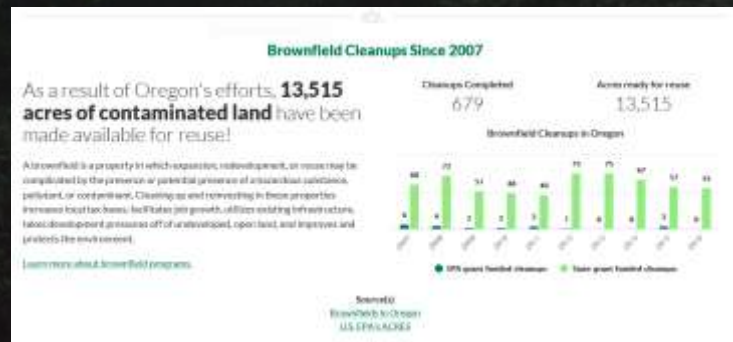
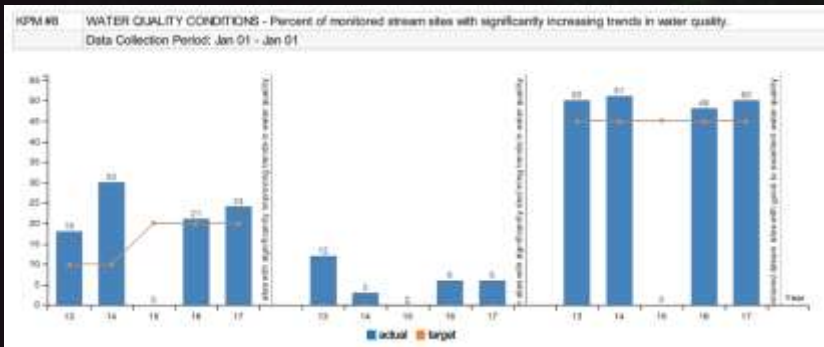


# Oregon 2020 State of the Environment

Item B  
Sept. 17, 2020





**DEQ Quarterly Measure Review 4th Quarter - 2017** Oct, Nov, Dec

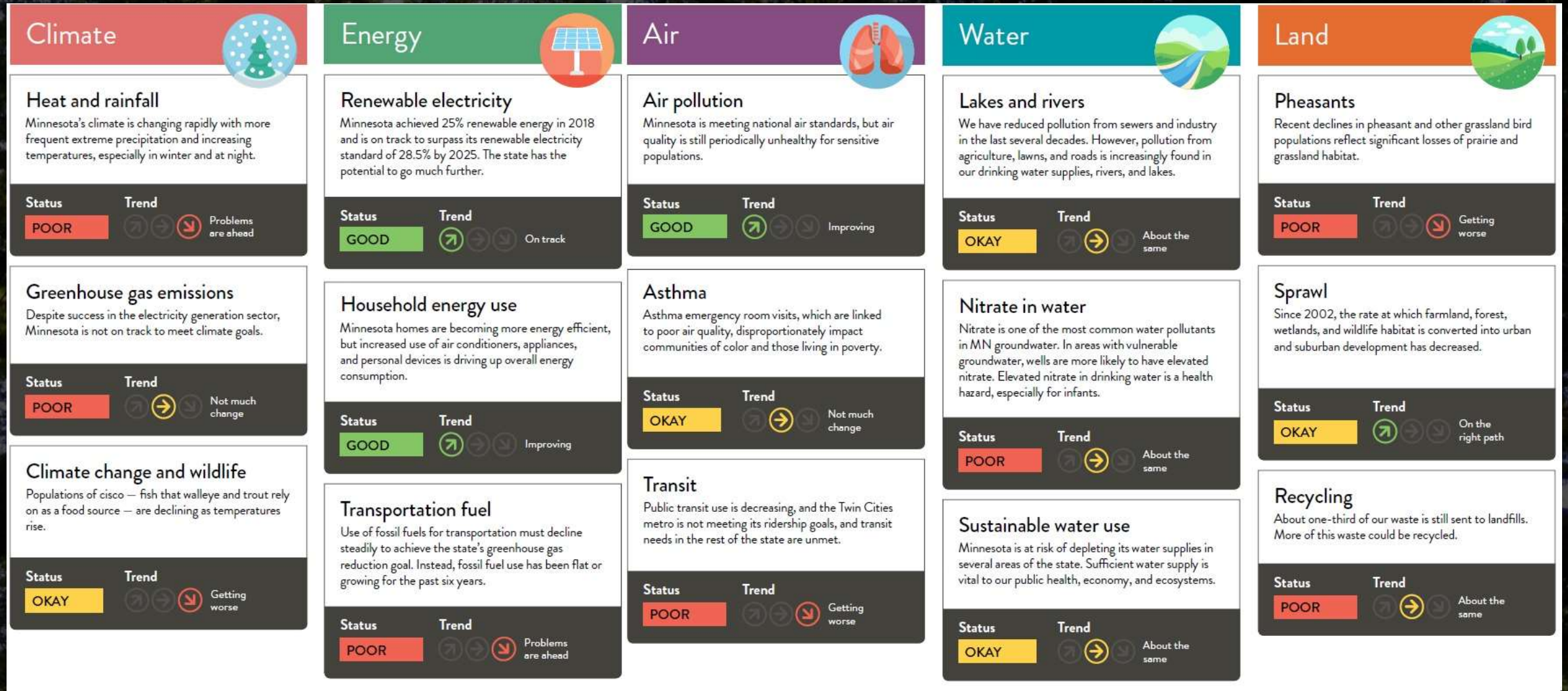
Total Measure on track: 52 Total Measure at Risk or Off Track: 34

Measure	Target	Actual	Score	Notes	Owner	Due Date
<b>Customer Experience</b>						
Customer Service	Big percent of requests that are WFO customer service or available in print	85%	85%	85%	85%	85%
<b>Process Performance</b>						
Process Performance	Percent of new environmental permits issued that are within time goal range	85%	85%	85%	85%	85%
Customer Response and Service	Percent of new customer requests being responded to within time goal range	85%	85%	85%	85%	85%
Percent of requests in need of public meeting or public involvement	Total number of requests needed to provide information needed by majority of all requests	85%	85%	85%	85%	85%
<b>Workplace Safety</b>						
Workplace Safety	Total number of requests that require a public meeting or public involvement	85%	85%	85%	85%	85%
<b>Transparency</b>						
Transparency	The average number of requests that require a public meeting or public involvement	85%	85%	85%	85%	85%

