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Subject: Drought as the Climate Changes

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November 10, 2021



NATIONAL INTEGRATED DROUGHT INFORMATION SYSTEM

— *Dry Times* —

Drought as the Climate Changes

NIDIS-Funded Study Shows That Climate Change is the Main Driver of Increasing Fire Weather in the Western U.S.

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Potential Flooding on the Nooksack

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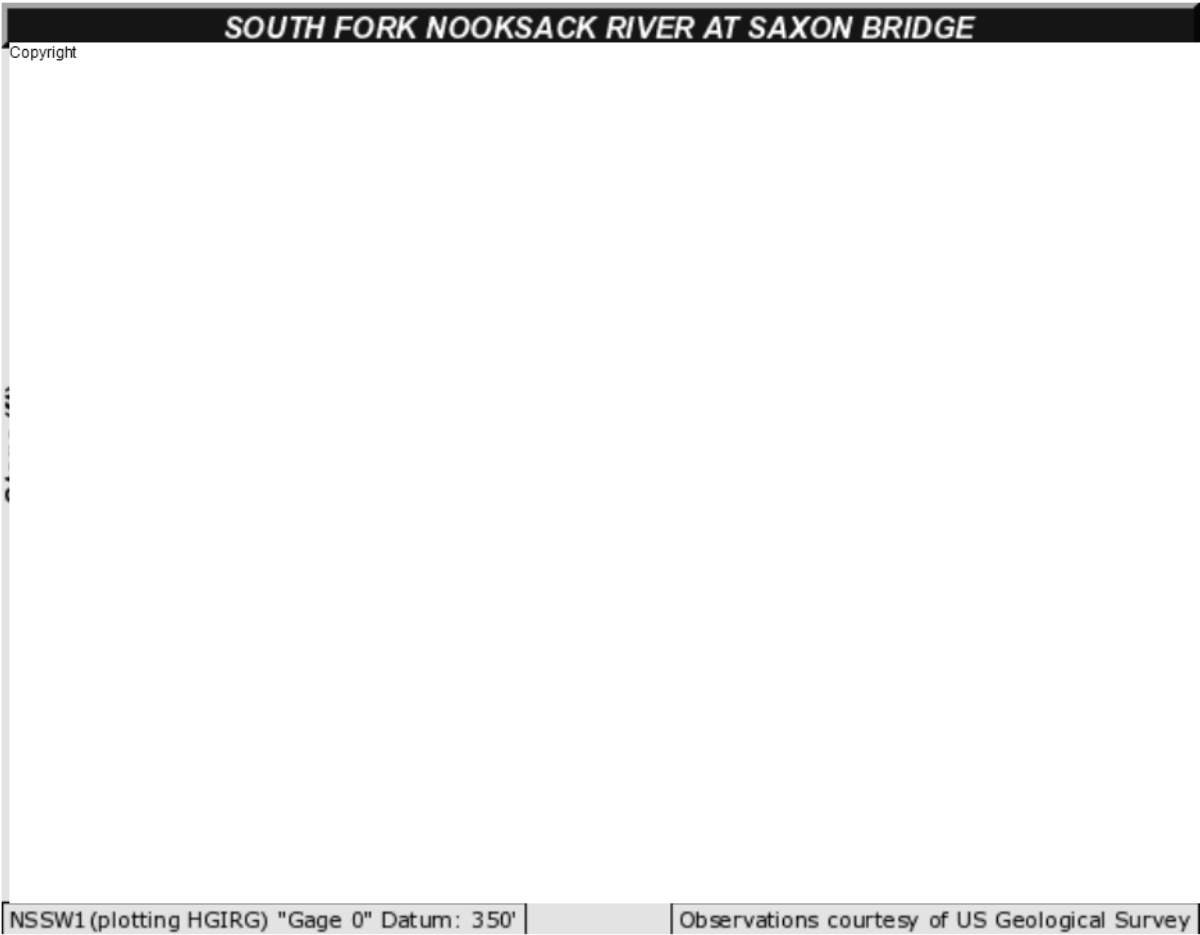
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We are monitoring an atmospheric river predicted to affect our region Thursday through Saturday. River levels are anticipated to peak Friday then recede through Saturday with all three river gauges approaching minor flood elevations.

The current system is expected to bring freezing levels to approximately 8,000 to 9,000 feet. We currently have low snowpack conditions which are vulnerable when hit by warm storm events like this.

As such, we require all sector staff to have their county issued cell phones charged and ready if things ramp up. We are not anticipating a sector watch at this time but want to make sure staff is aware. I will be following up tomorrow as this storm system arrives.

