

# Western Lakes Monitoring Workshop 2010



**WHY ARE WE HERE?**

**PROGRAM DRIVERS  
AND KEY MANAGEMENT QUESTIONS**

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Why are we here?



# Foundations: Clean Air Act

Federal land managers are given “an affirmative responsibility to **protect** the air quality related values ... within a class I area.”





# Additional Senate CAA Direction



- “The Federal Land Manager holds a powerful tool. He is required to **protect** Federal lands from deterioration of an established value, even when Class I [increments] are not exceeded. ...
- ...the FLM should assume an **aggressive** role in protecting the air quality values of land areas under their jurisdiction.
- In cases of doubt the land manager should err on the side of protecting the air quality-related values for **future generations.**”



# Foundations: Wilderness Act



- **Wilderness is:**
  - “...an area where the earth and its community of life are **untrammelled** by man...”
  - “...an area of undeveloped Federal land retaining its **primeval** character and influence...”
  - “...protected and managed so as to preserve its **natural** conditions...”
  - “National Forest Wilderness resources shall be managed to promote, perpetuate, and where necessary, **restore** the wilderness character of the land...”



# Foundations: Forest Service Mission



## Forest Service Mission

Sustain the health, diversity, and productivity of the Nation's forests and grasslands to meet the needs of present and future generations.



# Foundations: Forest and Rangelands Renewable Resources Planning Act (RPA)

- “An Act To provide for the Forest Service, Department of Agriculture, to protect, develop, and enhance the productivity and other values of certain of the Nation’s lands and resources...”
- Renewable Resources Program shall include “recommendations which recognize the fundamental need to **protect** and, where appropriate, **improve** the quality of soil, water, and air resources”.



# Direction: Forest Service Manual Chapter 2580



- **The Objectives of air resource management are:**
  - 1. **Protect** air quality related values within class I areas, as described in 42 U.S.C. 7475(d)(2)(B) and (C) and section 2580.5.
  - 2. Control and minimize air pollutant impact from land management activities.
  - 3. Cooperate with air regulatory authorities to **prevent** significant adverse effects of air pollutants and atmospheric deposition on forest and rangeland resources.
  - **Monitor** the effects of air pollution and atmospheric deposition on forest resources. Monitor air pollutants when Forest Service goals and objectives are at risk and adequate data are not available.





Protect

Diversity

Improve

Untrammeled

Monitor

Prevent



Natural

Productivity

Restore

Sustain

Future generations

Aggressive

Health

Primeval

# Forest Service Air Program Vision



- The Air Program envisions a healthy environment for current and future generations where natural processes occur. We believe that:
  - The health of humans and ecosystems are inseparable
  - Clean air is essential
  - Science is a foundation for taking action