# 2020-21 DEQ Strategic Planning and Update of Performance Measures



# Sample of a State Report Card





# Environmental Data Collection and Management at DEQ

Lori Pillsbury

# Collecting Data for Environmental Outcomes

## *Monitoring environment over time*

- Ambient river monitoring
- WQ Toxics monitoring
- National Air Toxics Trends Sites (NATTS)
- PM2.5 / Criteria pollutant sites



## *Protecting human health / vulnerable communities*

- Statewide Groundwater Monitoring
- Cyanotoxin Drinking Water project
- Air Toxics Community Assessments
- BEACH monitoring
- Air Quality Index



## *Engaging partners & citizen science*

- WQ Volunteer Monitoring
- AQ Low Cost Sensor Network
- WQ Pesticide Stewardship Partnerships

# Data Management

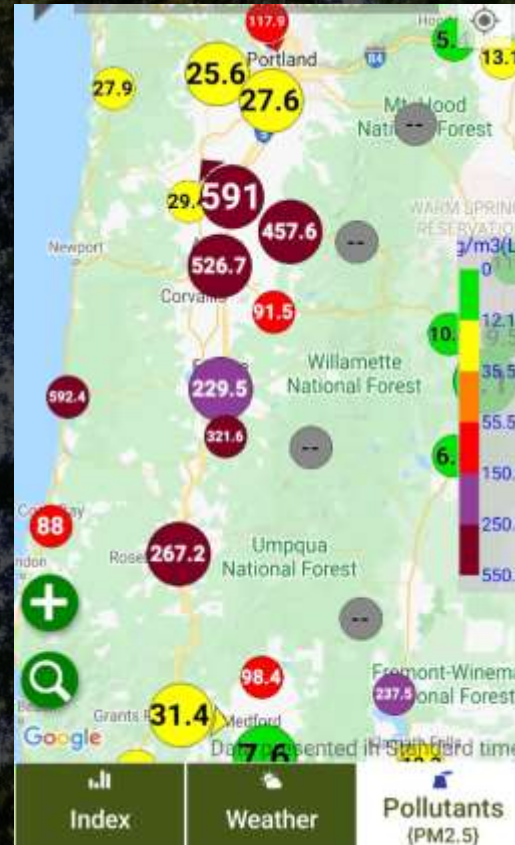
## *Current Status & Future Work*

### ***Water Quality***

- AWQMS – public facing database
  - DEQ collected data
  - OWEB funded volunteer monitoring
  - Integrated Report – Call for data
  - Data exchanged to EPA

### ***Future Work***

- Further collaboration with sister agencies
- Inclusion of regulated community data
  - Expansion of real-time data
  - Public display & reporting



### ***Air Quality***

- Dr. DAS – internal datasytem
  - DEQ collected sensor data
  - Serves data for Air Quality Index online & phone app
- EPA AQS – data uploaded quarterly

# Data Analysis & Reporting

## *Air Quality*

- Air Quality Index
  - Online
  - Phone app
- Air Quality Advisories
  - Wildfire, ozone
  - Partner with OHA, AQ Division
- NATTS Air Toxics Trends
  - Data feeds KPM
- Air Toxics Community Assessments
  - Rotating sites
  - Community, not source, monitoring

## *Water Quality*

- WQ Toxics Monitoring
  - Analysis of presence & prevalence of toxics across Oregon
- Oregon Water Quality Index
  - Data feeds KPMs
  - General status of long term sites
- Well Owner Reports
  - Homeowner data from statewide GW monitoring
- GW Study Area Reports
  - Summary of GW survey areas



