

MWA Pecos River Forecast Performance Update

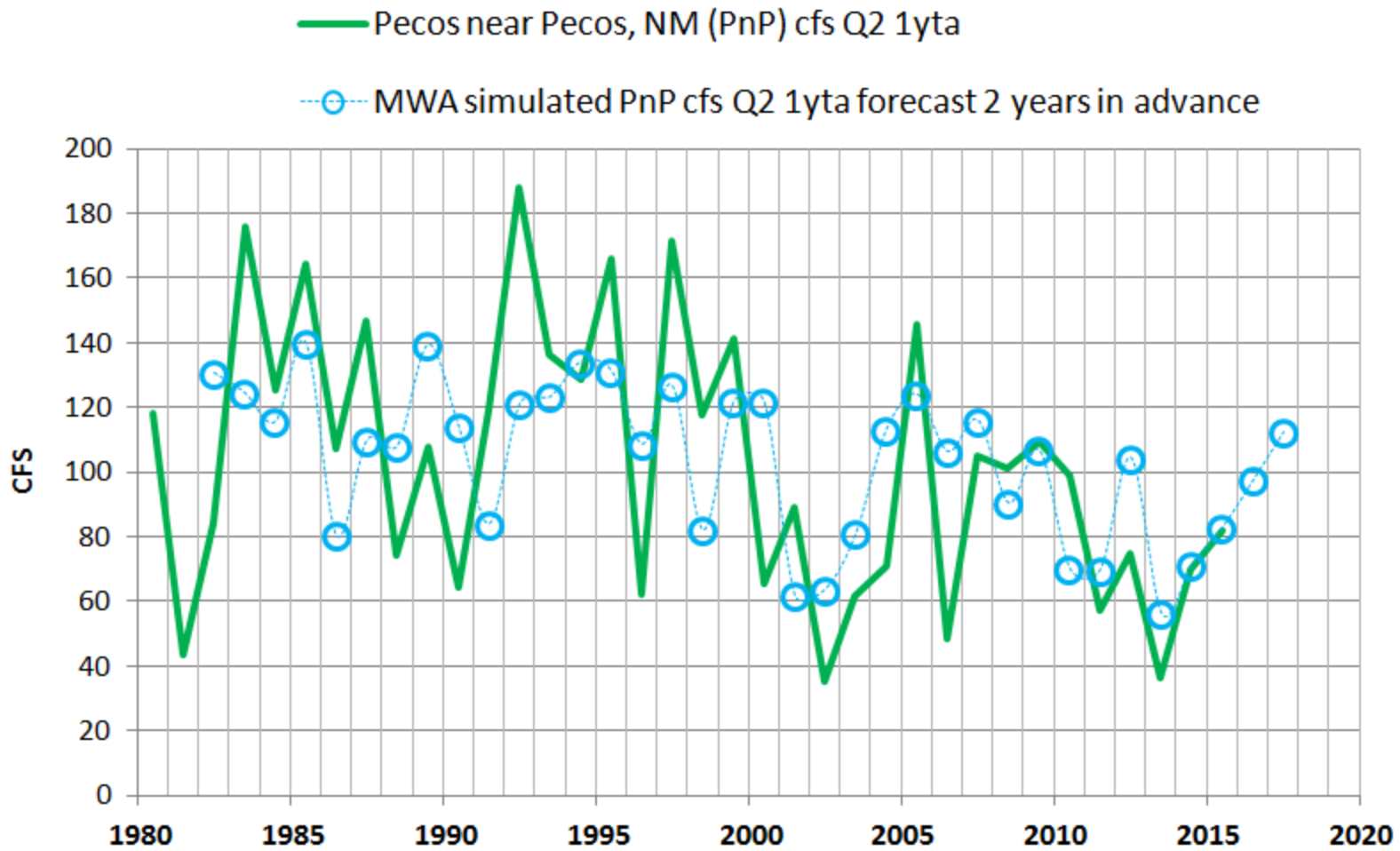
19 February 2017

This Update concerns our ***2-year-in-advance*** forecast of an annual average streamflow value computed for the middle of each calendar year

On January 18, 2016, New Mexico small business firm MW&A publicly posted this forecast (and the training forecasts) for the Pecos River near Pecos, NM (USGS 08378500 PECOS RIVER NEAR PECOS, NM).

