

Unofficial NWS Water Supply Results Water Year 2017 – Arkansas River System

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Location	NWS - ID	USGS-ID	DWR-ID
Arkansas River @ Granite*	ARGC2		ARKGRNCO
Arkansas River @ Salida*	SALC2	07091500	ARKSALCO
Arkansas River @ Canon City*	CNCC2	07096000	ARKCANCO
Arkansas River abv. Pueblo*	PDAC2	07099400	ARKPUECO
Chalk Creek @ Nathrop	CHKC2		CHCRNACO
Grape Creek @ Westcliffe**	GCWC2	07095000	GRAWESCO
Huerfano River nr Redwing	HMZC2		HURREDCO
Cucharas River @ Boyd Ranch nr La Veta	CLVC2	07114000	CRBRLVCO
Purgatoire River @ Trinidad*	PTRC2	07124500	PURTRICO
Arkansas River @ Las Animas**	LARC2	07124000	ARKLASCO
Purgatoire River @ Las Animas**	LAPC2	07128500	PURLASCO



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

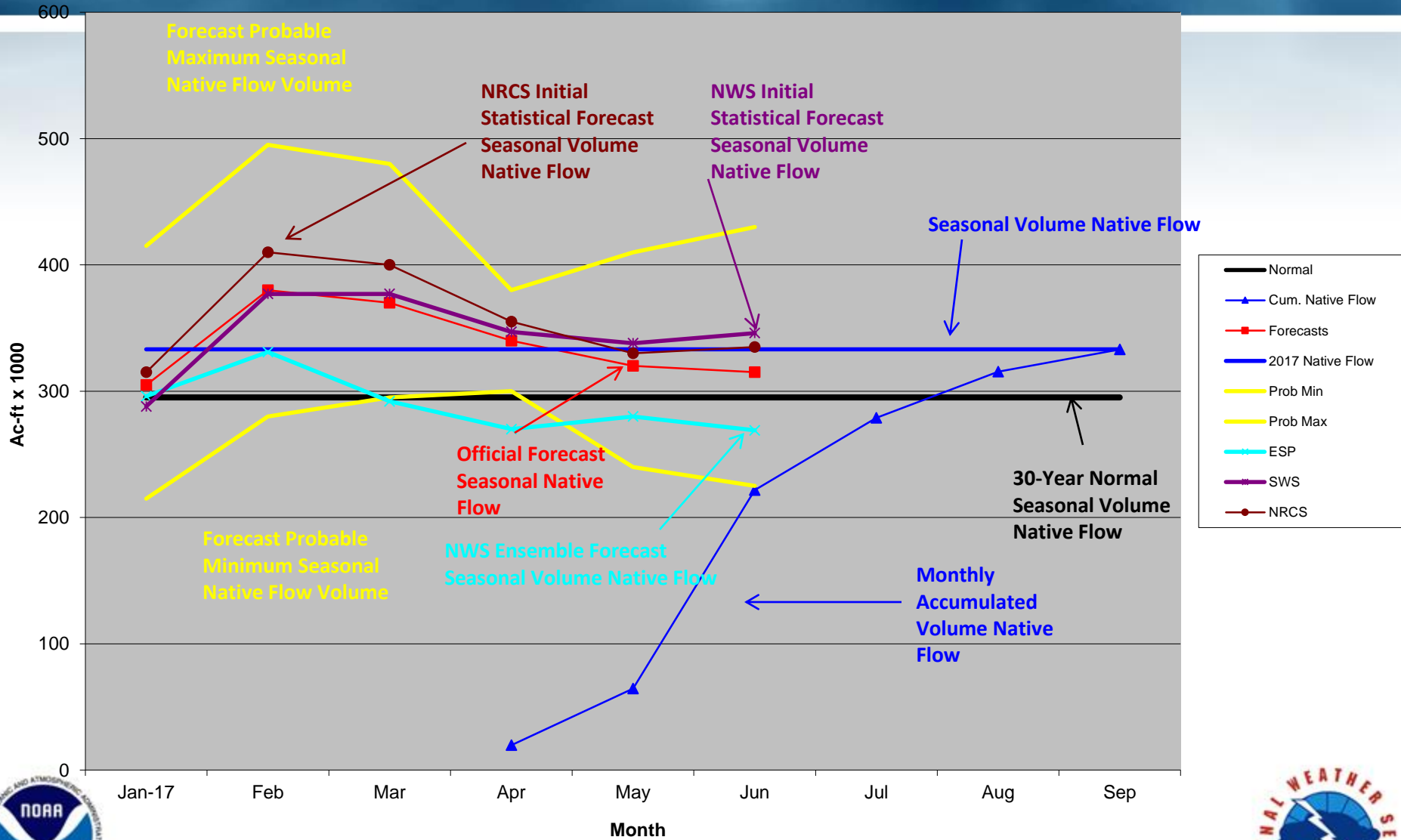
Native Flows

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.

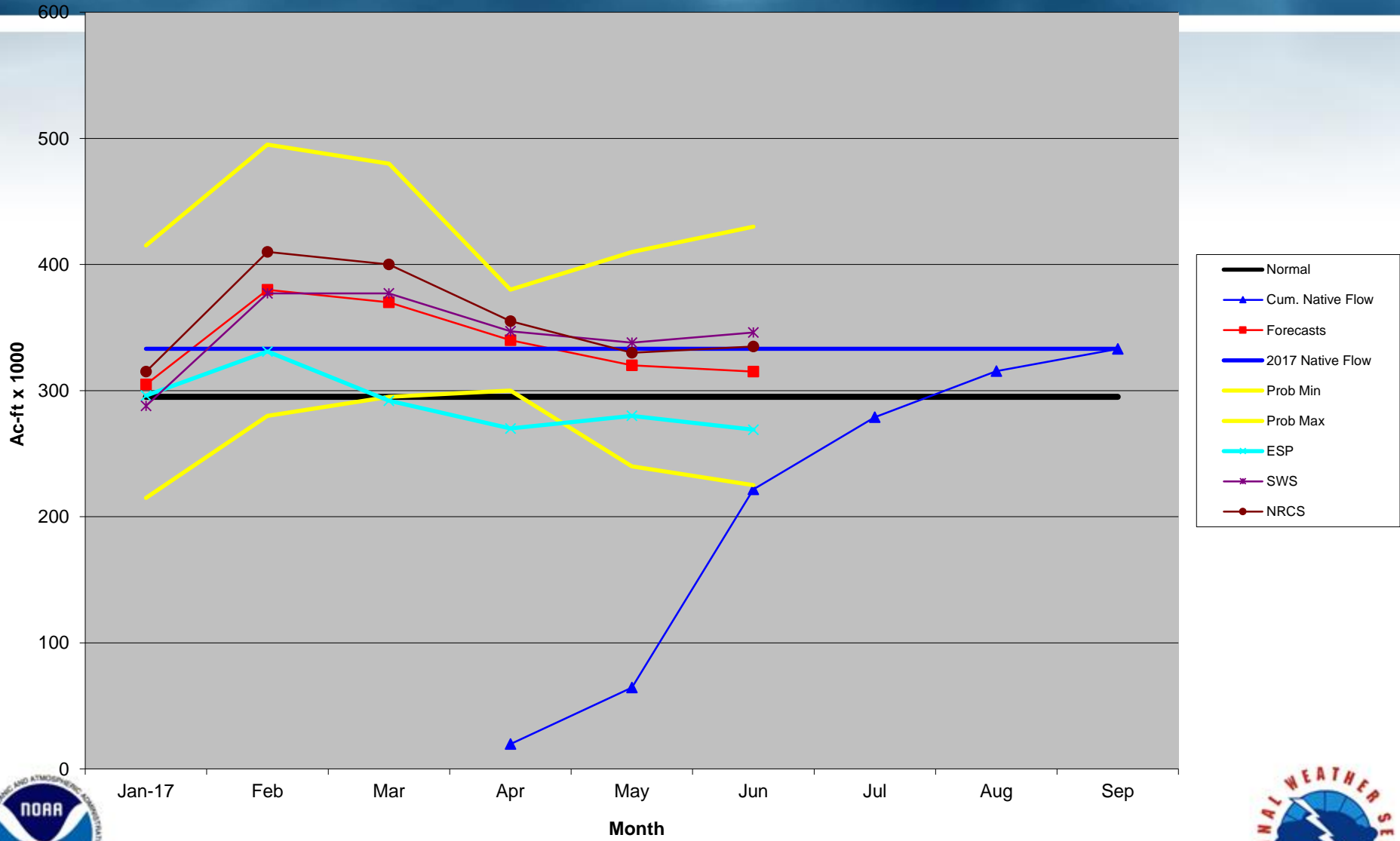
Native Flow values on Chalk Creek, Grape Creek, and the Huerfano and Cucharas Rivers are unadjusted streamflow volumes from the gages. No diversions are accounted for.