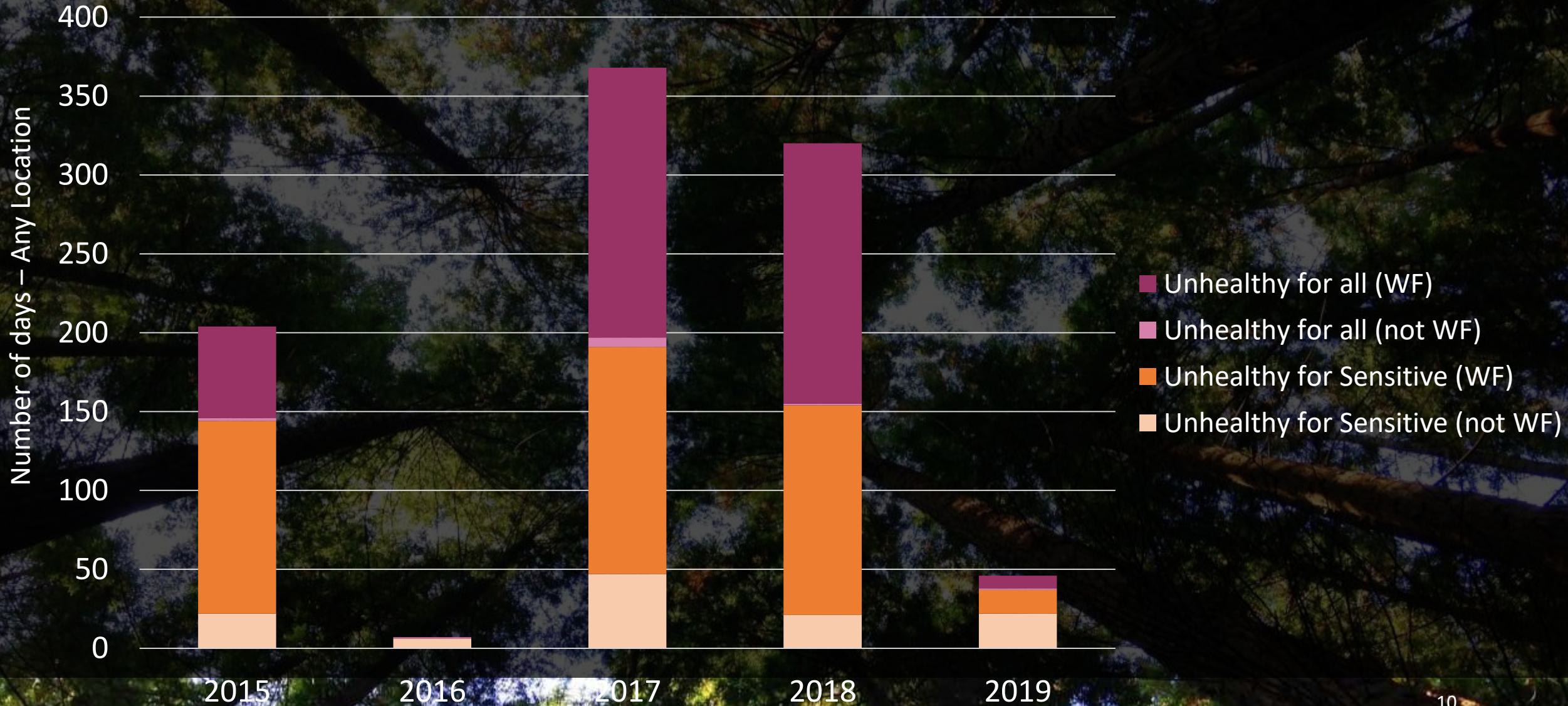


# Clean Air

Ali Mirzakhali

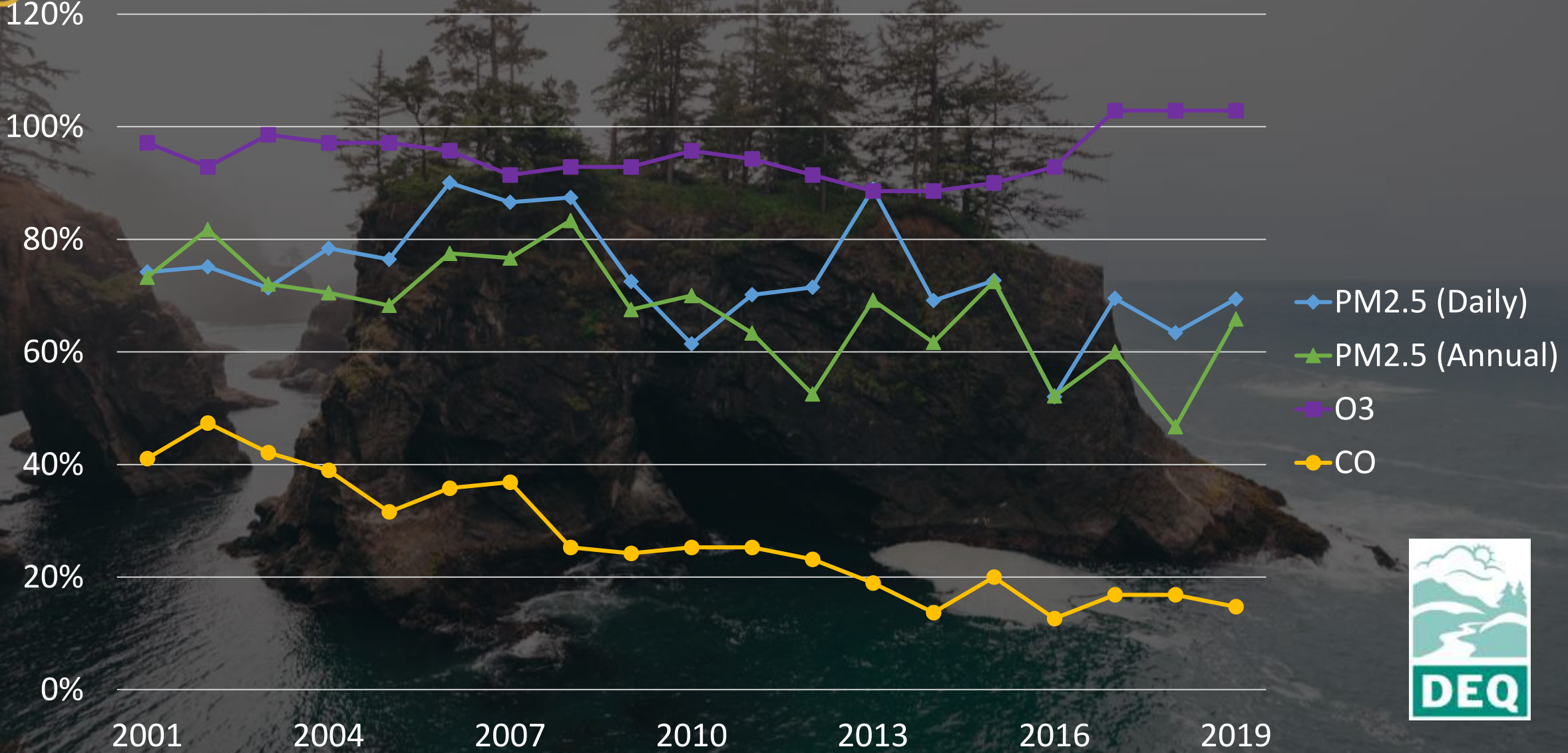


# Statewide Totals, Unhealthy Air Quality Days



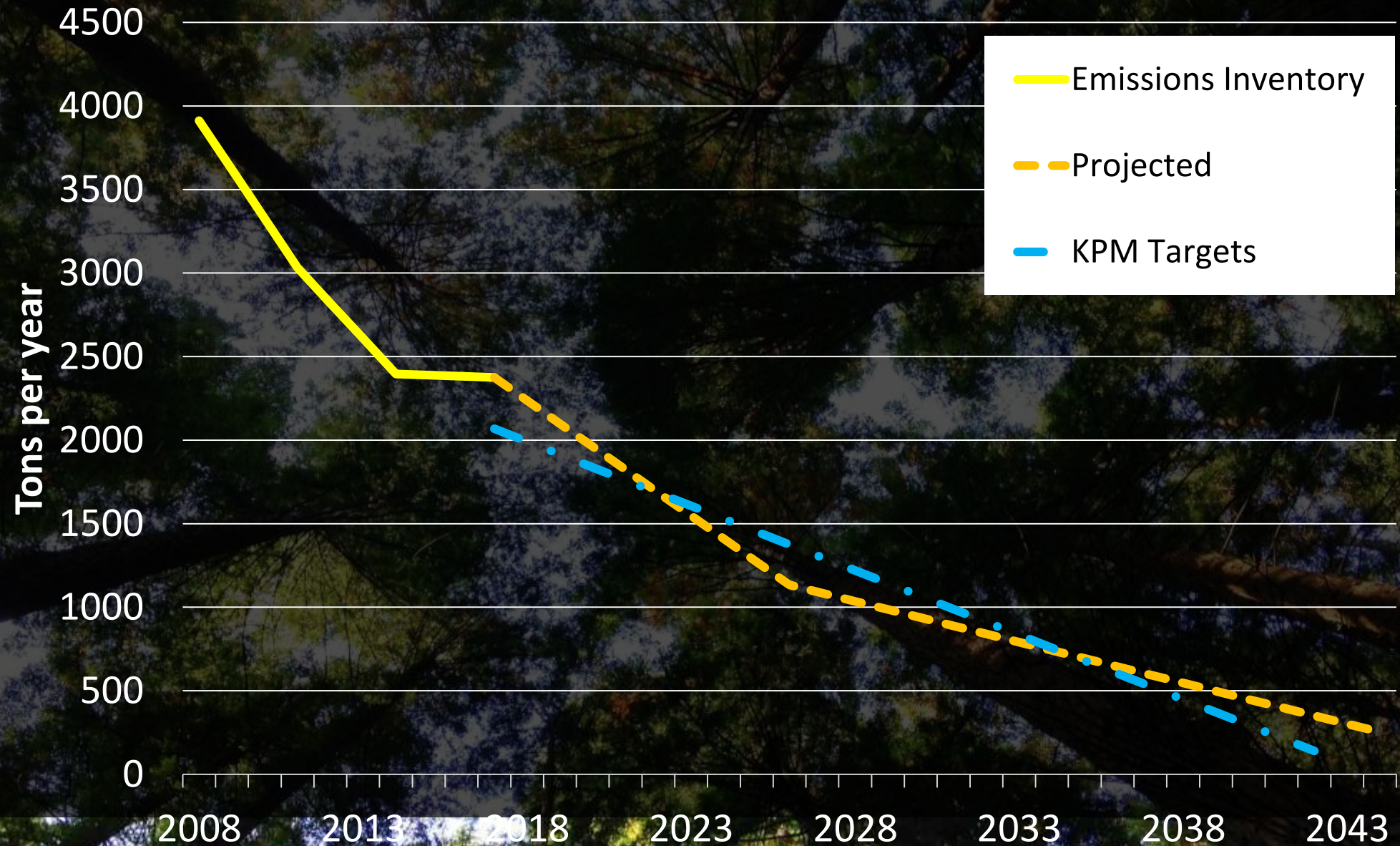


