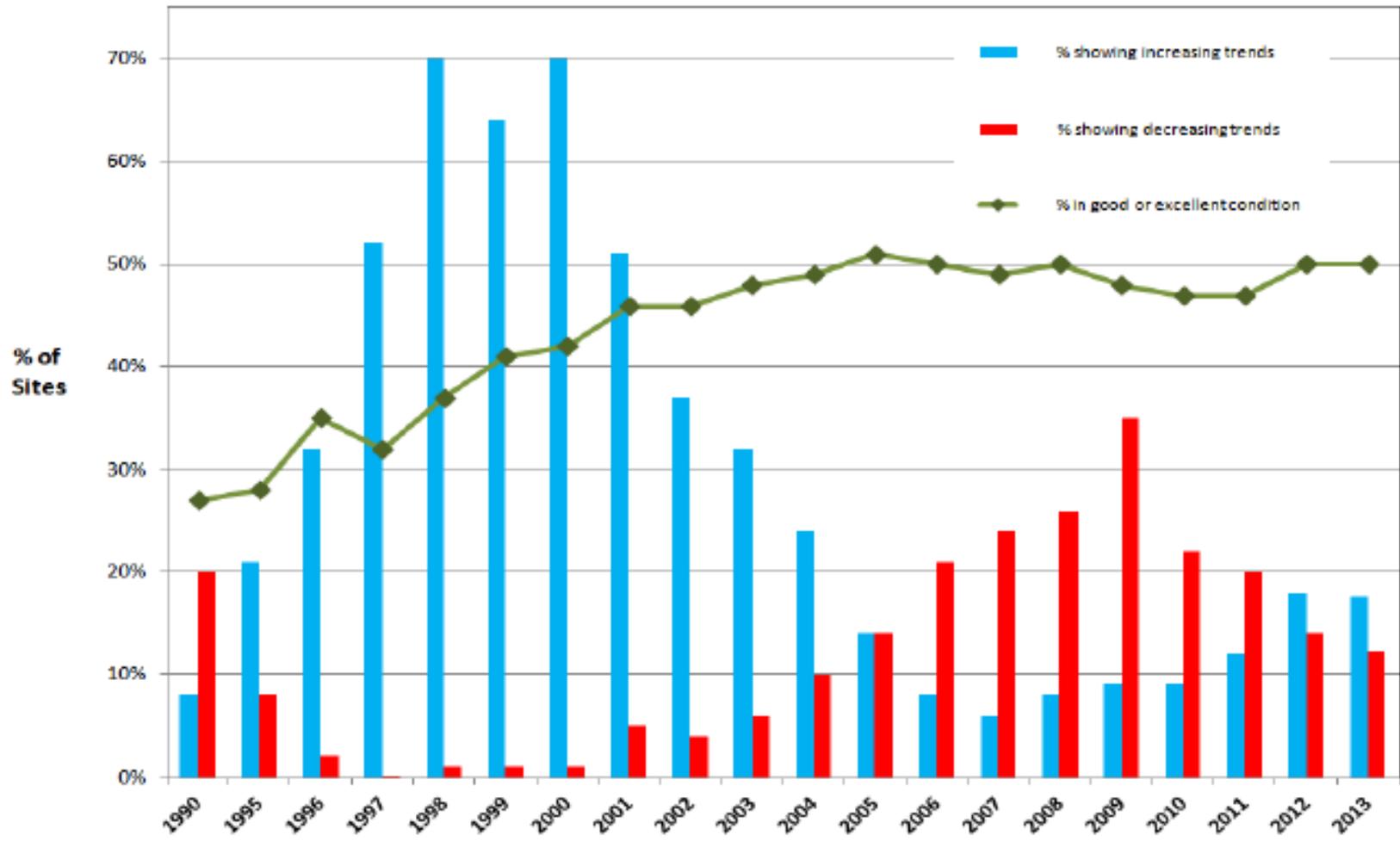


Overall Water Quality Trends in Oregon 1990-2013



Why is water quality improving or declining?

Trending analysis of the water years 2004-2013 data showed a greater proportion of sites with improving trends for seven sub-indexes (temperature, pH, dissolved oxygen, nitrogen, bacteria, total solids and total phosphorus) and fewer sites with decreasing trends (Table 3). Only one sub-index (biochemical oxygen demand) showed a greater percentage of sites with significantly declining trends and fewer sites with improving trends.

From the ambient river network data, DEQ sees improving trends in temperature, pH, dissolved oxygen, nitrogen, bacteria, total solids and total phosphorus, while at the same time trends in biochemical oxygen demand are declining (Table 3).

