

Special Hydrology Briefing

Tuesday–May 22, 2018

National Weather Service

Spokane, WA

Jeremy Wolf

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

www.weather.gov/Spokane

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

Weather Outlook

- **Tuesday:** Warm and Dry. Widespread 80s.
- **Wednesday and Thursday:** Continued warm. Chance of showers and thunderstorms.
- **Friday/Saturday:** Cooling trend into 70s and low 80s. Chance of showers and thunderstorms.
- **Sunday/Memorial Day:** Drying trend. Warming up?
- **Outlook for next week:** Warmer than normal but not as hot as recent warm spells, mainly mountain showers

Field Hazards This Weekend

Tuesday:

- Temperatures 10-15 degrees above normal.

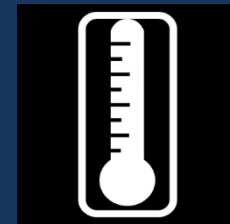
- Heat and Sun Exposure



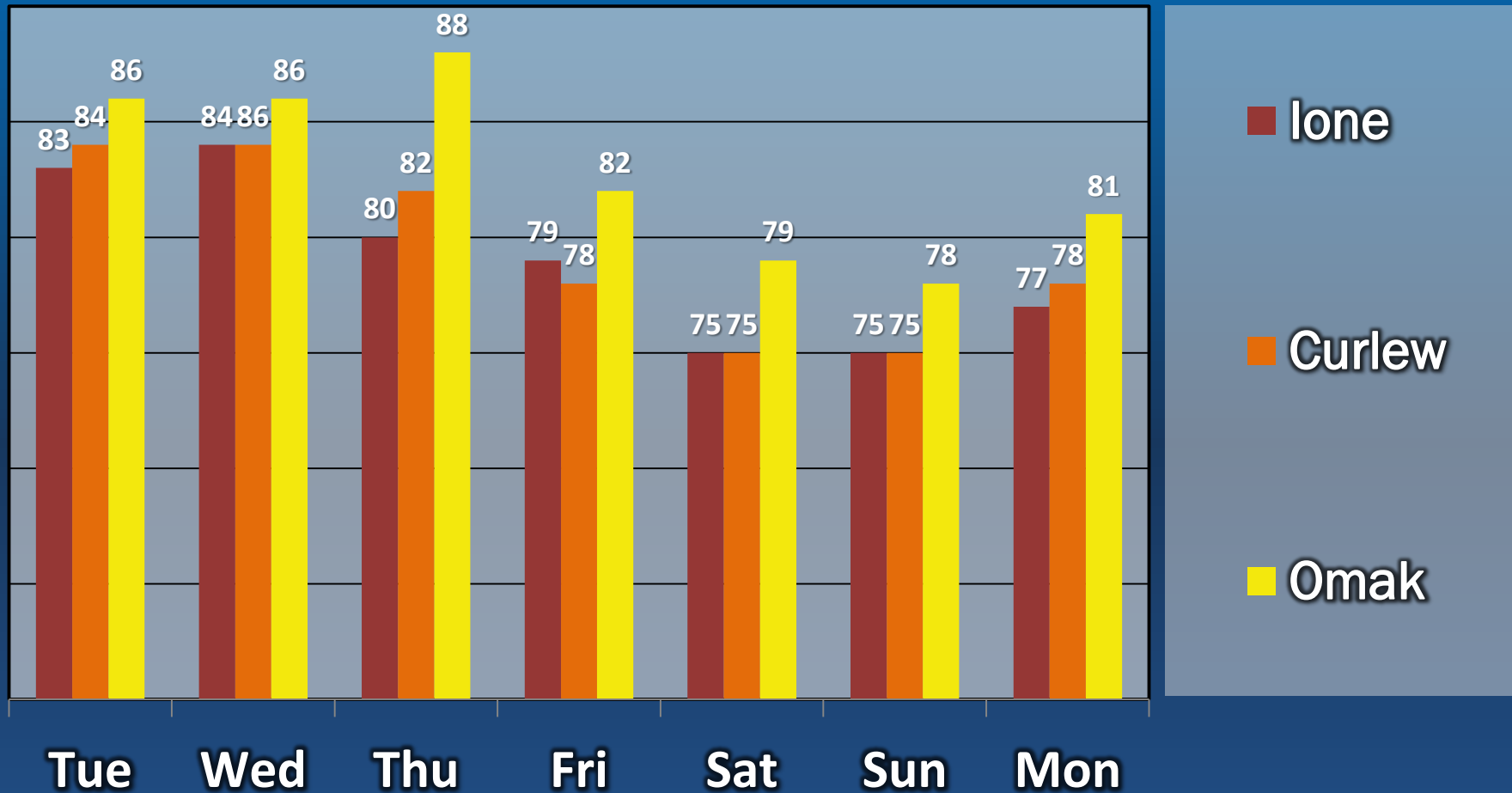
Wednesday through Saturday:

- Temperatures remain well above normal through Thursday or Friday.

- Heat, sun exposure, and lightning



High Temperature Trend



Steady warming through midweek.