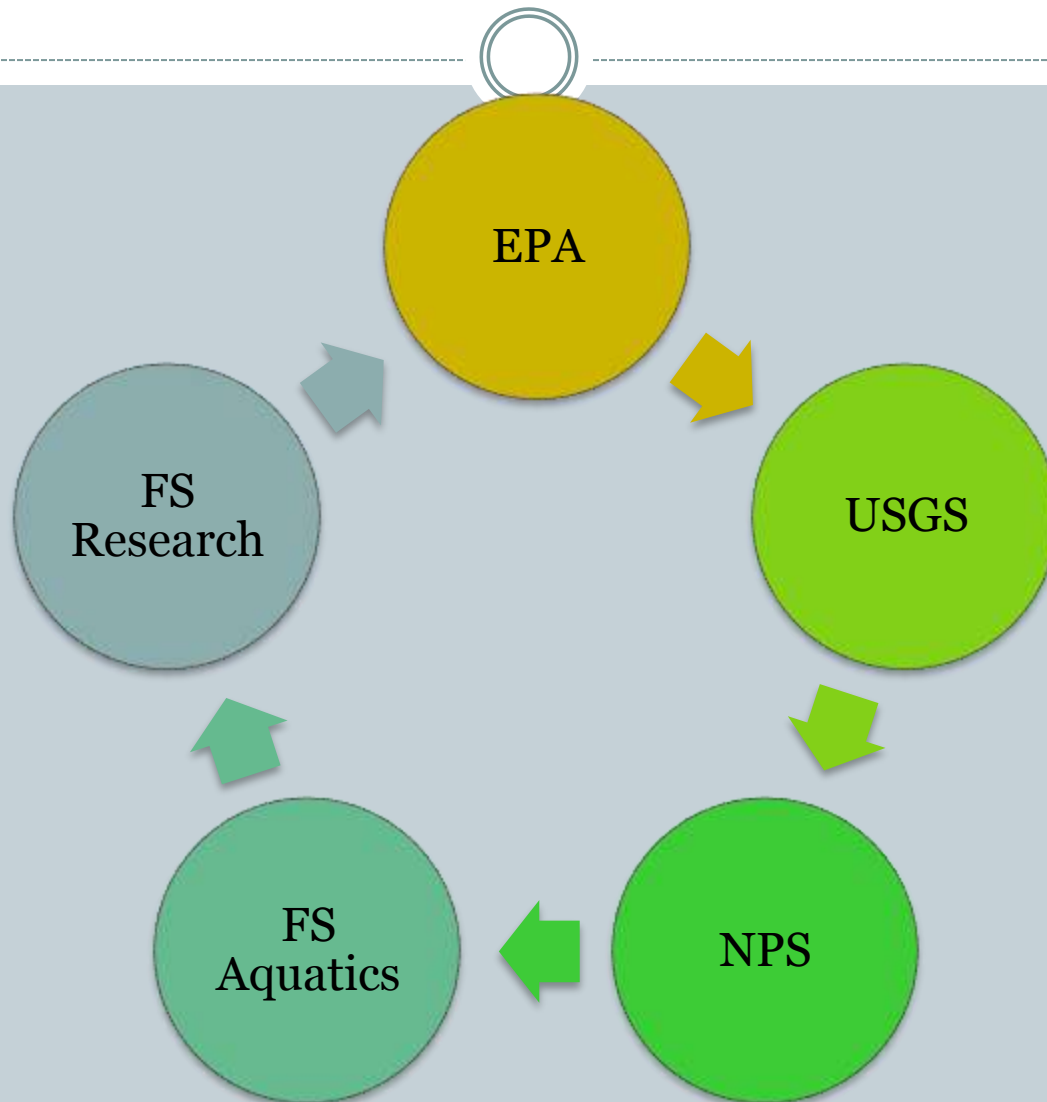
# Forest Service Air Program Mission



- Provide sound counsel on air quality issues to Forest Service decision-makers.



# Other Partners





# Why Lakes?

- What is an air-quality-related-value?
- Known issues in the east
- Known low ANC's in the west
- Other agencies





# Key Management Questions



- Evaluate our efforts
  - Successes
  - Weaknesses
  - Have we done enough?
- Transition to the future
  - Nitrification
  - Toxics
  - Global change