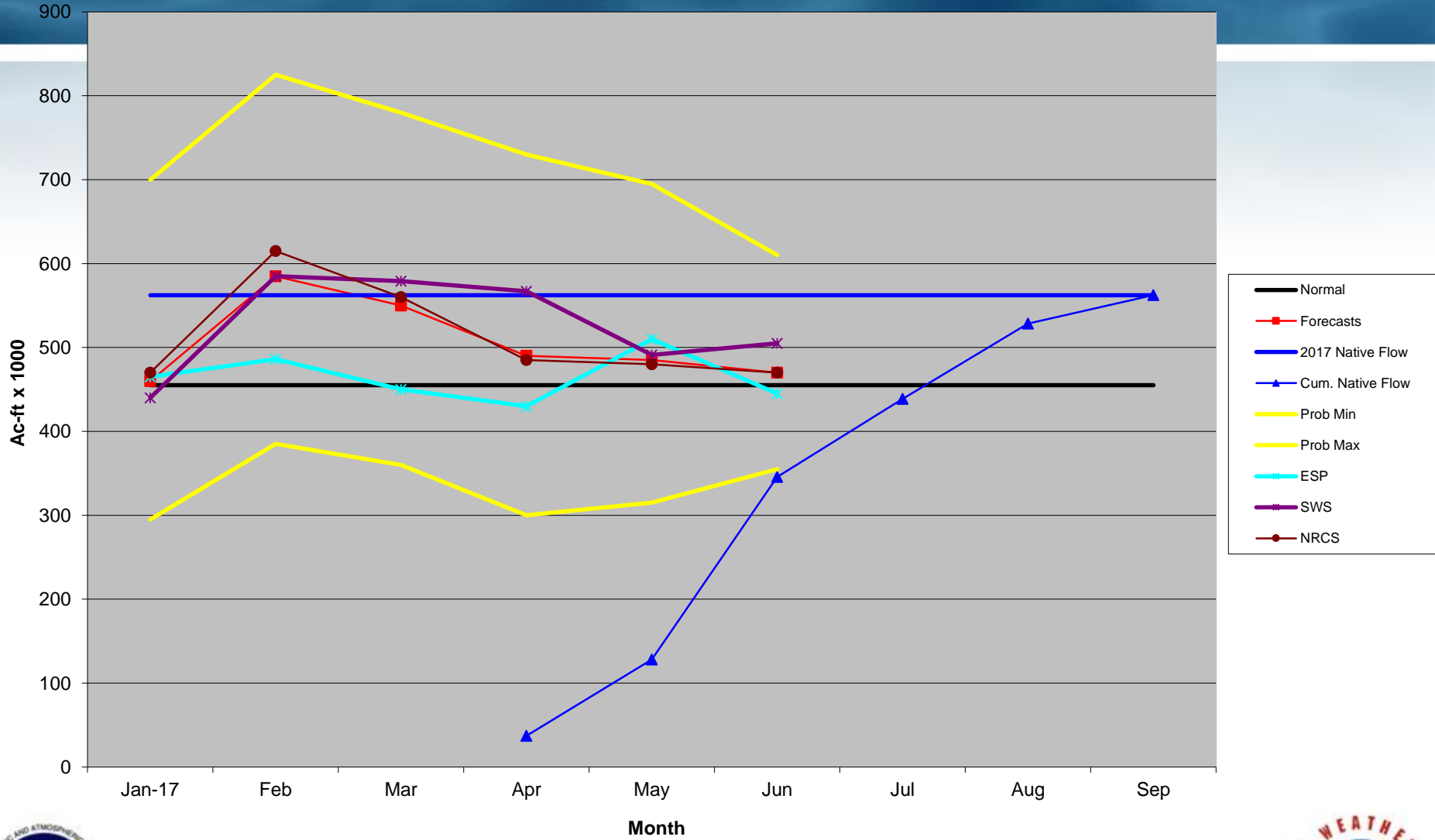
Arkansas River at Salida 2017 Forecasts and Native Flow



