



Enloe Dam flowing at 2,660 cubic feet per second

New Downstream Inundation Mapping Tool

The Department of Ecology Dam Safety Office (DSO) is now using a dam breach analysis software called DSS-Wise Lite. DSS-Wise Lite is a web-based, dam-break flood modeling and mapping system. We are using DSS-Wise Lite to find downstream hazards and produce inundation maps for Washington State's High and Significant hazard dams.

The figure below is an example of an inundation map created by DSS-Wise. It shows where the water from the dam breach would go and what might be impacted. This image can serve as the inundation map in a dam's Emergency Action Plan. More info can be found online.

<https://dsswiseweb.ncche.olemiss.edu/>

If any dam owners would like an inundation map for their dam produced at no cost to them, or would like to learn more about the software, contact the DSS-Wise Lite Washington State Manager, Madison Lyon at 360-407-6078 or at madison.lyon@ecy.wa.gov.



Inundated area (shown in blue) from a modelled dam breach (dam shown in red) in Pierce County, WA.

New Dam Owner Annual Inspection Forms

All dam owners are required to perform an annual inspection of their dam and submit a copy of the inspection report within 30 days to the DSO. You can use your own inspection form or use one of the DSO forms. We recently updated the DSO earthen dam form and created a new concrete dam form. The forms can be found on our website. <https://ecology.wa.gov/Water-Shorelines/Water-supply/Dams/Construction-maintenance/Inspections>

FEMA Grant Program for Dams

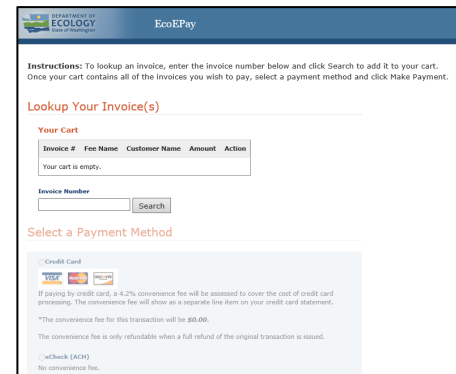
The Federal Emergency Management Agency (FEMA) developed a new grant program in 2019. This program will provide rehabilitation funds to non-federal, high hazard dams that are in poor condition. The grant will help dam owners conduct project planning, undertake engineer studies and develop repair designs.

This year, we applied for \$344,500 in grants for three dams. The dam owners must provide a 35% match. We have yet to hear whether we will get the funds. If the grant program is offered next year, we will contact owners of high hazard dams in poor condition to see if they are interested in applying. More information can be found on FEMA’s website <https://www.fema.gov/rehabilitation-high-hazard-potential-dam-grant-program> or by contacting Washington’s Dam Safety Manager Joe Witczak at 360-407-6603 or joe.witczak@ecy.wa.gov.

Don’t Forget—You Can Pay Online

To provide you with additional payment options, we accept online payments for annual inspection fees. Log in to our EcoPay system at <https://fortress.wa.gov/ecy/ecoepay/> and follow the prompts. For assistance, call (360) 407-6066.

- Our secure online payment system meets all e-commerce standards and best practices.
- Payments made with a credit or debit card will be charged an additional 4.2 % fee.
- There are **no** additional fees for payments made using an electronic check or direct account withdrawal.
- You are still welcome to pay by check or money order.



Resources for Dam Owners and Operators

ASDSO - The Association of State Dam Safety Officials is a national non-profit group that has educational information for owners and operators. <https://damsafety.org/dam-owners>

FEMA – The FEMA National Dam Safety Program provides helpful publications and training information. <https://www.fema.gov/national-dam-safety-program>

New Dam Staff – DSO recently hired Ms. Jodi Goodman to assist dam owners maintain compliance with dam safety regulations. Contact her at 360-407-6613 or jodi.goodman@ecy.wa.gov.

General DSO Contact
Charlotte Lattimore
(360) 407-6066
charlotte.lattimore@ecy.wa.gov

DSO website
[Ecology.wa.gov/Water-Shorelines/
Water-supply/Dams](http://Ecology.wa.gov/Water-Shorelines/Water-supply/Dams)

ADA accommodations
To request ADA accommodation including materials in a format for the visually impaired, call Ecology at 360-407-6831 or visit ecology.wa.gov/accessibility. People with impaired hearing may call Washington Relay Service at 711. People with speech disability may call TTY at 877-833-6341.