# *Science*





# Sound Counsel

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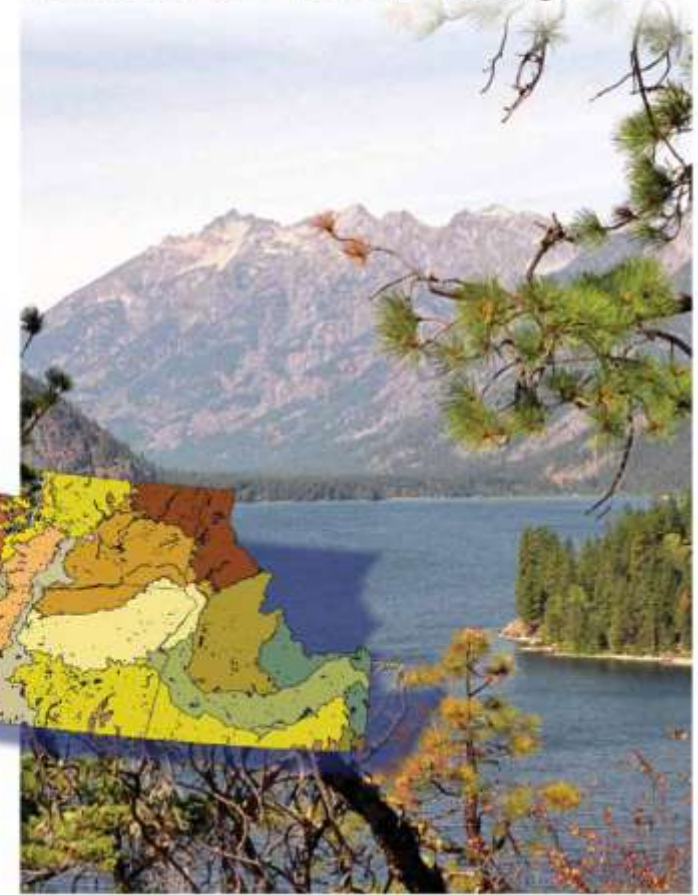
United States  
Environmental Protection  
Agency  
Office of Water & Watersheds

Region 10  
1200 Sixth Avenue  
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Washington  
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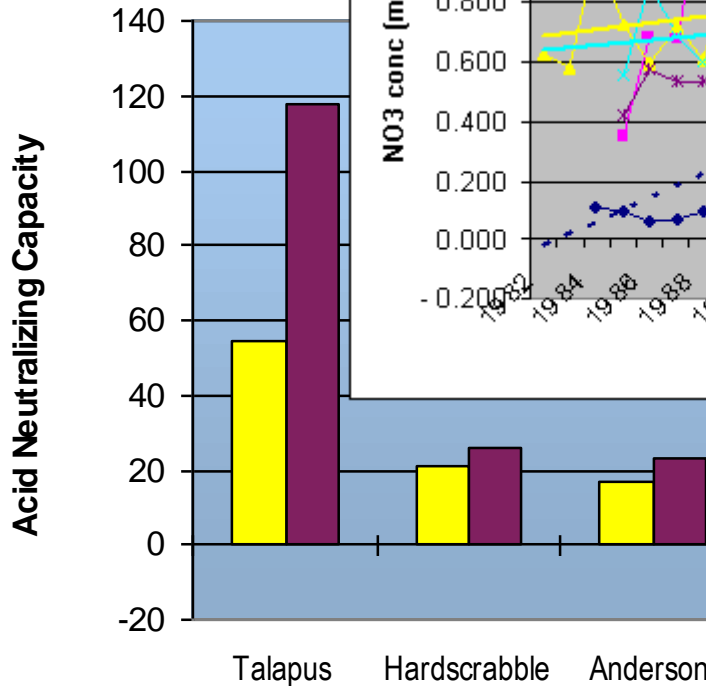
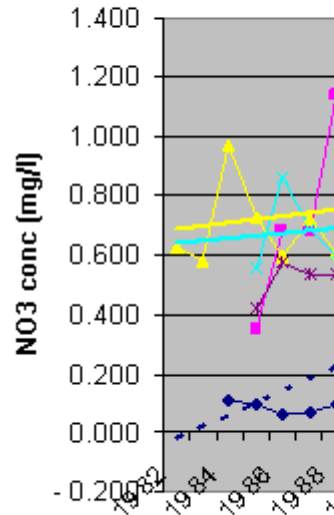