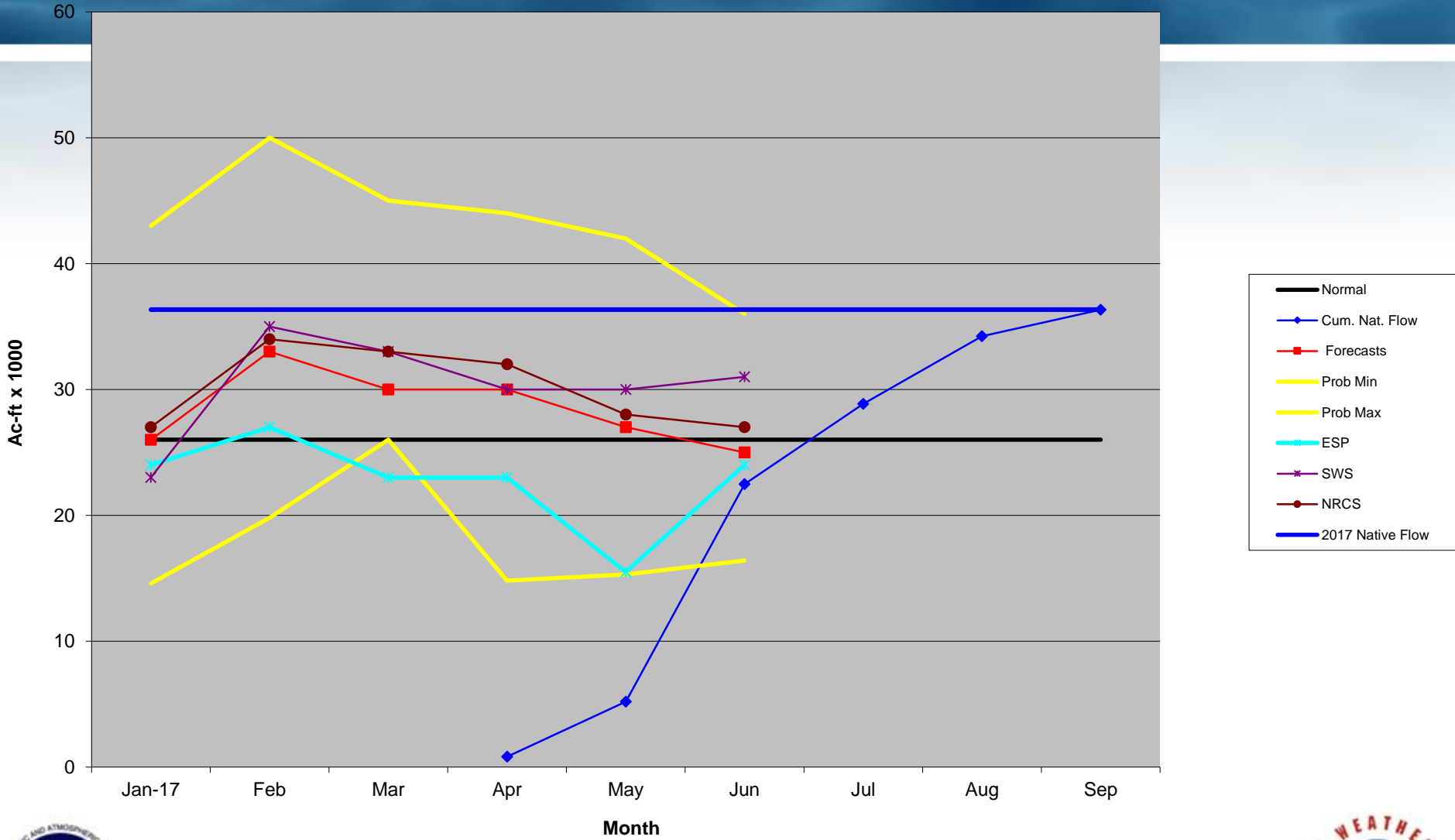
Arkansas River at Salida 2017 Forecasts and Native Flow