Current & Forecast Flooding



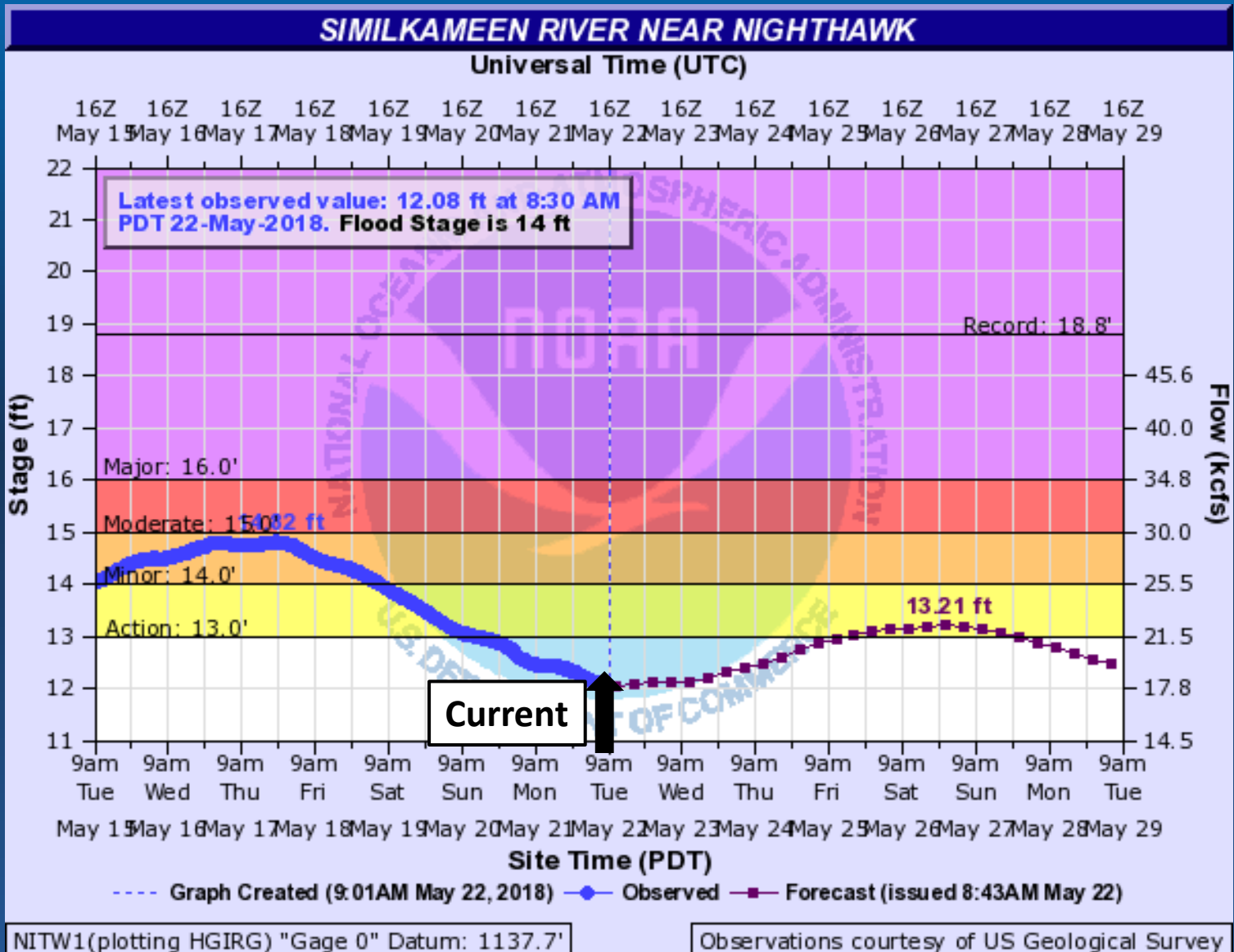
River	Current Flood State	Forecast Flood State
Okanogan	Moderate	Moderate
Pend Oreille	Minor	Moderate
Lake Pend Oreille	Minor	Minor
Kettle	Below Flood	Near Flood
Stehekin	Near Flood	Minor
Methow	Below Flood	Near Flood
Similkameen	Below Flood	Near Flood
Kootenai	Near Flood	Near Flood
St. Joe	Below Flood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

Okanogan & Ferry Counties

There are numerous small creeks, rivers and lakes that will experience renewed flooding this week due to warming temperatures.



Similkameen River



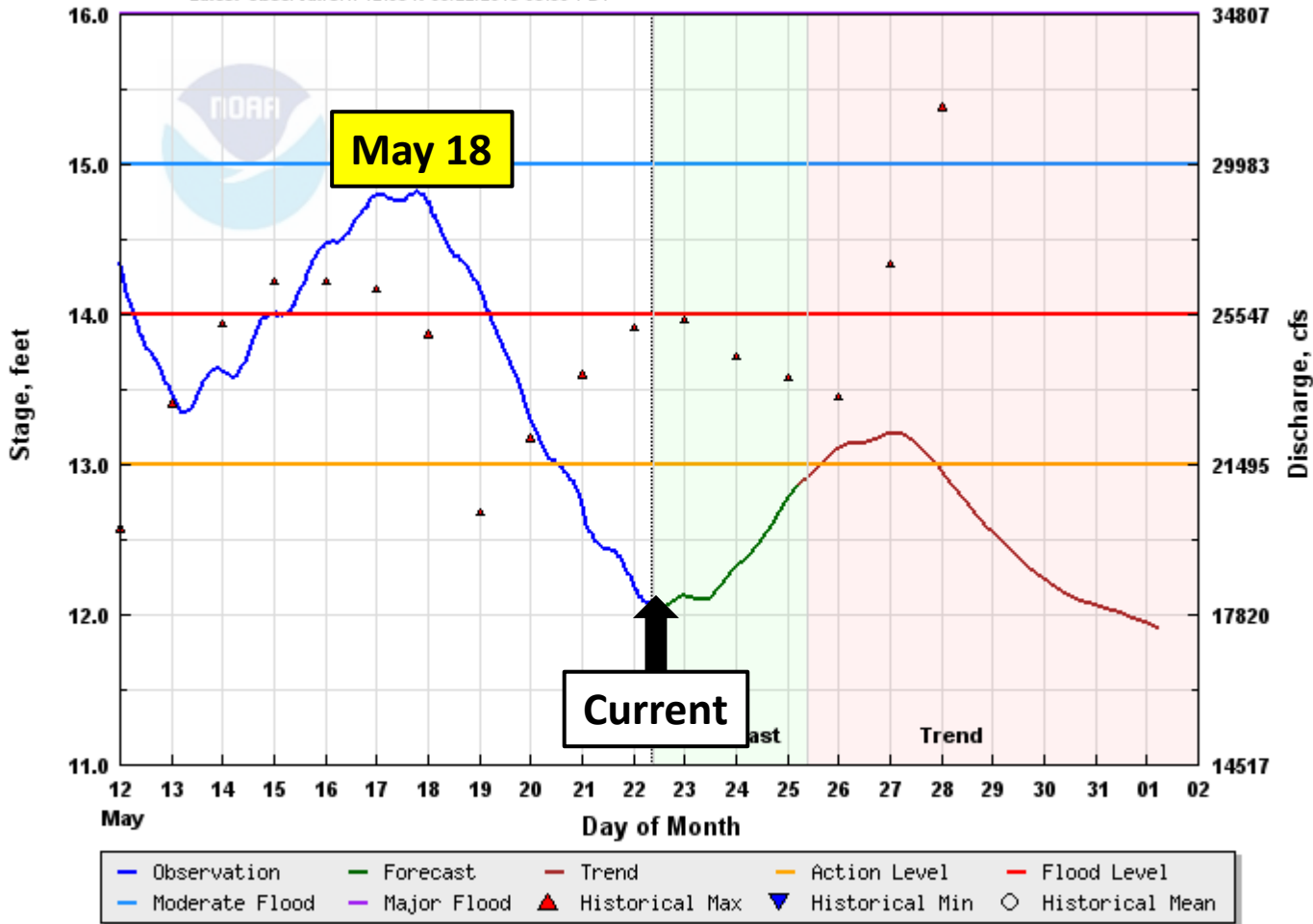
NITW1(plotting HGIRG) "Gage 0" Datum: 1137.7'

