

Dam Safety Update



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- Dam Safety Program
- HB 2085 Implementation
- Status of High Hazard Dams
- FEMA High Hazard Potential Dam Grant
- 2020 Legislation
- Questions

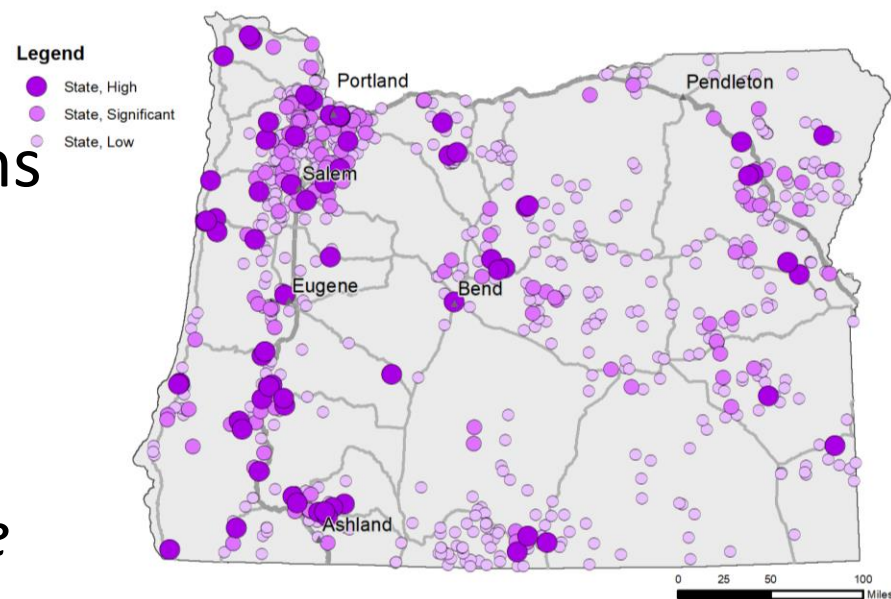


State Regulated Dams

~950 State Regulated Dams

- 76 – High Hazard Dams
- 151 – Significant Hazard Dams
- 728 – Low Hazard Dams

**Hazard rating does not indicate condition*



Modernize Oregon's Dam Safety Statutes

- Provide tools to address maintenance and safety issues, improving the safety of dams to protect people, property, and infrastructure
- Cooperative plan and timeframe (particularly for seismic and floods), informal resolution, formal corrective action, injunction, civil penalty, and maintenance action
- General authorities, dam failure actions, jurisdiction, modification, owner responsibilities, safe removal, etc.
- Operative date July 1, 2020

Division Rulemaking

Implementation of House Bill 2085 (2019)



RAC Meetings:
October – January

*Notice and Public
Comment:*
Early 2020

Adoption:
June 2020

Long-Term Goals

- Identify safety issues of dams
 - Inspections
 - Assessments
 - Analysis
- Address safety issues of dams
 - Prioritizing repair
 - Population at risk
 - Severity of issue
 - Interim measures that can reduce the risk
 - Funding for repair

Condition of High Hazard Dams

Poor Condition - 13

- BARNES BUTTE
- BEAR CREEK
- DUGGAN
- JUBILEE LAKE
- LONESOME LAKE
- MORGAN LAKE
- OSBORNE CREEK
- PONY CREEK - LOWER
- POLE CREEK
- WAGEMAN
- WALCH DAM
- WALLOWA LAKE
- WINCHESTER

Unsatisfactory - 7

- CROWLEY
- BIG CREEK #1 (LOWER)
- BIG CREEK #2 (UPPER)
- FERRY CREEK
- MCMULLEN CREEK
- WOODRAT KNOB
- WILLOW CREEK 3 (MALHEUR)

Condition Rating

- Condition ratings are mostly determined based on visual inspection
- Historically, partial risk assessments done as resources are available
 - Floods, earthquakes, internal erosion, landslides, structural deterioration, and debris blockages
 - 76 high hazard dams and 151 significant hazard dams – all need full or partial risk assessments done
 - Help to prioritize dams for more detailed analysis, and addressing issues

FEMA Grant

FEMA High-Hazard Potential Dam Grant - \$260k

- Position dams to qualify for future funding
- Statewide Hazard Mitigation Plan Update
- Risk assessment protocol for Oregon specific risks
- Risk assessments for 16 high hazard rated dams - flood, earthquake, internal erosion, landslide, deterioration
- Population at risk and likely economic losses
- Two Floodplain Management Plans

Requesting \$2,000,000:

- Safety assessments to determine dam specific seismic, flood overtopping, and other safety risks; seismic analysis
- Development of methods to determine extreme flood event size
- Dam Safety Task Force:
 - Prioritize dams for repair and addressing other safety issues
 - Funding mechanism for addressing dam safety issues

Questions?



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