

The background image shows a wide, calm body of water, likely a reservoir or a flooded area, with a dam visible on the left side. The far bank is covered in a dense forest of bare trees, suggesting a late autumn or winter setting. The sky is overcast and grey. The image is framed by a green header at the top and a blue footer at the bottom.

1996-2022 FLOOD COMPARISONS

Presented by J. Vander Stoep

Chehalis Basin Board

February 3, 2022

Chehalis River Basin Inundation Map - 1996



Centralia public works Flood Evaluation

This is a list of properties not affected if an upstream dam would have been constructed based on a 1996 flood event. Utilizing the 2022 flood.

- Washington Elementary school
- Jefferson Lincoln Elementary school
- Fairway shopping center area (Salzer able to release water to Chehalis)
- Kresky/Gold streets commercial area (Salzer able to release water to Chehalis)
- Fairgrounds (Salzer able to release water to Chehalis)
- Tree Streets neighborhood (Chehalis river water didn't follow railroad tracks)
- Long Road neighborhood – future commercial (Chehalis river water didn't follow railroad tracks)
- South/Woodland Streets neighborhood (Chehalis river water didn't follow railroad tracks or top Long road levee)
- Mellen Street commercial area (Chehalis river water low enough to allow China Creek to release into it)
- Mellen Street police training facility
- Borst Park – Chehalis river water didn't go as high in Borst Park resulting in damaging ballfields
- Oakview neighborhood – west of Borst Park
- Centralia High School - no water (hit in 2007)

- Emil Pierson, Centralia Community Development Director (01/12/22)



Flood Flow Peaks in Cubic Feet per Second (CFS)

1996 - 2022

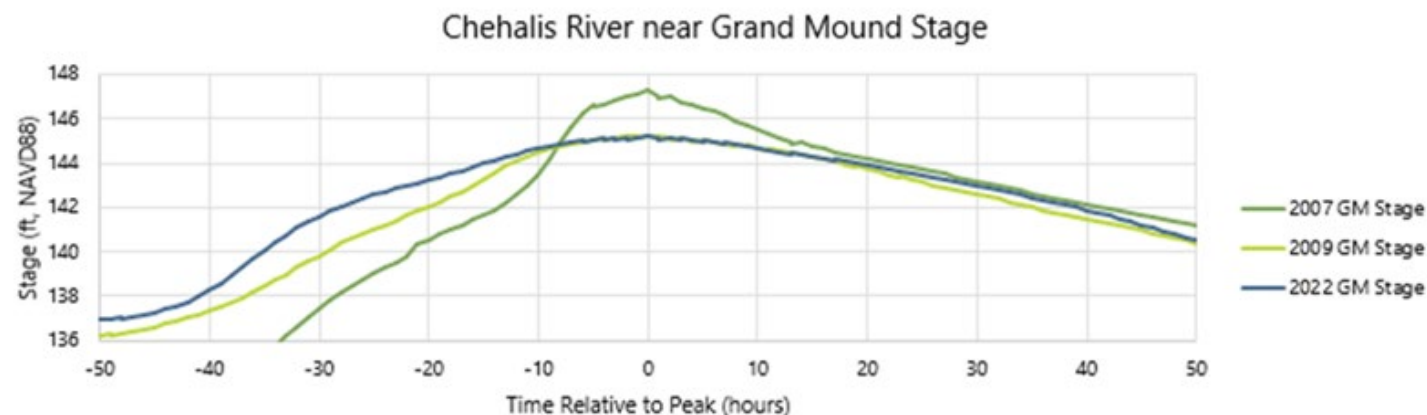
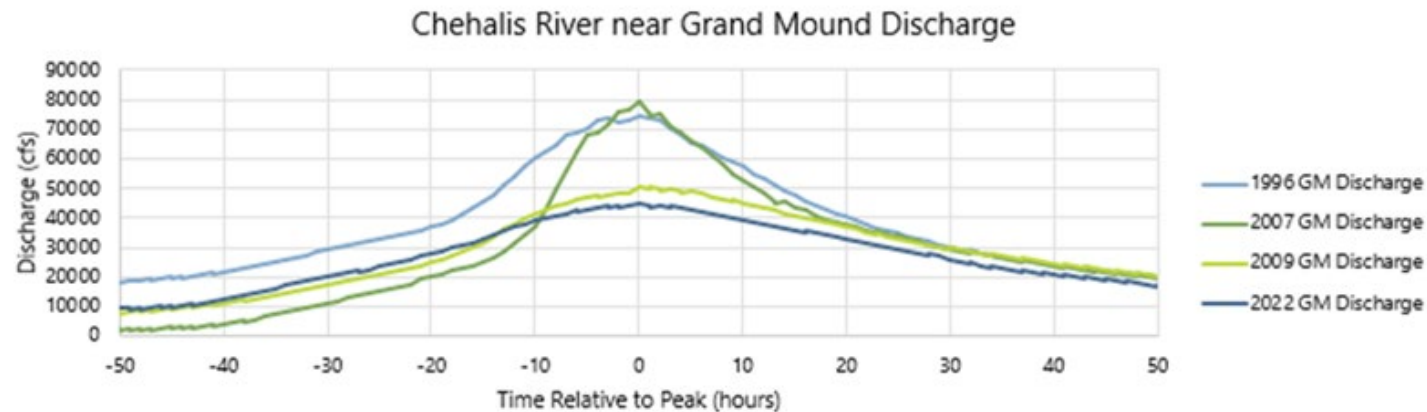
| | |
|-----------------|----------------------|
| Upper Chehalis= | 49 - 35 cfs (29)* |
| Newaukum= | 13 - 14 |
| Skookumchuck= | 11 - 11 |
| Grand Mound= | 75 - 45 |

*peak flow in the main stem in 1996

Flood Flow Peaks - CFS to Gallons

20,000 CF per Second = 150,000 gallons
x 1 minute x 1 hour x 24 hours = 1 day
= 12.9 billion gallons of water per day
65,000 acre feet = 21.2 billion gallons

USGS Gage Chehalis River Near Grand Mound



USGS Gage Chehalis River Near Porter

