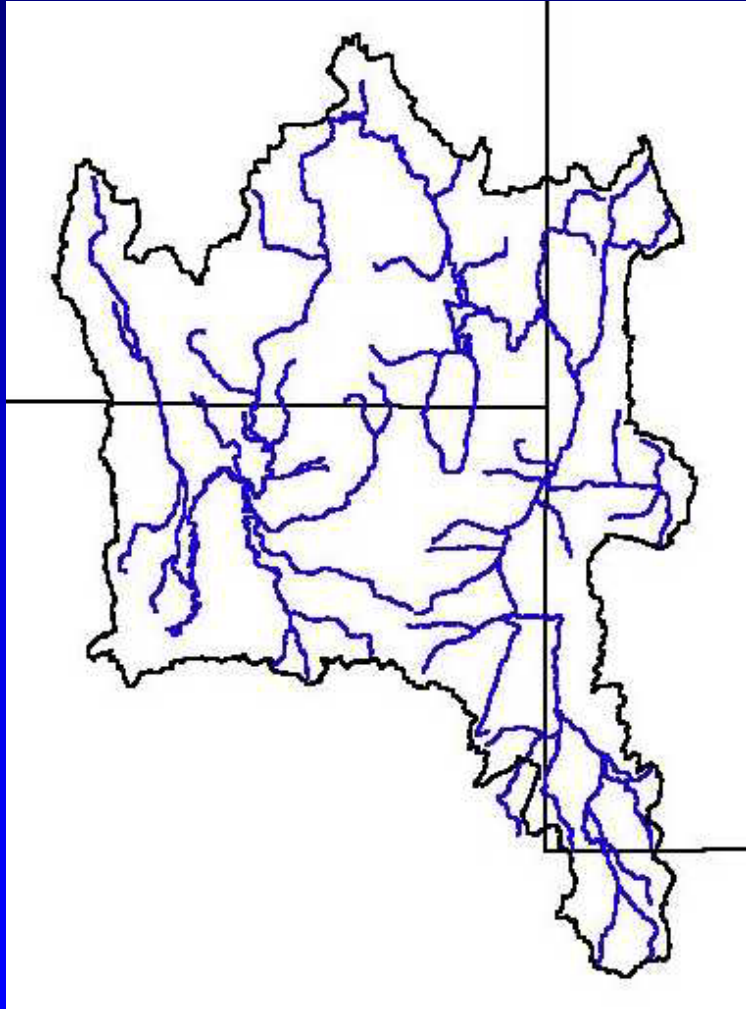
### Idaho

- Thomas Fork - stream rehabilitation

### Wyoming

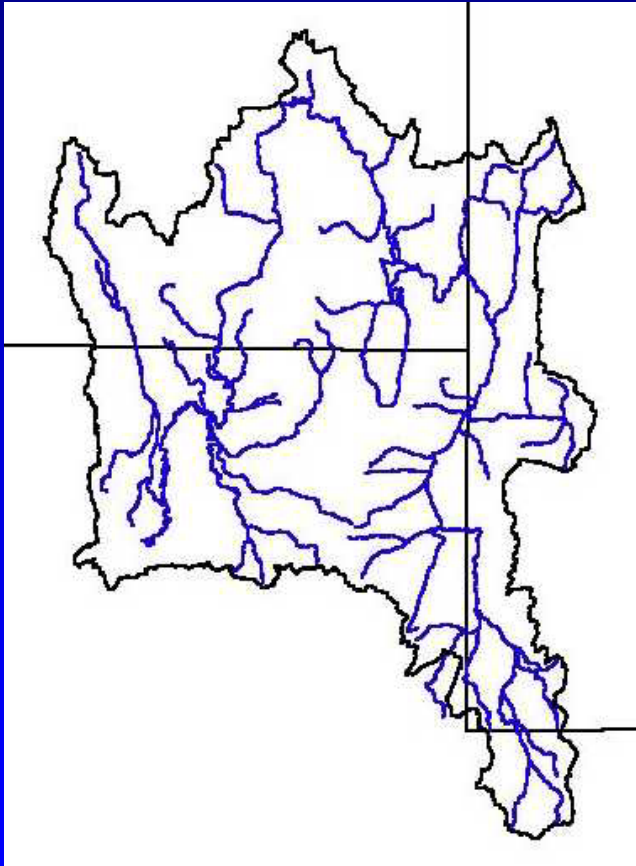
- Cumberland allotment - grazing management

# Bear River TMDL Effort



7. Final Report - March 2003

# Bear River TMDL Effort



## Future work:

- Finalize link between TMDL database and GIS software
- Disseminate information freely to agencies and stakeholders.
- Continue to update with new information.
- Generate interest among stakeholders.