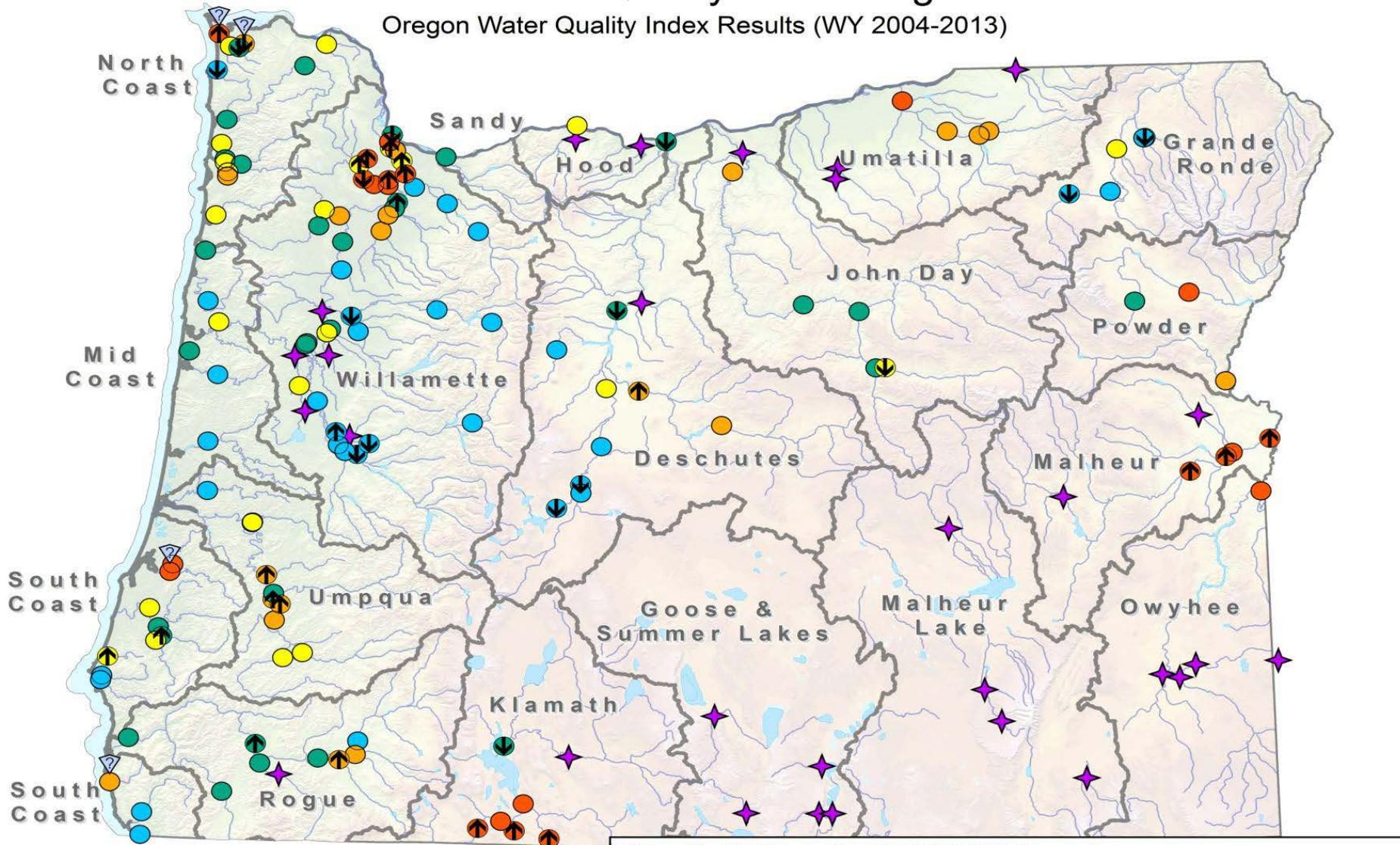
Water Quality Trends in Oregon 2004-2013

Table 3. Percent of sites in each sub-index with either improving or declining trends for river sites monitored by DEQ Laboratory for water years 2004-2013.

