

Special Hydrology Briefing

Wednesday–May 23, 2018

National Weather Service

Spokane, WA

Steve Bodnar

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

www.weather.gov/Spokane

water.weather.gov/ahps2/index.php?wfo=otx

Weather Outlook

- **Wednesday – Friday:** Continued warm. Chance of showers and thunderstorms.
WED: Localized heavy rain and flooding possible
- **Friday night/Saturday:** Cooler. Chance of showers and thunderstorms mainly near Idaho border.
- **Sunday/Memorial Day:** Dry. Warming up
- **Outlook for next week:** Start off warm then becoming cooler. Seasonal temperatures. Next precipitation event Wednesday.

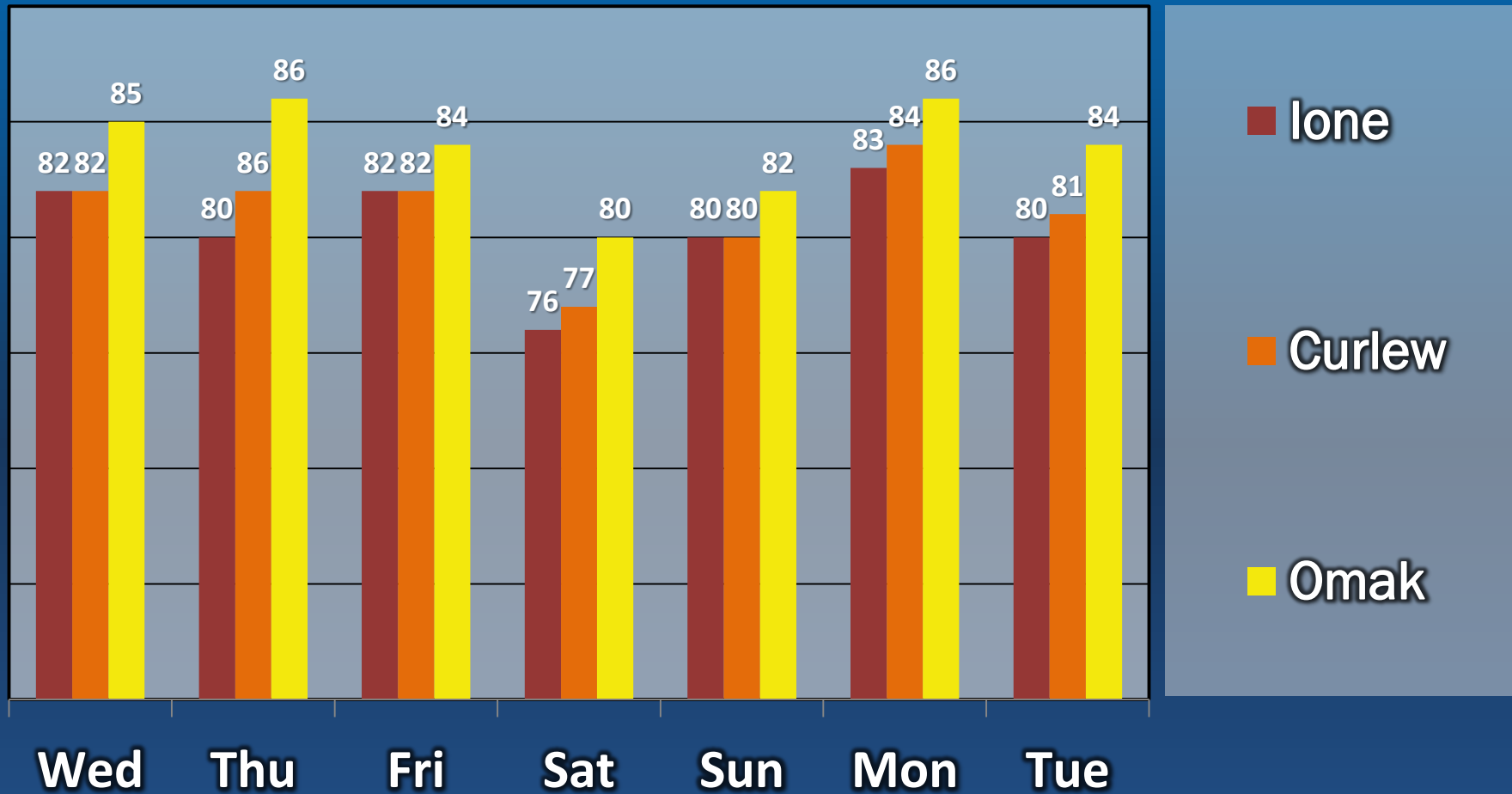
Field Hazards This Weekend

Wednesday - Friday:

- Temperatures 10-15 degrees above normal.
- Heat and Sun Exposure
- Lightning / Heavy downpours
 - Dry washes
 - Burn Scars
 - Urban Areas



