

Emissions, What Emissions

2015 International Emission Inventory
Conference



Confederated Tribes of the
Colville Reservation
Air Quality Program

Confederated Tribes of the Colville Reservation

1.4 Million Acres

12 Tribes

7,587 residents

3.5 people per square mile

Major employers -
Tribal, County, State
and Federal
governments

Lands in both
fee (20%)
trust (80%)



Very Diverse Environment

2,755 miles of
streams

430 lakes

7,672 acres of
surface water

28,500 acres of
wetland

902,622 acres
forests

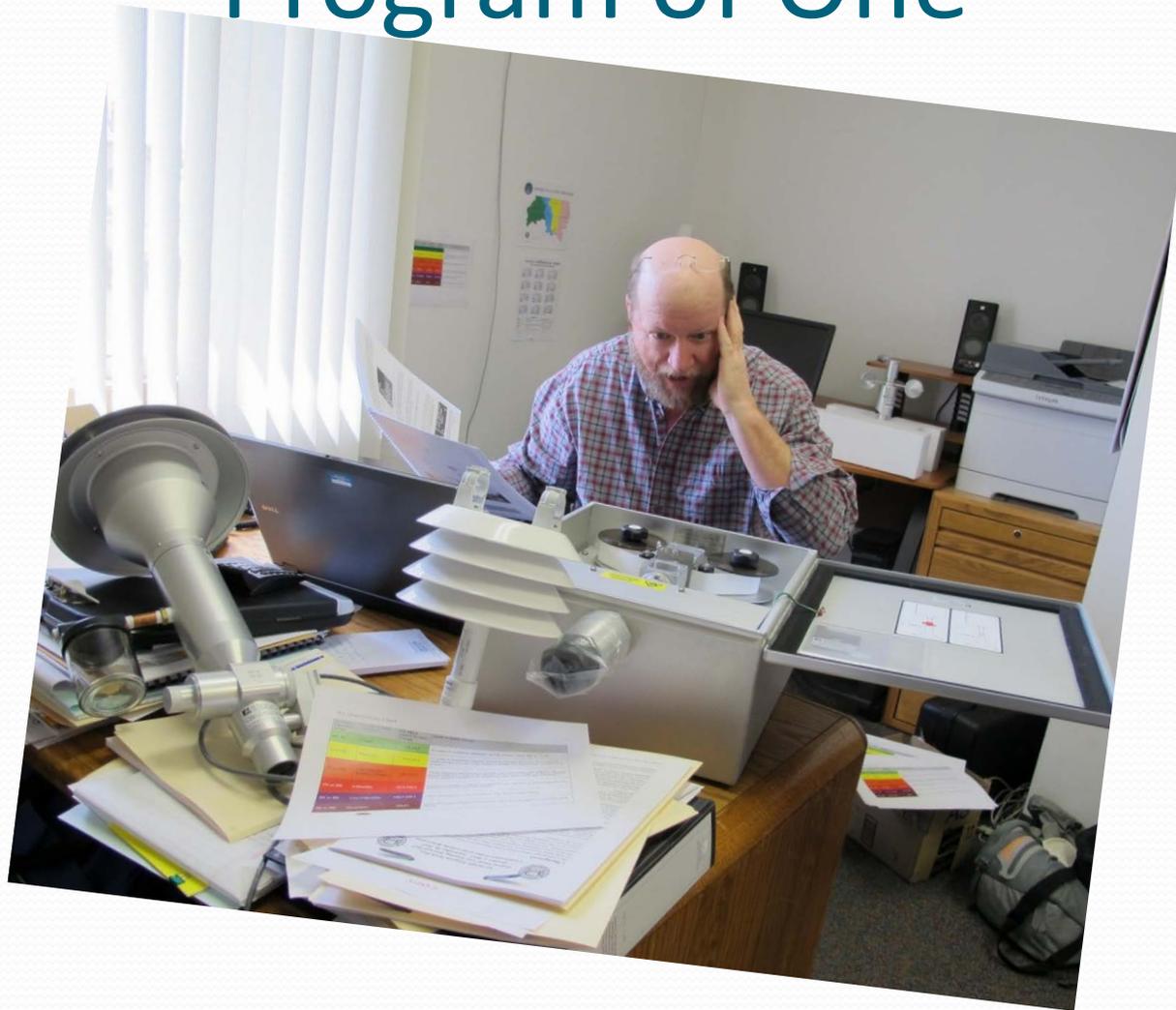
455,276 acres of
rangelands

25,500 acres of
agriculture land.

