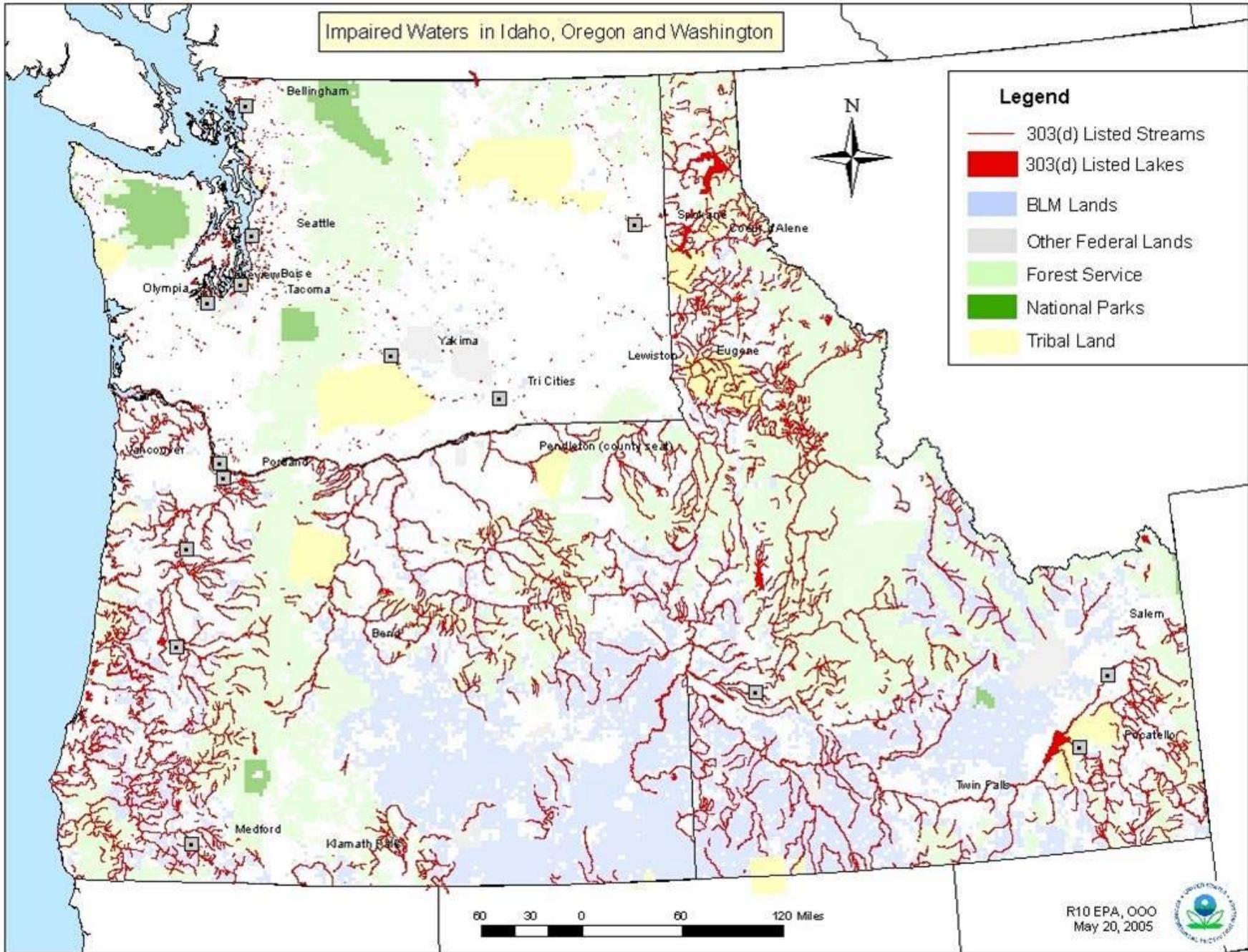


# **Western Plant Health Association Annual Meeting 2007**

**Elin D. Miller  
Regional Administrator  
EPA Region 10**



# Impaired Waters in Idaho, Oregon and Washington



# Idaho Impairments: Rivers and Streams

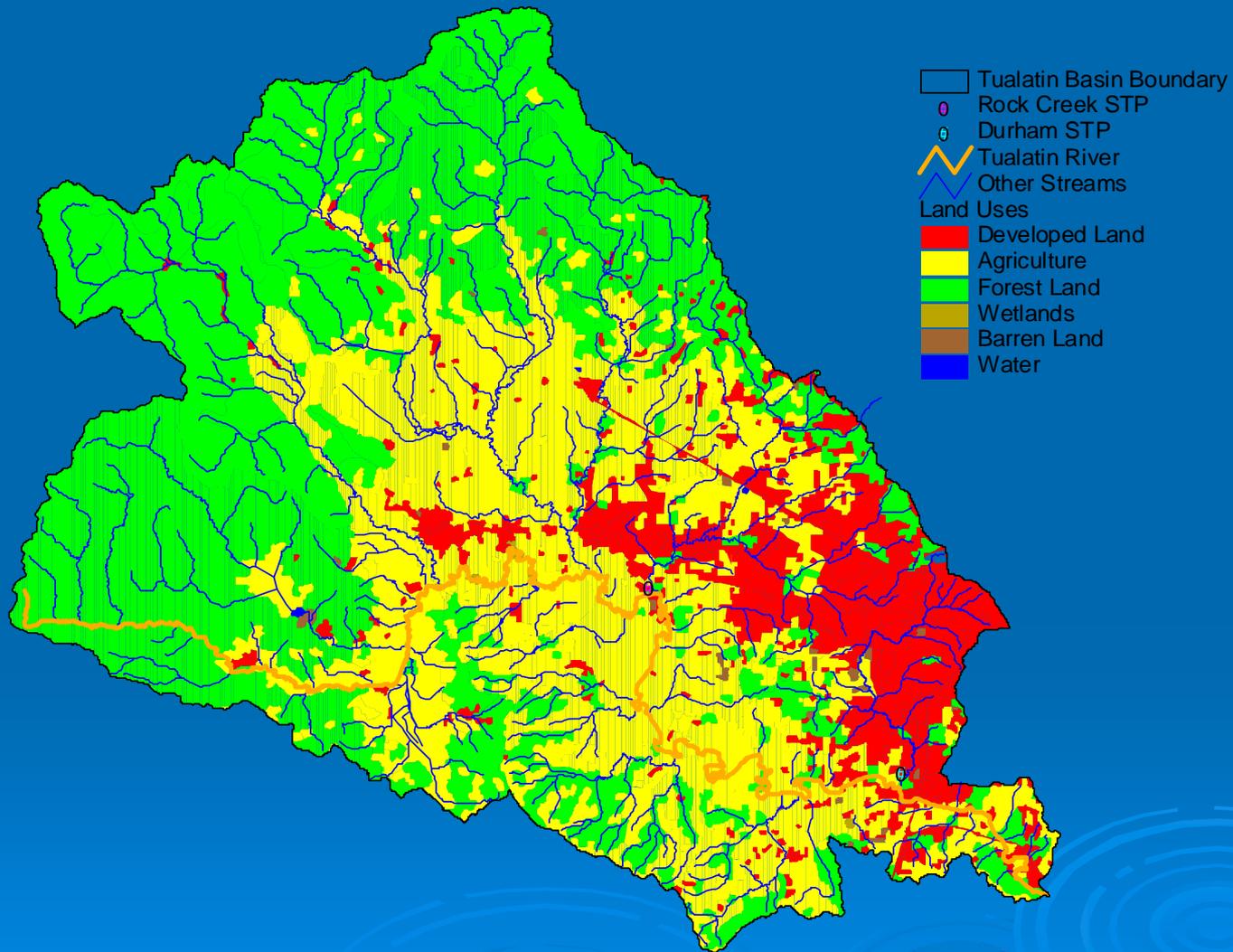
➤ SEDIMENTATION/SILTATION	14,609.72 mi.
➤ TEMPERATURE	7,505.07
➤ CAUSE UNKNOWN	7,426.30
➤ NUTRIENTS	5,531.80
➤ FLOW ALTERATION	5,260.62
➤ OTHER HABITAT ALTERATIONS	3,226.05
➤ BACTERIA	3,223.00
➤ ORGANIC ENRICHMENT/LOW DO	2,059.31
➤ PATHOGENS	1,568.55
➤ AMMONIA (UNIONIZED) – TOXIN	453.69

# Draft Lower Boise River BMP List

(and BMP duration, effectiveness % - uncertainty %)

- **Polyacrylamide** (1 irrigation season; 95% - 10%)
- **Filter Strip** (1 season; 55% - 15%)
- **Sprinkler** (15 years; 100% - 10%)
- **Microirrigation** (10 years; 100% - 2%)
- **Tailwater Recovery** (15 years; 100% - 5%)
- **Mulching** (1 season; 90% - 10%)
- **Crop Sequencing** (1 season; 90% - 10%)
- **Surge Irrigation** (15 years; 50% - 5%)
- **Nutrient Management** (1 year; substitutes for uncertainty discount if applied)
- **Sediment Basin – Field Scale** (20 years; 80% - 10%)
- **Sediment Basin – Farm Scale** (20 years; 75% - 10%)
- **Sediment Basin – Watershed Scale** (20 years; not recommended for calculated credits)
- **Constructed Wetland – Farm Scale** (15 years; 90% - 5%)
- **Constructed Wetland – Watershed Scale** (15 years; not recommended for calculated credits)
- **Underground Outlet** (20 years; 85% - 15% first 2 years, then 65% - 25%)