# Trend in Criteria Pollutant Levels as a Percent of the NAAQS (Portland)





# Diesel Fine Particulate Emissions in Oregon



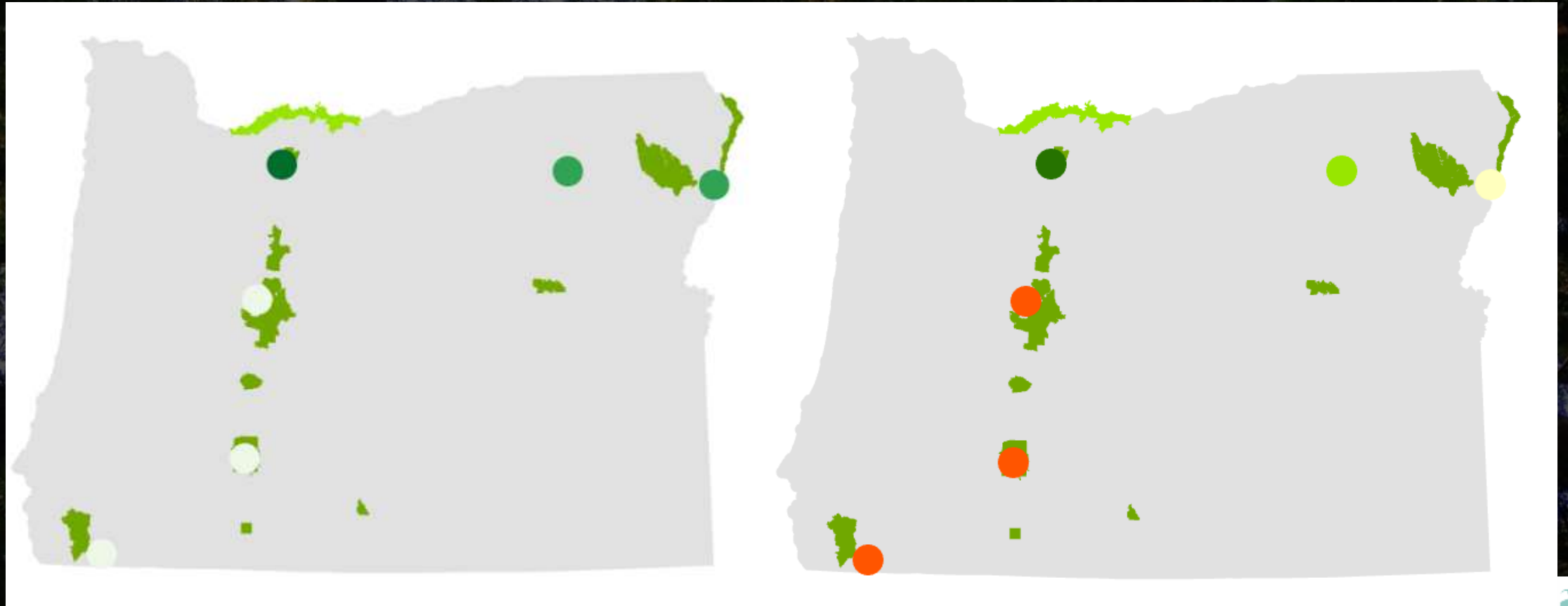