7000 miles of roads



All Covered by an Air Quality Program of One



Stages of an Emission Inventory

- Emission Inventory Preparation Plan (QAPP)
- Gather Data
- Enter Data into Tribal Emission Inventory Software Solution (TEISS)
- Submit Data to Emission Inventory System
- Write a Report
- Utilize Data for Air Quality Program
- Talk about what a good job was done

Uses of EI Data

- Monitor site selection
- Land use planning
- Permitting
- Inspections
- Future needs of the program
- Funding
- Proximity to Sensitive Groups

Emission Sources

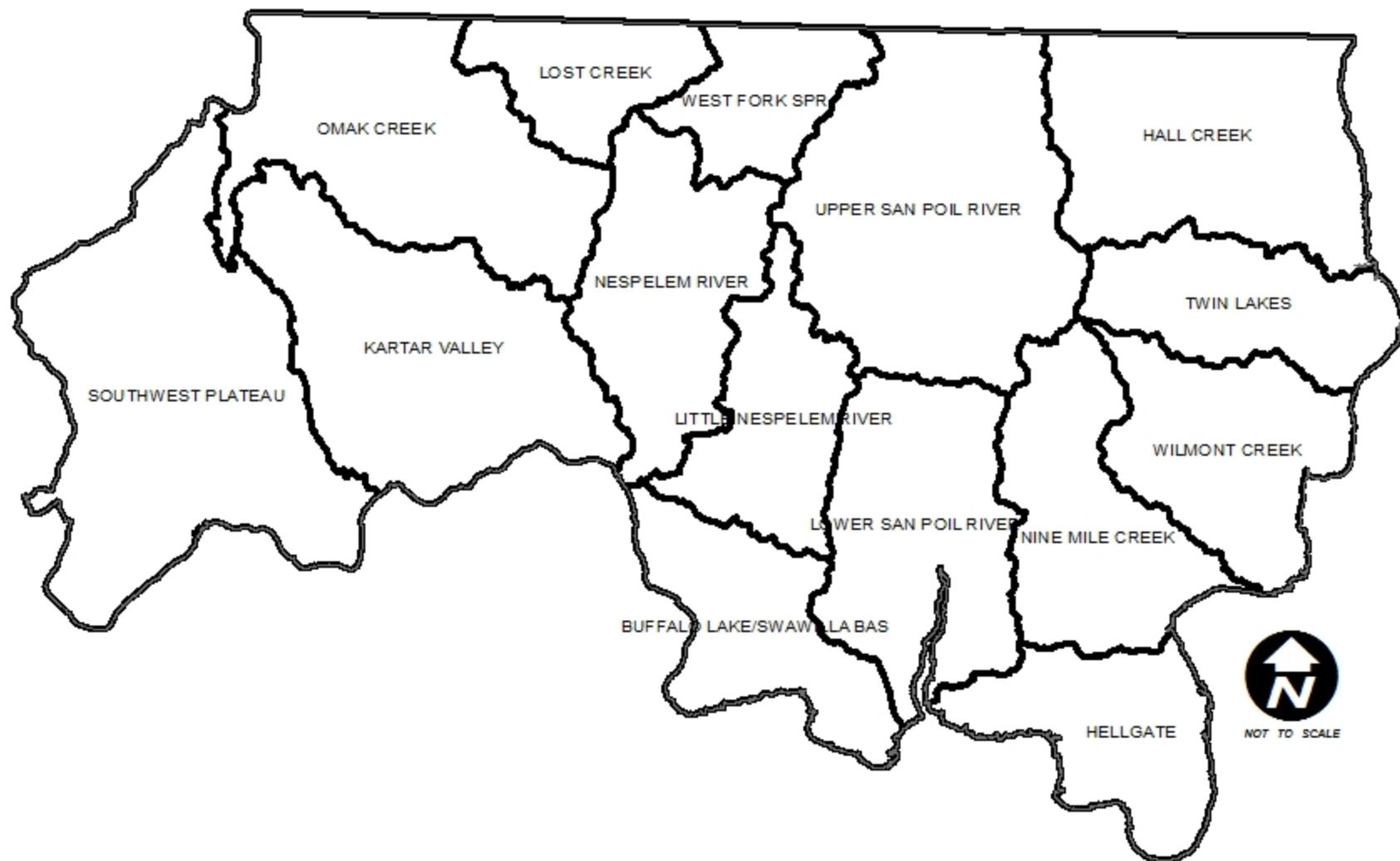
- 2 Title V plywood and sawmill
- 11 Gasoline stations convenience stores
- Asphalt batch plant, permanent and portable
- Concrete batch plant
- Residential wood stoves
- Prescribed fire, forest practices
- Wildfire
- Agricultural fires



