

Watershed Week

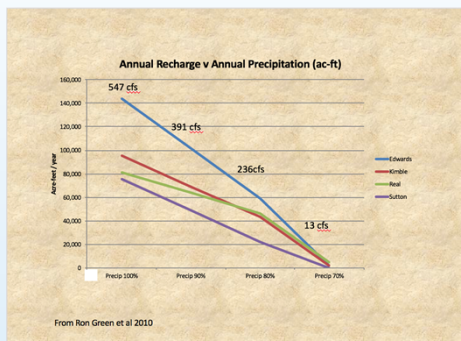
in Review

January 20, 2017



Great time to be on the
Llano

Llano River and dry times



Last week's newsletter contained the above graph showing how recharge approaches zero as annual precipitation drops to 70% of average.

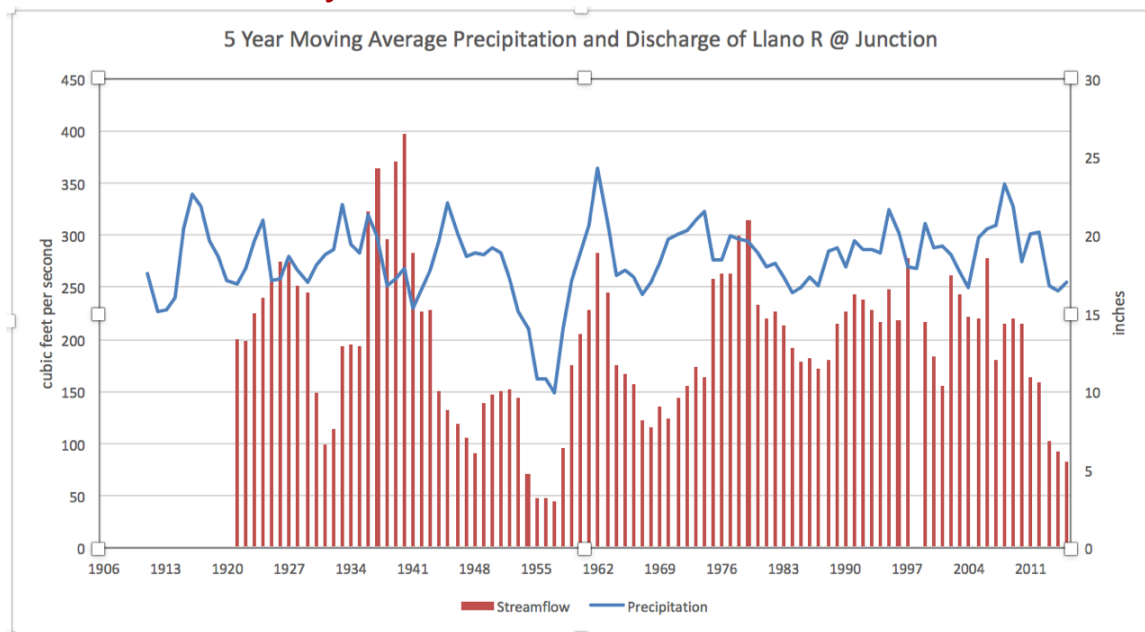
So how does this relationship affect streamflow on the Llano?

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With temperatures in the 70s and flows around 200 cfs, it's a great time to get out on the Llano. This beaver lodge was spotted downstream of the James River crossing earlier this week.

Llano River and dry times (continued)



The graph above compares annual precipitation against annual streamflow. Precipitation data are for Del Rio, which are the most readily available long-term data for the region. Streamflow data are for the Llano River at Junction. (Note: Streamflow data are not available 1993-1997.) For ease of viewing both data sets are shown as a 5-year moving average.

The drought of the 50s impacts are obvious as a 5-year moving average, as this was a multi-year drought with annual precipitation below 70% all but one year between 1950-56. The shorter, but more intense recent drought also had significant impacts on streamflow as well. Low flows during the 1940s do not correlate well with precipitation data, presumably due to one year in the 5-year average being significantly above normal due to one or two large rainfall events.

Of the 110 years of precipitation data, annual precipitation has been below 70% of normal 24 times, or 22% of the years. Between 1963 and 1982, there were no years below 70% of normal.

HCA to host Conservation Easement Workshop at Kerr WMA

Our friends at Hill Country Alliance are hosting a Conservation Easement Workshop at Kerr Wildlife Management Area on Friday, February 10 from 2-5pm.

Conservation easements are a tool available to help landowners steward and protect their land investment in the long term.

[Click here for more information...](#)



Family Fun Events this weekend at South Llano River State Park



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Family Park Programs
South Llano River State Park
Phone: (325) 446-3994



Bird Walk

Saturday, January 21st, 9:00 am - 10:30 am
Meet at the Fawn Trail parking lot
(behind Park Headquarters)

Come birding with us! We'll walk an easy trail, sit in the blind, and see what birds we can spot! Good walking shoes and drinking water are recommended, and dress for the weather! Binoculars provided, or bring your own.
All ages and skill levels welcome.

Geocaching 101

Saturday, January 21st, 3:00 pm - 4:00 pm
Meet at the Walk-in Campground parking lot



Join us for Geocaching, a high-tech treasure hunt you can do anywhere in the world using a GPS unit or your smartphone! Loaner GPS units will be provided for this activity. Good walking shoes and drinking water are recommended, and dress for the weather! All ages welcome.



River Trail Nature Hike

Sunday, January 22nd, 10:00 am - 11:30 am
Meet at the Acorn Blind

(down the path from the restrooms, between campsites 39 and 41)

Come explore the pecan forest with us, as we look for all kinds of plants and animals! This hike will be just over a mile long, with a short hill. Good walking shoes and drinking water are recommended, and dress for the weather! All ages welcome.

Park programs are open to the public and free with park entrance fee