Current forecast have a second storm arriving on Sunday bringing more precipitation to the region through the middle of next week. We will keep you updated.



NOOKSACK RIVER AT NORTH CEDARVILLE

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NRKW1 (plotting HGIRG) "Gage 0" Datum: 0'

Observations courtesy of US Geological Survey

NOOKSACK RIVER AT FERNDALE

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NKSW1 (plotting HGIRG) "Gage 0" Datum: 4.61'

Observations courtesy of US Geological Survey

Best Regards,



Daniel Goger P.E.

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SOUTH FORK NOOKSACK RIVER AT SAXON BRIDGE

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NSSW1 (plotting HGIRG) "Gage 0" Datum: 350'

Observations courtesy of US Geological Survey

NOOKSACK RIVER AT FERNDALE

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NKSW1 (plotting HGIRG) "Gage 0" Datum: 4.61'

Observations courtesy of US Geological Survey

RE: Update - Potential Flooding on the Nooksack

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Flood Forecast Update – 11/12/2021

We are monitoring a strong weather system forecasted to arrive Saturday night/Sunday morning which has the potential to cause significant flooding in our region. Current river predictions have flood elevations increasing significantly Sunday afternoon with flood waters peaking between Monday afternoon through Tuesday morning.

This current system has the potential to cause significant flood impacts including closures of major roadways (Marine Drive, Slater, Hannegan, etc....), overflows at Main Street Everson and inundation at Marietta.

There is a high possibility of sector watches starting as early as **Sunday Afternoon** or **Monday morning**. We are requesting that all Sector staff start making plans accordingly. Sector supervisors will meet tomorrow to discuss sector responses and will be following up with you tomorrow afternoon via email and cell phone. As such, please check your county email and keep your county issued cell phones on you and charged.

SOUTH FORK NOOKSACK RIVER AT SAXON BRIDGE

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NOOKSACK RIVER AT NORTH CEDARVILLE

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| NKS1 (plotting HGIRG) "Gage 0" Datum: 4.61' | | Observations courtesy of US Geological Survey |

We will keep you updated as things progress.

Best Regard,



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Subject: Potential Flooding on the Nooksack

We are monitoring an atmospheric river predicted to affect our region Thursday through Saturday. River levels are anticipated to peak Friday then recede through Saturday with all three river gauges approaching minor flood elevations.

The current system is expected to bring freezing levels to approximately 8,000 to 9,000 feet. We currently have low snowpack conditions which are vulnerable when hit by warm storm events like this.

As such, we require all sector staff to have their county issued cell phones charged and ready if things ramp up. We are not anticipating a sector watch at this time but want to make sure staff is aware. I will be following up tomorrow as this storm system arrives.

Current forecast have a second storm arriving on Sunday bringing more precipitation to the region through the middle of next week. We will keep you updated.

SOUTH FORK NOOKSACK RIVER AT SAXON BRIDGE

Copyright

NSSW1 (plotting HGIRG) "Gage 0" Datum: 350'

Observations courtesy of US Geological Survey

NOOKSACK RIVER AT NORTH CEDARVILLE

Copyright

NRKW1 (plotting HGIRG) "Gage 0" Datum: 0'

Observations courtesy of US Geological Survey

NKSW1 (plotting HGIRG) "Gage 0" Datum: 4.61'

Observations courtesy of US Geological Survey

Best Regards,



Daniel Goger P.E.

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Upcoming Sector Response for Nooksack - Starting 11/14/21

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Sent: November 13, 2021 5:18:13 PM PST
 Attachments: image006.png, image010.png, image001.png, image002.png, image003.png, image011.png, image008.jpg, image009.png, image007.png, image005.png

[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.