Airshed Development

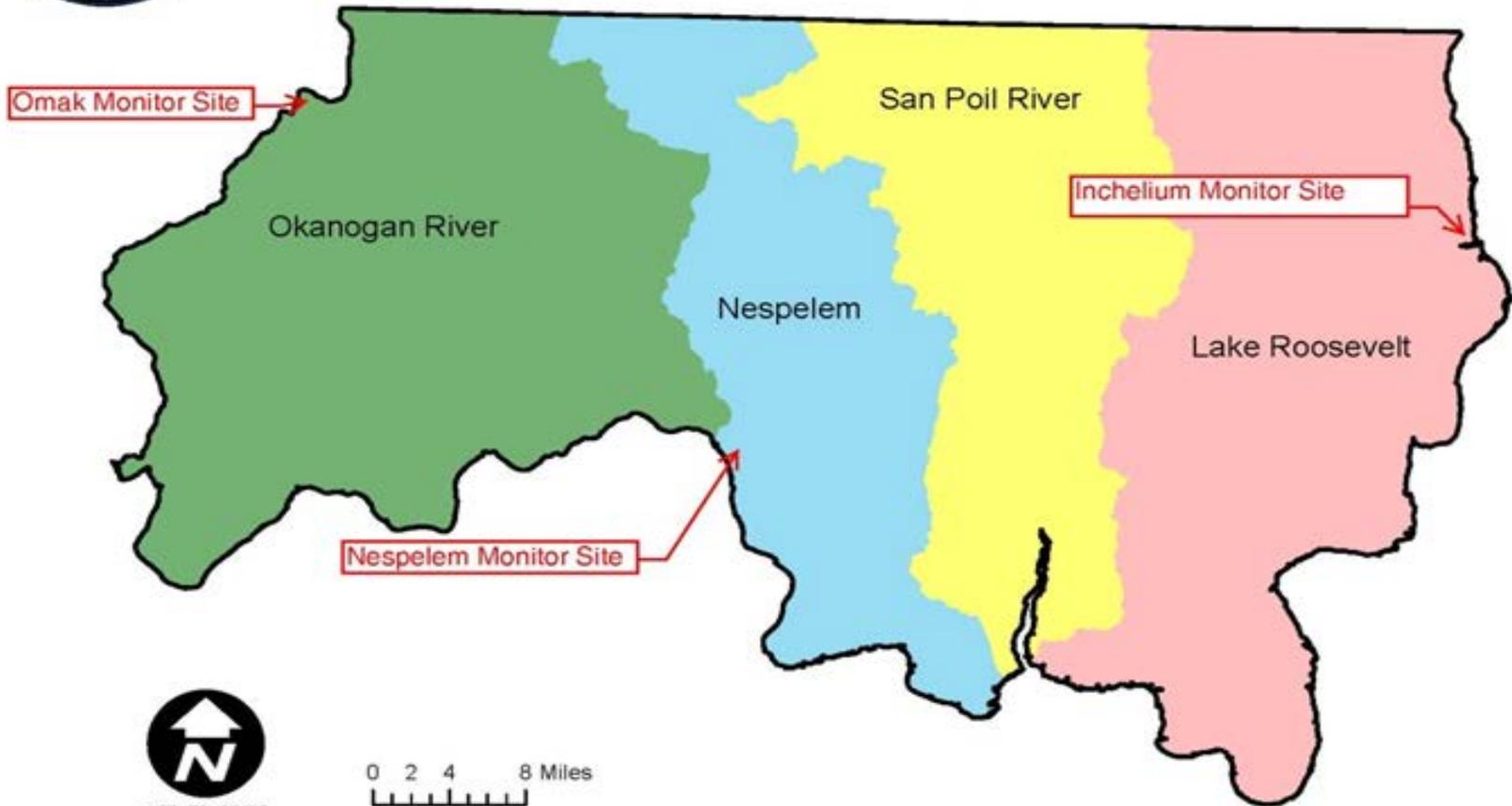
- **Frame work for data**
- **Set priority areas**
- **Identify differences across the Reservation**