Observations courtesy of US Geological Survey

Similkameen River

SIMILKAMEEN - NEAR NIGHTHAWK (NITW1)

Latest Observation: 12.08 ft 05/22/2018 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

Forecast Created: 05/22/2018 08:43 PDT
Plot Created: 05/22/2018 09:14 PDT

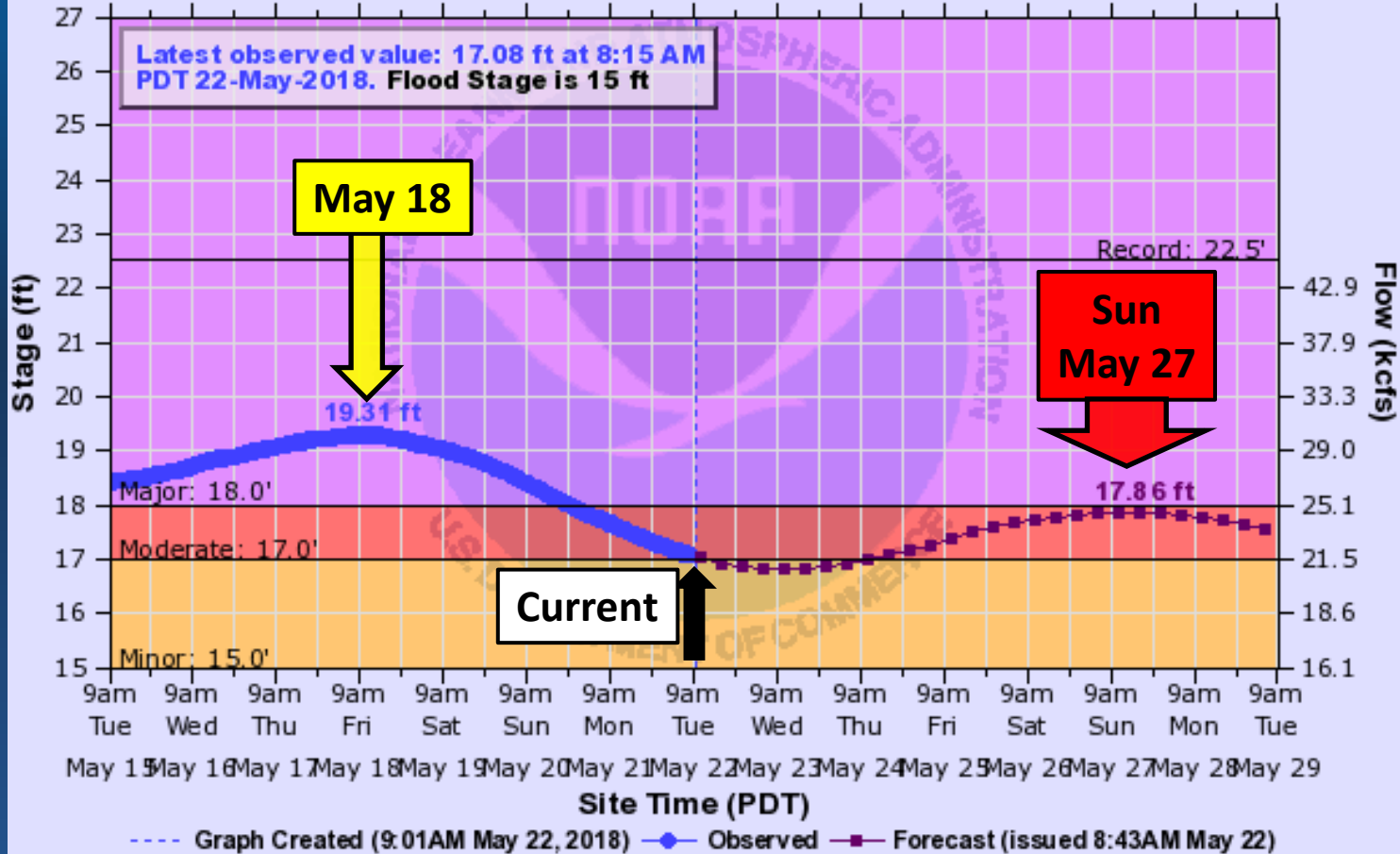
www.nwrfc.noaa.gov/

Okanogan River

OKANOGAN RIVER NEAR TONASKET

Universal Time (UTC)

16Z 16Z 16Z 16Z 16Z 16Z 16Z 16Z 16Z 16Z 16Z 16Z 16Z 16Z 16Z
 May 15 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



