

# Special Hydrology Briefing

Thursday–May 24, 2018

National Weather Service

Spokane, WA

Steve Bodnar

*River & Weather Forecasts change. Please check our website for updates.*

*[www.weather.gov/Spokane](http://www.weather.gov/Spokane)*

*[water.weather.gov/ahps2/index.php?wfo=otx](http://water.weather.gov/ahps2/index.php?wfo=otx)*

# Weather Outlook

- **Thursday – Friday:** Continued warm. Chance of showers and thunderstorms mainly NE Mtns and Blue Mtns.
- **Saturday:** Cooler. Dry, Breezy.
- **Sunday/Memorial Day:** Dry. Warming up
- **Tuesday - Friday:** Cooler with seasonal temperatures. Breezy. Generally Dry

# Field Hazards This Weekend

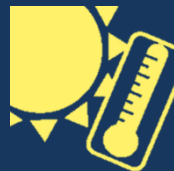
## Thursday-Thursday:

- Warm. Temperatures 6-10 above normal.
- Lightning / Brief downpours

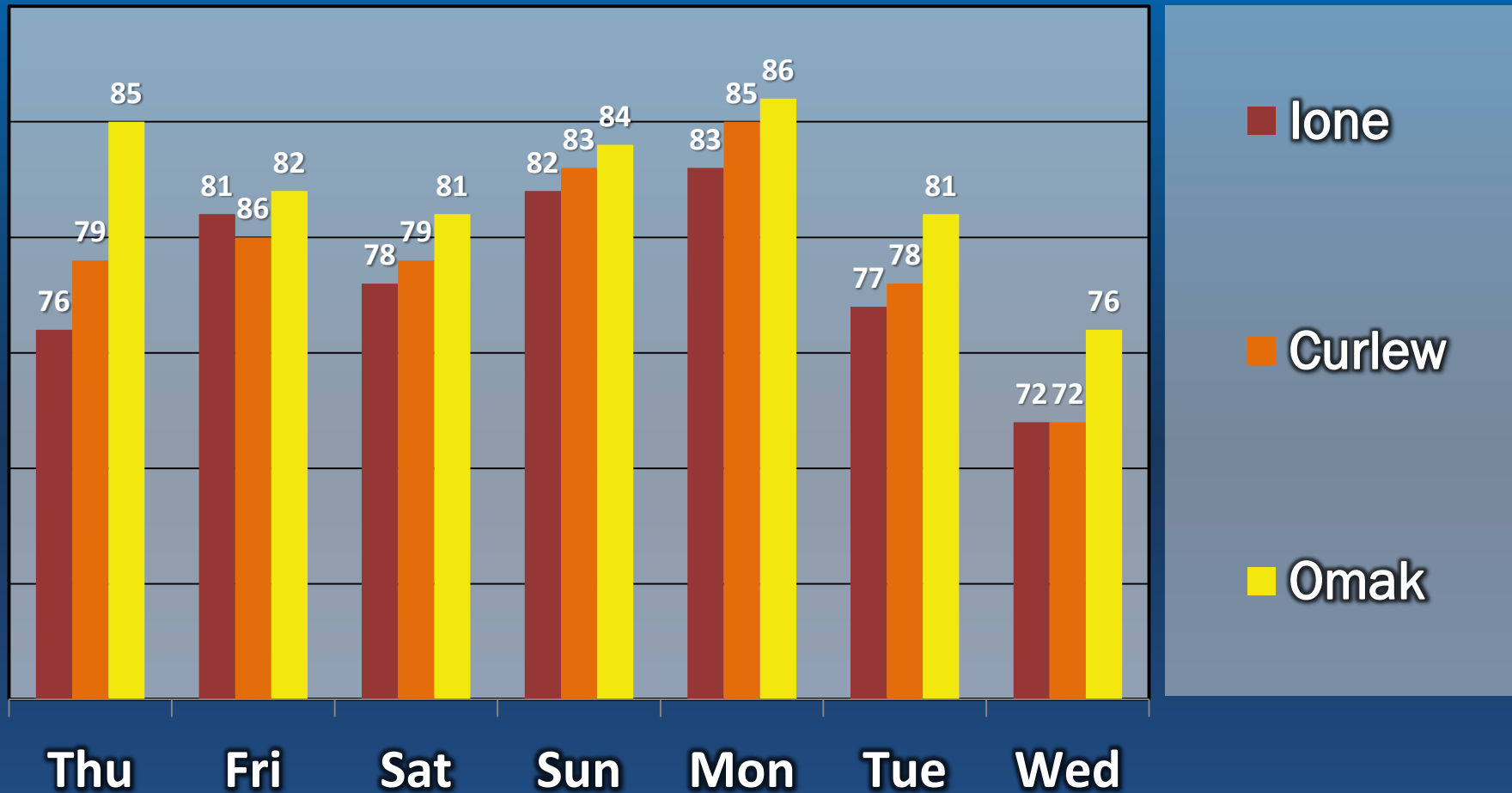


## Sunday – Monday

- Warm Temperatures



# High Temperature Trend



# Current & Forecast Flooding



River	Current Flood State	Forecast Flood State
Okanogan	Minor	Minor
Pend Oreille	Minor	Moderate
Lake Pend Oreille	Minor	Minor
Kettle	Below Flood	Near Flood
Stehekin	Near Flood	Near Flood
Methow	Below Flood	Below Flood