	Sub-Index							
	<i>Temperature</i>	<i>pH</i>	<i>Dissolved Oxygen</i>	<i>Nitrogen</i>	<i>Bacteria</i>	<i>BOD</i>	<i>Total Solids</i>	<i>Phosphorus</i>
Improving Trend	38%	21%	23%	54%	19%	1%	15%	18%
Declining Trend	6%	7%	11%	5%	9%	60%	12%	8%

Ambient Water Quality Monitoring Network

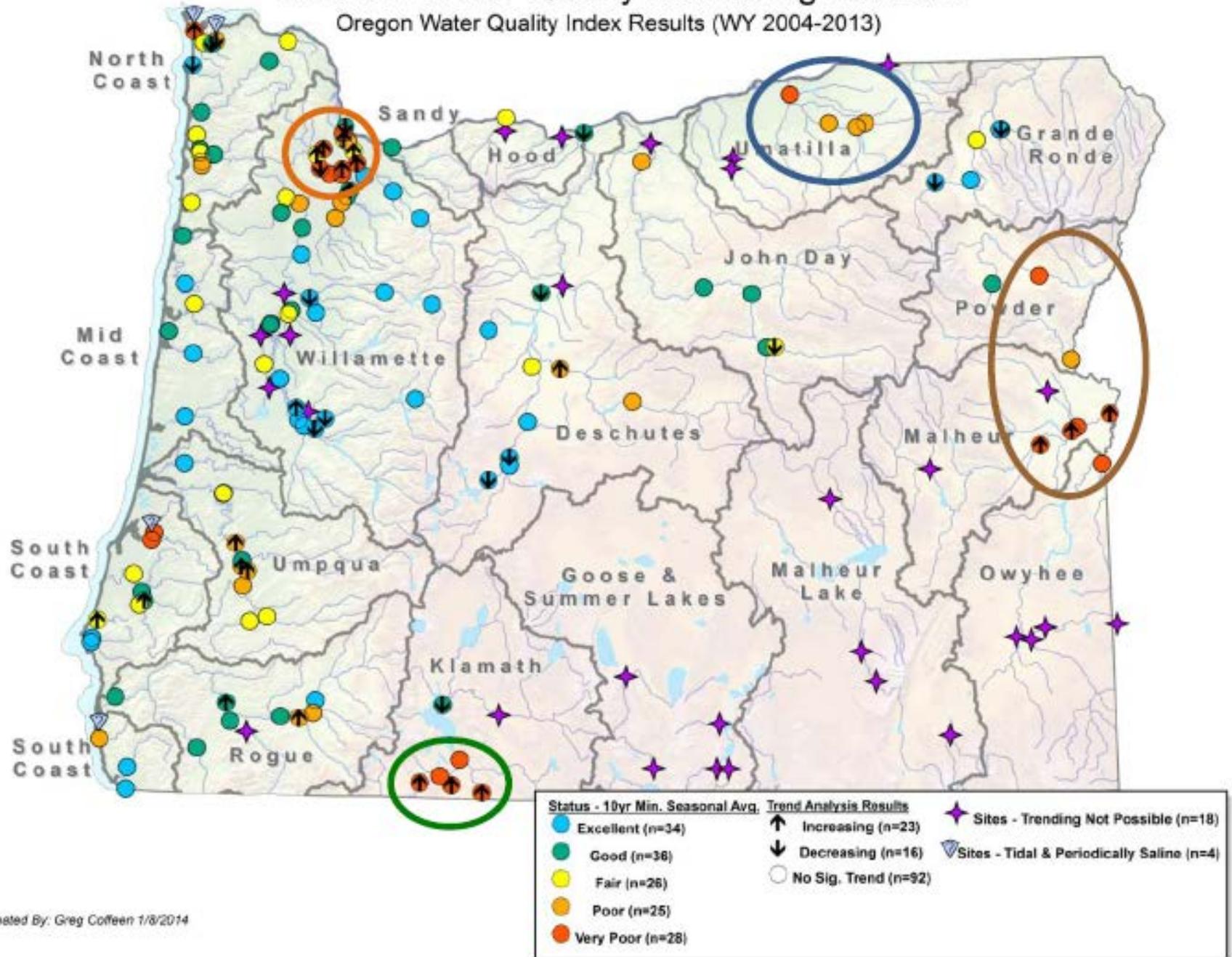
Oregon Water Quality Index Results (WY 2004-2013)



Status - 10yr Min. Seasonal Avg.	Trend Analysis Results	Sites - Trending Not Possible (n=18)
● Excellent (n=34)	↑ Increasing (n=23)	★
● Good (n=36)	↓ Decreasing (n=16)	▽ Sites - Tidal & Periodically Saline (n=4)
● Fair (n=26)	○ No Sig. Trend (n=92)	
● Poor (n=25)		
● Very Poor (n=28)		

Ambient Water Quality Monitoring Network

Oregon Water Quality Index Results (WY 2004-2013)



Clean Water Partnership

DEQ

- Data Collection and Access
- Urban runoff/septic systems/wastewater

ODA

- Agricultural Water Quality Program
- SWCDs

ODF: Oregon Forest Practices Act

OWEB: Watershed Restoration

ODFW: Fisheries Restoration

Federal Agencies: NRCS, FSA, USFS, BLM

Willamette River, Fishing 1940



Willamette River, Annual Big Float 2013

