Water Quality Roles and Responsibilities

Water Quality Division

Joint EQC-BOA Meeting
September 26, 2019
Madras, OR

Preliminary Results Draft 2018/2020 Integrated Report

% assessment units assessed for **dissolved oxygen**

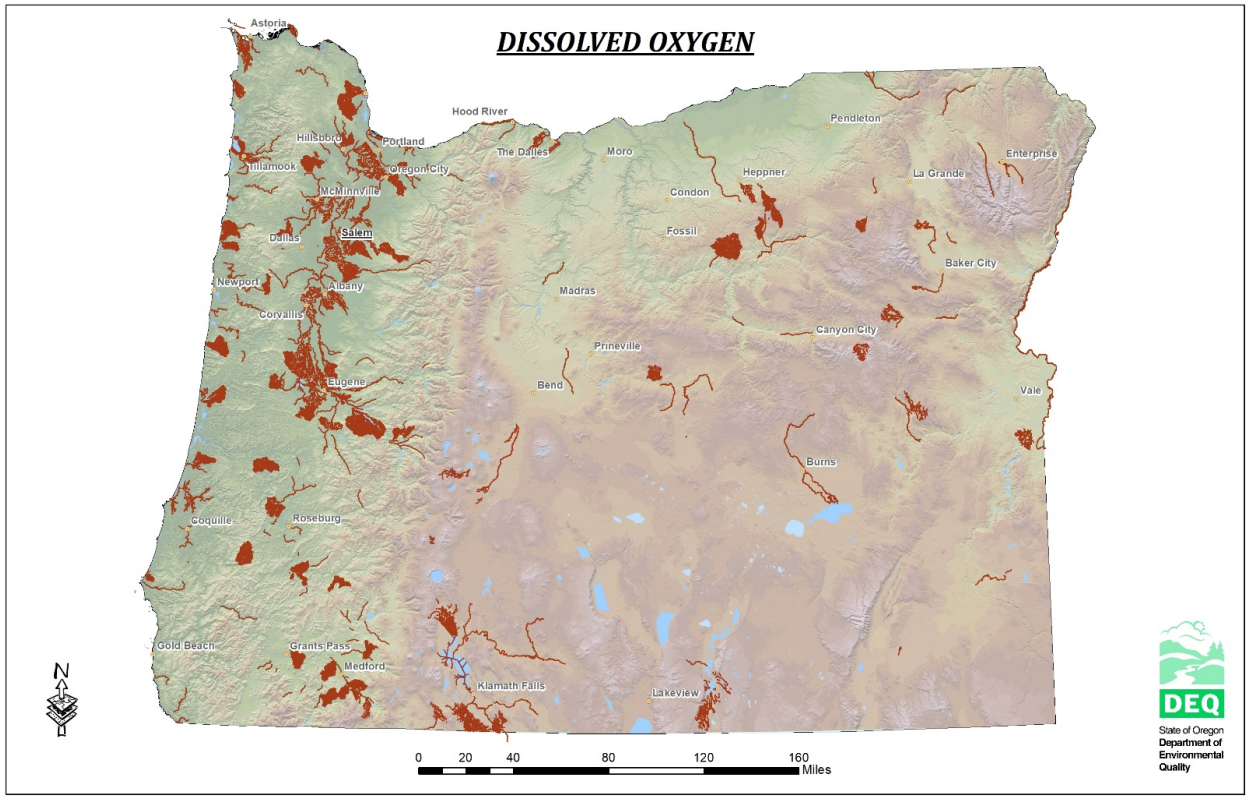
13.4%

% impaired (of assessed units)