Sustained high flows

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

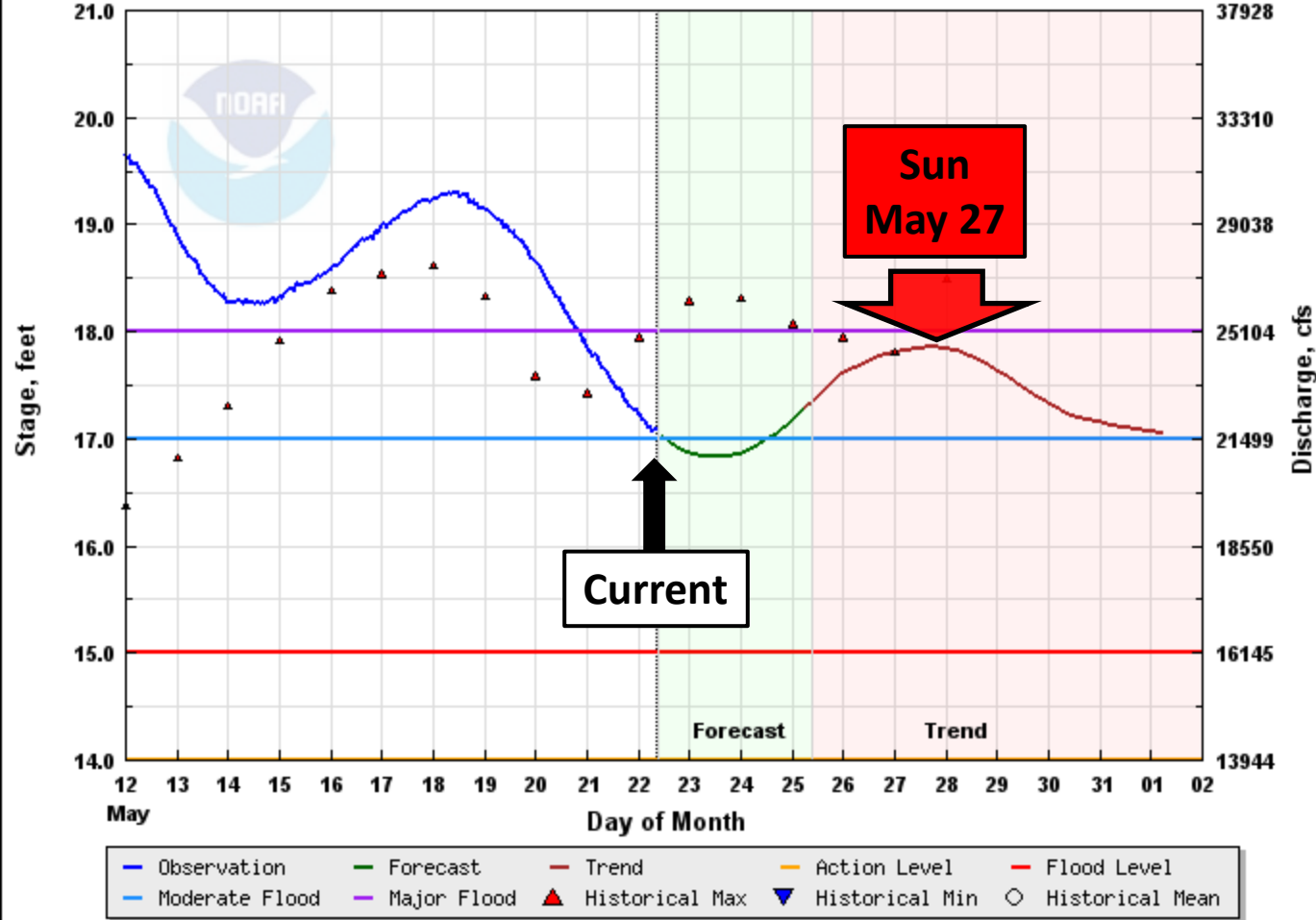
TONW1 (plotting HGIRG) "Gage 0" Datum: 860.78'

Observations courtesy of US Geological Survey

Okanogan River

OKANOGAN - NEAR TONASKET (TONW1)

Latest Observation: 17.08 ft 05/22/2018 08:15 PDT



Forecast Created: 05/22/2018 08:43 PDT

Plot Created: 05/22/2018 09:15 PDT

Observations Provided by USGS

Historic Crests

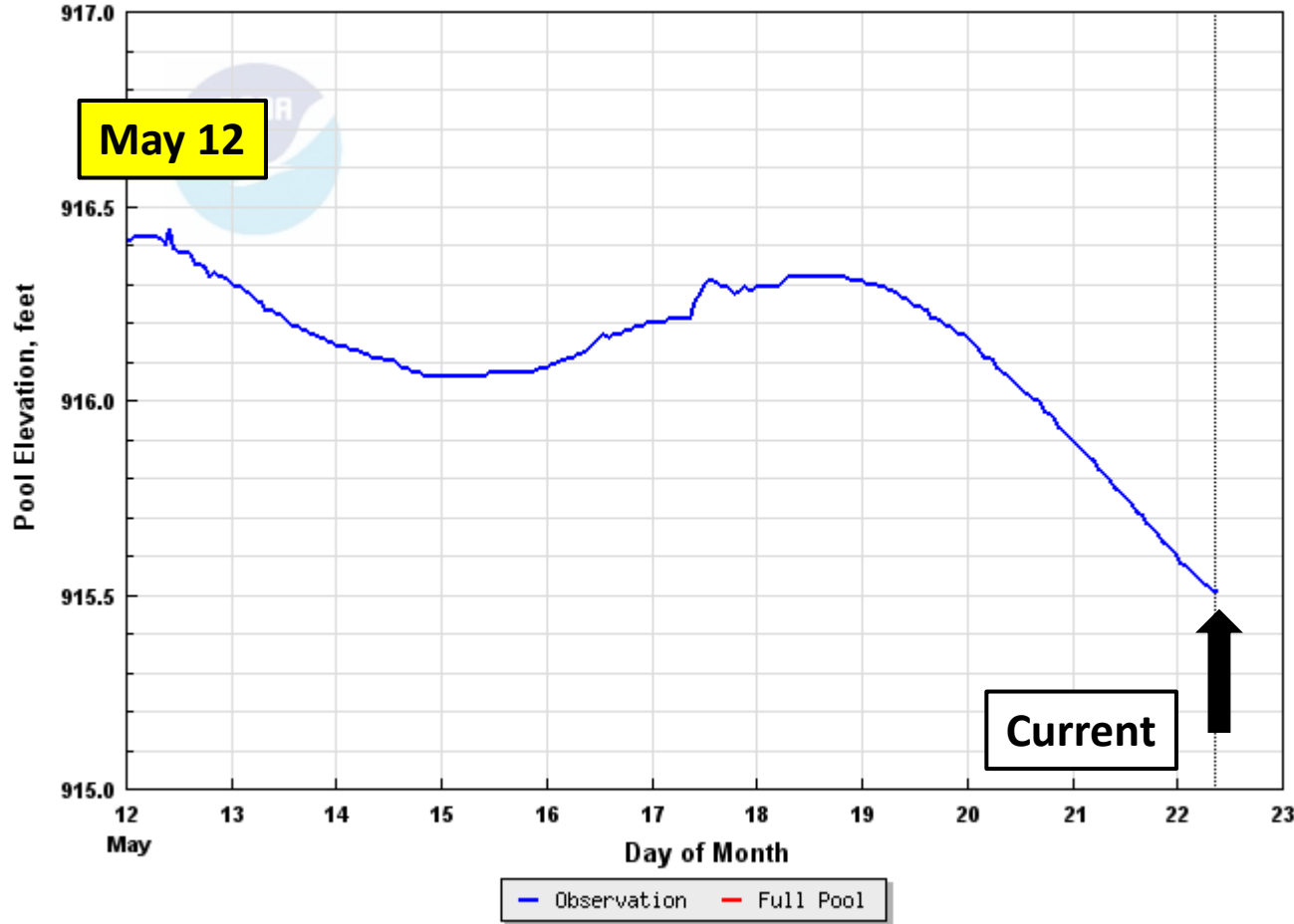
- (1) 22.54 ft on 06/02/1972
- (2) 21.79 ft on 05/31/1948
- (3) 19.71 ft on 05/12/2018
- (4) 18.79 ft on 06/19/1974
- (5) 18.66 ft on 06/18/1950
- (6) 18.31 ft on 04/27/1934
- (7) 18.12 ft on 06/14/1955
- (8) 18.05 ft on 05/17/1949
- (9) 17.80 ft on 05/18/1997
- (10) 17.62 ft on 06/11/2011

