





Unofficial NWS Water Supply Results
Water Year 2019 – Arkansas River System

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Five of Eleven Water Supply Forecast Points in Colorado

Location	NWS - ID	USGS-ID	DWR-ID
Arkansas River @ Salida*	SALC2	07091500	ARKSALCO
Arkansas River abv. Pueblo*	PDAC2	07099400	ARKPUECO
Purgatoire River @ Trinidad*	PTRC2	07124500	PURTRICO
Purgatoire River @ Las Animas**	LAPC2	07128500	PURLASCO
Arkansas River @ Las Animas**	LARC2	07124000	ARKLASCO

NWS Water Supply Forecast Operations

Forecasts are produced by the Arkansas-Red Basin River Forecast Center (ABRFC) in Tulsa in collaboration with the NRCS.

Don't kill the messenger.

Forecasts are for seasonal (April – September) native runoff volume.

Forecasts are issued in the first week of the month from January – June.

This may change in the future as higher frequency updates of the Ensemble Streamflow Prediction (ESP) or Hydrologic Ensemble Forecast System (HEFS) forecasts become more practical.

This will also necessitate a reduction in collaboration with the NRCS

Precipitation estimates for the continuous models originate with the Quantitative Precipitation Estimates produced hourly by the ABRFC.



Data Sources

Observed Flows

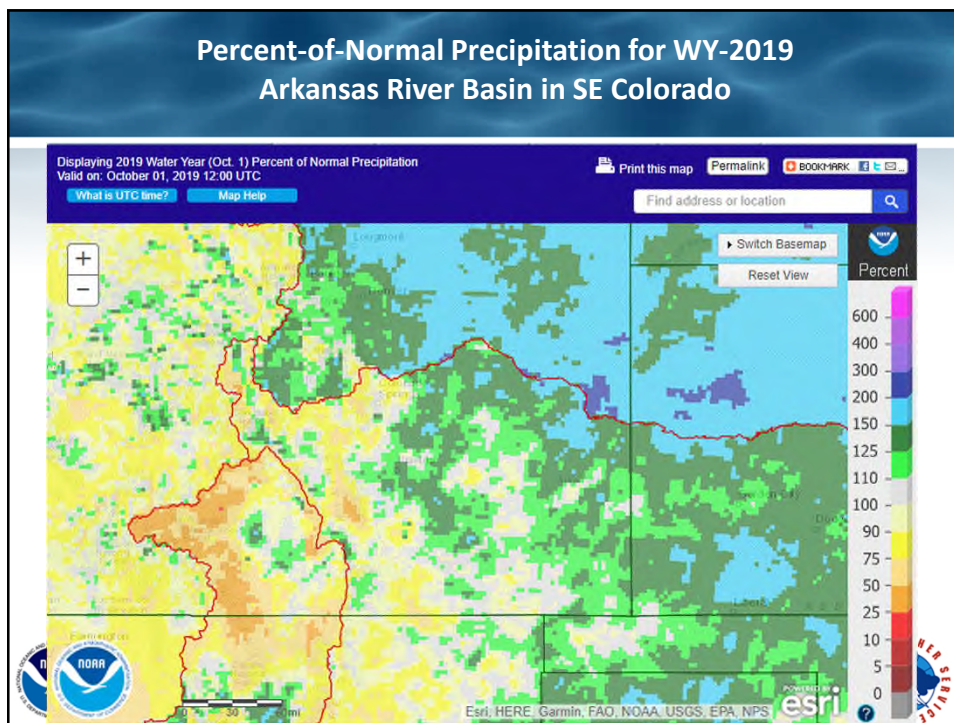
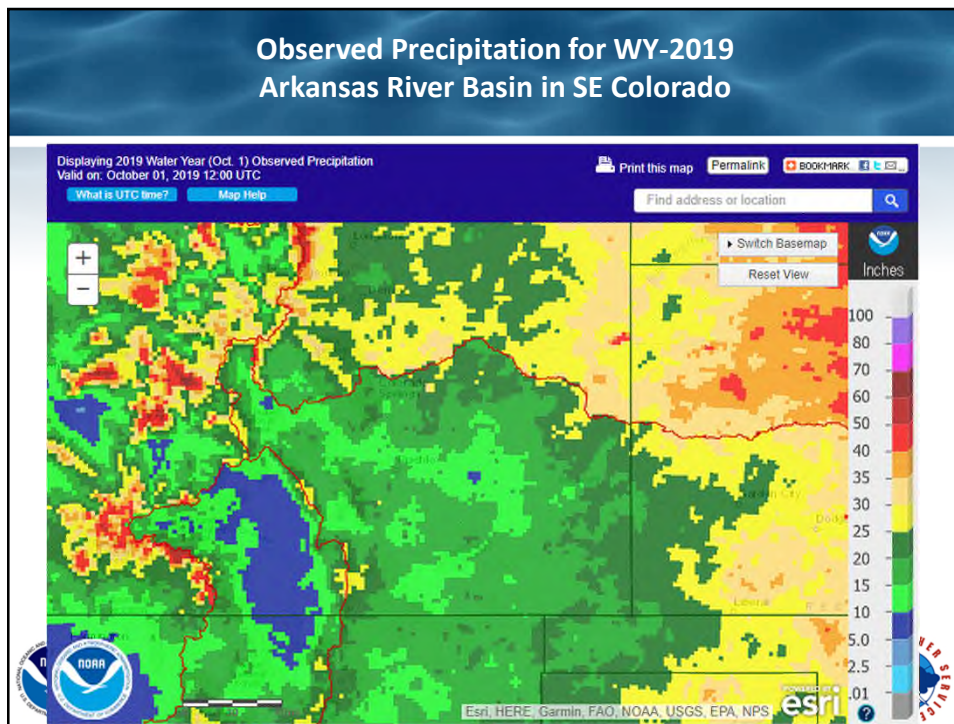
USGS Gaging Stations and Webpages
Colorado DWR Gaging Stations and Webpages