# Regional Haze Trend

20% Most Impaired Days (deciviews)  
Percent Different from Glidepath

2018

2028





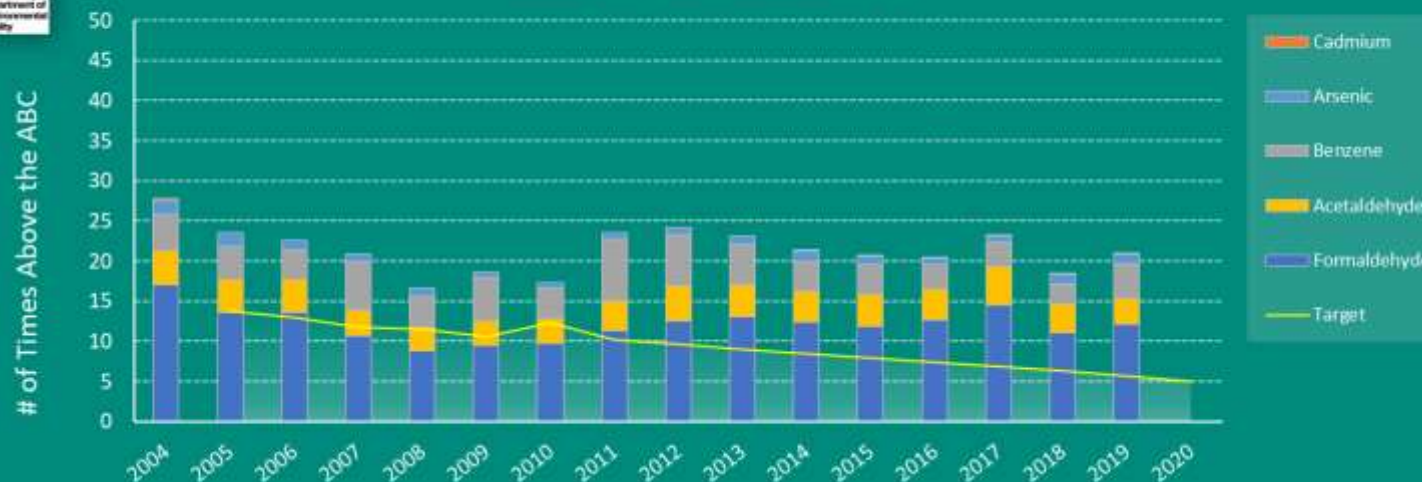
### SITE: **Portland, Oregon** National Air Toxics Trend Site (NATTS)