45.8%

% assessment units impaired statewide

6.2%



DEQ

Preliminary Results Draft 2018/2020 Integrated Report

% assessment units assessed for **bacteria**

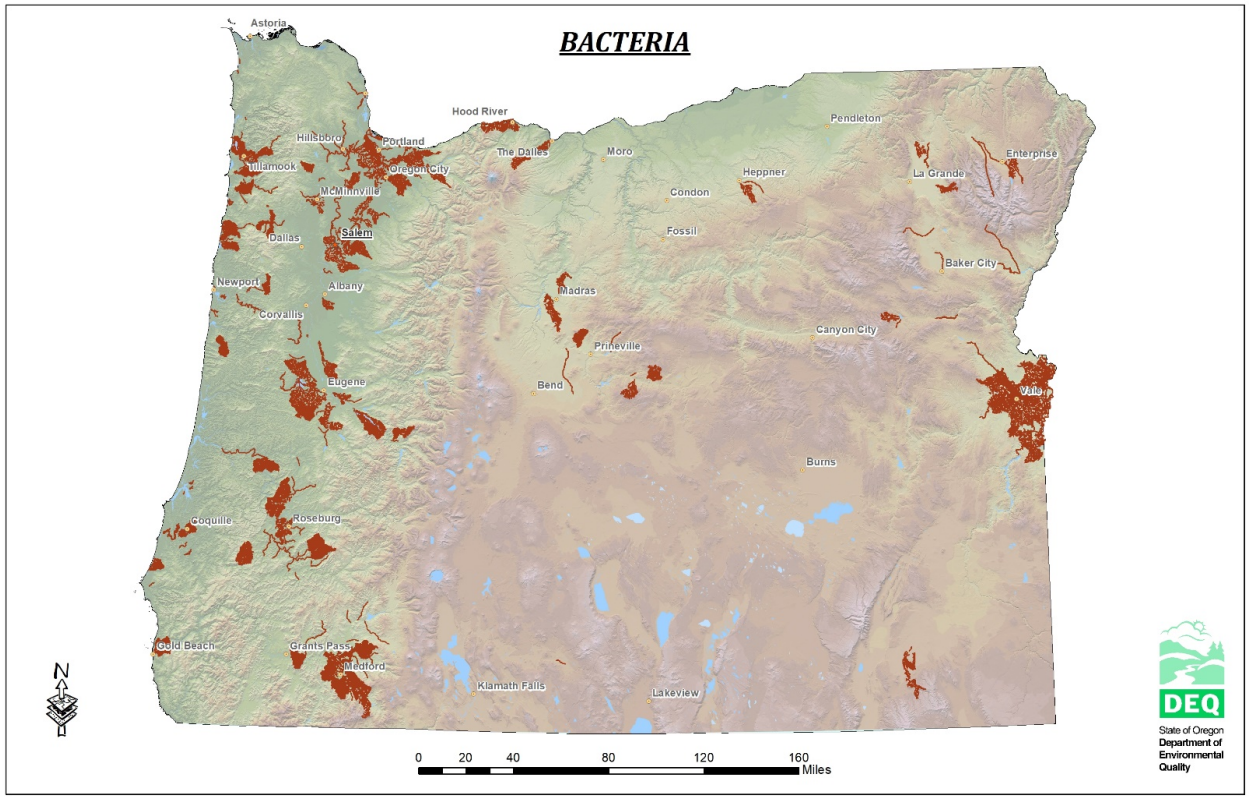
9.7%

% impaired (of assessed units)