High Temperature Trend



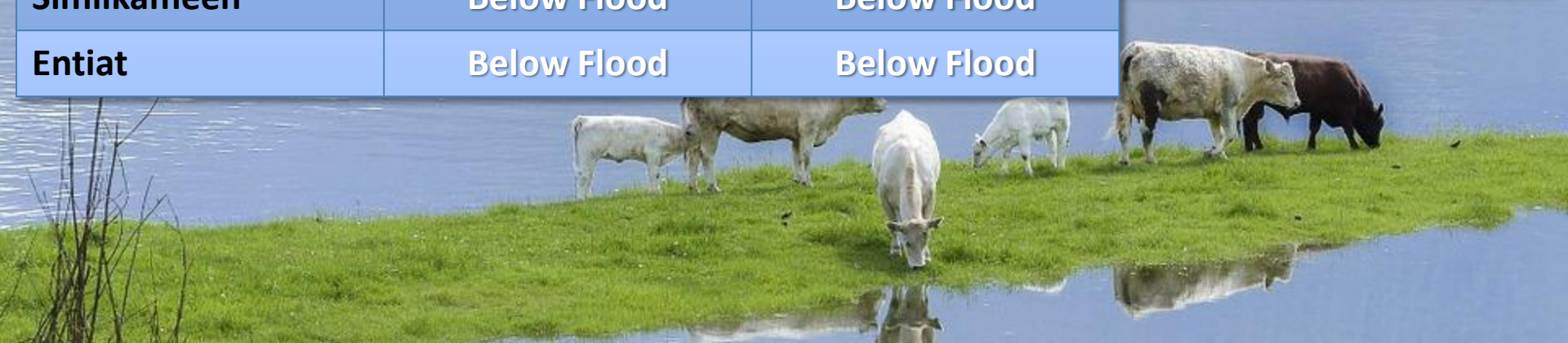
Current & Forecast Flooding



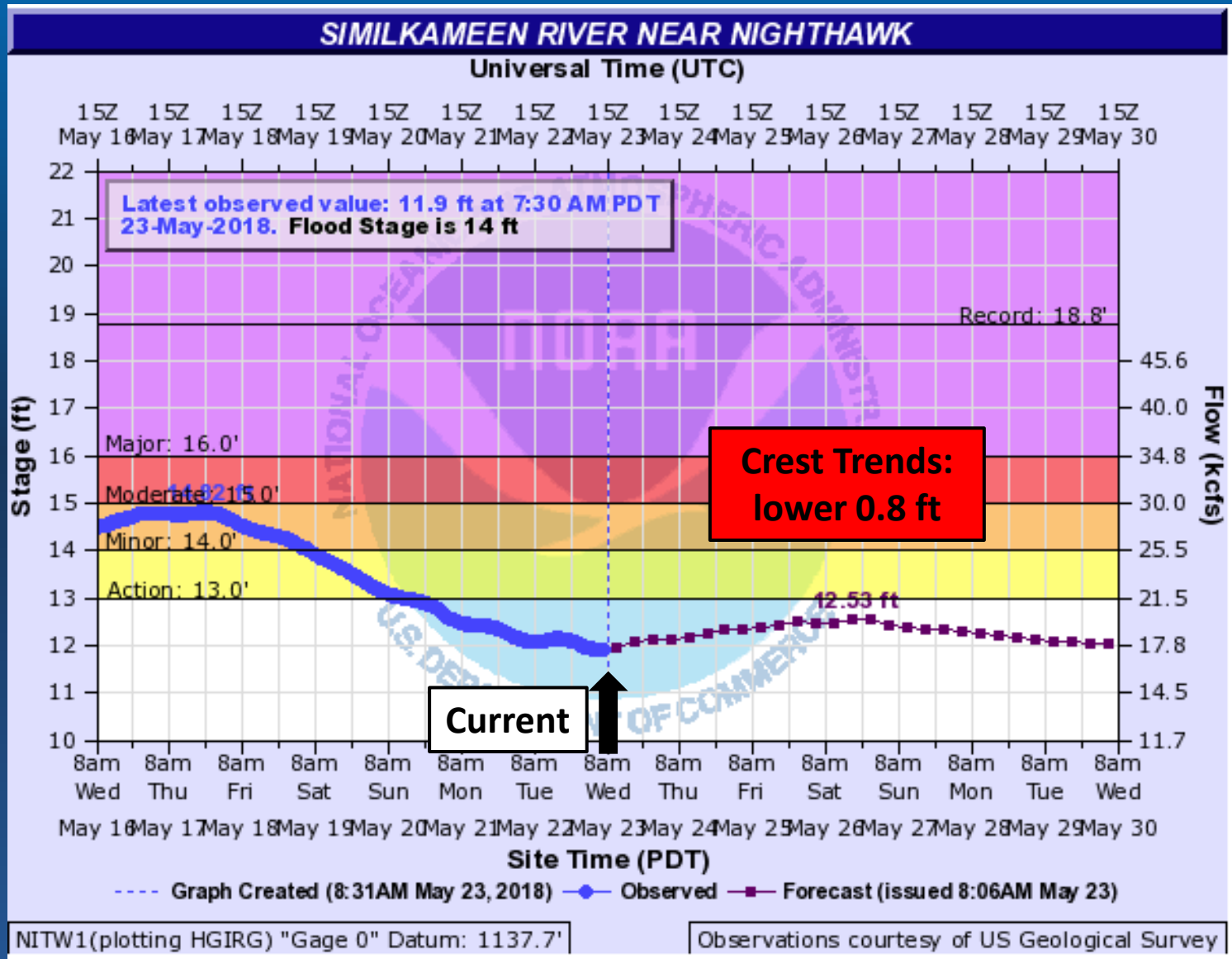
Okanogan County

High waters remain on Lake Osoyoos

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



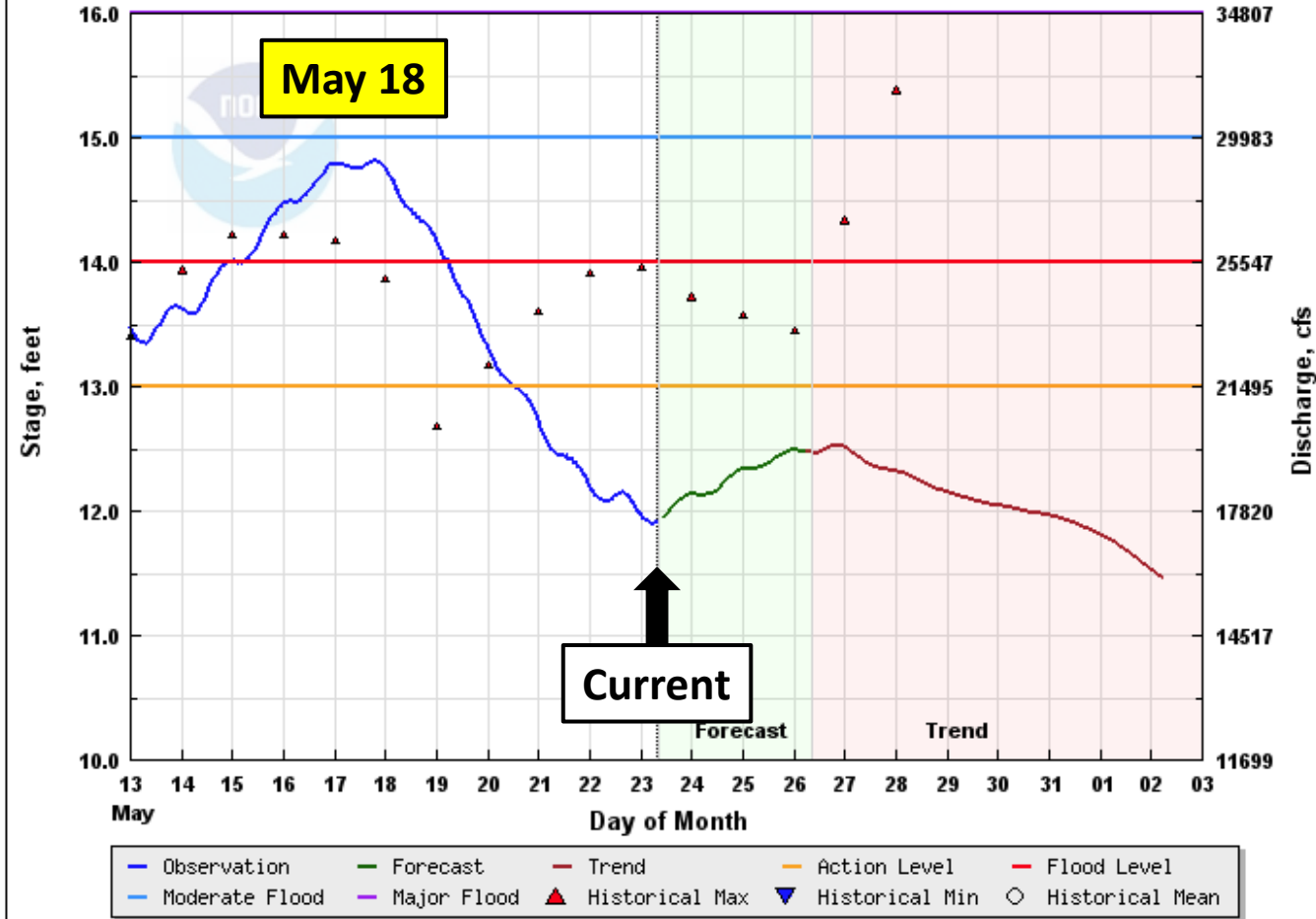
Similkameen River



Similkameen River

SIMILKAMEEN - NEAR NIGHTHAWK (NITW1)

Latest Observation: 11.91 ft 05/23/2018 08:30 PDT



Historic Crests

- (1) 17.97 ft on 06/01/1972
- (2) 17.62 ft on 05/30/1948
- (3) 15.52 ft on 06/17/1974
- (4) 15.50 ft on 05/11/2018