**Okanogan  
County**  
High waters remain on  
Lake Osoyoos

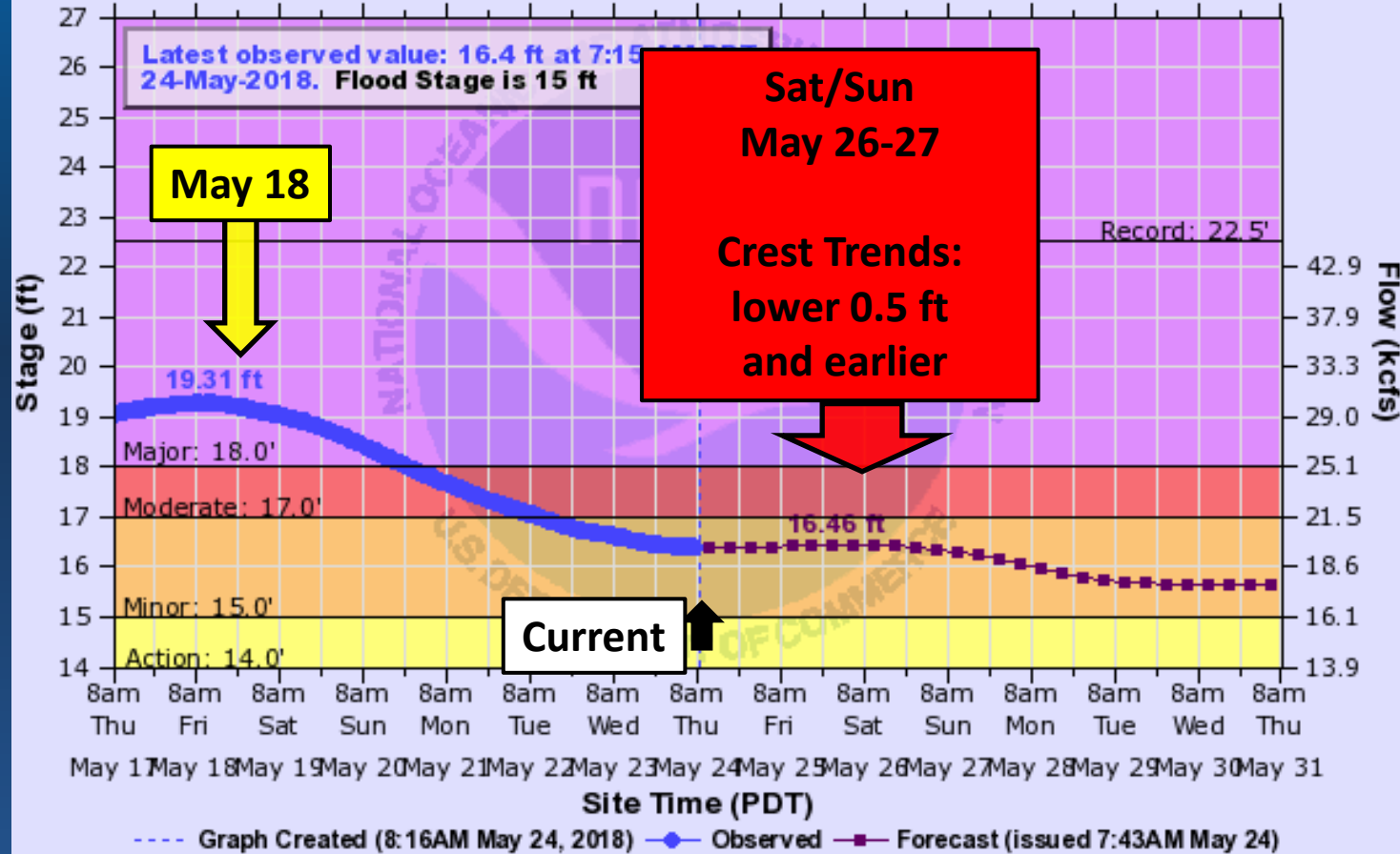


# Okanogan River

## OKANOGAN RIVER NEAR TONASKET

Universal Time (UTC)

15Z May 1 15Z May 18 15Z May 19 15Z May 20 15Z May 21 15Z May 22 15Z May 23 15Z May 24 15Z May 25 15Z May 26 15Z May 27 15Z May 28 15Z May 29 15Z May 30 15Z May 31



TONW1 (plotting HGIRG) "Gage 0" Datum: 860.78'

