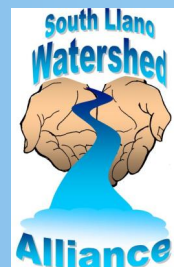


# South Llano Watershed Alliance

## WATERSHED WEEK IN REVIEW

February 20, 2015



Llano River below James River Crossing

With the upcoming name change of the South Llano Watershed Alliance to the **Llano River Watershed Alliance**, we look forward to working with landowners and stakeholder throughout the Llano to continue our mission to preserve and enhance the Llano by encouraging land and water stewardship through collaboration, education, and community participation.

Do you have great picture of the Llano River Watershed that you would like to share with the newsletter?

Send it to  
[southllanoriver@gmail.com](mailto:southllanoriver@gmail.com)



## Our website holds a treasure of information

The [Resources](#) page of the Alliance website holds a repository of data, information, and reports about the Llano, Spring of Texas, or Riparian Habitats.

Dig deeper into the [Water Resources](#) page to find reports about the James River, a recent master's thesis on drought and fish communities, or the [Aquifers of Texas](#).

Want to know about wells in your area? The [Maps page](#) on the website can help you find out. The page also contains a link to the digital geology maps of Texas.

How about access points to the river or Space Station passes overhead? The [Activities](#) page has that info.

With a cold forecast ahead (yes, there's a link to that too on the Home page), perhaps you will find time to uncover some nuggets about the Llano.

### Upcoming Events

#### Next Board Meeting

March 10<sup>th</sup> at Hacienda Maria-Native American Seed. 5:30pm

#### Oasis Fire Workshop

April 18<sup>th</sup>. Details soon

#### 700 Springs Tour

April 25<sup>th</sup>.

[Details here](#)

### Events of Interest

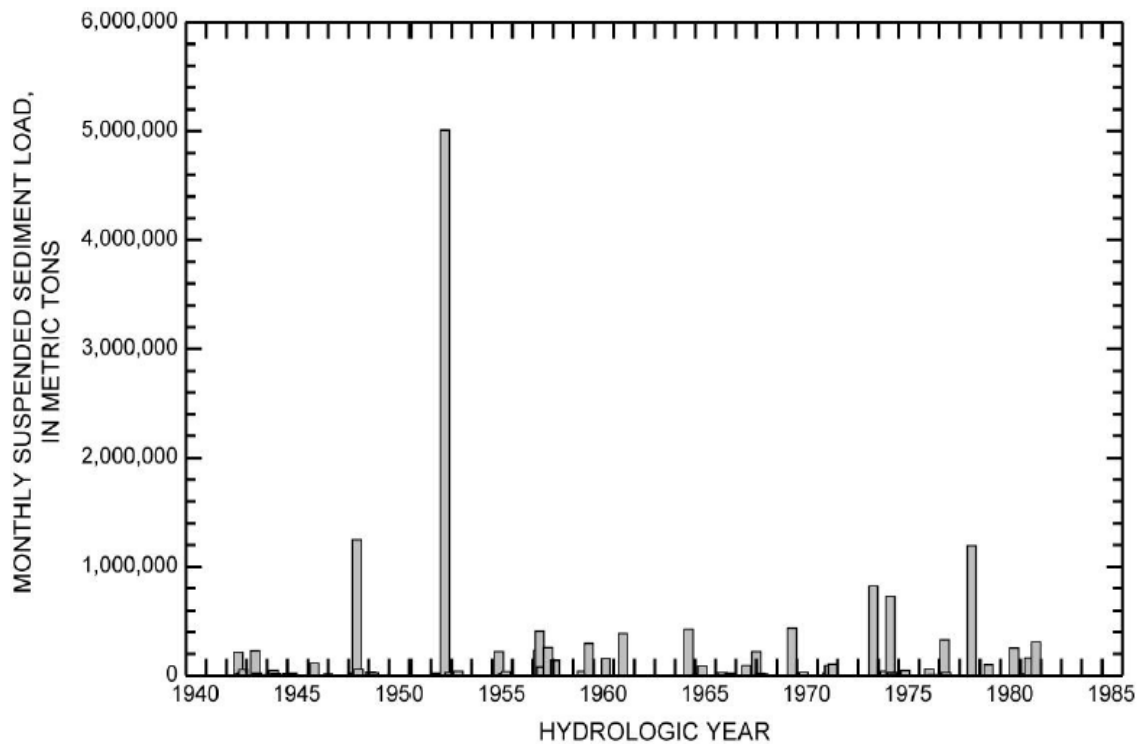
#### Land Stewardship Conference

April 23-24

Kerrville

[details](#)





**Figure 5.6.** Monthly suspended-sediment loads at 08151500 Llano River at Llano, Texas, from August 1942 to September 1982 (data from Stout, Bentz, and Ingram 1961; Adey and Cook 1964; Cook 1967, 1970; Mirabal 1974; Quincy 1988). Suspended sediment transport is episodic with three months of over 1,000,000 metric tons and eighty-five months of less than 100 metric tons.

*Source: Frank Heitmuller dissertation*

## Flows of the Llano

The above chart is from Dr. Frank Heitmuller's dissertation on the [geomorphology of the Llano River](#). Up until the early 1980s, sediment data were regularly collected by USGS.

What is of interest here is the amount of sediment that passed the Llano gage in 1952. That flood peaked at 232,000 cfs and carried 5 times the amount of sediment that the flood of 1948 (108,000 cfs) or the flood of 1978 (139,000 cfs) carried. The other

large flood event during that period was in 1980 (210,000 cfs).

What does that tell us? Yes, 1952 was a large flood, but the drought conditions in the watershed resulted in far greater sediment runoff, likely due to the lack of ground cover.

## In the News

### Justices Skirt Underground Trespassing Question

*If industrial wastewater pollutes your groundwater, can you sue for trespassing? Energy and water interests have been waiting for an answer to that question...*

[Read Texas Tribune article](#)

### Global Water Issues

*What were the 10 most important global water issues in 2014? Could any of them affect the Llano?*

[Read full article](#)

### Lecture looks at importance of springs

*Although this event is in San Antonio, it looks like a great opportunity to learn more about the science behind springs. Besides, who better to teach about springs than Dr. Springer?*

[Read announcement](#)

### Bridge at South Llano River State Park

*The concrete apron on bridge across the South Llano at the park has collapsed. While boaters may still access the river at this point, the Park is asking folks not proceed past the barriers on the bridge.*



#### Warmouth

The Warmouth is one of the larger, predatory sunfish species found in the Llano River. It is one of the less commonly encountered species and generally occurs in heavily vegetated areas, such as backwaters with water willow. Unlike most other sunfish species, their diet consists largely of crayfish and small fish, rather than aquatic insects. (Photo and text from "Common Fish of the Upper Llano Watershed", by Dr. Preston Bean, Texas Parks and Wildlife Department)



#### Thank you for renewing your business sponsorship

[Llano River Region Adventure-Tony Plutino-](#)

Individual Membership is \$20

Business Sponsorship is \$100

[Click here for application form](#)

Memberships are the primary revenue source for the all-volunteer South Llano Watershed Alliance. Thank you for your support.