- (5) 15.47 ft on 06/17/1950
- (6) 15.13 ft on 06/13/1955
- (7) 14.96 ft on 04/26/1934
- (8) 14.76 ft on 05/15/1949
- (9) 14.59 ft on 05/17/1997
- (10) 14.25 ft on 05/22/1991

www.nwrfc.noaa.gov/

Forecast Created: 05/23/2018 08:06 PDT

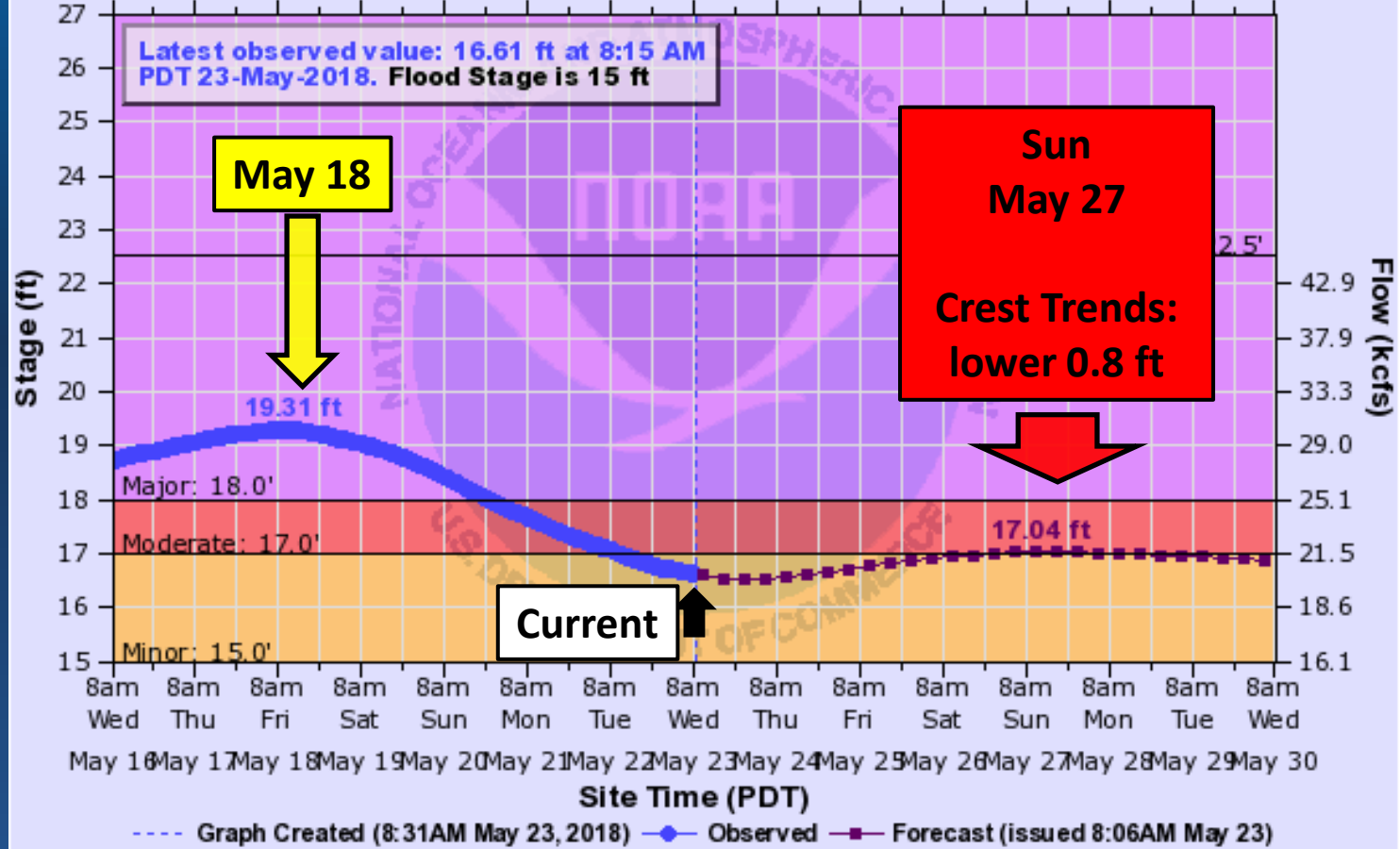
Plot Created: 05/23/2018 08:58 PDT

Okanogan River

OKANOGAN RIVER NEAR TONASKET

Universal Time (UTC)

15Z 15Z 15Z 15Z 15Z 15Z 15Z 15Z 15Z 15Z 15Z 15Z 15Z 15Z 15Z
 May 16 May 17 May 18 May 19 May 20 May 21 May 22 May 23 May 24 May 25 May 26 May 27 May 28 May 29 May 30



