

Outline of Presentation

- Flood Inundation Mapping (FIM)
- USGS FIM webpage
- Application in Johnson Creek





Disclaimer

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What is Flood Inundation Mapping?

Hydraulic model

1

Hydrology data

Library of flood inundation maps



National
Weather
Service River
Forecast Center
Predictions +
USGS real-time
data

53188.9

USGS FIMWebpage

52285.7



FIM Uses

- Can be used by emergency responders to predict severity of flooding at specific locations (roads and buildings)
- Tool for constructing notification or evacuation plans
- Visual approximation of flooding extent
- Communication tool
- Disaster assistance
- Environmental and Ecological Assessments wetlands identification, hazardous spill cleanup



FIM Tour

- http://water.usgs.gov/osw/flood_inundation/
- (or use search engine for "USGS flood inundation")





Largest Floods

Johnson Creek at Sycamore, OR Station 14211500 Top 10 floods from Water Year 1941-2016:

sorted by streamflow			
Date	Water Year	Streamflow (cfs)	Stream level (ft)
December 22, 1964	1965	2620	14.68
November 19, 1996	1997	2550	15.30
January 2, 2009	2009	2430	14.69
February 7, 1996	1996	2350	14.28
December 13, 1977	1978	2250	13.89
January 7, 1969	1969	2220	12.29
January 12, 1980	1980	2210	14.03
November 24, 1960	1961	2180	13.78
February 10, 1949	1949	2110	13.77

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