Resource Management Units Colville Reservation





Airsheds of the Colville Reservation



NOT TO SCALE

0 2 4 8 Miles

Map Prepared By Kris Ray

Emission Sources

Okanogan River

- 2 Title V Facilities
- 1 Asphalt Batch Plant
- 6 Gas Stations

Nespelem River

- 2 Gas Stations
- 1 Concrete Batch Plant

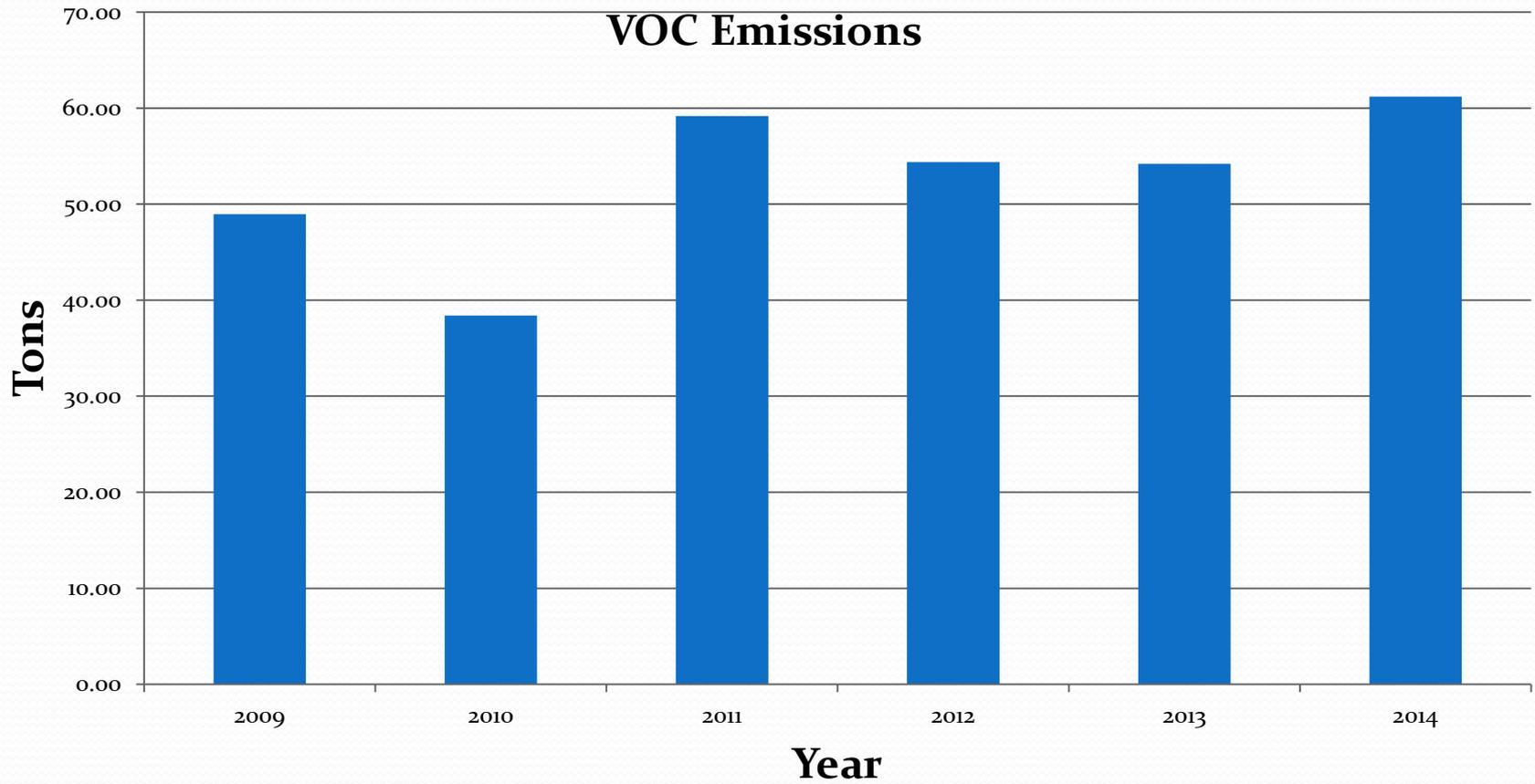
San Poil River

- 1 Gas Station