## A GIS Inventory of Pacific Northwest Lakes/Reservoirs and an Analysis of Historical Nutrient and Water Quality Data



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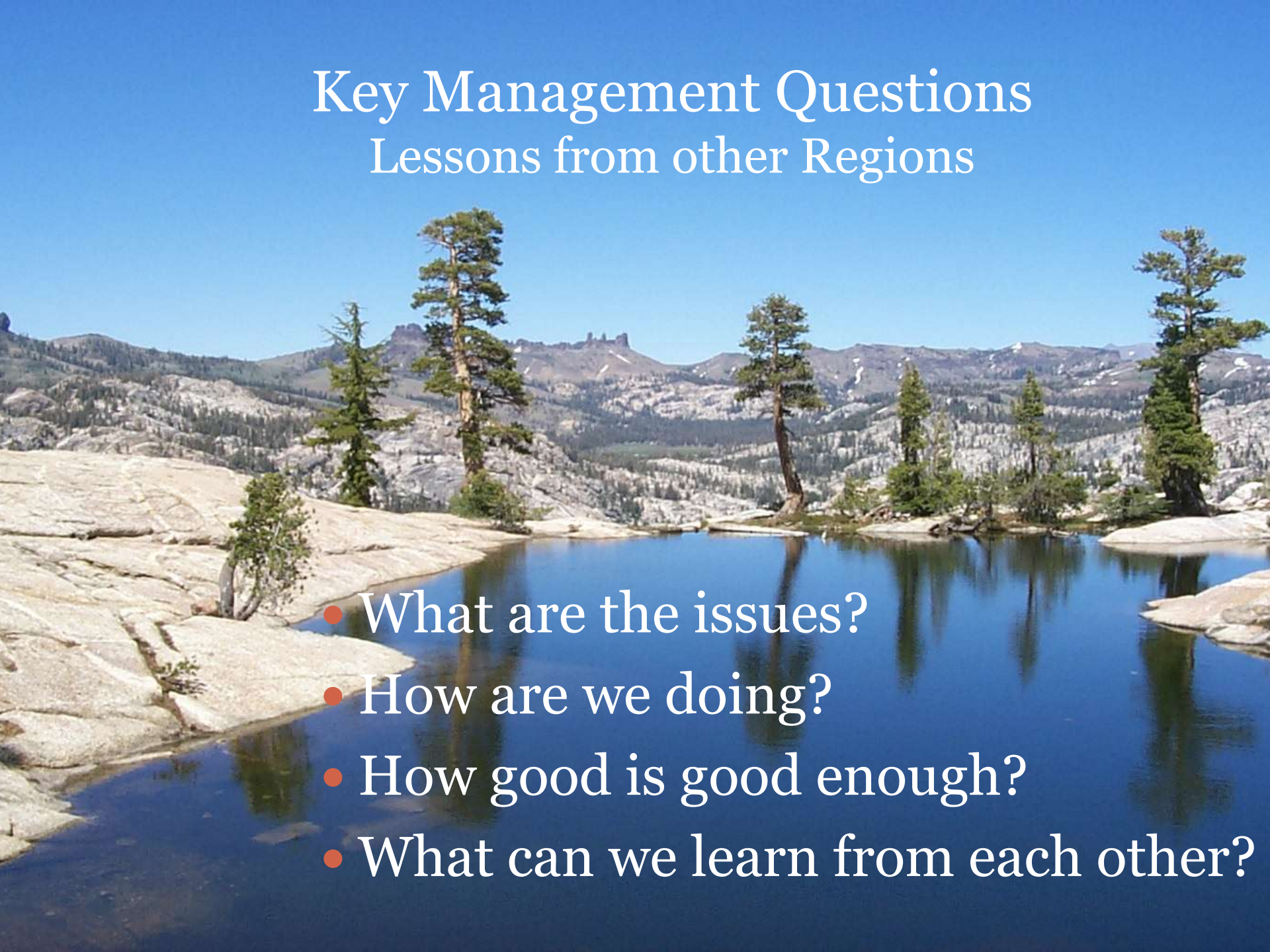
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# Key Management Questions

## Lessons from other Regions

- 
- What are the issues?
  - How are we doing?
  - How good is good enough?
  - What can we learn from each other?



**...for future generations...”**

...on the side of protecting  
the air quality-related values...

In cases of doubt the land  
manager should err...