Sector Staff

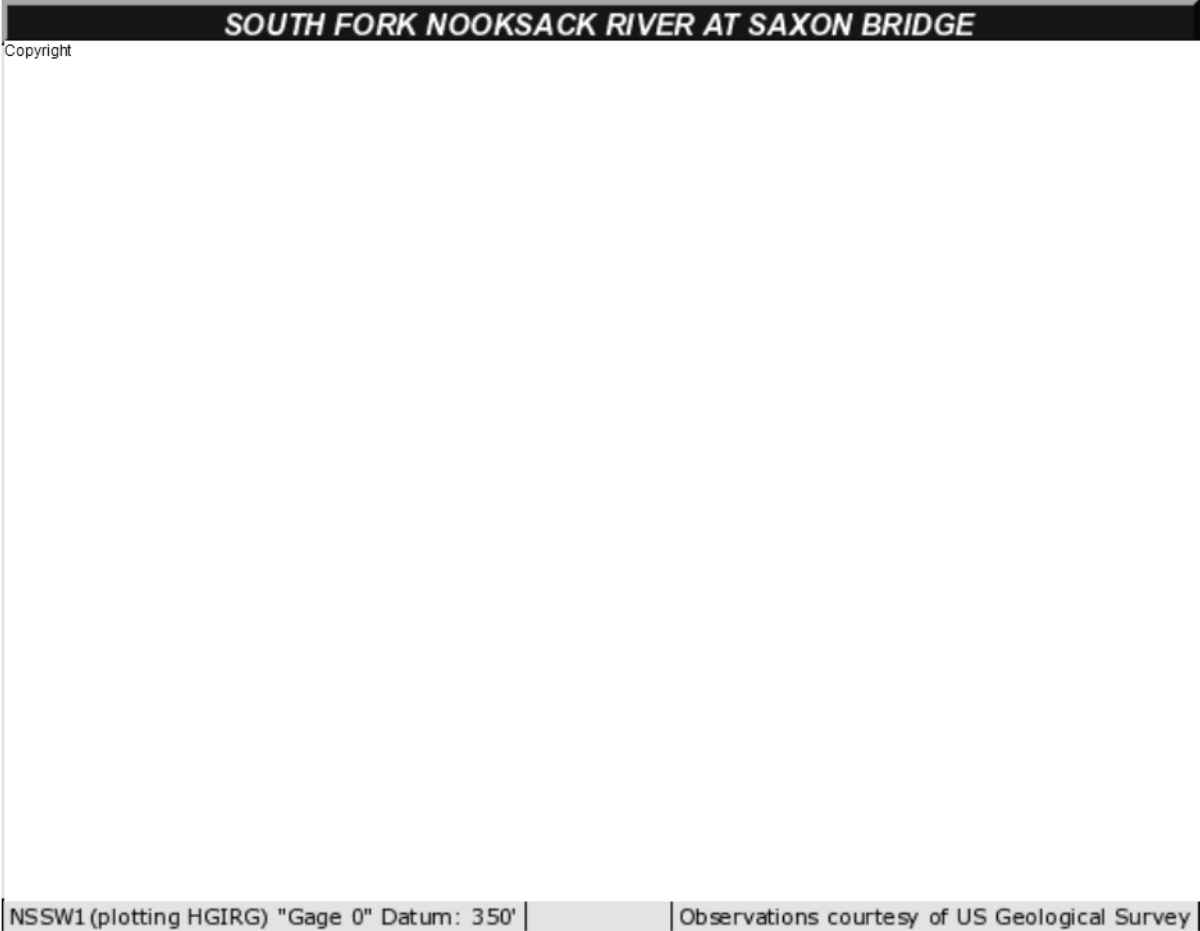
We are planning a Sector 1 – 4 response starting tomorrow night followed by a full Sector 1 - 5 response starting Monday morning. Please report to your sector supervisors and pick up sector boxes (or coordinate a drop off) prior to departing to your assigned sector.

- Sunday Night Shift (9 pm - 5 am) - Sector Supervisor: Christina Schoenfelder^{s.16}
- Monday Morning shift (5 am - 1 pm) – Sector Supervisor: Danny Goger^{s.16}
- Monday Afternoon (1 pm - 9 pm) -Sector Supervisor: Travis Bouma^{s.16}

The current flood forecast from the National Weather Service have remained steady with river levels increasing tomorrow night prior to cresting Monday / Tuesday. This current system has the potential to cause significant flood impacts including closures of major roadways (Highway 9 in Acme, Marine Drive, Slater, Hannegan, etc....), overflows at Main Street Everson and inundation at Marietta.

We will be giving you updates as things progress.

Here are the most recent river forecast from National Weather Service:



NOOKSACK RIVER AT NORTH CEDARVILLE

Copyright

NRKW1 (plotting HGIRG) "Gage 0" Datum: 0'

Observations courtesy of US Geological Survey

NOOKSACK RIVER AT FERNDALE

Copyright

NKSW1 (plotting HGIRG) "Gage 0" Datum: 4.61'

Observations courtesy of US Geological Survey

Best Regards,



Daniel Goger P.E.