Lake Roosevelt

- 1 Gas Station

VOC Trends



VOC by Airshed 2014

Okanogan River – 39 tons

Nespelem River – 11 tons

San Poil River – 1.7 tons

Lake Roosevelt – 1.5 tons

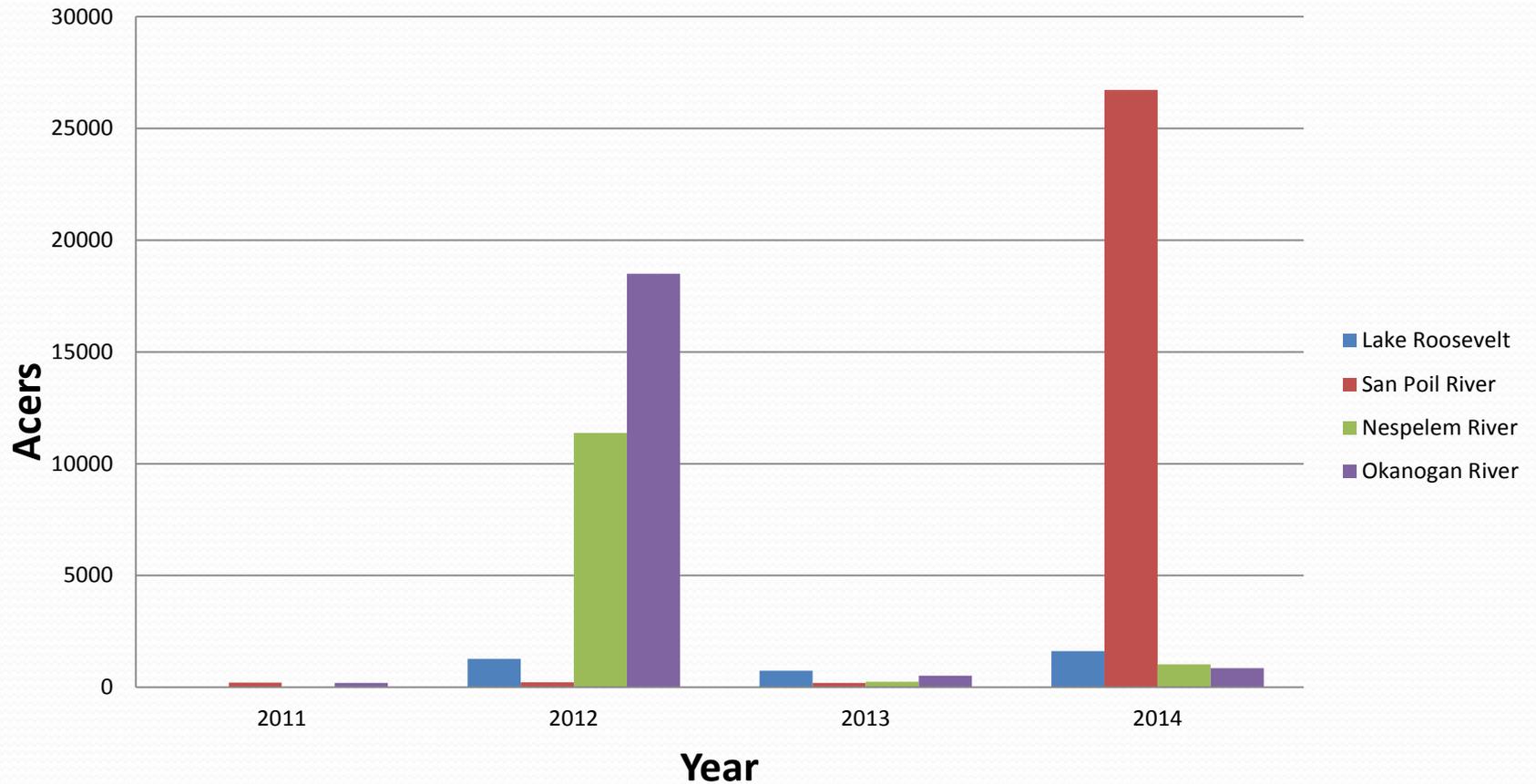


Fire Smoke



- Residential Wood Stove
- Prescribed Fires
- Agricultural Fires
- Wildfires
- Industry
- Individual Debris Burning
- Discrete Events