40.2%

% assessment units impaired statewide

3.9%



DEQ

Preliminary Results Draft 2018/2020 Integrated Report

% assessment units assessed for **temperature**

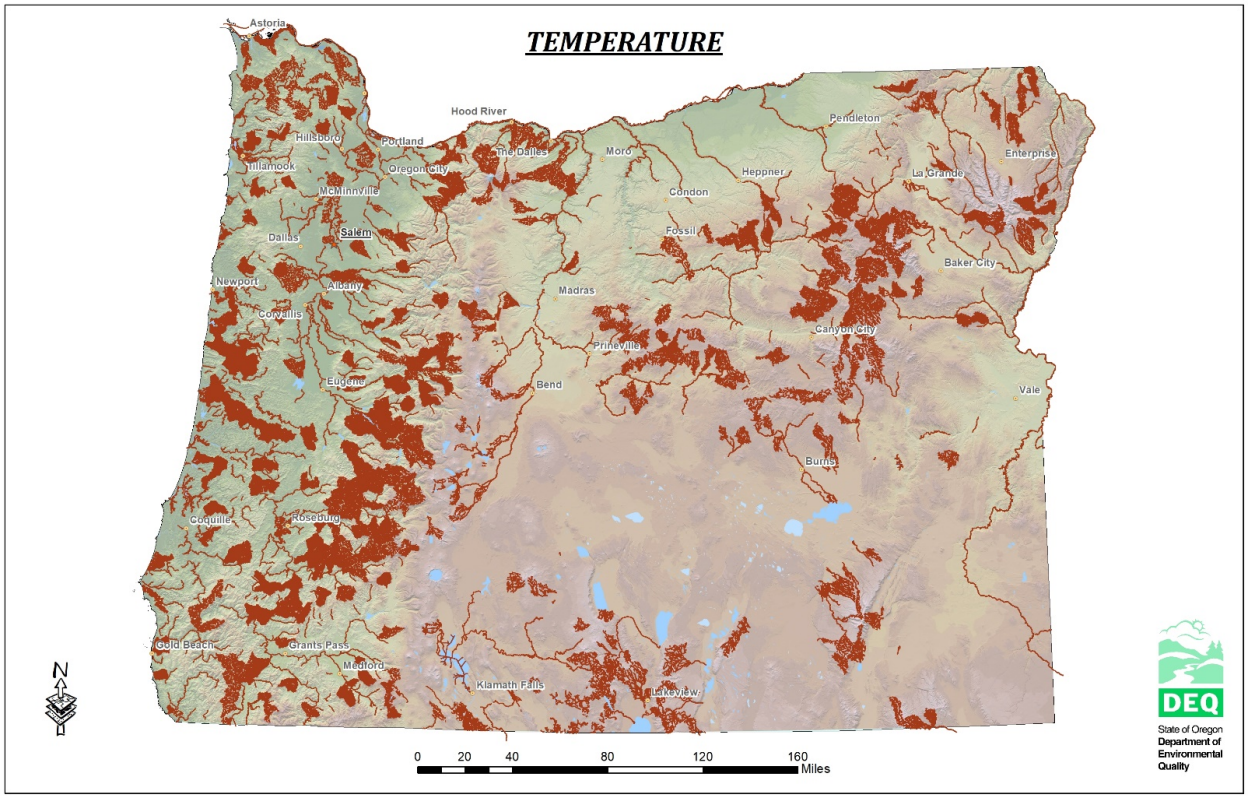
29.3%

% impaired (of assessed units)