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Lake Osoyoos

OKANOGAN - OSOYOOS LAKE (OKGW1)

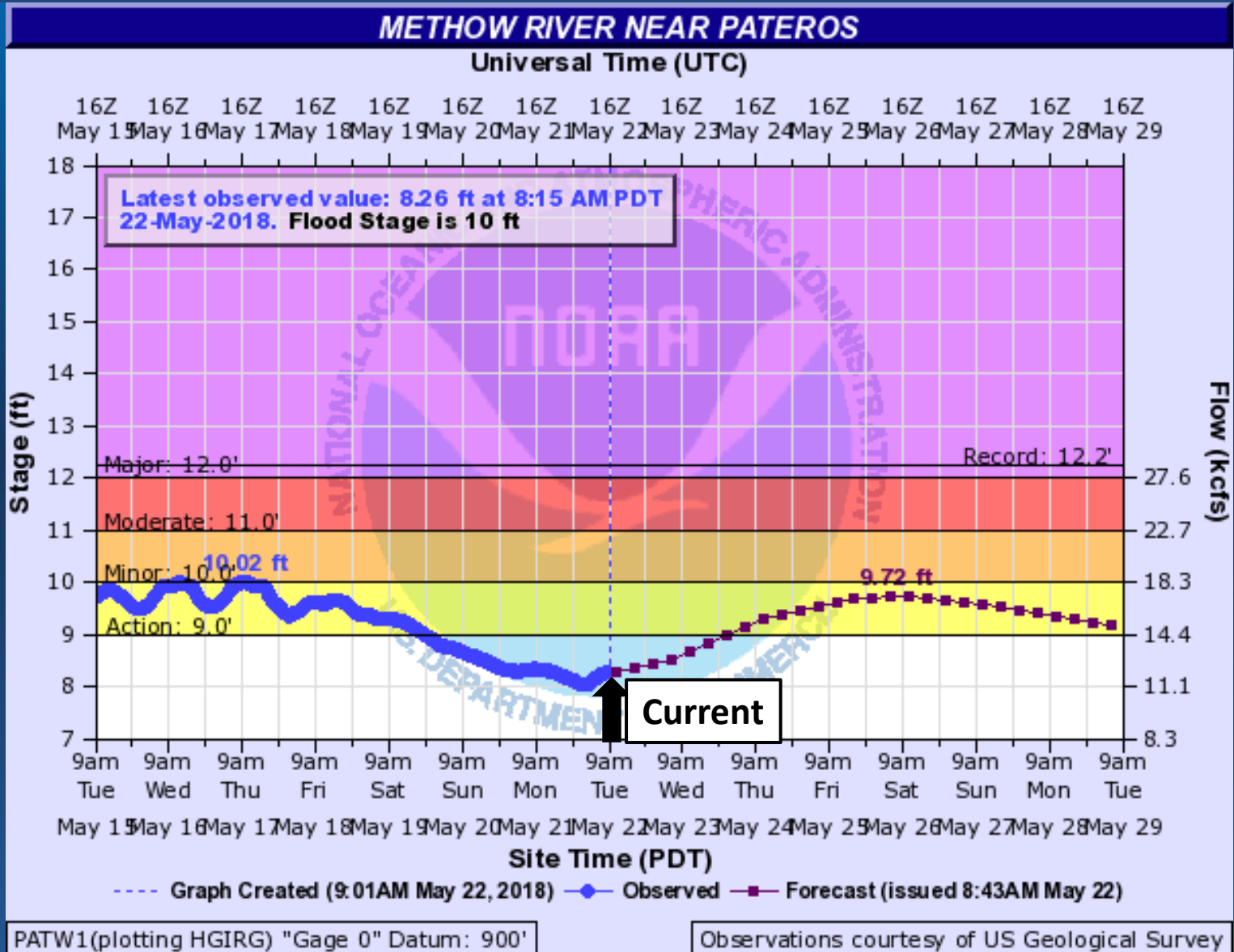
Latest Observation: 915.51 ft 05/22/2018 09:00 PDT



Plot Created: 05/22/2018 09:13 PDT

Flooding occurs above 914ft +
Winds cause wave erosion
My see slight additional rises later this week as Similkameen rises again