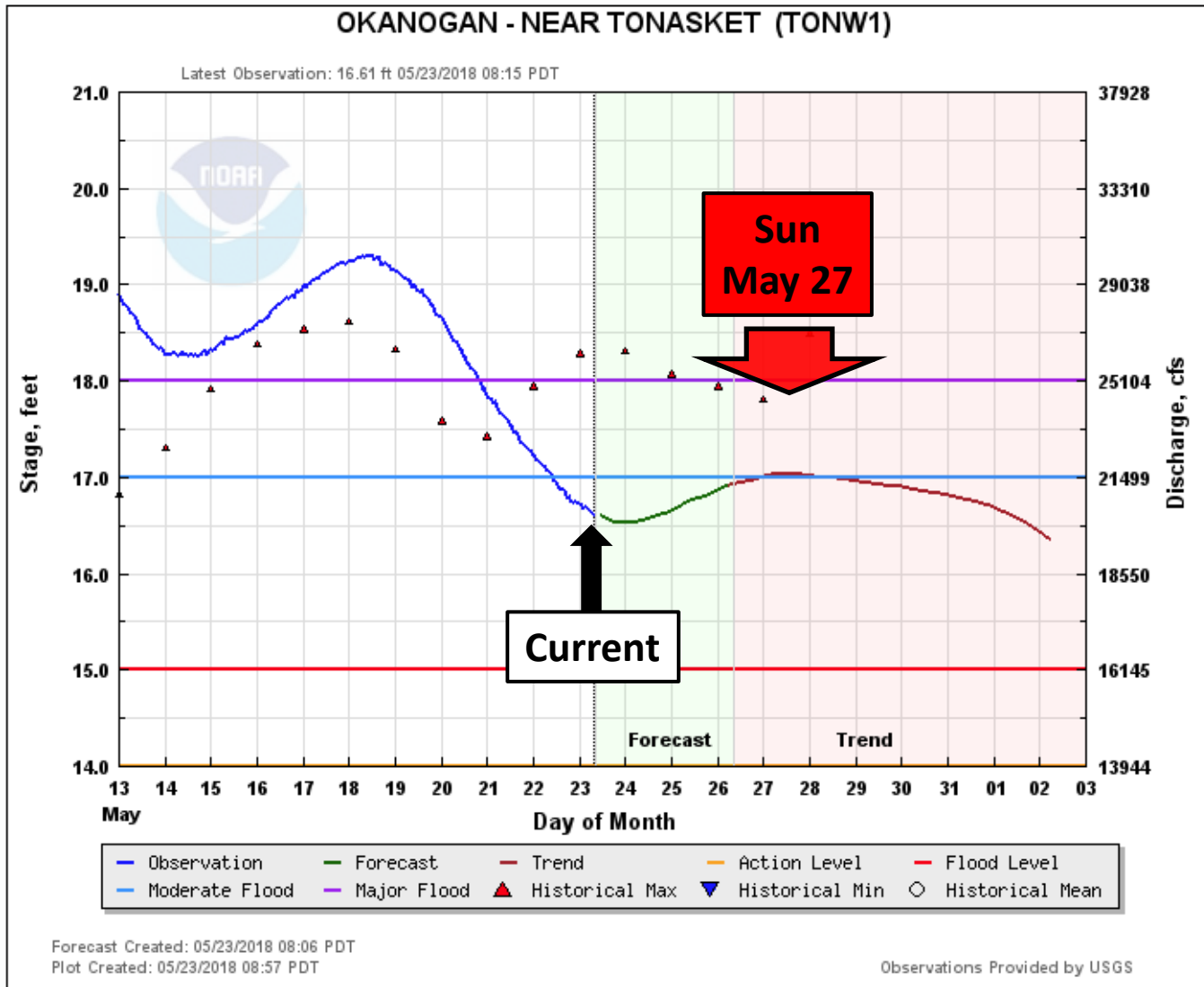
Sustained high flows

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

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

Observations courtesy of US Geological Survey

Okanogan River



Historic Crests

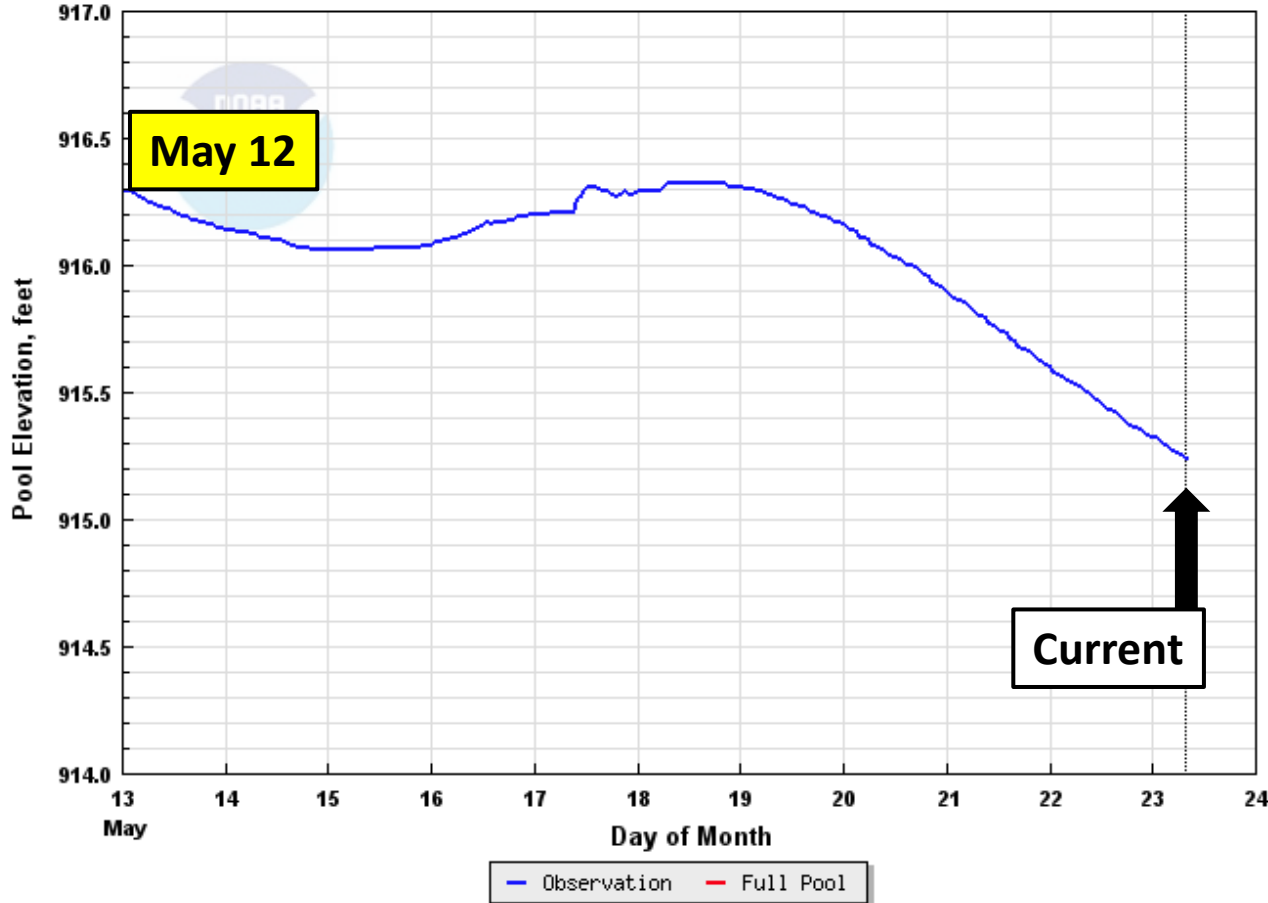
- (1) 22.54 ft on 06/02/1972
- (2) 21.79 ft on 05/31/1948
- (3) 19.71 ft on 05/12/2018
- (4) 18.79 ft on 06/19/1974
- (5) 18.66 ft on 06/18/1950
- (6) 18.31 ft on 04/27/1934
- (7) 18.12 ft on 06/14/1955
- (8) 18.05 ft on 05/17/1949
- (9) 17.80 ft on 05/18/1997
- (10) 17.62 ft on 06/11/2011