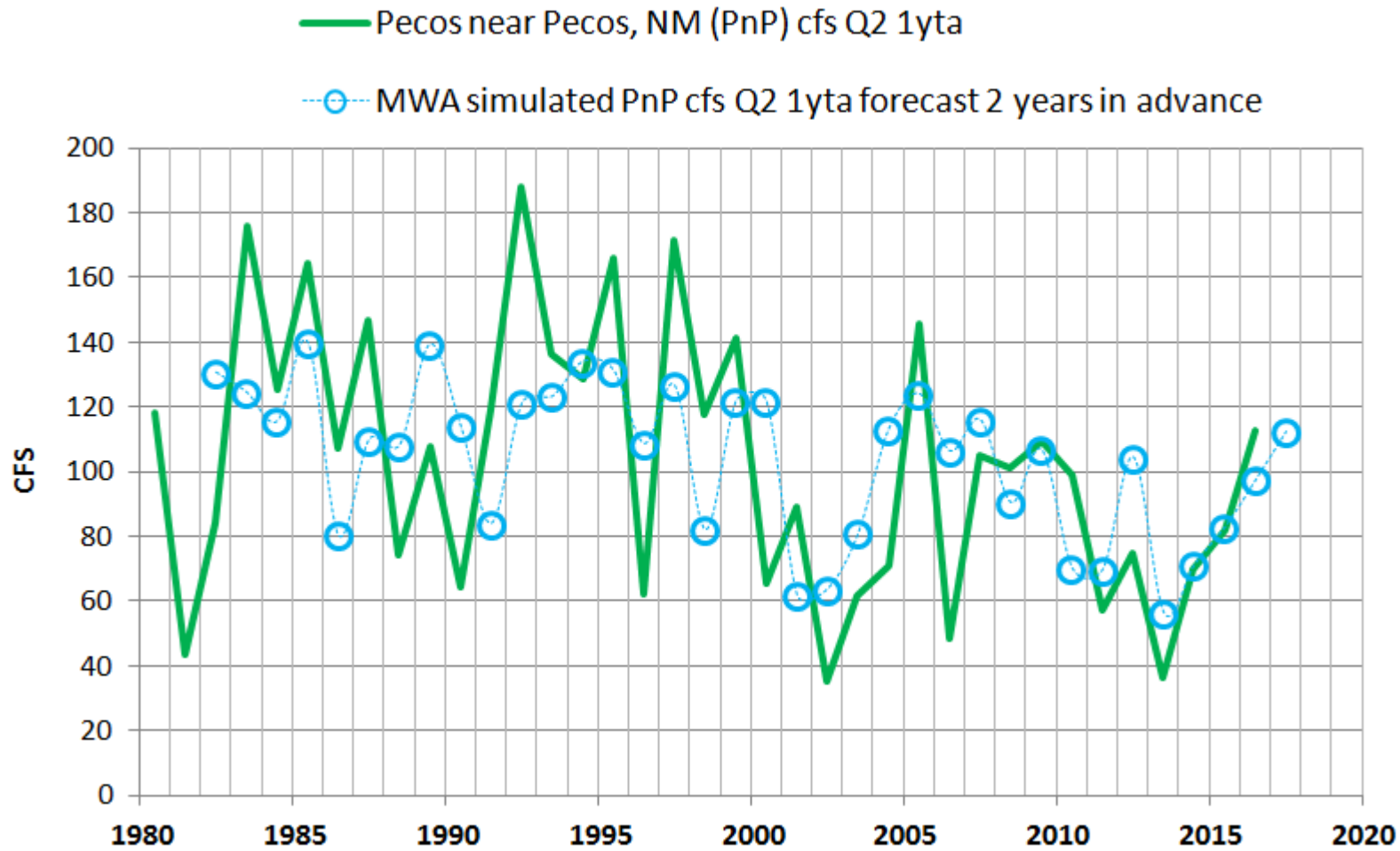
Any can confirm at this link:

<http://www.abeqas.com/mwa-makes-provisional-patent-filing-for-latest-hydroclimatological-forecasting-breakthroughs/>



This forecast also is archived at Wallace, M.G., 2016, [Ocean and Solar Based Climate Forecasts](#), invited presentation to Thirtieth Annual Rio Grande Basin Snowmelt Runoff Forecast Meeting, interagency annual climate meeting sponsored by United States Department of Agriculture Natural Resources Conservation Service (USDA NRCS) with SNOTEL features. Albuquerque, NM April 12th, 2016

In reviewing latest revised numbers from the USGS source, the MW&A prediction of flow can now be compared to the most recent comparable outcome as shown below:



The accuracy of our projection is self evident (contact us for quantitative performance measure). In particular, as predicted based on information ending 2 years prior, the flows went up.

Last year, as MW&A projected increasing moisture within the Southwestern US, our competitors projected the exact opposite.

“This problem is not going away and it is likely to get worse, perhaps far worse, as climate change unfolds,” Brad Udall, a climate research scientist at Colorado State University, told the [Desert Sun](#). “Unprecedented high temperatures in the basin are causing the flow of the river to decline. .”

<http://www.ibtimes.com/lake-mead-water-level-drops-record-low-drought-dries-colorado-river-basin-2372146>

“Lake Mead’s plight is a symbol of the crippling “mega drought” that has gripped California and other Southwest states for the past four years, with no sign of letting up. Scientists are calling the water shortage the worst in centuries. “Even at the middle-of-the-road scenario, we see enough warming and drying to push us past the worst droughts experienced in the region [since the medieval era](#),” [Benjamin Cook](#), a scientist at NASA's Goddard Institute for Space Studies in New York, [told National Geographic](#) in February.”

http://www.ibtimes.com/lake-mead-2015-photos-show-water-level-nearing-record-low-drought-threatens-southwest-1892211?utm_source=internal&utm_campaign=incontent&utm_medium=related2

Heavy snowfalls across the Southwestern US and California already seen for early 2017 are strong indicators that our projection of continued increase in moisture into 2017 will also be verified.

MW&A's forecasts are NOT based upon

snowpack measurements, nor upon
global circulation models (GCMs), nor upon
conventional auto-regression methods

Rather, our forecasts ARE based upon

research advanced by Michael Wallace as a practicing
hydrologist and Ph.D. student at the University of New Mexico.

Contact Information:

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MW&A applies our unique approach, grounded in best stochastic hydrologic practices, in producing any forecasts and analyses, and in analyzing past forecasts/analyses and forecasts/analyses by others. MW&A makes no further representations on forecast performance or accuracy. Customers are cautioned and advised to regard that all hydroclimatologic exercises are subject to extensive uncertainty.

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