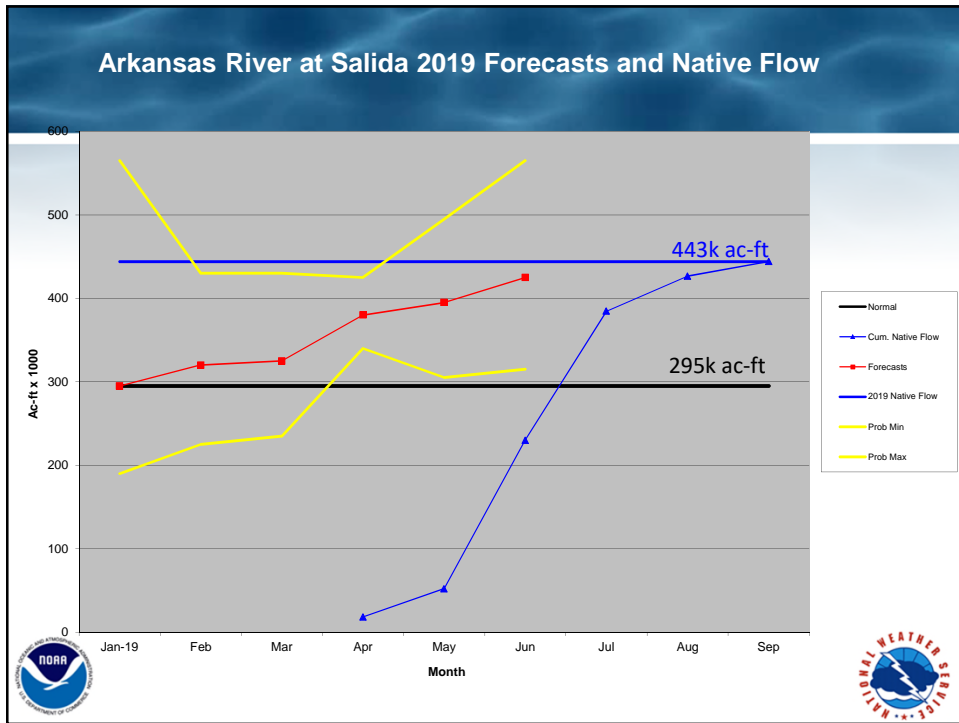
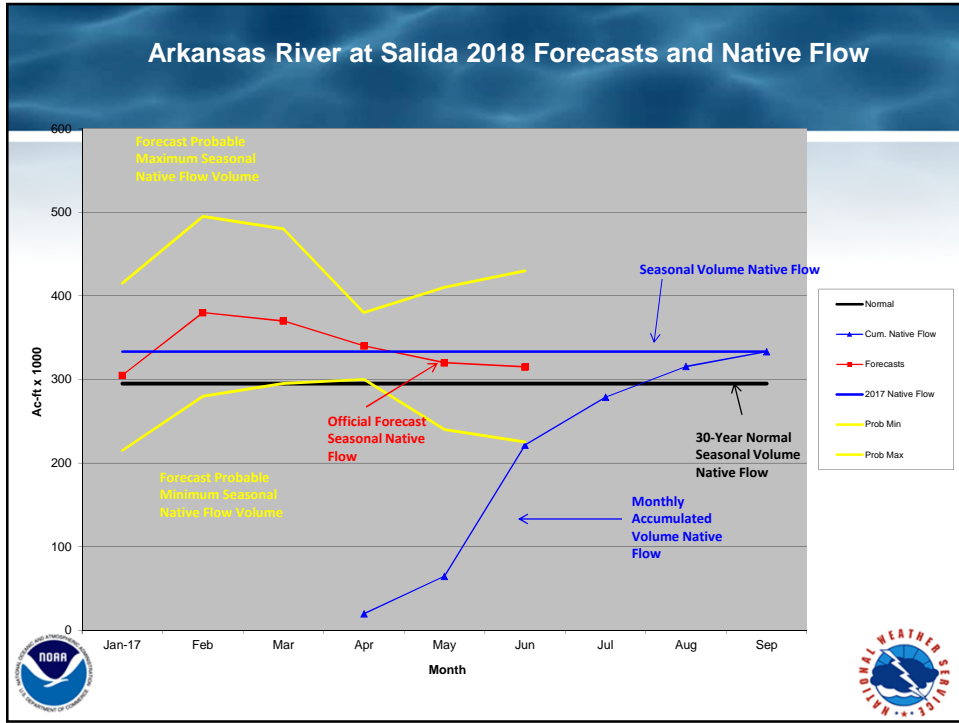
Native Flows

