March 2018 Wyoming Spring Snowmelt Flood Outlook

Quick Synopsis:

Mountain snowpack and associated snow water equivalents (SWEs) across central through northwestern Wyoming were generally **above** to **much above** average by late March; while SWEs across basins in southern Wyoming continued to be generally **below** average. SWEs at the peak snowmelt runoff elevations (8,500' – 10.000') were the <u>highest</u> across the Shoshone and Upper Yellowstone Basins at **150** to **160** percent of median. The Upper Bear and Little Snake Drainages had SWEs at **75** to near **85** percent of median at the peak snowmelt runoff elevations.

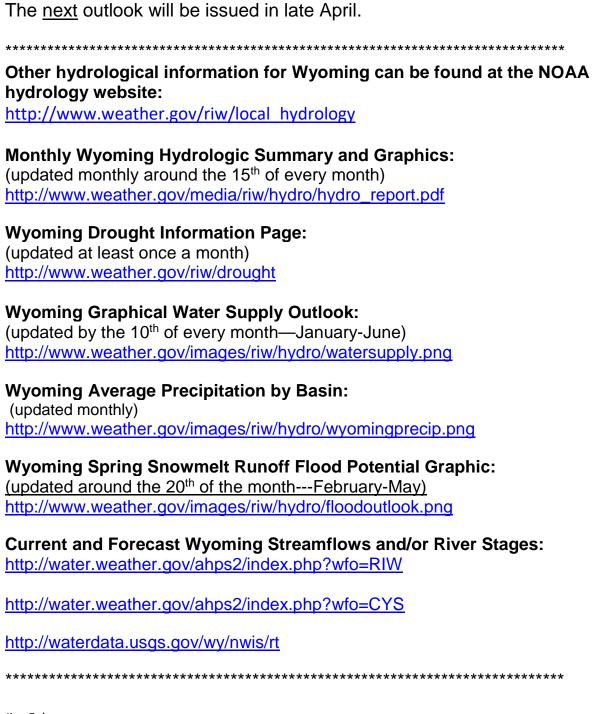
This outlook is based on various diverse hydrological factors such as snow water equivalents (SWEs) in the mountain snowpack, basin morphology (i.e. how basins respond to snowmelt runoff), antecedent soil moisture, biological factors (bark beetle kill/spruce blight), low elevation snow depths, and likely temperature and precipitation trends during late spring/early summer.

HIGHLIGHTS:

... Moderate to High potential for flooding associated with snowmelt runoff is expected across extreme lower portions of the Big Wind Watershed, over upper sections of the South Fork of the Shoshone Watershed, and along headwater creeks and streams along the west side of the Big Horn Mountains...

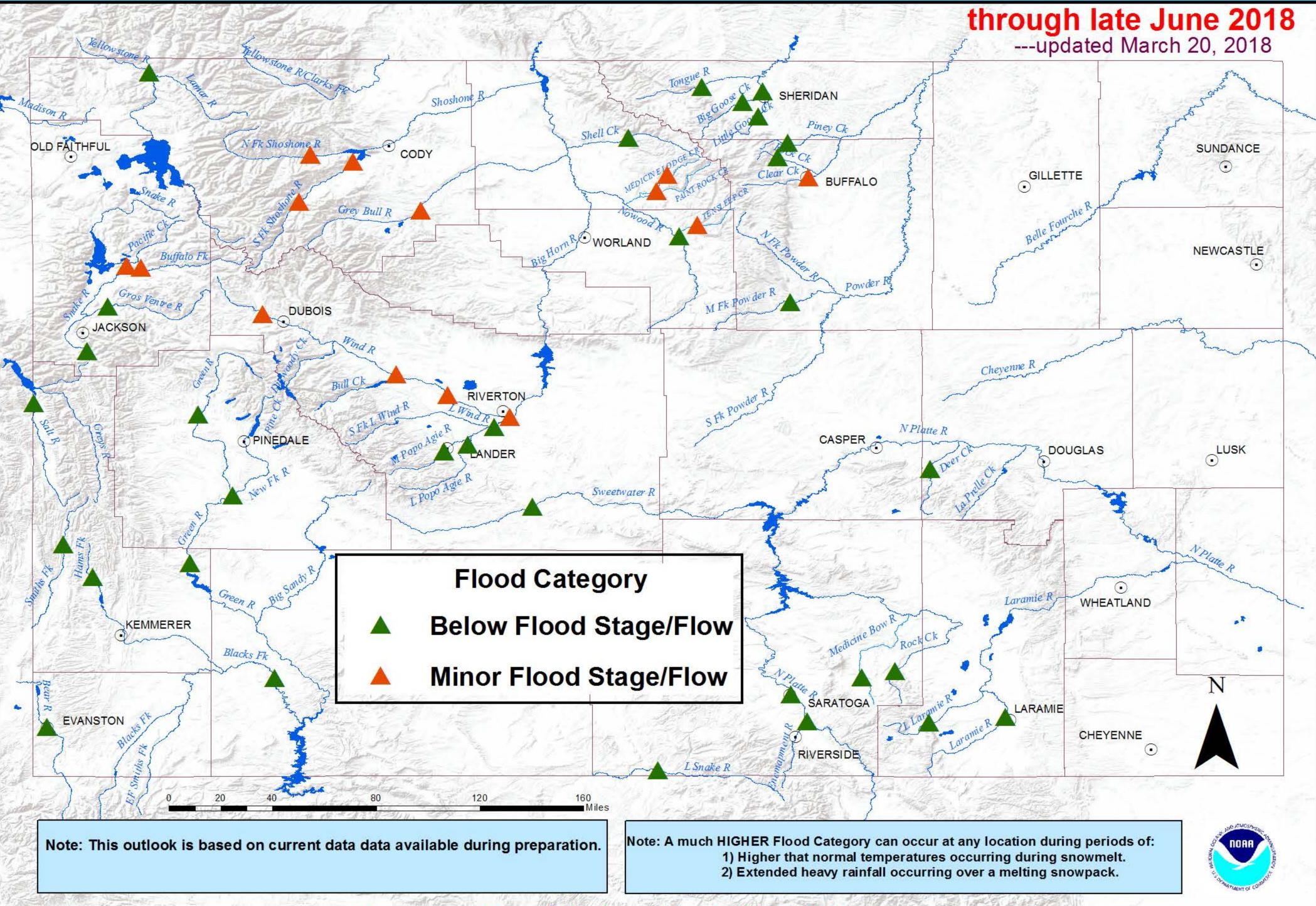
... Moderate potential for snowmelt runoff flooding is forecasted across the middle to lower portions of the North/South Forks of the Shoshone Basin, upper to middle sections of the Big Wind Watershed, and along headwater streams in the upper Snake River Basin...

...All other of headwater basins across Wyoming can expect a generally potential for flooding due to springtime snowmelt runoff...



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Wyoming Spring Runoff Peak Flood Categories



Wyoming Spring Snowmelt Flood Potential Outlook