Observations courtesy of US Geological Survey

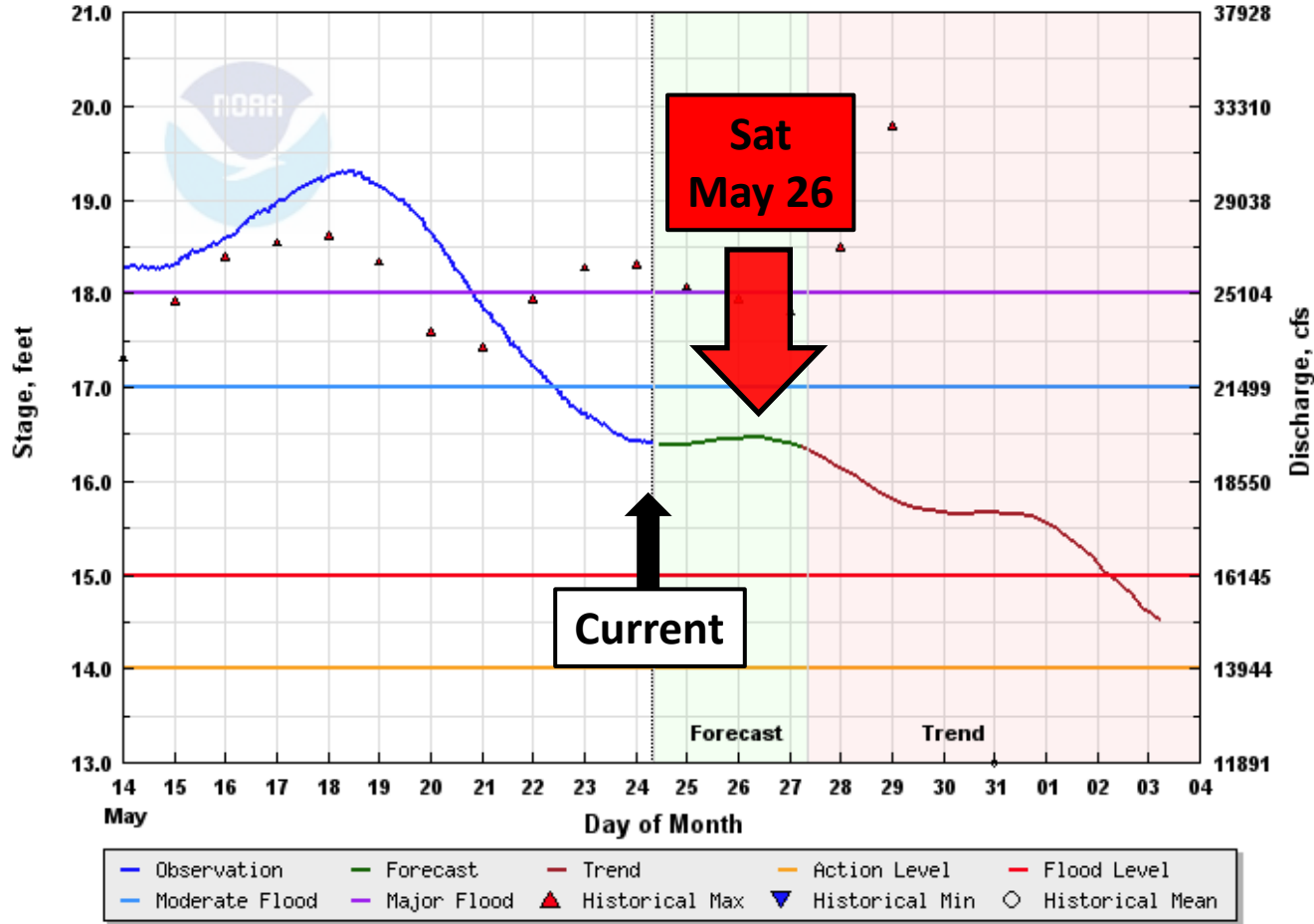
## Sustained high flows

- Increased water table and flood issues
- Saturated banks, roadbeds, levees
- Erosion

# Okanogan River

## OKANOGAN - NEAR TONASKET (TONW1)

Latest Observation: 16.41 ft 05/24/2018 08:15 PDT



### Historic Crests

- (1) 22.54 ft on 06/02/1972
- (2) 21.79 ft on 05/31/1948
- (3) 19.71 ft on 05/12/2018
- (4) 18.79 ft on 06/19/1974
- (5) 18.66 ft on 06/18/1950
- (6) 18.31 ft on 04/27/1934
- (7) 18.12 ft on 06/14/1955
- (8) 18.05 ft on 05/17/1949
- (9) 17.80 ft on 05/18/1997
- (10) 17.62 ft on 06/11/2011