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Lake Osoyoos

OKANOGAN - OSOYOOS LAKE (OKGW1)

Latest Observation: 915.24 ft 05/23/2018 08:30 PDT

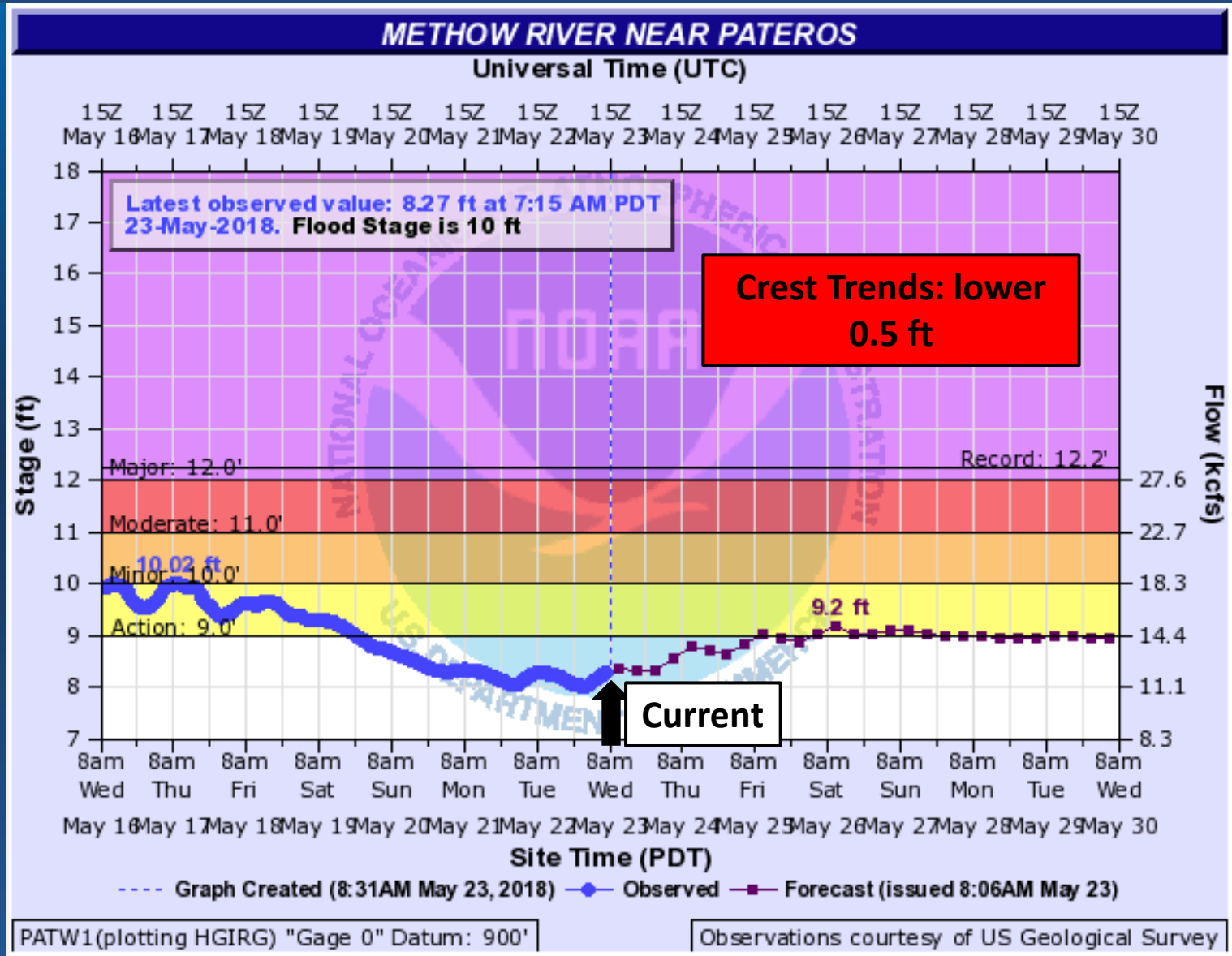


Plot Created: 05/23/2018 08:52 PDT

Flooding occurs
above 914ft +
Winds cause wave
erosion

Expected to have
slight rises later this
week as
Similkameen rises
again

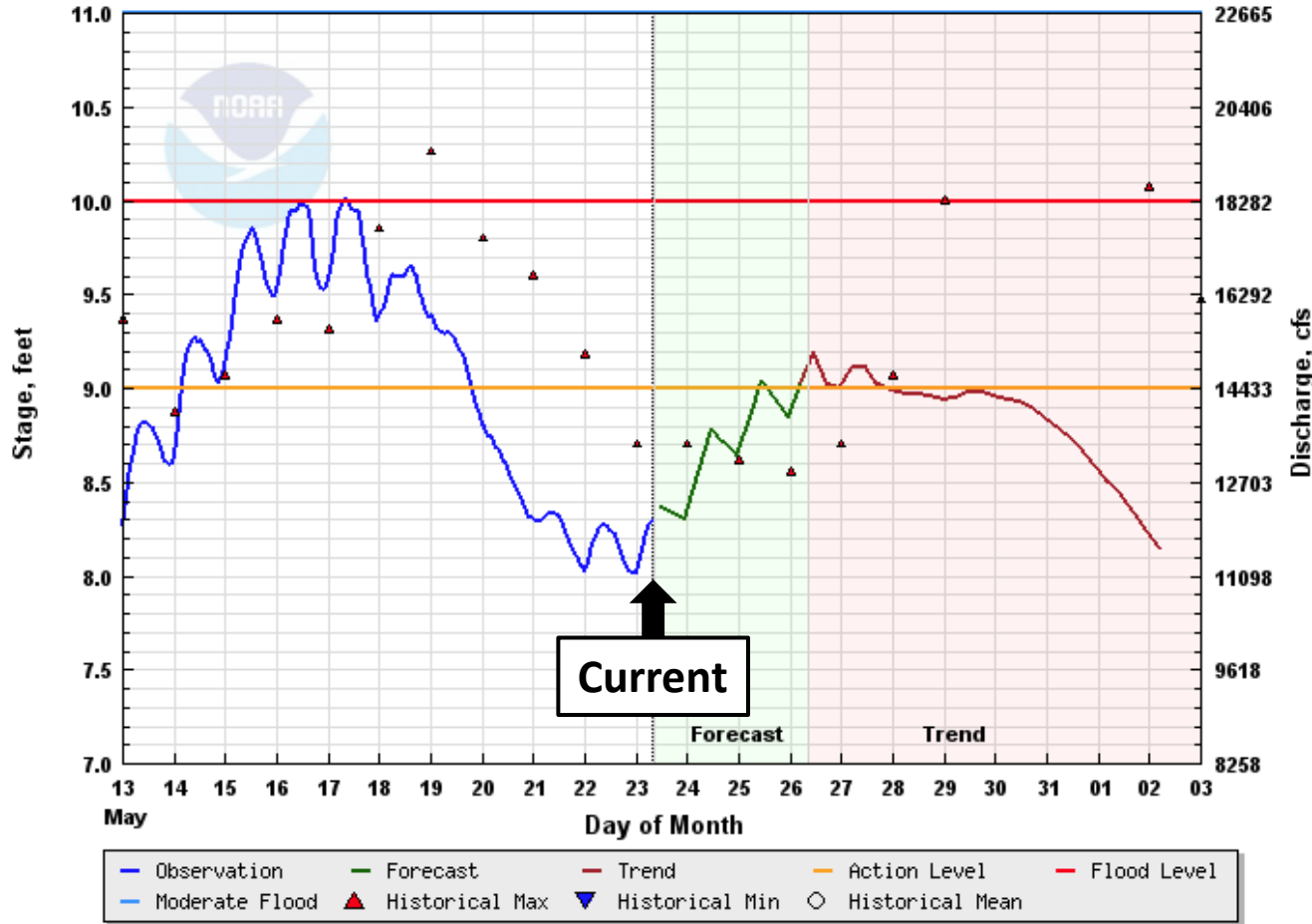
Methow River



Methow River