Updated: September 1, 2020 Author: S. Peerman



### SITE: **La Grande, Oregon** National Air Toxics Trend Site (NATTS)



Updated: September 1, 2020 Author: S. Peerman

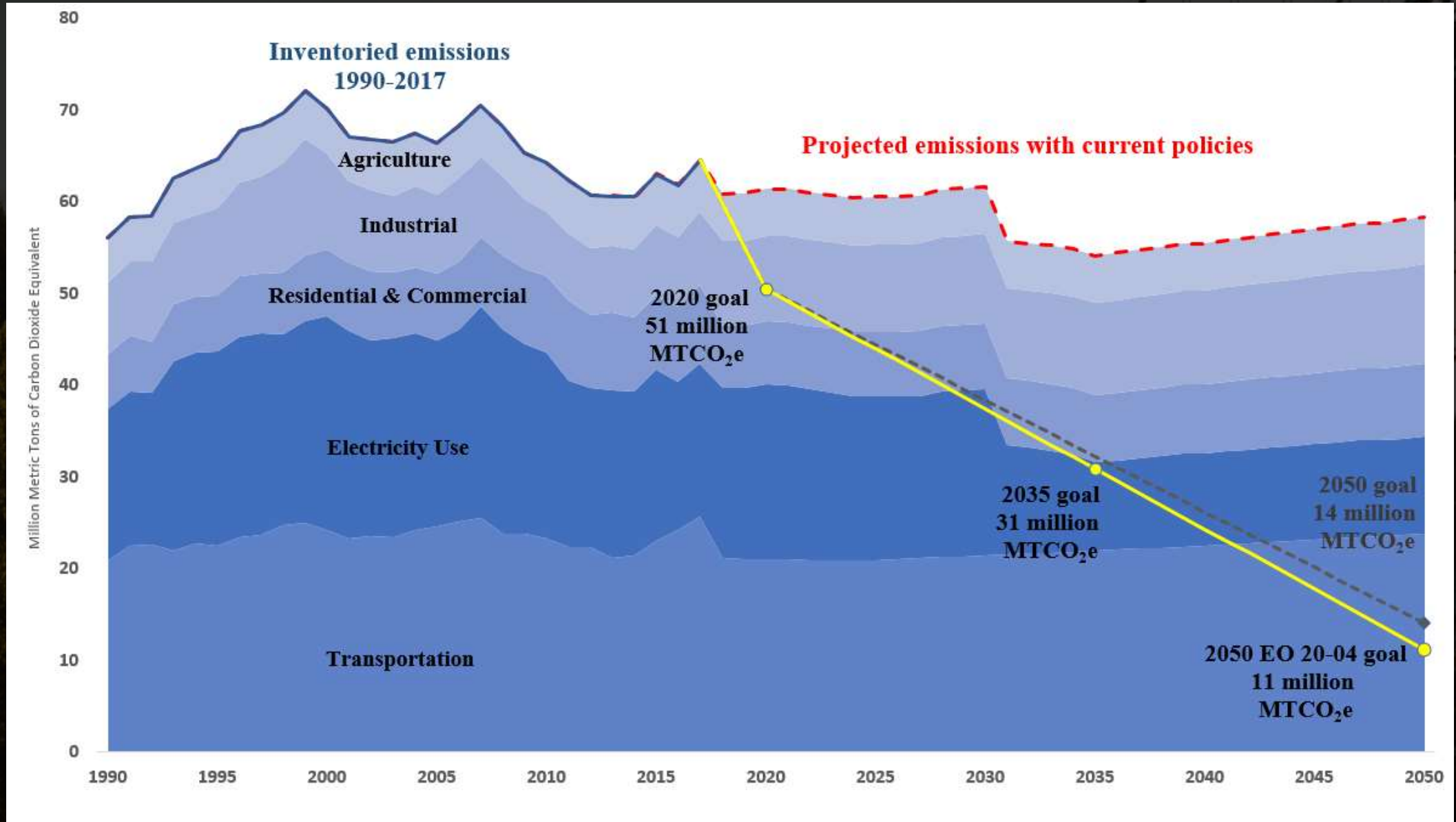


Portland

La Grande



# Sector-based Greenhouse Gas Emissions, Projections and Goals





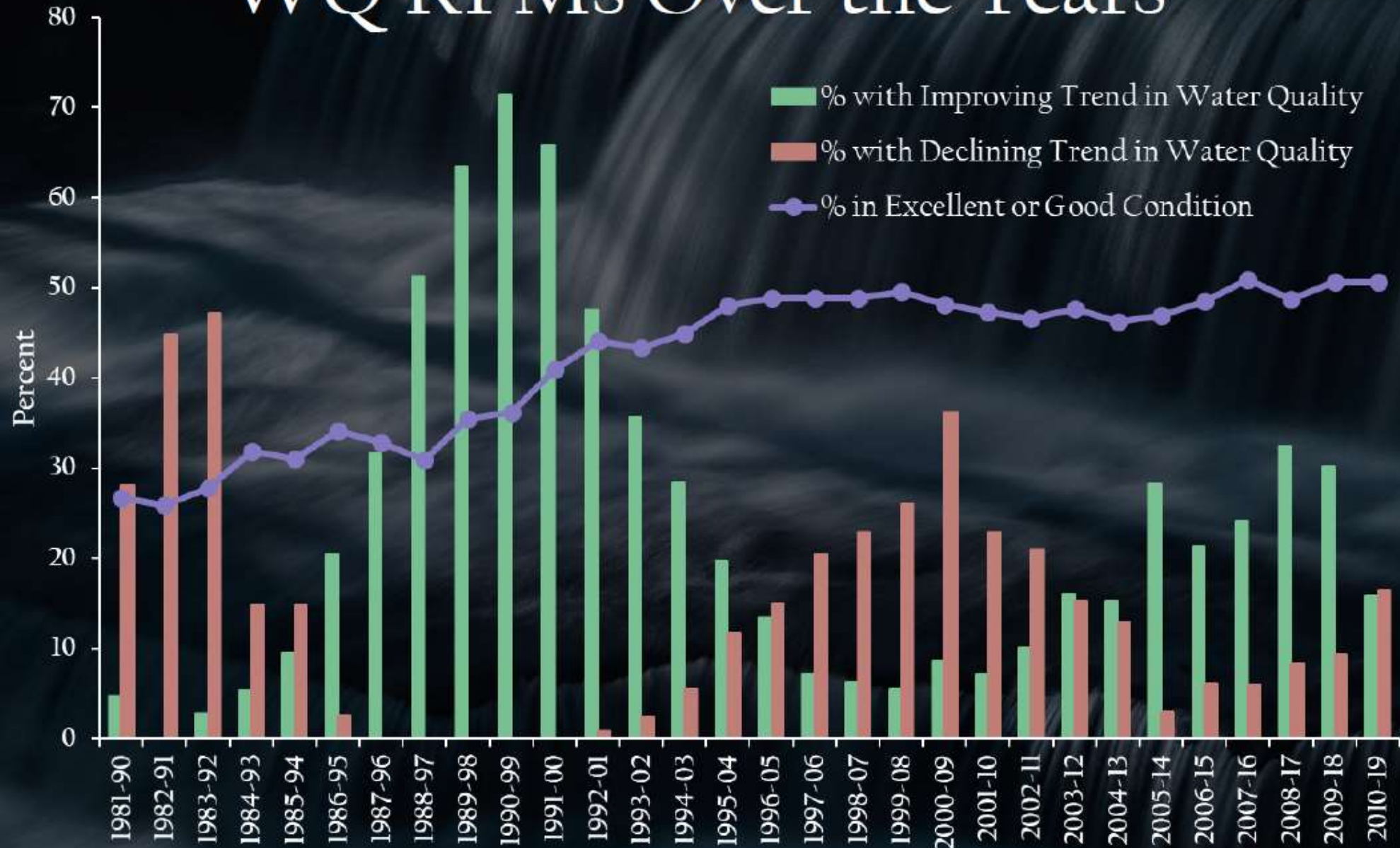
# Clean Water

Jennifer Wigal





# WQ KPMs Over the Years





## Assessment Unit Summary

**Table 8: Summary of assessment unit status across the state.**

<b>Pollutant</b>	<b>Attaining</b>	<b>Not Attaining</b>	<b>Unassessed</b>
Dissolved Oxygen	133	337	903
Enterococcus	0	0	1
Escherichia Coli	157	166	491
pH	334	122	896
Temperature	119	498	848
Total Phosphorus	1	3	1058
Total Suspended Solids	0	2	1077



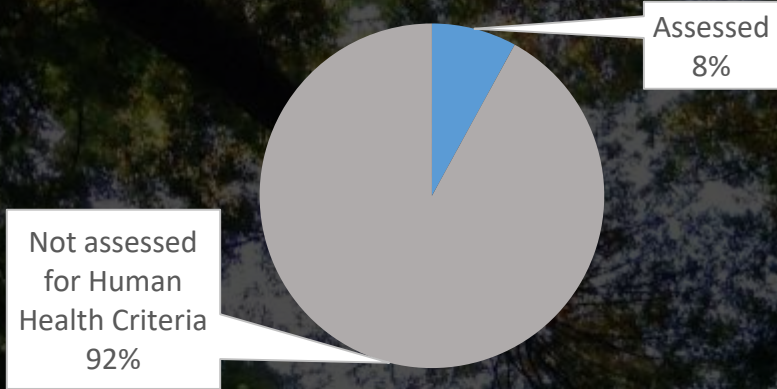
## Water Quality Trends 1999-2018

Table 11: Statewide summary of trends at stations across the state.

<b>Pollutant</b>	<b>Improving</b>	<b>Degrading</b>	<b>Steady</b>	<b>No Significant Trend</b>	<b>Insufficient Data</b>
Dissolved Oxygen	120	60	7	117	3205
Enterococcus	0	0	0	0	1
Escherichia Coli	68	49	5	141	2072
pH	0	153	65	133	3347
Temperature	40	203	4	19	3104
Total Phosphorus	33	15	60	82	1964
Total Suspended Solids	33	31	22	124	2138