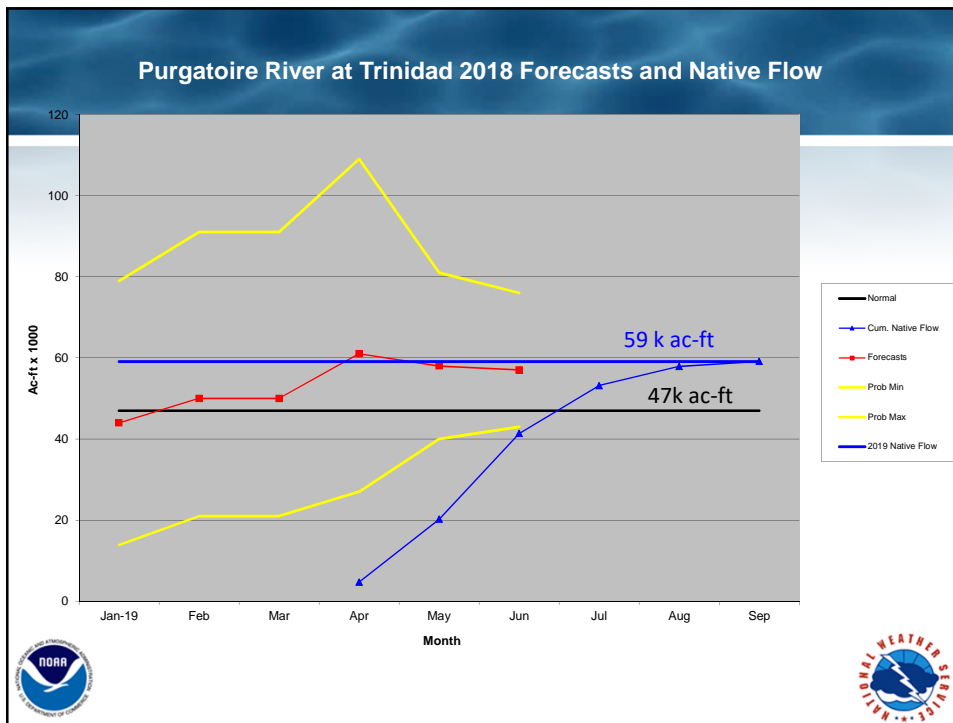
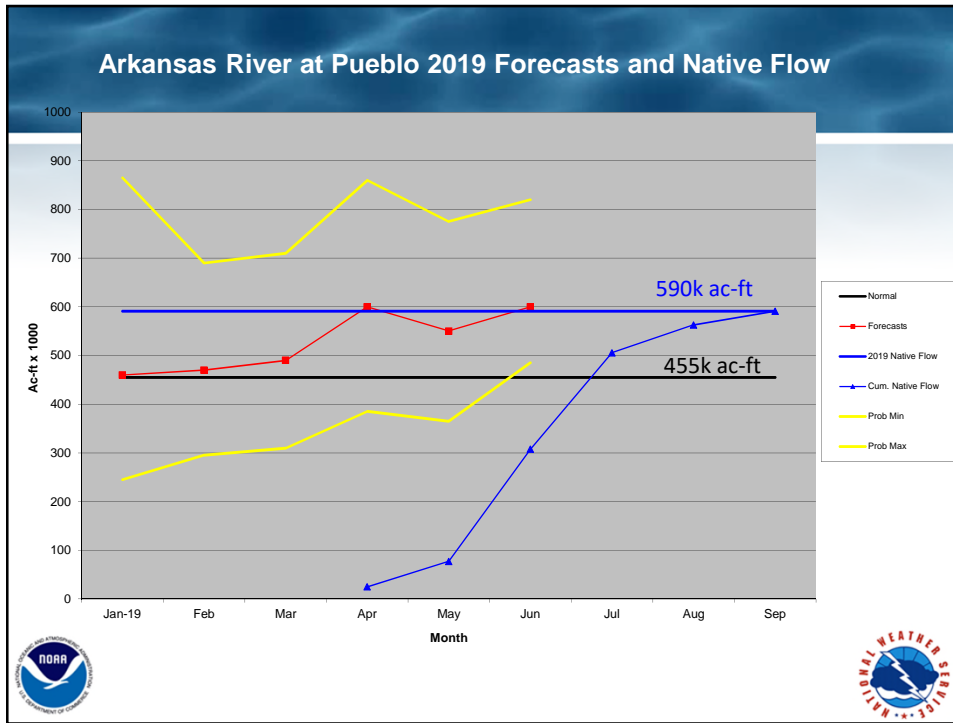
Calculations derived in cooperation with the NRCS to estimate the effects of transbasin, irrigation, and water supply diversions into and out of the system. It is simple accounting. Only diversions that can be estimated from readily available data are used in the accounting.