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From: Daniel Goger

Sent: Friday, November 12, 2021 2:49 PM

To: Candice Leonard s.22

Cindy Fabbri s.22

Holly O'Neil

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Subject: RE: Update - Potential Flooding on the Nooksack

Flood Forecast Update – 11/12/2021

We are monitoring a strong weather system forecasted to arrive Saturday night/Sunday morning which has the potential to cause significant flooding in our region. Current river predictions have flood elevations increasing significantly Sunday afternoon with flood waters peaking between Monday afternoon through Tuesday morning.

This current system has the potential to cause significant flood impacts including closures of major roadways (Marine Drive, Slater, Hannegan, etc....), overflows at Main Street Everson and inundation at Marietta.

There is a high possibility of sector watches starting as early as **Sunday Afternoon** or **Monday morning**. We are requesting that all Sector staff start making plans accordingly. Sector supervisors will meet tomorrow to discuss sector responses and will be following up with you tomorrow afternoon via email and cell phone. As such, please check your county email and keep your county issued cell phones on you and charged.



NOOKSACK RIVER AT NORTH CEDARVILLE

Copyright

NRKW1 (plotting HGIRG) "Gage 0" Datum: 0'

Observations courtesy of US Geological Survey

NOOKSACK RIVER AT FERNDALE

Copyright

NKSW1 (plotting HGIRG) "Gage 0" Datum: 4.61'

Observations courtesy of US Geological Survey

We will keep you updated as things progress.

Best Regard,



Daniel Goger P.E.

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From: Daniel Goger

Sent: Wednesday, November 10, 2021 5:24 PM

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Subject: Potential Flooding on the Nooksack

We are monitoring an atmospheric river predicted to affect our region Thursday through Saturday. River levels are anticipated to peak Friday then recede through Saturday with all three river gauges approaching minor flood elevations.

The current system is expected to bring freezing levels to approximately 8,000 to 9,000 feet. We currently have low snowpack conditions which are vulnerable when hit by warm storm events like this.

As such, we require all sector staff to have their county issued cell phones charged and ready if things ramp up. We are not anticipating a sector watch at this time but want to make sure staff is aware. I will be following up tomorrow as this storm system arrives.

Current forecast have a second storm arriving on Sunday bringing more precipitation to the region through the middle of next week. We will keep you updated.

SOUTH FORK NOOKSACK RIVER AT SAXON BRIDGE

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NOOKSACK RIVER AT NORTH CEDARVILLE

Copyright

NRKW1 (plotting HGIRG) "Gage 0" Datum: 0'

Observations courtesy of US Geological Survey

NOOKSACK RIVER AT FERNDALE

Copyright

NKSW1 (plotting HGIRG) "Gage 0" Datum: 4.61'

Observations courtesy of US Geological Survey

Best Regards,



Daniel Goger P.E.

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NRKW1 (plotting HGIRG) "Gage 0" Datum: 0'

Observations courtesy of US Geological Survey

SOUTH FORK NOOKSACK RIVER AT SAXON BRIDGE

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NSSW1 (plotting HGIRG) "Gage 0" Datum: 350'

Observations courtesy of US Geological Survey

NOOKSACK RIVER AT NORTH CEDARVILLE

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NKSW1 (plotting HGIRG) "Gage 0" Datum: 4.61' | Observations courtesy of US Geological Survey |

NOOKSACK RIVER AT FERNDALE

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NKSW1 (plotting HGIRG) "Gage 0" Datum: 4.61'

Observations courtesy of US Geological Survey

SOUTH FORK NOOKSACK RIVER AT SAXON BRIDGE

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Nooksack flooding

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Sent: November 14, 2021 2:12:08 PM PST
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The flood is here and we have mobilized our upriver sector observers to monitor conditions in the forks and upper mainstem. At 9 pm we will have more coverage on all sectors of the river.

The NWS predictions for this flood suggest it will be similar in scope to what we saw in February of 2020. We are already seeing flooding of Highway 9 in Acme and expect the river will overtop Everson Main Street and flow into the overflow corridor towards Sumas later this evening and early tomorrow. All of the roads that typically flood will be impacted including Hannegan and Slater Roads.

The latest hydrographs and a link are below:
<https://water.weather.gov/ahps2/index.php?wfo=SEW> link for all gages

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Update on flood

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Sent: November 14, 2021 4:51:51 PM PST
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Hi again-

The forecasted peaks are going up and now they are showing a peak stage at Cedarville higher than the 2020 flood, similar to the 2006 flood which was the flood of record for the Cedarville gage. The forecasted peak flow is not quite as high as the estimated flow for the 1990 flood but it is close. We anticipate significant impacts throughout the floodplain including the Everson-Sumas overflow corridor.

SOUTH FORK NOOKSACK RIVER AT SAXON BRIDGE

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