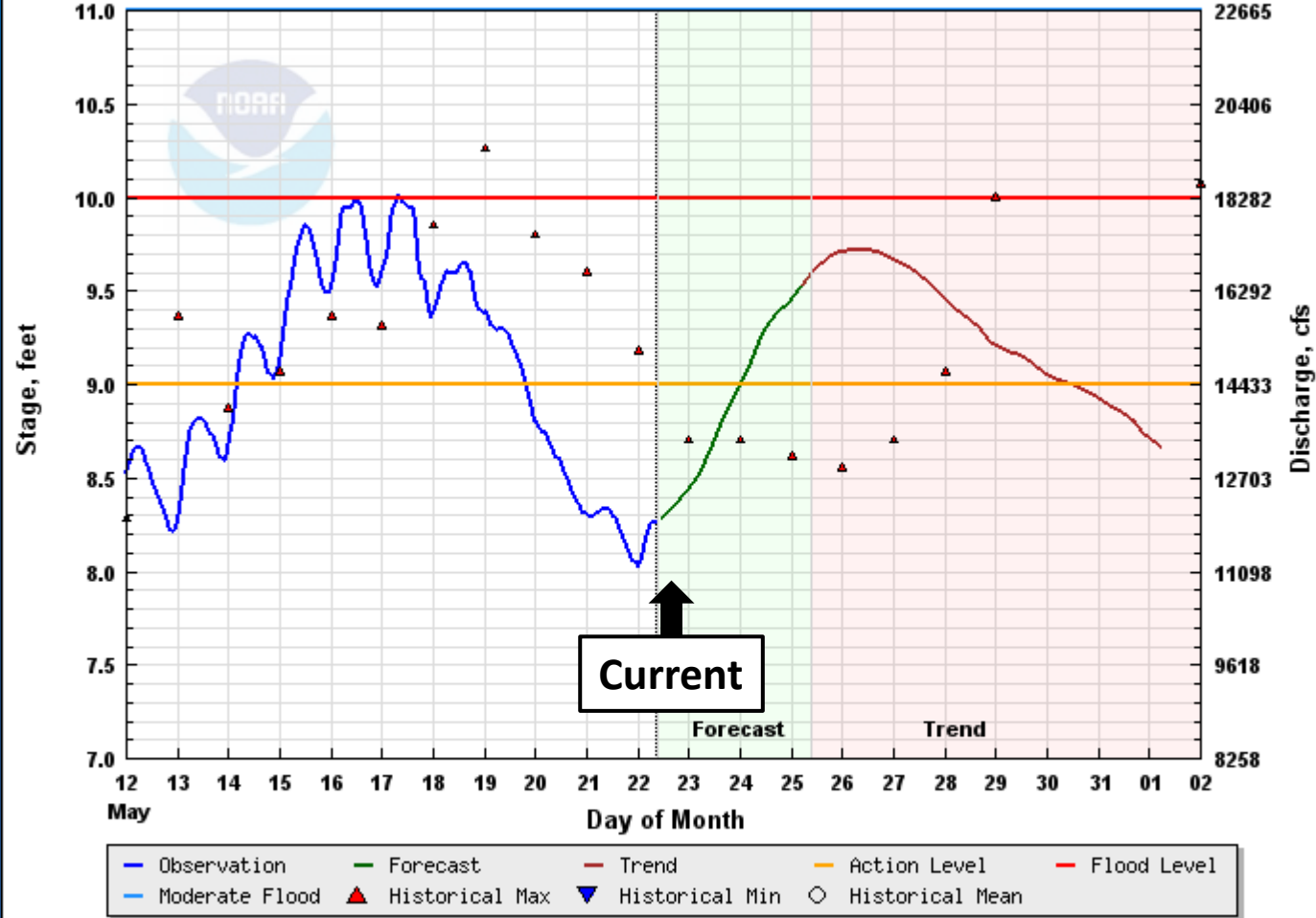
Methow River



Methow River

METHOW - NEAR PATEROS (PATW1)