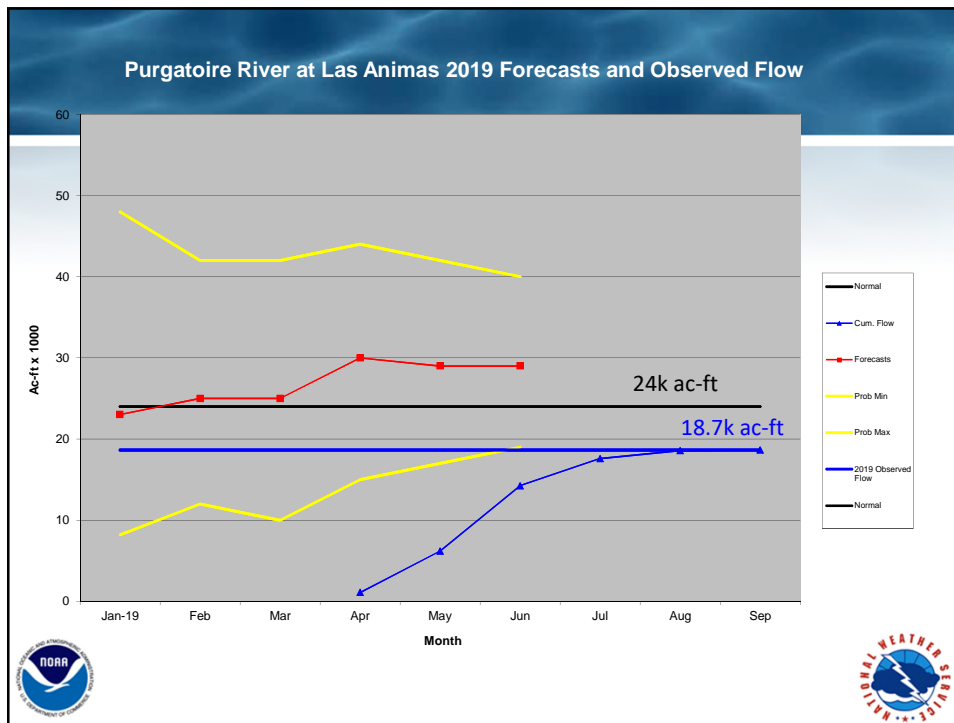
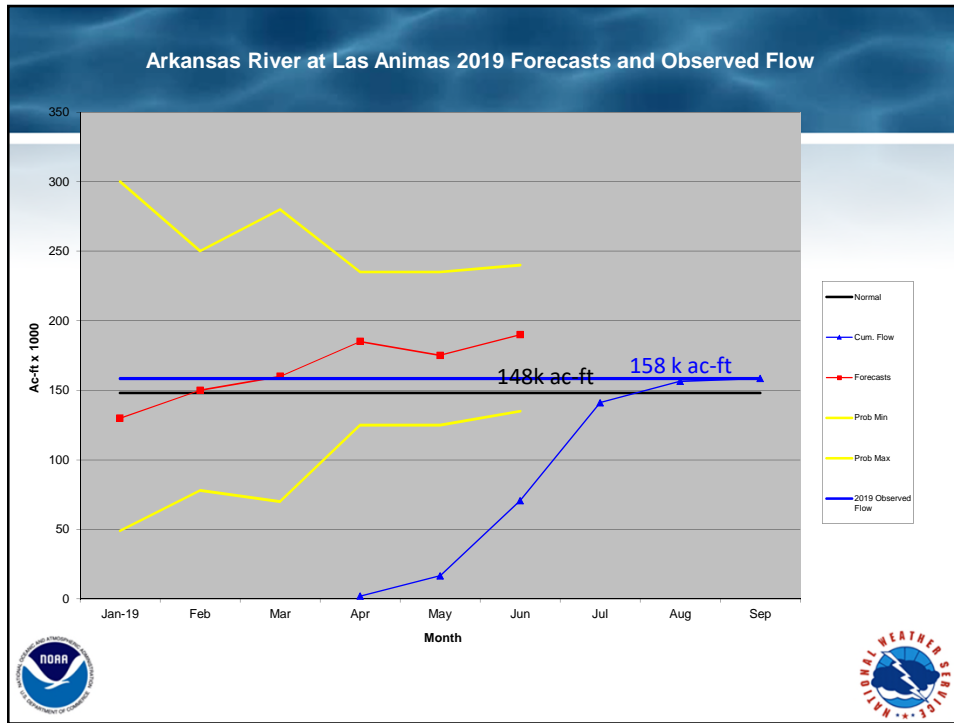
Forecasts on the Arkansas and Purgatoire Rivers at Las Animas are for observed flow.