Wildfire by Airshed and Year

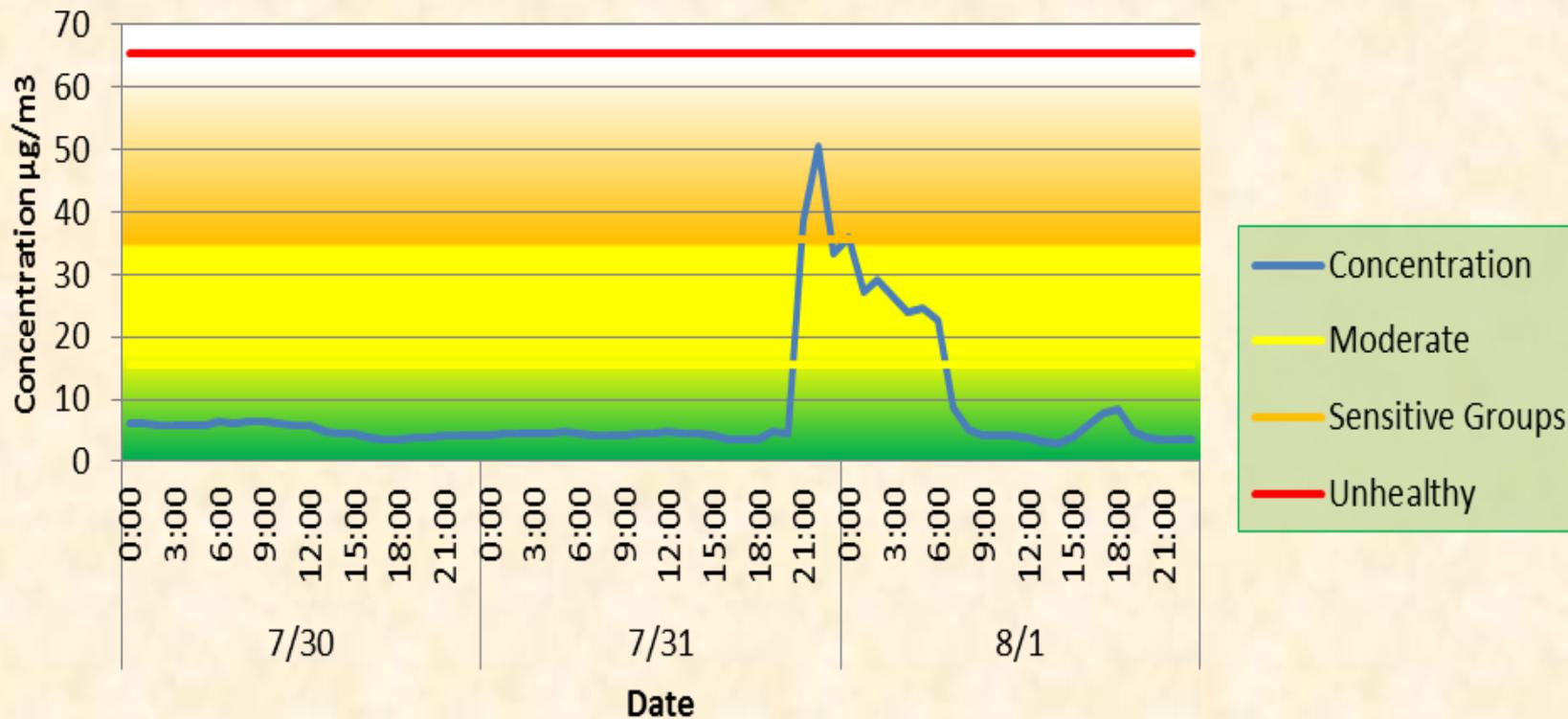


Disautel Fire July 2012

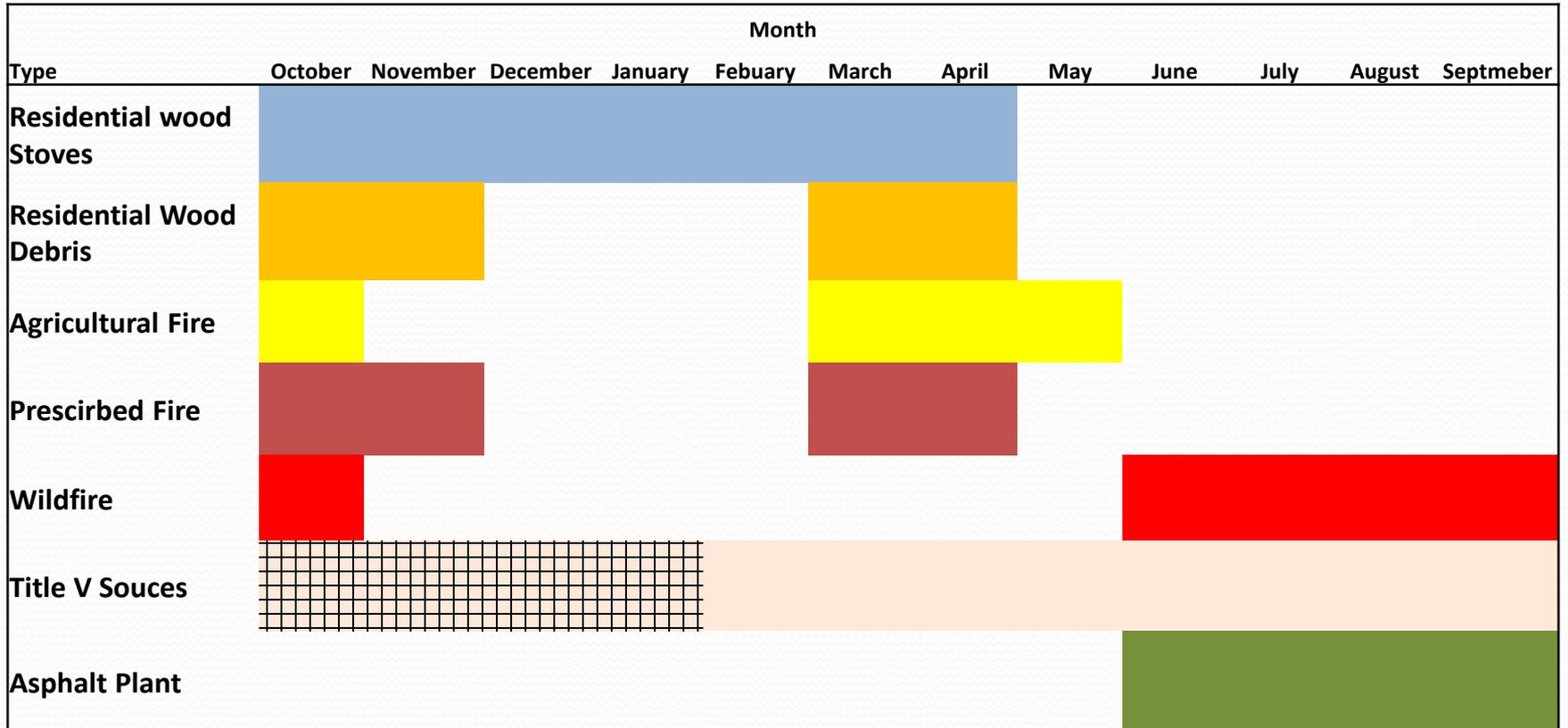


Omak Air Monitor Concentration, Disautel Landfill Fire

July 30 to August 1, 2012



Emission by Season



Closing Thoughts

- Not Sophisticated
- Submitting Data to NEI a Bonus
- Leverage Information
- Provide Information to Public
- End Goal is to Protect Human Health and the Environment



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