Latest Observation: 8.26 ft 05/22/2018 08:15 PDT



Forecast Created: 05/22/2018 08:43 PDT
Plot Created: 05/22/2018 09:16 PDT

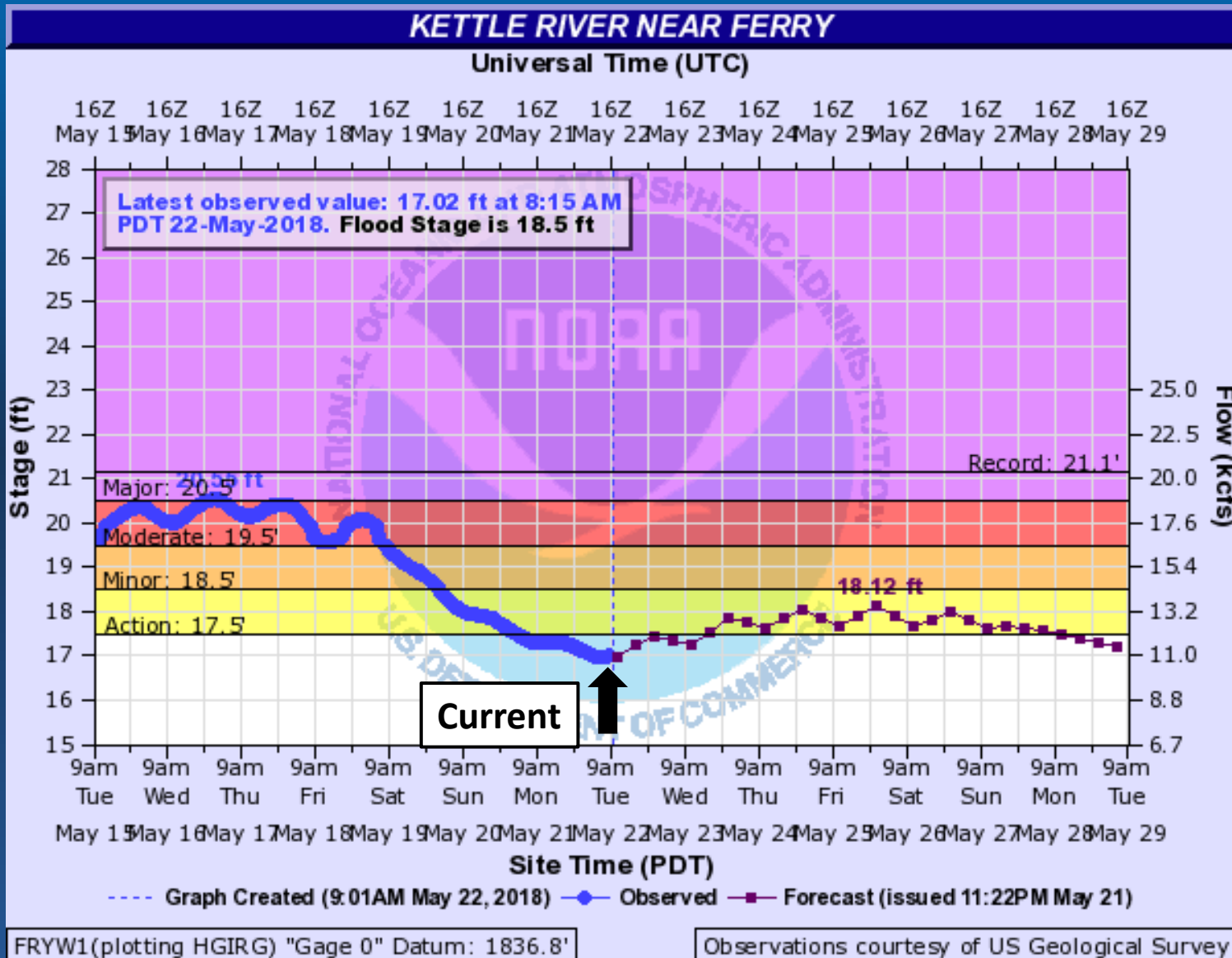
Observations Provided by USGS

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

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Kettle River @ Ferry



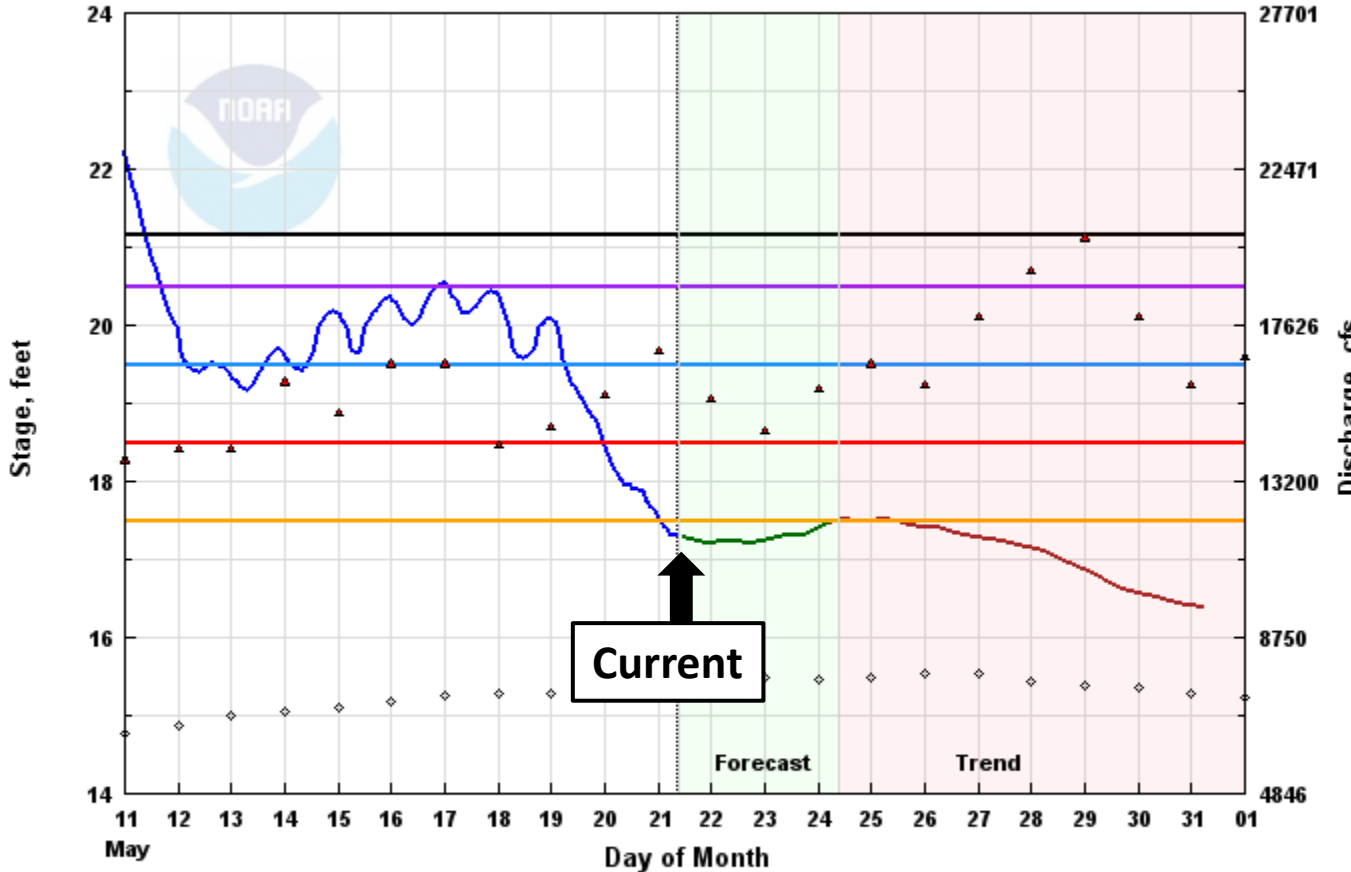
FRYW1(plotting HGIRG) "Gage 0" Datum: 1836.8'

Observations courtesy of US Geological Survey

Kettle River

KETTLE - NEAR FERRY (FRYW1)