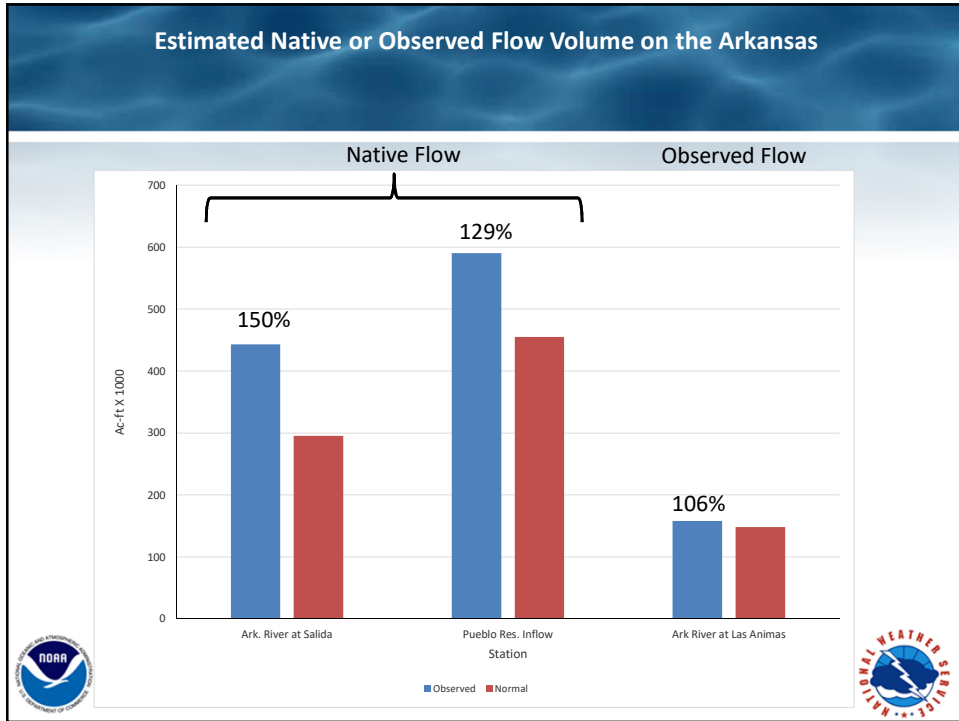
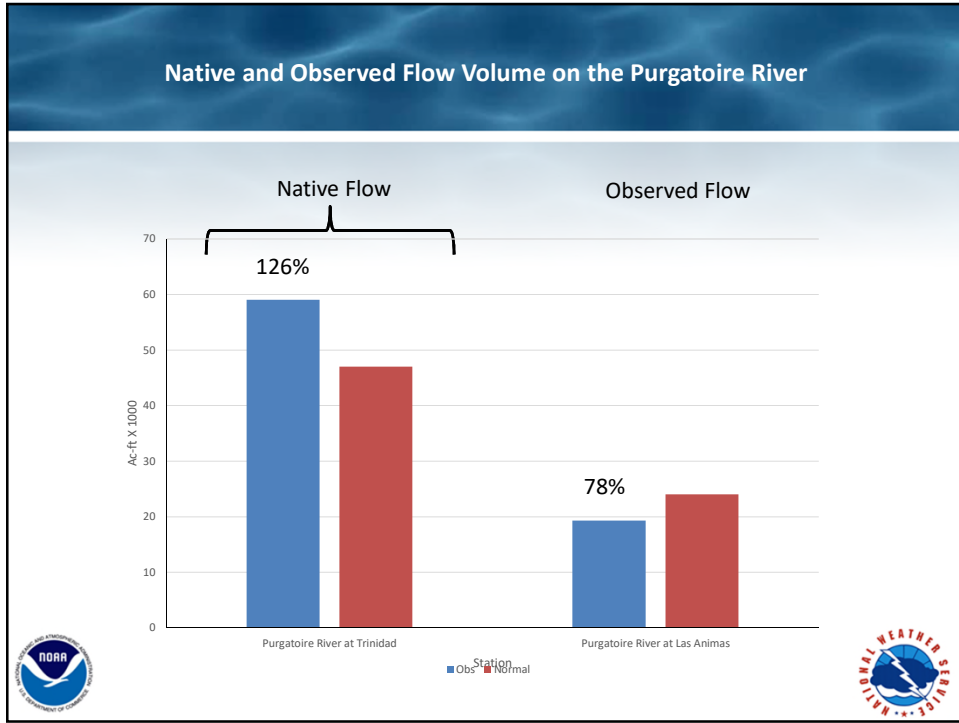


Table of Runoff Efficiency for Selected Forecast Points

Site	Area (mi ²)	Avg. Annual Precip (in.)	Total Precip Volume (ac-ft x 1000)	Runoff Volume (ac-ft x 1000)	% Efficiency
Arkansas R. @ Salida	1,218	18.4	1,147	444*	38.7
Arkansas R. abv. Pueblo	4,670	17.0	4,183	590*	14.1
Purgatoire R. @ Trinidad	785	20.14	806	59.1*	7.3
Arkansas R. @ Las Animas	14,425	16.8	12,838	158	1.2
Purgatoire R. @ Las Animas	3,441	16.6	3,047	18.7	0.6

• Indicates native flow estimate



Water Year 2020, Arkansas Basin SWE Time Series