Forecast Created: 05/24/2018 07:43 PDT  
 Plot Created: 05/24/2018 08:56 PDT

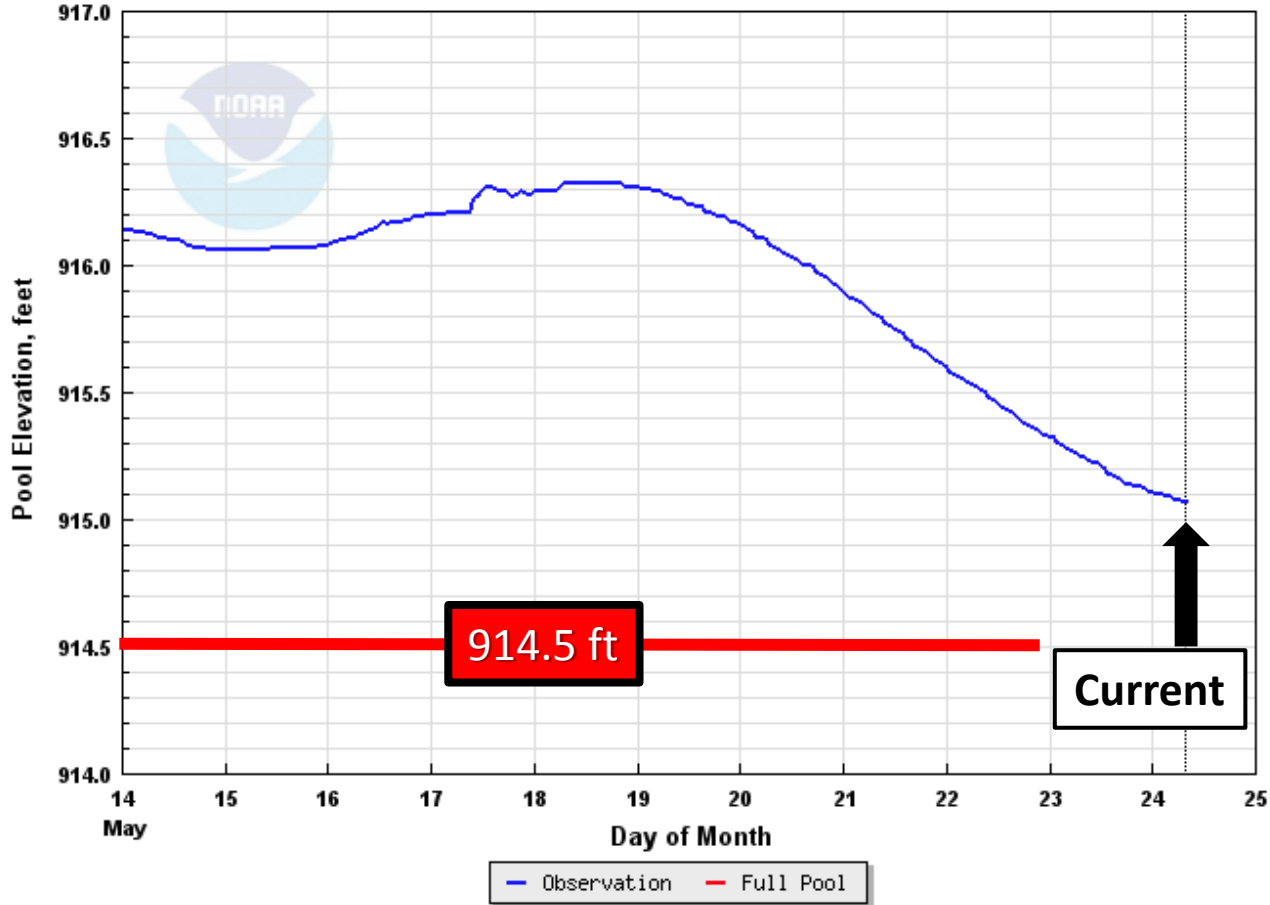
Observations Provided by USGS

[www.nwrfc.noaa.gov/](http://www.nwrfc.noaa.gov/)

# Lake Osoyoos

OKANOGAN - OSOYOOS LAKE (OKGW1)

Latest Observation: 915.07 ft 05/24/2018 08:30 PDT



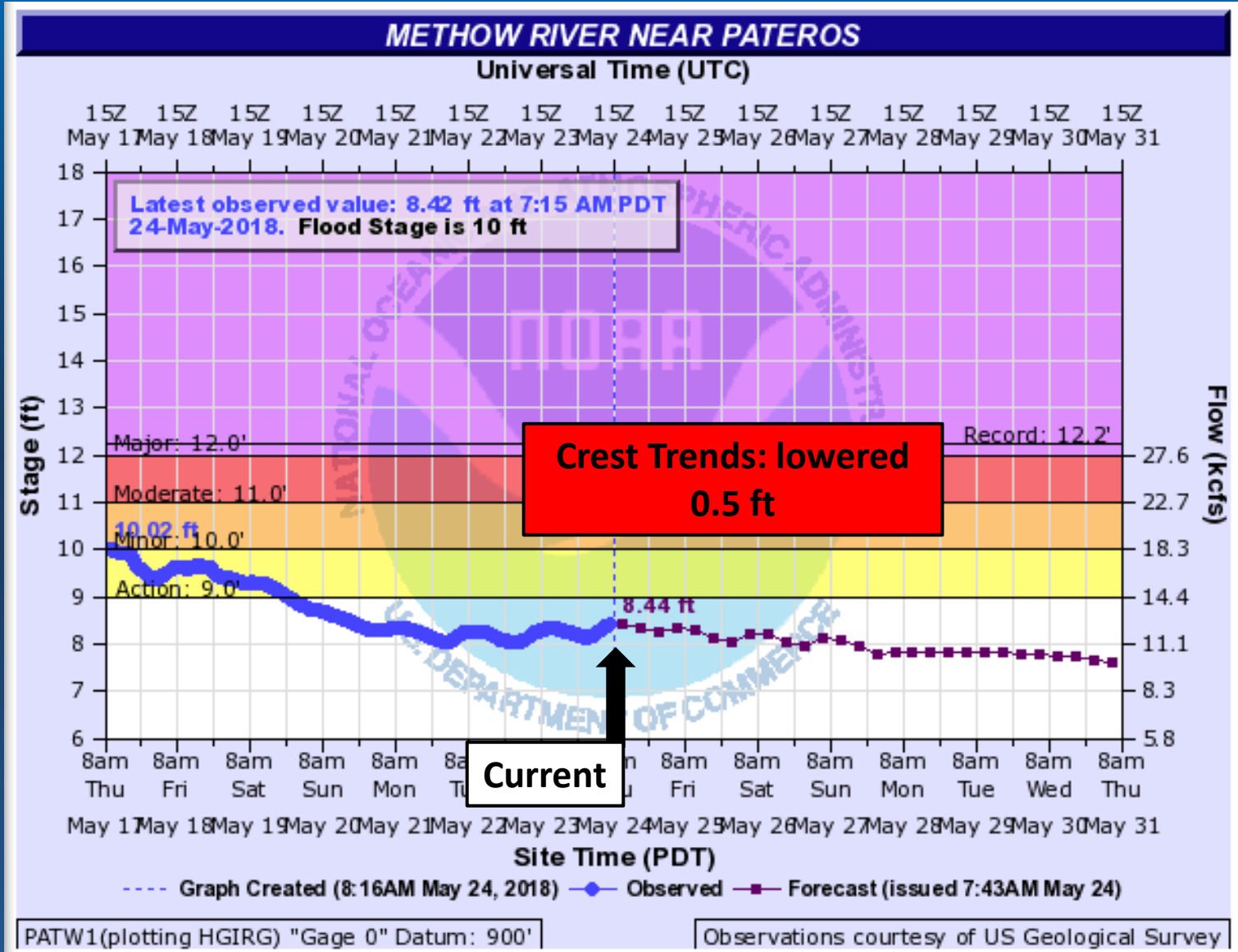
Plot Created: 05/24/2018 08:52 PDT

Flooding occurs  
above 914ft +  
Winds cause wave  
erosion

Expected to remain  
high.