METHOW - NEAR PATEROS (PATW1)

Latest Observation: 8.3 ft 05/23/2018 08:15 PDT



Historic Crests

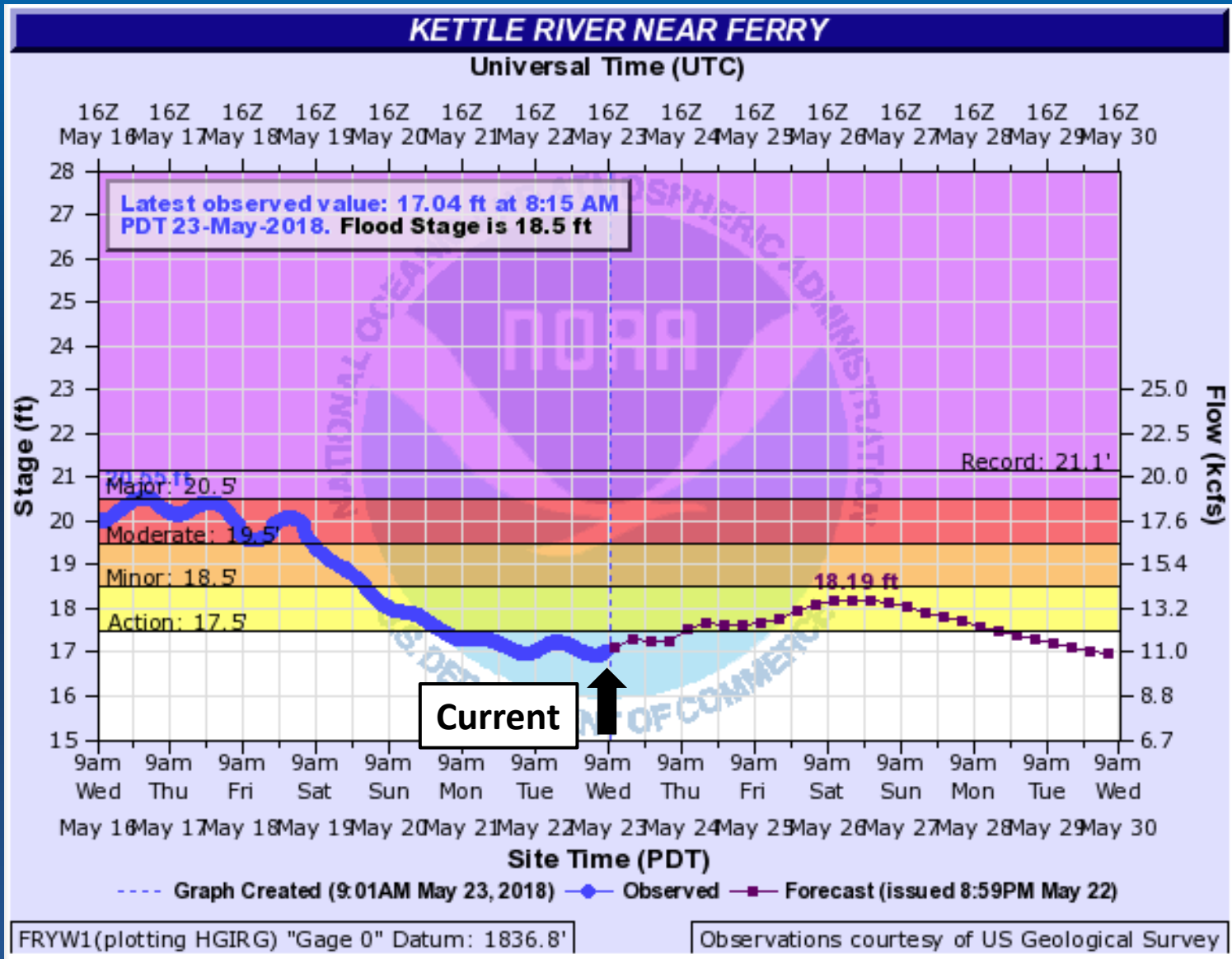
- (1) 12.25 ft on 05/31/1972
- (2) 11.26 ft on 06/17/1974
- (3) 10.68 ft on 05/31/1983
- (4) 10.65 ft on 05/10/2018
- (5) 10.63 ft on 05/19/2006
- (6) 10.61 ft on 06/22/1967
- (7) 10.52 ft on 06/17/1999
- (8) 10.31 ft on 06/01/2017
- (9) 10.21 ft on 05/19/2008
- (10) 10.00 ft on 05/24/2017