Number of AUs Assessed for Human Health Toxics



Number of Assessed AUs Impaired for Human Health Toxics



Number of AUs Assessed for Aquatic Life Toxics

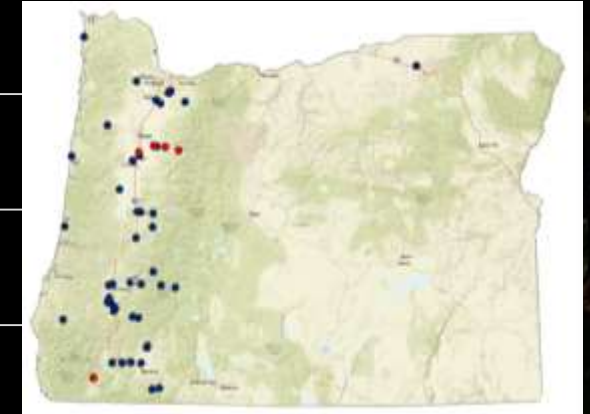


Number of Assessed AUs Impaired for Aquatic Life Toxics





# # of Weeks Facilities Had Cyanotoxins Exceeding Action Level



Ashland Water Department

City of Gates

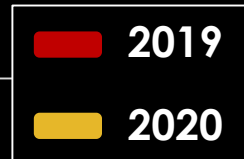
Stayton Water Supply

City of Jefferson

Lyons Mehama Water District

City of Salem

Josephine County Parks – Lake Selmac



week #

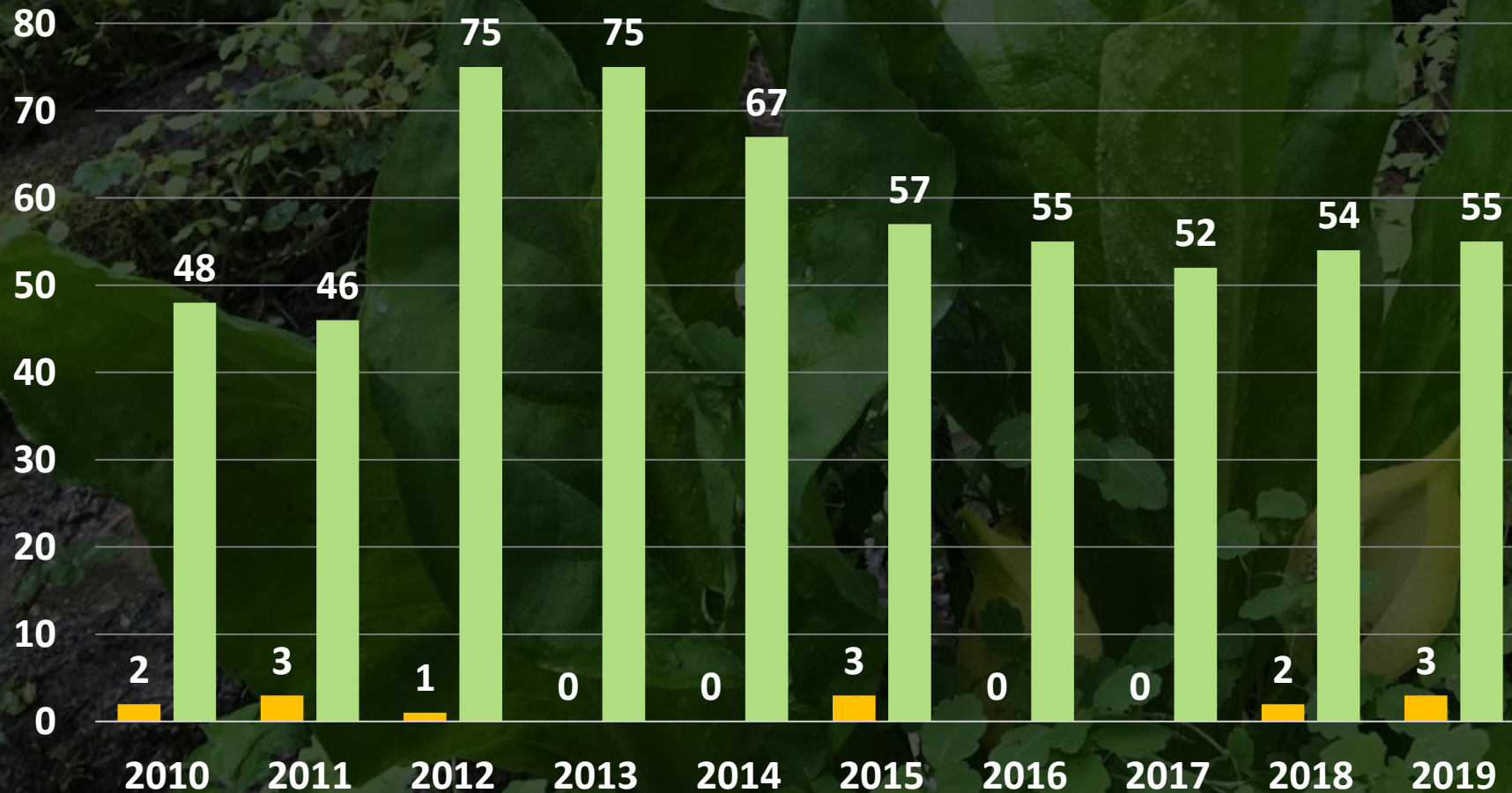