Latest Observation: 17.31 ft 05/21/2018 08:15 PDT



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

Forecast Created: 05/21/2018 08:53 PDT

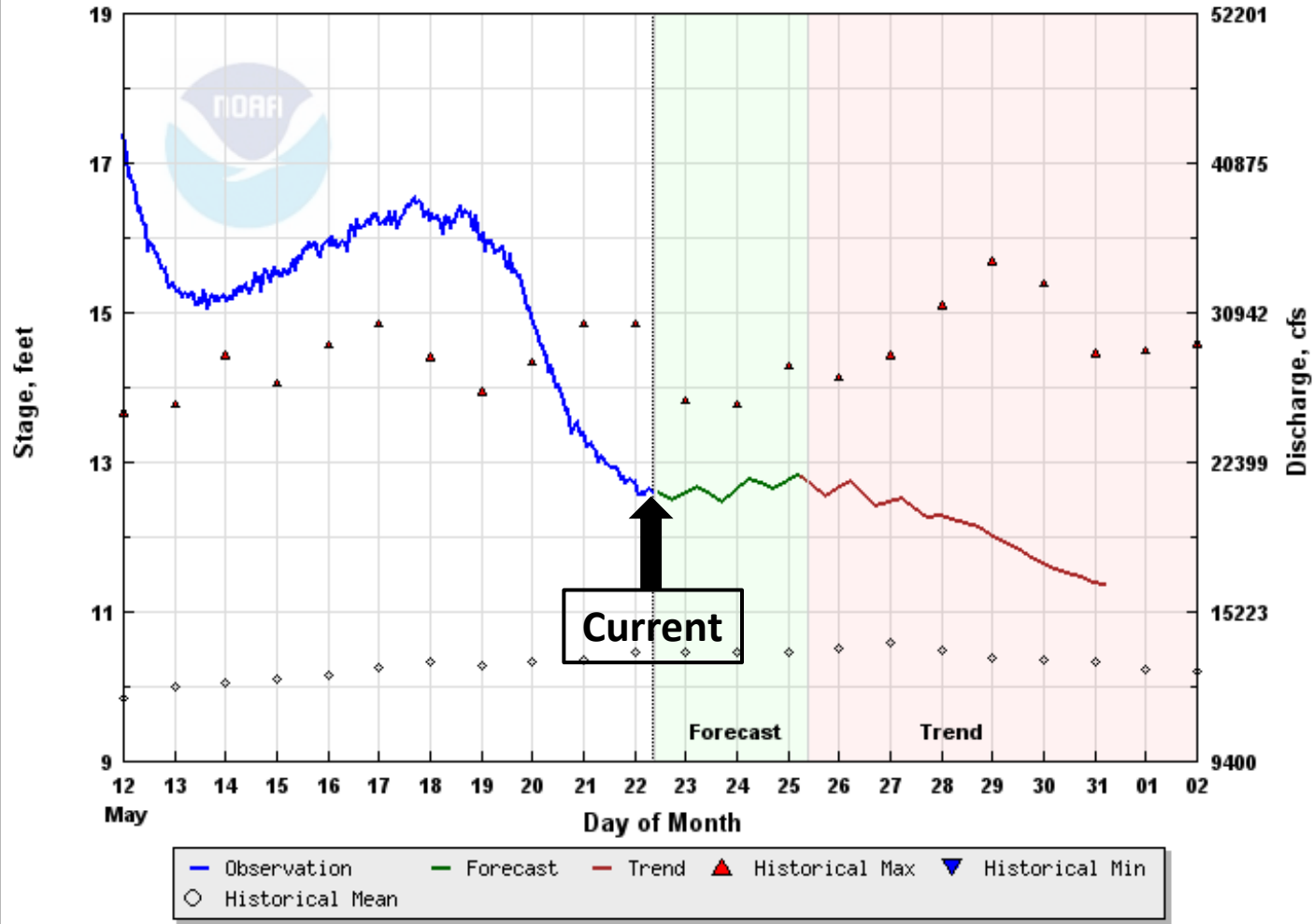
Plot Created: 05/21/2018 09:22 PDT

Observations Provided by USGS

Kettle River @ Laurier

KETTLE - AT LAURIER (LAUW1)

Latest Observation: 12.58 ft 05/22/2018 08:15 PDT

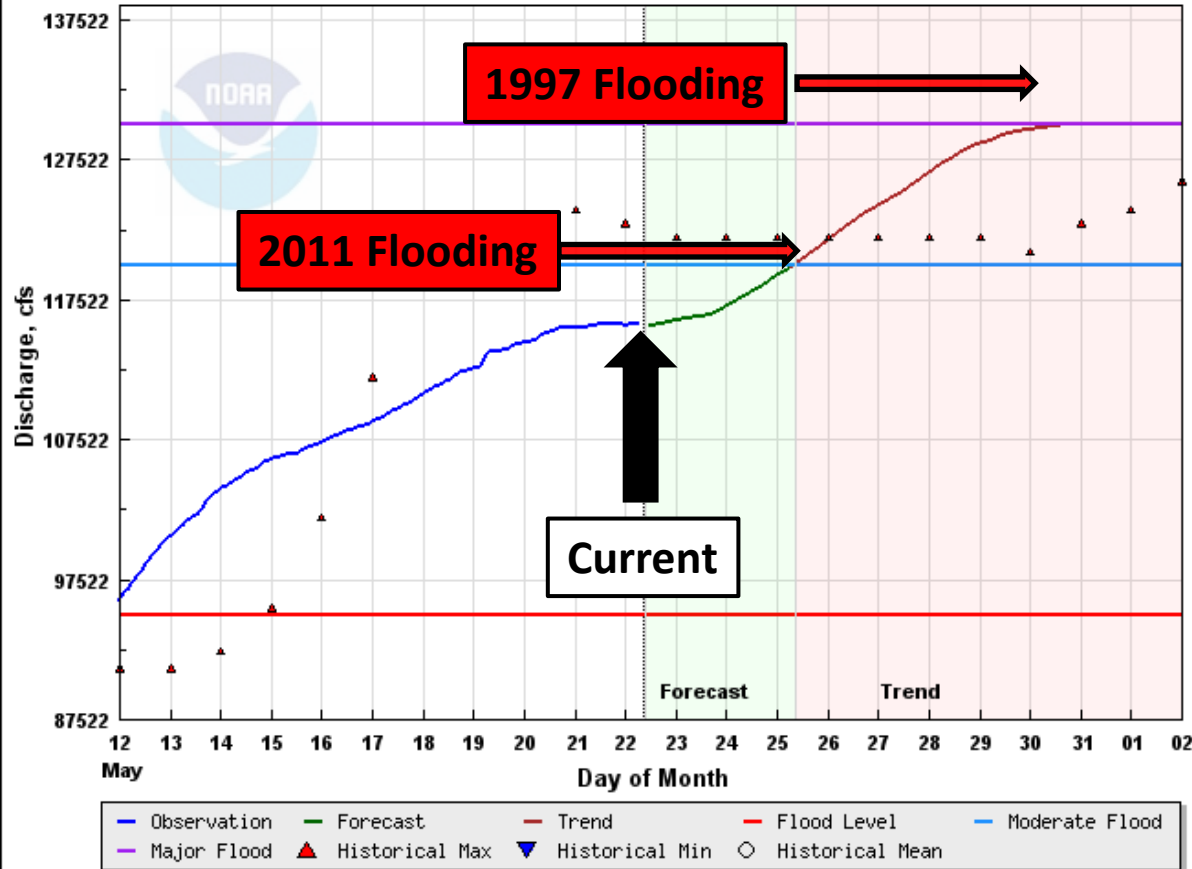


Forecast Created: 05/21/2018 23:22 PDT
 Plot Created: 05/22/2018 09:19 PDT

Pend Oreille River

PEND OREILLE - ALBENI FALLS DAM (ALFW1)

Latest Observation: 115794 cfs 05/22/2018 06:00 PDT



Forecast Created: 05/22/2018 05:24 PDT
Plot Created: 05/22/2018 09:20 PDT

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 well above normal. Chance of showers and thunderstorms Wednesday through Saturday.
- Rivers in northcentral WA will see another rise through the week, although not as high as the previous flood 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.