89.3%

% assessment units impaired statewide

26.2%



DEQ

Preliminary Results Draft 2018/2020 Integrated Report

% assessment units assessed for **pH**

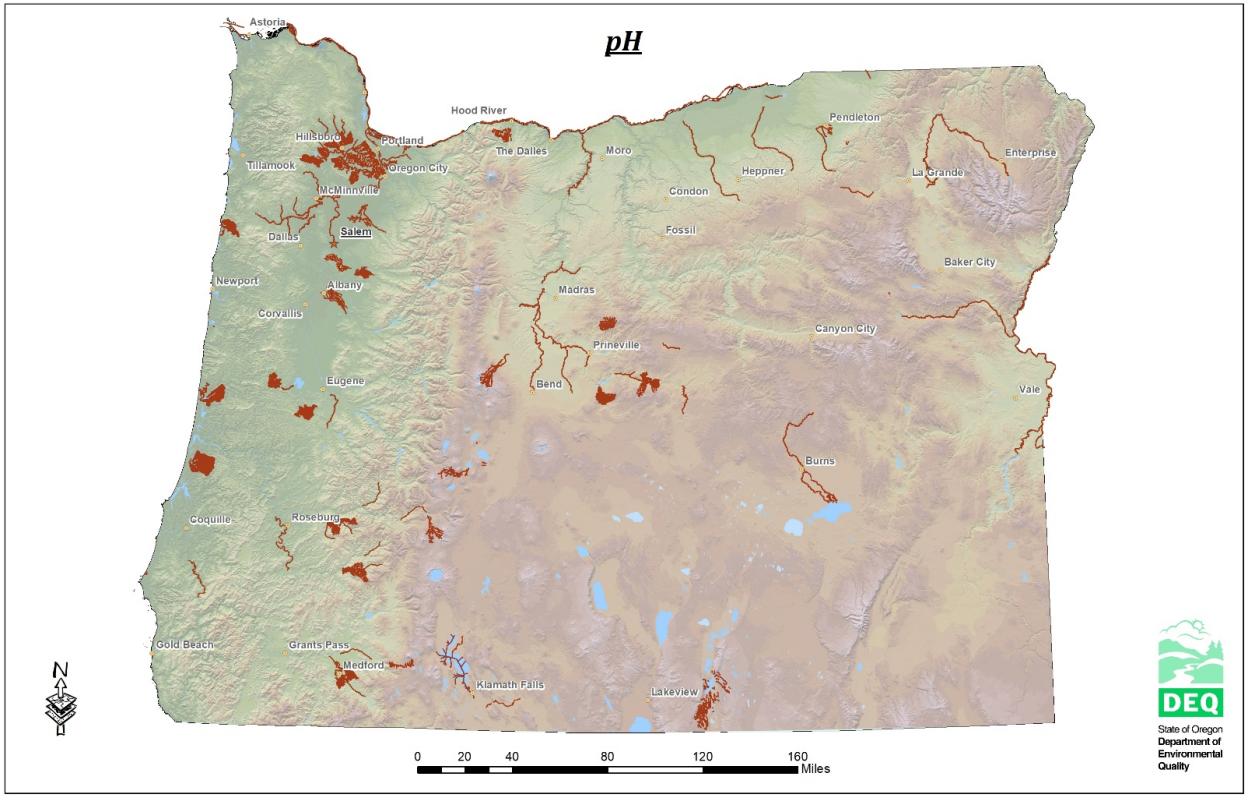
12.1%

% impaired (of assessed units)

10.6%

% assessment units impaired statewide

1.3%



DEQ

Approaches for Recent and Future TMDLs

Klamath and Lost Subbasins Temperature TMDL

Willamette Basin Mercury TMDL

Reasonable Assurance and Accountability Framework that includes:

- TMDL implementation plan submittals, reviews, and approvals
- DMA, responsible person and permittee implementation of management actions
- Instream compliance points for allocations, in conjunction with revisiting the watershed modeling and analysis
- Annual and other increment reporting from DMAs, responsible persons and permittees
- Five year reviews of implementation and evaluation of the TMDL and WQMP

Water Quality Status and Trends Reports

Used to evaluate progress towards meeting WQS and TMDL allocations

One of the tools for Accountability Framework and achieving Reasonable Assurance

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Parameters

- Bacteria
- Dissolved oxygen
- pH
- Temperature
- Total phosphorus
- Total suspended solids

Plan to add parameters in the future such as toxic chemicals, including pesticides

Status

Identifies whether data are “Meeting” / “ Attaining” WQS or TMDL target

Trend

Significant trends defined as “Improving”, “Degrading”, or “Steady” depending on the slope of the trend and its relation to the parameter in question