# Safe and Productive Lands, and Sustainable Use of Materials

Abby Boudouris

# Cleanups Completed

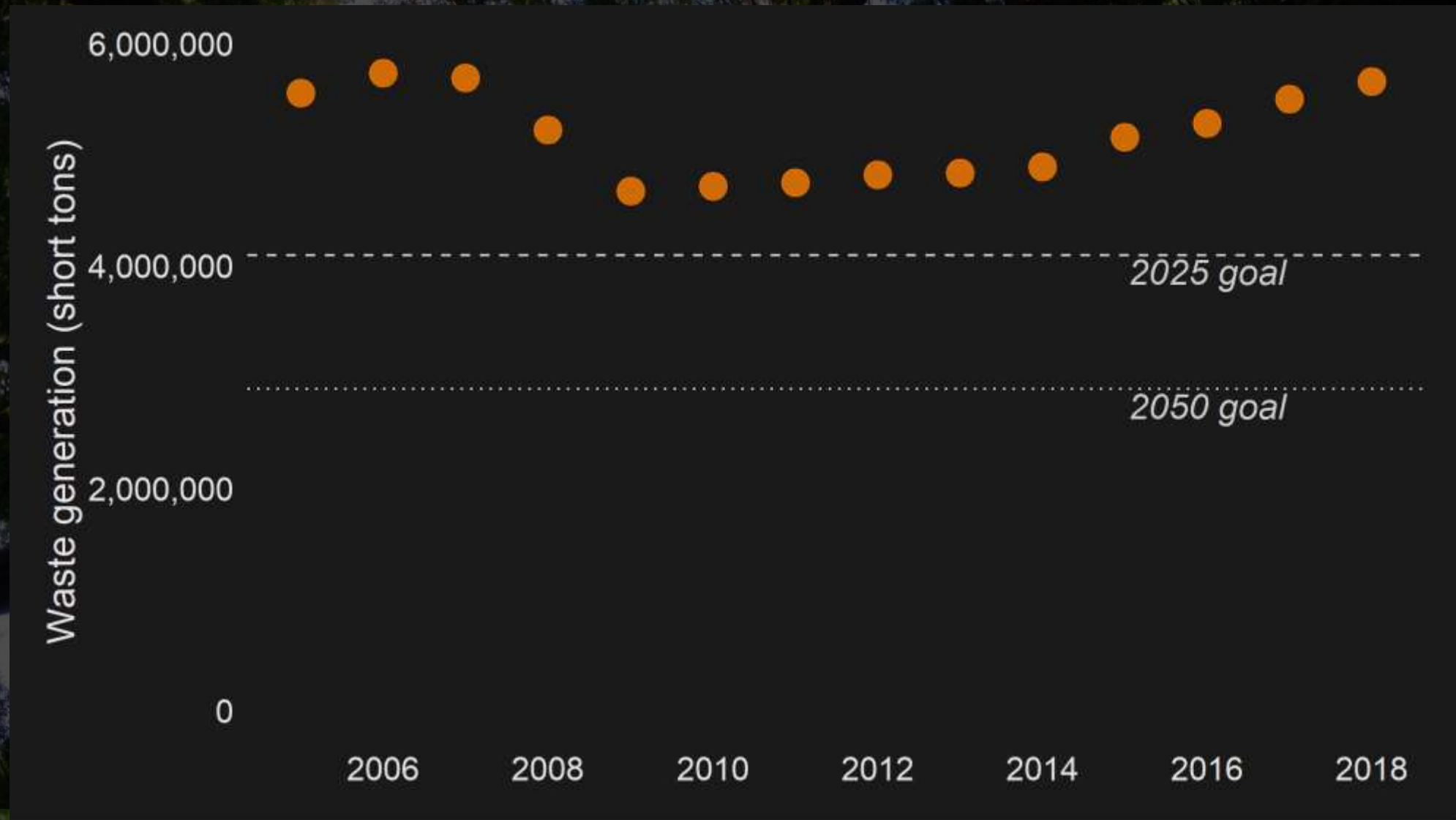
- EPA Grant Funded Cleanups
- Private or state funded cleanups



Since 2007  
**17,553 Acres**  
ready for reuse

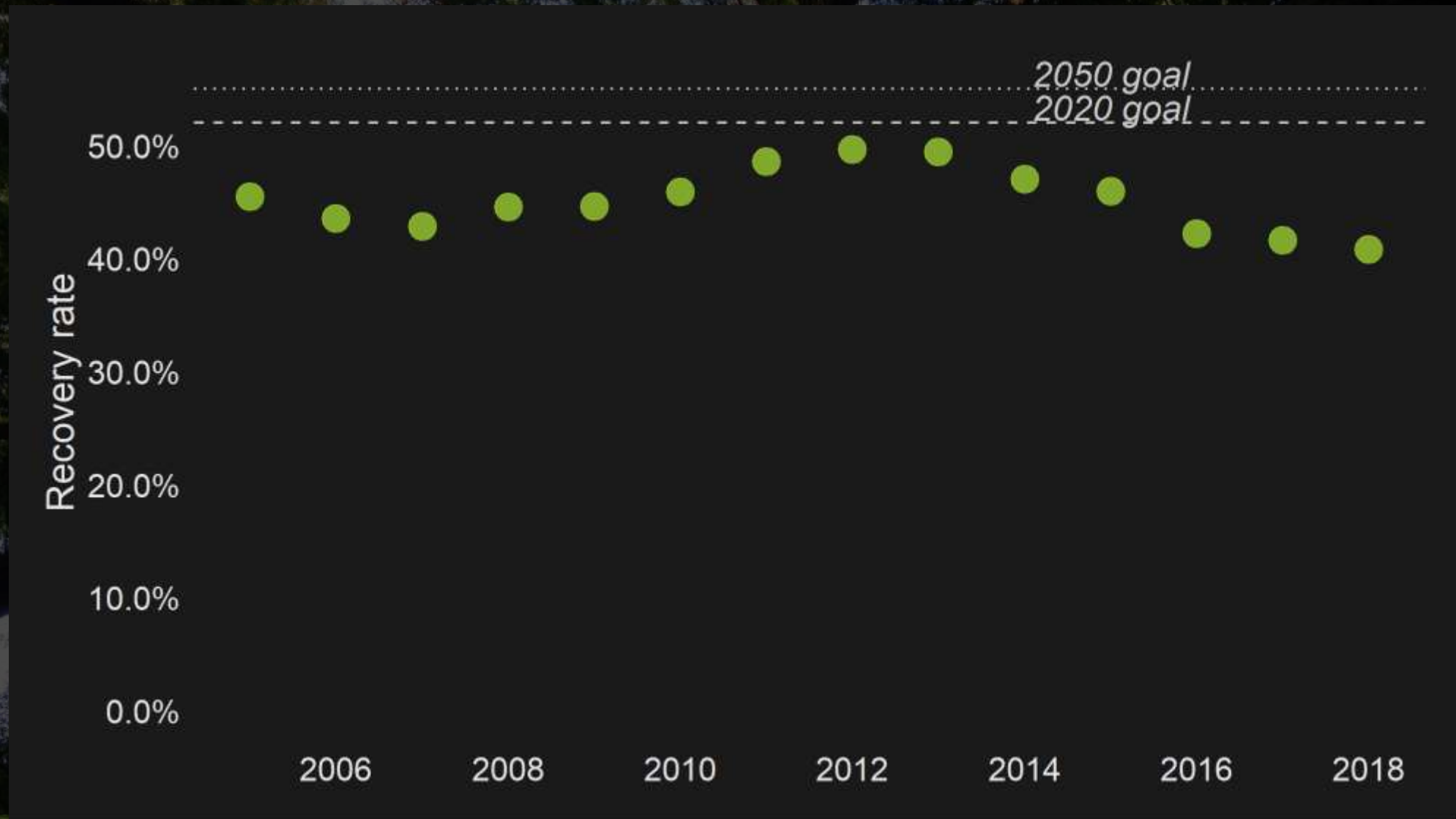
Cleanups  
Active  
**341**

In recent years, generation has tracked economic activity





# Recovery rate has been affected by marketplace changes



# Environmental impacts occur over a whole materials life cycle



# Oregon 2020 State of the Environment