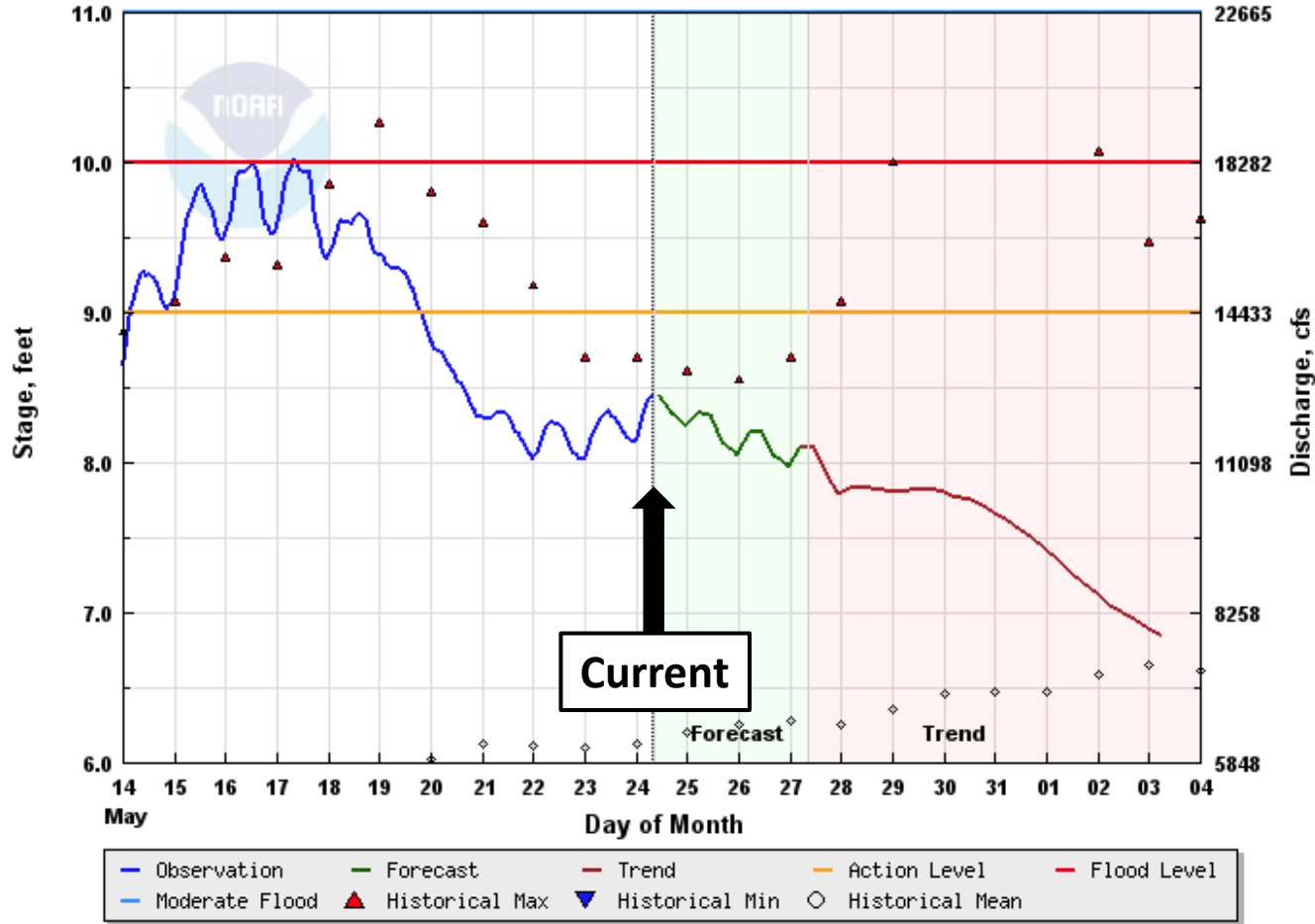
# Methow River



# Methow River

## METHOW - NEAR PATEROS (PATW1)

Latest Observation: 8.44 ft 05/24/2018 08:15 PDT



### Historic Crests

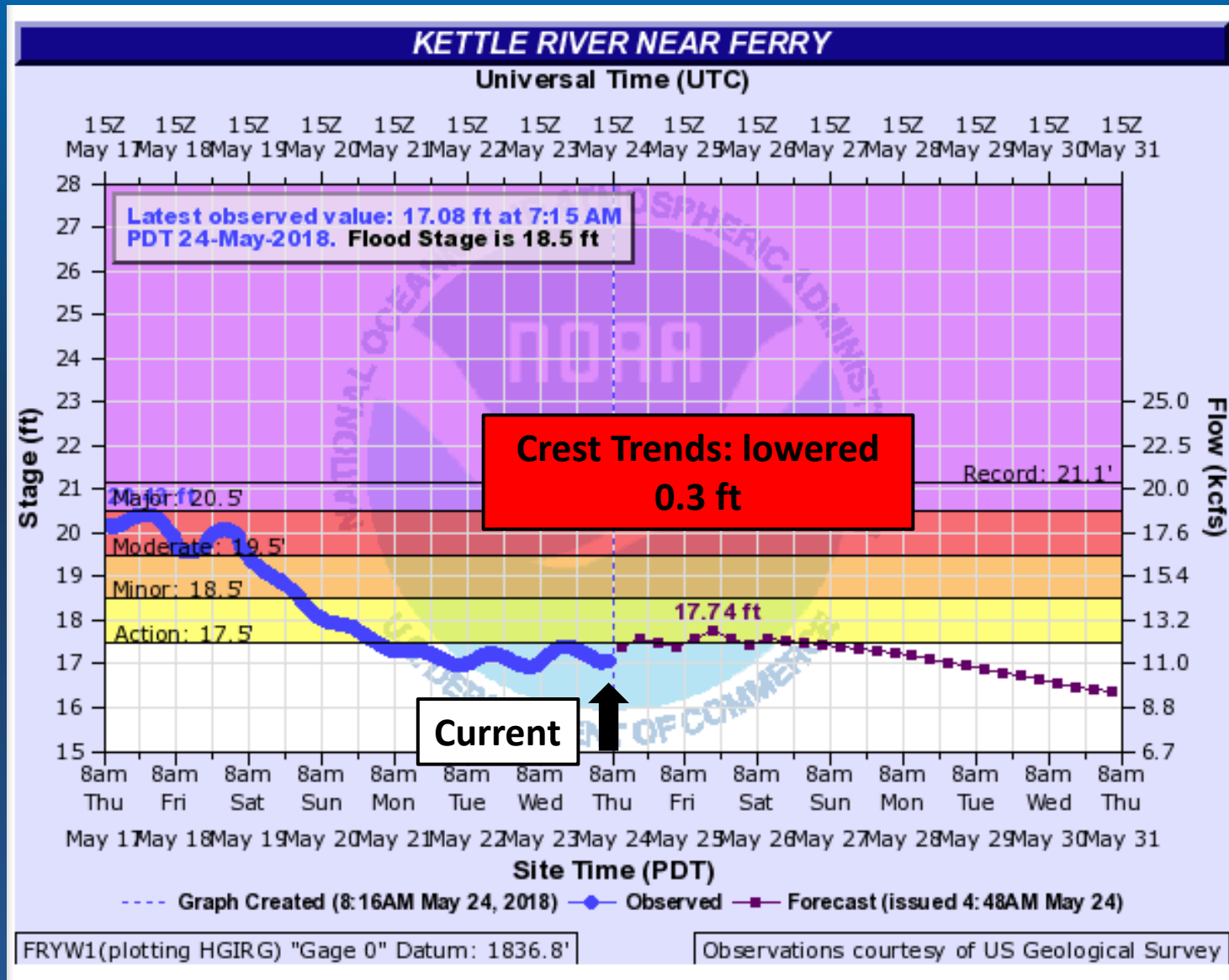
- (1) 12.25 ft on 05/31/1972
- (2) 11.26 ft on 06/17/1974
- (3) 10.68 ft on 05/31/1983
- (4) 10.65 ft on 05/10/2018
- (5) 10.63 ft on 05/19/2006
- (6) 10.61 ft on 06/22/1967
- (7) 10.52 ft on 06/17/1999
- (8) 10.31 ft on 06/01/2017
- (9) 10.21 ft on 05/19/2008
- (10) 10.00 ft on 05/24/2017

Forecast Created: 05/24/2018 07:43 PDT  
 Plot Created: 05/24/2018 08:58 PDT

Observations Provided by USGS

[www.nwrfc.noaa.gov/](http://www.nwrfc.noaa.gov/)