Forecast Created: 05/23/2018 08:06 PDT
 Plot Created: 05/23/2018 08:58 PDT

Observations Provided by USGS

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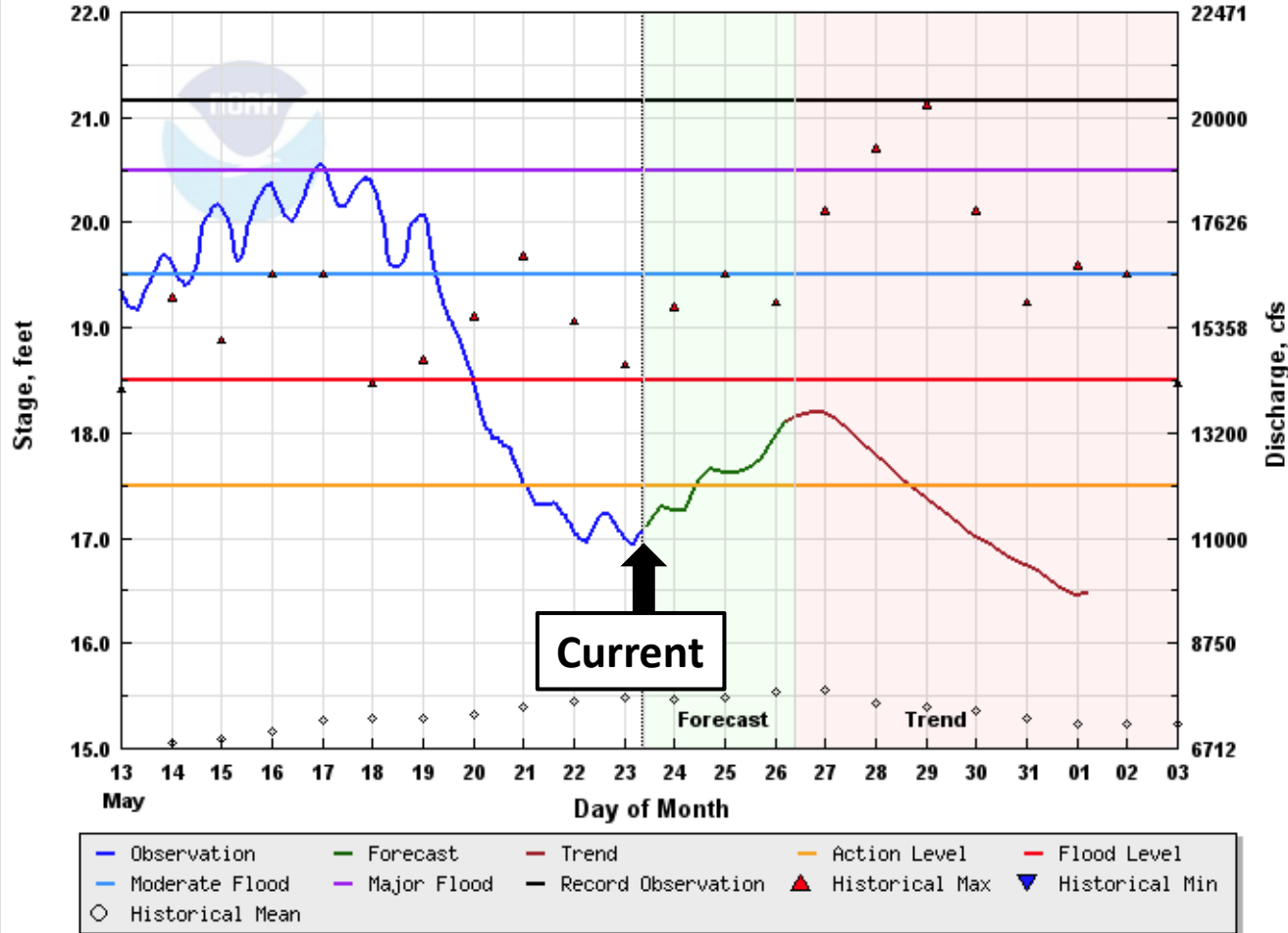
Kettle River @ Ferry



Kettle River

KETTLE - NEAR FERRY (FRYW1)

