

<b>NWS Form E-5</b> U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE  <b>MONTHLY REPORT OF          RIVER AND FLOOD CONDITIONS</b>	<b>HYDROLOGIC SERVICE          AREA:</b> Pocatello, Idaho
	<b>REPORT FOR:</b>  <b>MONTH: June YEAR: 2010</b>
<b>TO:</b> Hydrologic Operations Division, W/OH2 National Weather Service National Oceanic and Atmospheric Administration Silver Spring, Maryland 20910	<b>SIGNATURE</b>  Troy Lindquist Service Hydrologist
	<b>DATE: July 15, 2010</b>
When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts and hydrologic products issued (NWS Instruction 10-924).	

**An X in this box indicates that no flooding has occurred for the month within this hydrologic service area.**

**Summary**

Cool conditions dominated across the HSA in June and above normal precipitation occurred over much of the area. The mountains in the Wood and Lost River Basins received near 150% of average precipitation for the month while the mountains across the Upper Snake River Basin received near 225% of average. Consecutive days of moderate to heavy rainfall on top of snowmelt resulted in saturated soils and small stream flooding across northwest Blaine County and northwest Custer County in early June. Rain and snowmelt also brought flooding to portions of Henrys Fork River and Teton River near St. Anthony and Rexburg. High flows on the Snake River also caused some flooding in the Blackfoot area.

The cool and wet conditions tempered water supply concerns. These conditions delayed the melting of high elevation snowpack while the major water storage reservoirs were able to fill and the high demand for irrigation water was delayed.

**Small Stream Flooding**

June 4 through June 10: Weather spotters and campers indicated flooding of small streams across northwest Custer County and northwest Blaine County. Valley Creek flooded portions of Valley Creek Road in Stanley and high water threatened several structures near the creek. One home in Stanley had water inside of it and some large concrete blocks from a retaining wall were displaced. Spotter reports indicated that Valley Creek receded to within its banks on Thursday, June 10. Flooding of backcountry roads and campgrounds occurred from Stanley south to the Alturus Lake and Beaver Creek areas. Custer County officials declared a local disaster declaration and about \$60,000 in road damage. Approximately 50 miles of road were damaged with two culverts and two roads washed out.

**River Flooding**

TEA11 – Teton River near St. Anthony – The river reached flood stage of 6.0 feet at 00:45 Z on June 7 and crested at 6.7 feet (5,851 cfs) at 12:45 Z on June 8. The water receded below flood stage at 05:30 Z on June 10. Observed flooding consisted of low land, pasture, and agricultural land near the

river in Fremont and Madison Counties. No homes were flooded but sandbags were placed around one home in Madison County near Sugar City. Minor bank erosion occurred along portions of the river levee in Fremont County. The water level was right at the top of the river levee in several places in Fremont County when it crested.

ANTI1 – Henrys Fork near St. Anthony – The river reached flood stage of 7.0 feet at 06:15 Z on June 8 and crested at 7.2 feet (9,565 cfs) at 15:30 Z on June 8. The water receded below flood stage at 22:15 Z on June 8. Observed flooding consisted of low land and pasture adjacent to the river near St. Anthony. One home near the river had shallow water flowing across the driveway and yard.

REXI1 – Henrys Fork near Rexburg – The river reached flood stage of 9.5 feet at 22:00 Z on June 6 and crested at 11.3 feet (13,600 cfs) at 14:15 Z on June 9. The river receded below flood stage at 22:15 Z on June 13. Much of Beaver Dick State Park just off Highway 33 was flooded as well as pasture, agricultural land, and other low lying areas near the river between County Roads 4000 N and 2000 N. Flooding of low lands and pasture was observed extending approximately 1 mile east of the river along Highway 33.

SNAI1 – Snake River at Blackfoot – The river reached flood stage of 10.0 feet at 22:45 Z on June 10 and crested at 10.4 feet (22,150 cfs) at 19:00 Z on June 14. The river receded below flood stage at 21:30 Z on June 15. Minor flooding of low lands adjacent to the river occurred in the Rose area north of Blackfoot and south of Blackfoot upstream from Tilden Bridge.

**Hydrologic Warnings and Forecasts**

A number of methods were utilized to disseminate information prior to and during this event about significant rainfall, rapid snowmelt, and flooding. Hydrologic Outlooks, Hazardous Weather Outlooks, Area Forecast Discussions, and Weather Story Graphics via the internet were used to disseminate information. Additionally, a number of briefings via telephone and email exchanges took place with emergency managers. Numerous coordination phone calls took place between WFO Pocatello staff and the Northwest River Forecast Center. Interaction with the river forecast center staff was professional and very helpful to hydrologic operations at WFO Pocatello. The Service Hydrologist spent several hours touring flooded areas and discussing NWS services with the emergency manager from Fremont County during the flood event. Feedback from emergency managers was positive and a number of them noted that they keep abreast of the river levels and forecasts via NWS internet sites. Touring flooded areas in Fremont and Madison Counties revealed that the “major flood stage” categories for TEAI1 and REXI1 need to be re-evaluated as observed flooding did not appear to reflect major flooding for these areas.

<b>River Forecast Point</b>	<b>Flood Warning Issued</b>	<b>Flood Stage Reached</b>	<b>Lead Time</b>
TEAI1	6/06:21Z	7/00:45Z	18 hrs 24 min
ANTI1	8/01:38Z	8/06:15Z	4 hrs 37 min
REXI1	6/07:57Z	6/22:00Z	14 hrs 3 min
SNAI1	10/17:47Z	10/22:45Z	5 hrs 21 min

cc: Jeff Zimmerman, Western Region HCSD  
Harold Opitz, Hydrologist in Charge, Northwest River Forecast Center  
Hydrometeorological Information Center  
Rick Dittmann, Meteorologist in Charge, Pocatello, Idaho  
Jay Breidenbach, Senior Service Hydrologist, Boise, Idaho  
Pocatello WFO Forecasters and HMTs