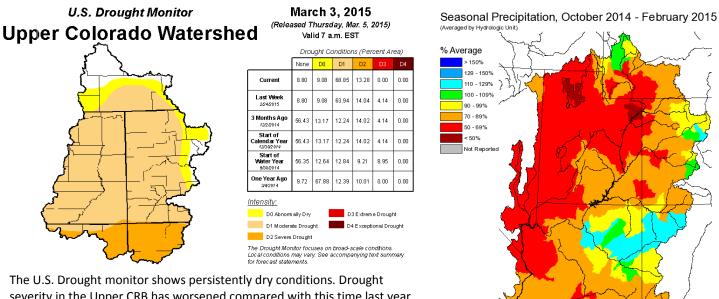


Historical context – Runoff in the CRB is tightly controlled by precipitation over a relatively small mountain headwaters area, mostly in western Colorado. Headwaters precipitation varies >2-fold from driest to wettest years with the frequency and location of Pacific jet stream/storm tracks. The precipitation variability gets amplified during conversion to runoff, so that flow at Lees Ferry varies >4-fold from driest to wettest years.



severity in the Upper CRB has worsened compared with this time last year, with 50% of the basin changing from D0 (abnormally dry) conditions to D1 (moderate drought). There has also been an increase in the area classified as D2 (severe drought).

WY2015 Precipitation (above, right) – The cumulative precipitation from October 1 through February 28 has been below average for many of the important contributing subbasins in Wyoming, Utah, and Colorado. Though much of the Little Colorado River basin (cyan-colored, in New Mexico and Arizona) is above average, it contributes a smaller proportion than the basins to the north. Currently we're in a neutral phase of ENSO (potentially transitioning to El Nino) and positive Arctic Oscillation and North Atlantic Oscillation phases. Oscillations are important for moisture sources and for pushing the jet stream north or south.

Upper Colorado River Basin SNOTEL, March 7: Precipitation (since 10/1):

84% of average Snow Water Equivalent (SWE): 88% of median

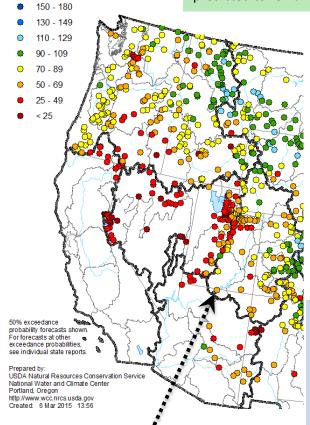
Spring and Summer Streamflow Forecasts as of March 1, 2015

Percent of 1981-2010 Average

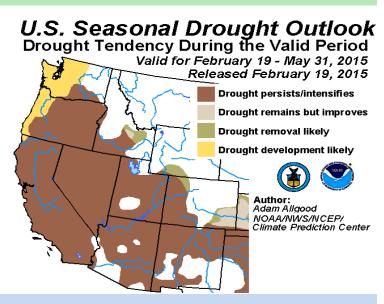
> 180

Spring-Summer 2013 Streamflow Forecasts (below, left) – conditions significantly below average are predicted to persist for all but the eastern-most locations in the Upper CBR (where there is a group of average to slightly above average forecasts).

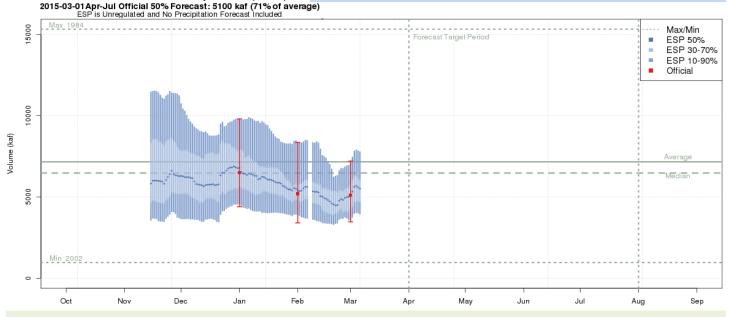
Drought Outlook through 5/31 (below, right) – the entire Colorado River Basin is predicted to remain in drought with potential for worsening conditions through May.



Colorado - Lake Powell- Glen Cyn Dam- At (GLDA3)



Forecasting Inflows to Lake Powell (below) – The Bureau of Reclamation begins forecasting inflows to Lake Powel in November based on Ensemble Streamflow Prediction (ESP). The prediction spread is calculated using current conditions and simulations of soil moisture, snow pack, regulation, and streamflow. The latest official April-through-July inflow forecast is 5.1 MAF (71% of average).



Overall - The Colorado River Basin water supply outlook is not good due to several years of below average precipitation draining reservoirs (Powell is 45% full). Although the snowpack in the Upper Basin is close to average for this time of year, it is not enough to overcome the conditions created by long term slack in supply. With continued or worsening drought conditions predicted for the remaining snow-accrual months, a system rebound seems unlikely this year.