Latest Observation: 17.04 ft 05/23/2018 08:15 PDT



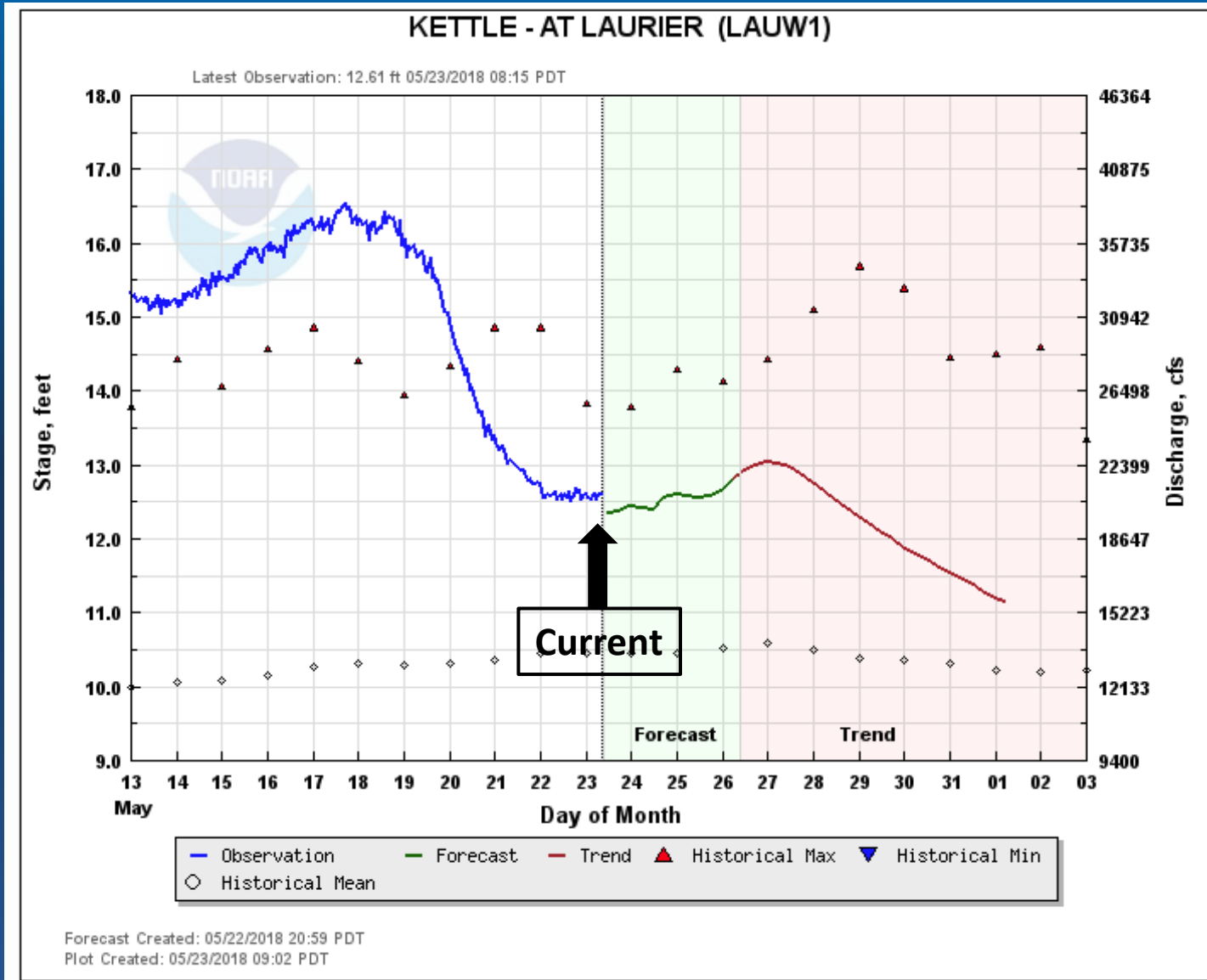
Forecast Created: 05/22/2018 20:59 PDT
 Plot Created: 05/23/2018 09:17 PDT

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

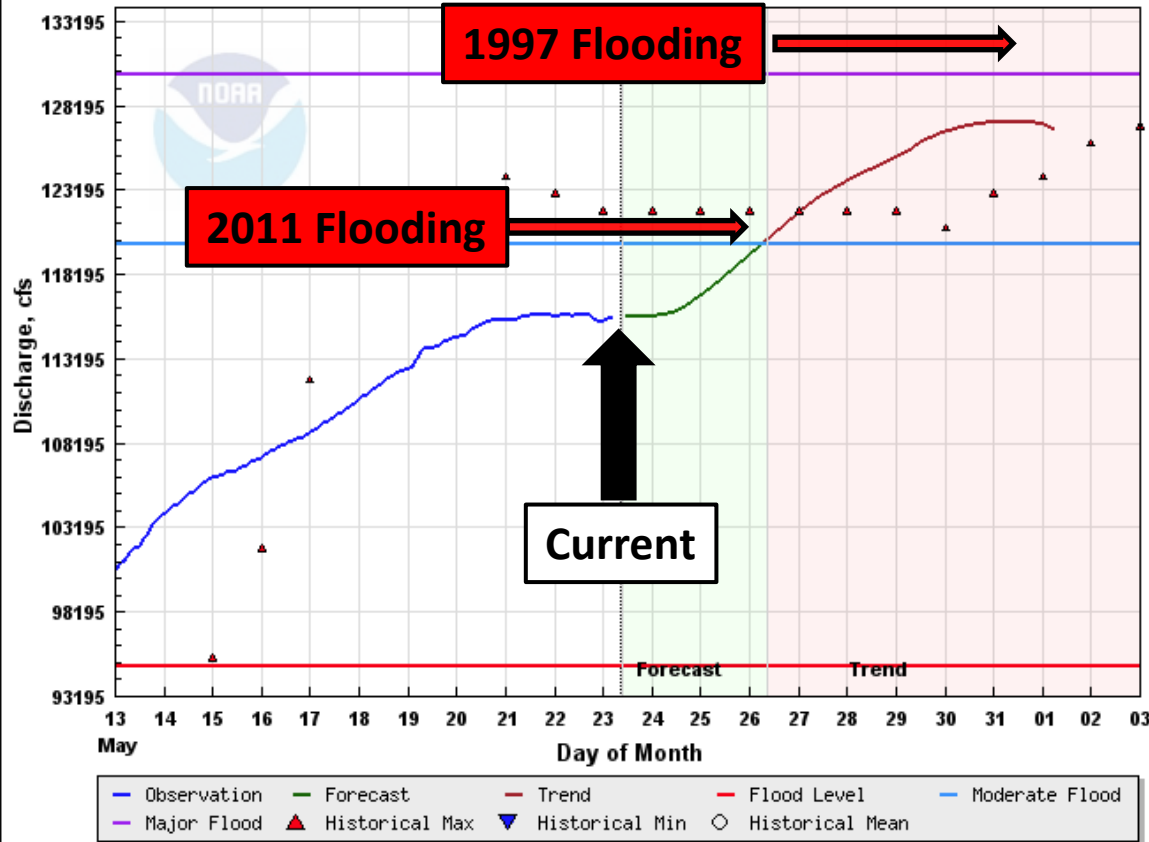
Kettle River @ Laurier



Pend Oreille River

PEND OREILLE - ALBENI FALLS DAM (ALFW1)

Latest Observation: 115619 cfs 05/23/2018 04:00 PDT



Forecast Created: 05/23/2018 05:06 PDT

Plot Created: 05/23/2018 09:06 PDT

Trends:

Last 4 runs

lowered crest

130,000 → 127,000

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

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Summary

- Temperatures above normal with chance of showers and thunderstorms through Friday.
- Holiday Weekend: Cooler, showers Saturday then warming and dry.
- Rivers in northcentral WA will see another rise through the week, although trends continue to lower next crest. Pend Oreille river will continue to rise into early next week.
- A return to higher flows could be problematic for saturated levees, road beds, and eroding river banks.