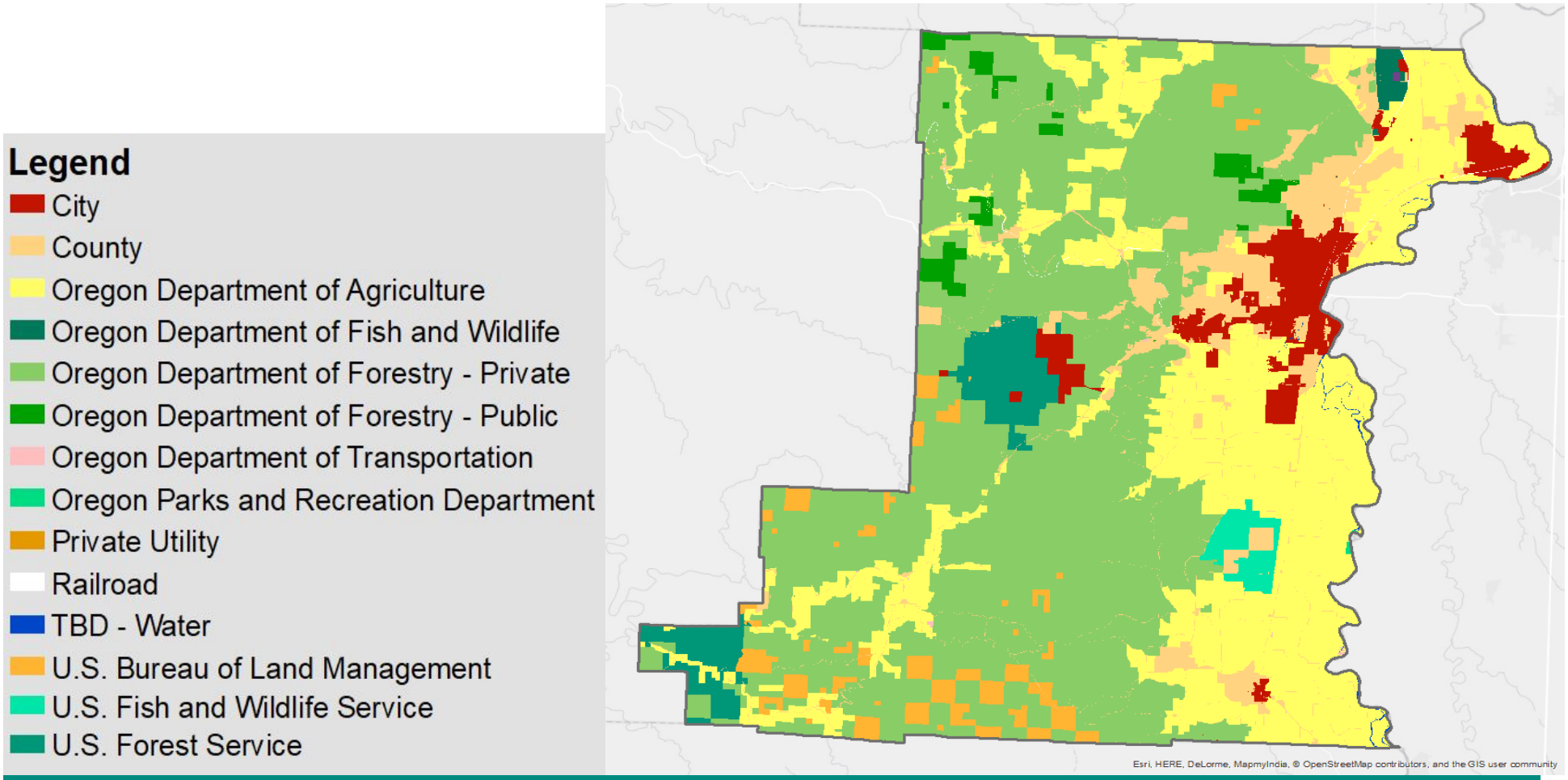
Recent Improvements

- Assessment Unit based results in addition to station based results (Integrated Report)
- Overview of applicable TMDL allocations
- Restoration actions from Oregon Watershed Restoration Inventory (OWRI-OWEB)
- Interactive summary maps

Improvements to be added soon

- Landscape condition status and trends (e.g. Effective Shade)
- DMA geographic responsibility rolled up from tax lot data
- WQS&T reports to be used for evaluating progress for DMAs, not just ODA
- Additional figure summaries of information

DMA Map


Legend
City
County
Oregon Department of Agriculture
Oregon Department of Fish and Wildlife
Oregon Department of Forestry - Private
Oregon Department of Forestry - Public
Oregon Department of Transportation
Oregon Parks and Recreation Department
Private Utility
Railroad
TBD - Water
U.S. Bureau of Land Management
U.S. Fish and Wildlife Service
U.S. Forest Service
Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

Water Quality Status and Trends Reports

DEQ and DMAs will use these reports for:

- Evaluating progress towards meeting water quality standards and TMDL allocations
- Identifying restoration and protection priorities
- Comparison to milestones and timelines in the TMDL

These reports are useful for identifying instream and landscape data gaps to help improve our understanding of water quality

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