# Tualatin Basin Land Uses



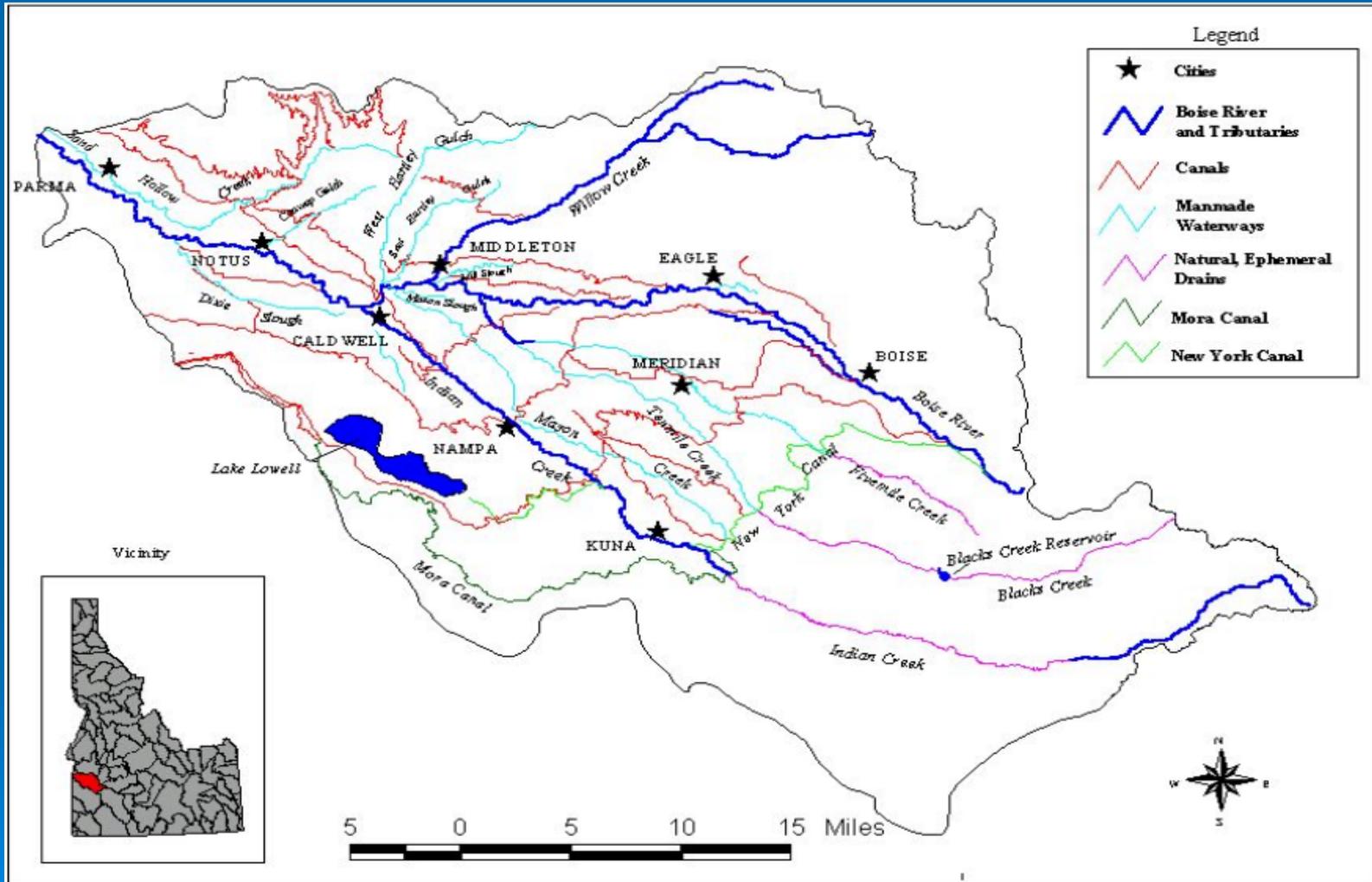
# “Bad” Riparian Area



# “Good” Riparian Area



# Lower Boise River Trading Area



# Draft Lower Boise River BMP List

(and BMP duration, effectiveness % - uncertainty %)

- **Polyacrylamide** (1 irrigation season; 95% - 10%)
- **Filter Strip** (1 season; 55% - 15%)
- **Sprinkler** (15 years; 100% - 10%)
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