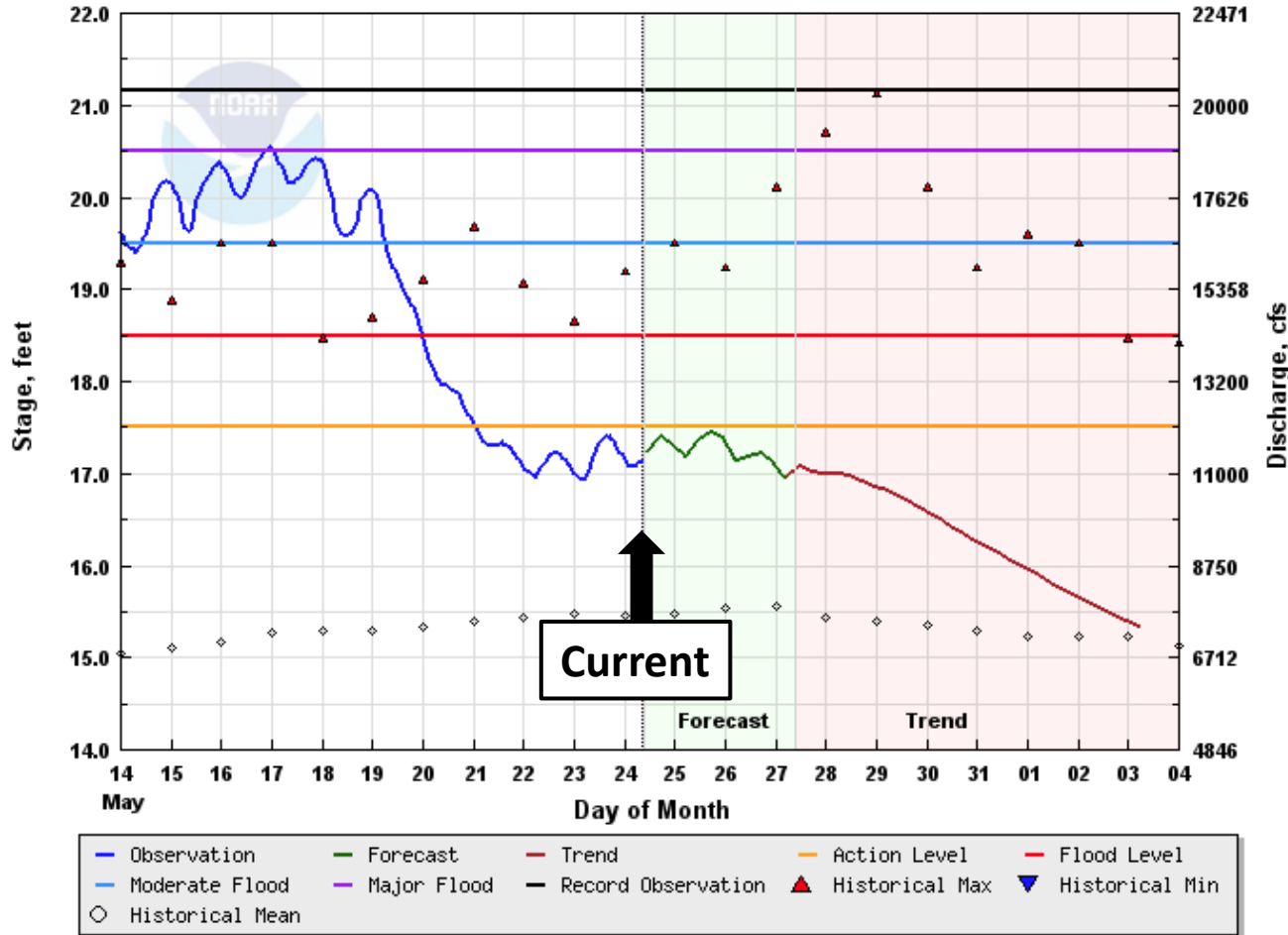
# Kettle River @ Ferry



# Kettle River

## KETTLE - NEAR FERRY (FRYW1)

Latest Observation: 17.12 ft 05/24/2018 08:15 PDT



Forecast Created: 05/24/2018 08:51 PDT

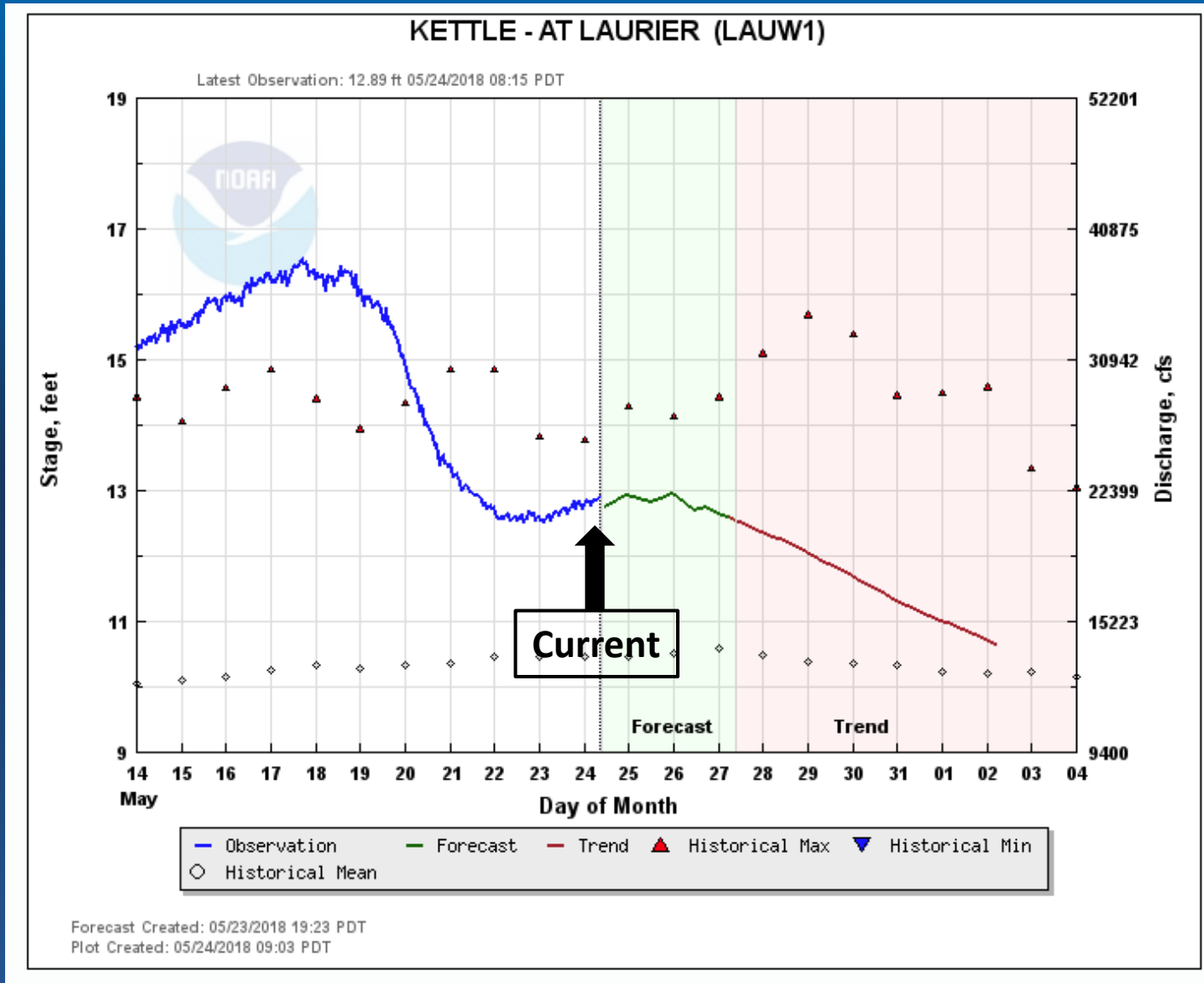
Plot Created: 05/24/2018 09:02 PDT

Observations Provided by USGS

## Historic Crests

- (1) 22.54 ft on 05/11/2018
- (2) 21.15 ft on 05/29/1948
- (3) 20.85 ft on 06/01/1997
- (4) 20.67 ft on 05/07/2017
- (5) 20.54 ft on 05/27/1942
- (6) 20.18 ft on 05/22/2006
- (7) 19.69 ft on 06/01/1972
- (8) 19.60 ft on 05/21/1956
- (9) 19.56 ft on 05/25/2017
- (10) 19.52 ft on 05/14/1971

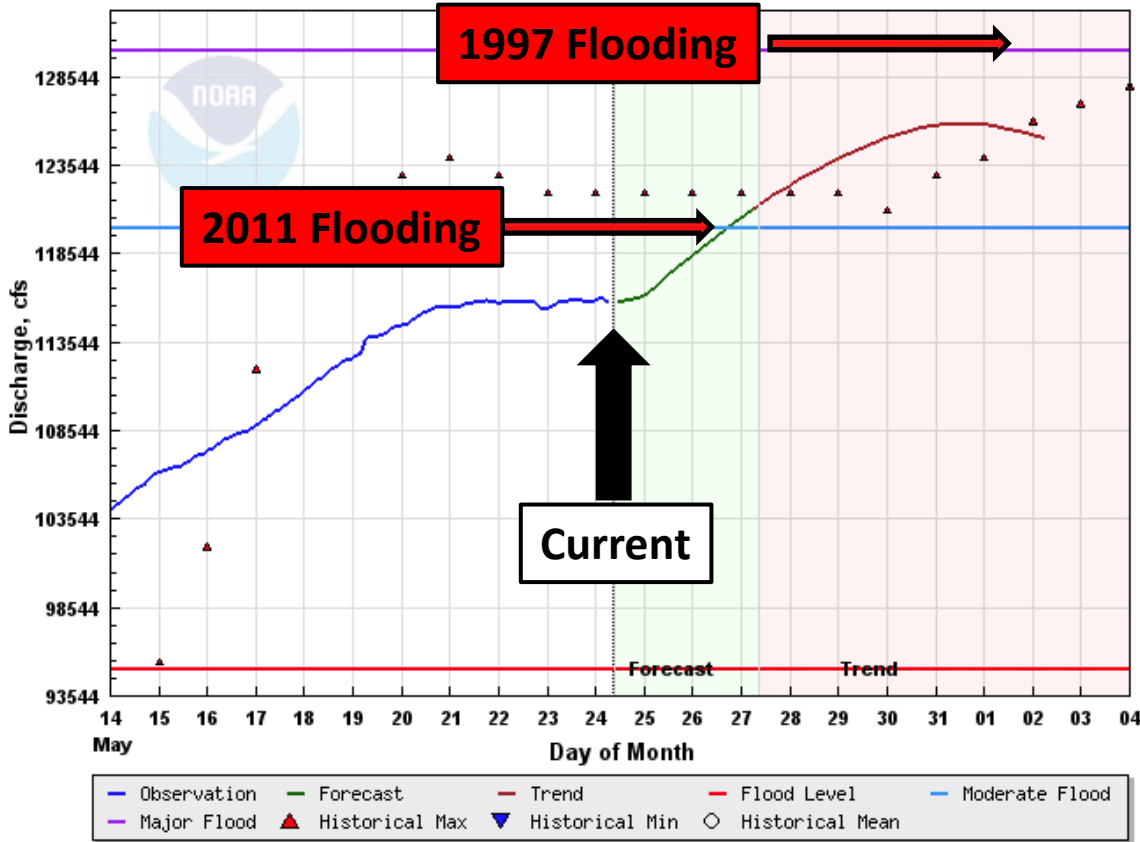
# Kettle River @ Laurier



# Pend Oreille River

## PEND OREILLE - ALBENI FALLS DAM (ALFW1)

Latest Observation: 115800 cfs 05/24/2018 06:00 PDT



Forecast Created: 05/24/2018 07:04 PDT  
Plot Created: 05/24/2018 09:04 PDT

**Trends:**  
**lowered crest**  
**127,000 → 126,000**

### Historic Crests

- (1) 200,000 cfs on 06/01/1894
- (2) 167,000 cfs on 06/01/1948 (P)
- (3) 136,400 cfs on 06/12/1972
- (4) 133,600 cfs on 06/23/1974
- (5) 132,000 cfs on 06/05/1997
- (6) 127,000 cfs on 06/04/1956
- (7) 120,200 cfs on 06/16/2011 (P)
- (8) 120,000 cfs on 06/18/1964
- (9) 115,000 cfs on 06/08/1961
- (10) 106,400 cfs on 06/11/1967

[www.nwrfc.noaa.gov/](http://www.nwrfc.noaa.gov/)

# Summary

- Warm. Isolated thunderstorms Northern Mountains.



- Holiday Weekend: Drier. Temperatures cool Saturday then warm back up by Monday.



- Cooler and occasionally breezy next week



- Pend Oreille Basin will see additional rises.



- Okanogan, Kettle, and Methow Basins will be steady then recede.