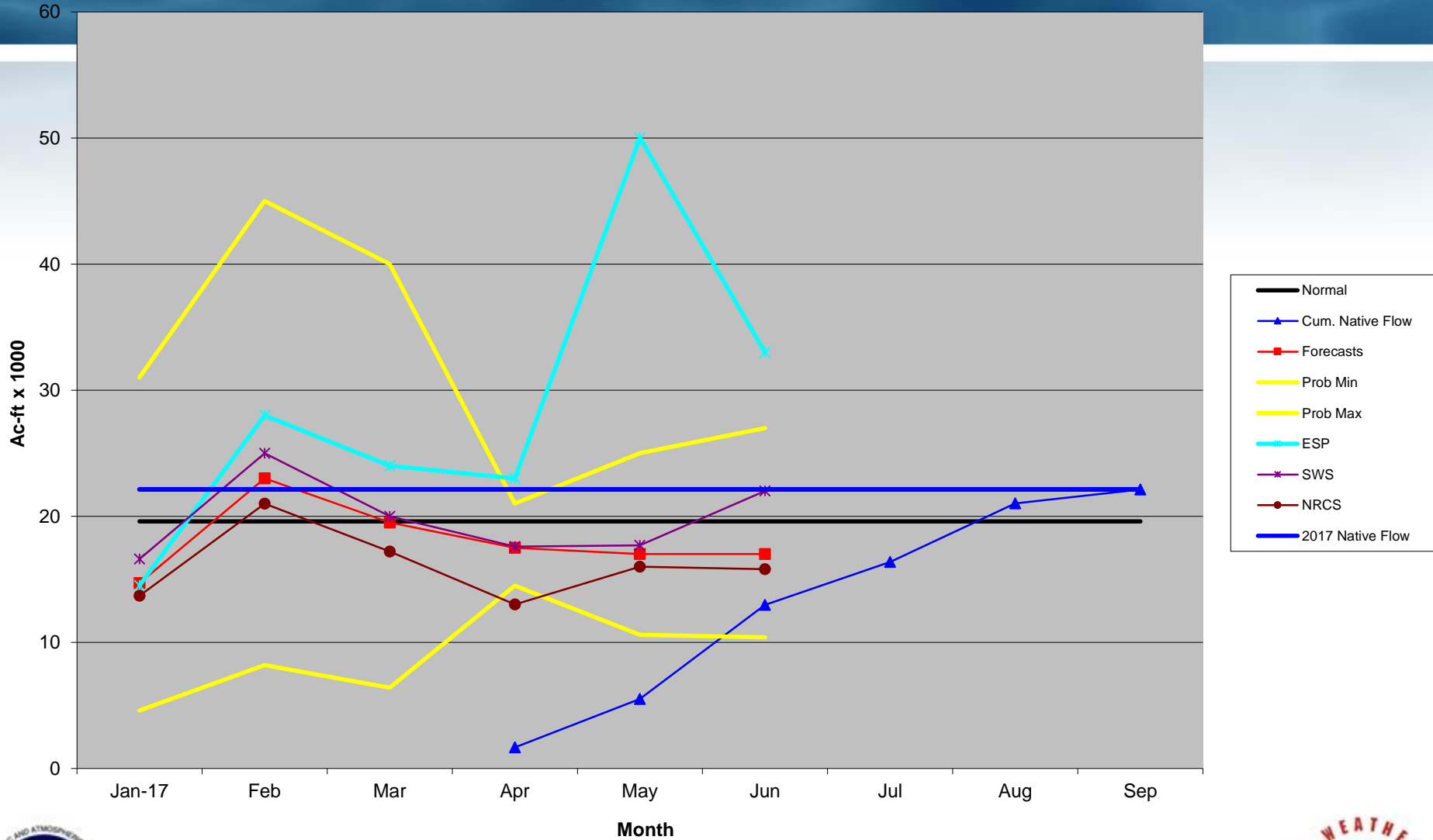
Arkansas River at Pueblo 2017 Forecasts and Native Flow



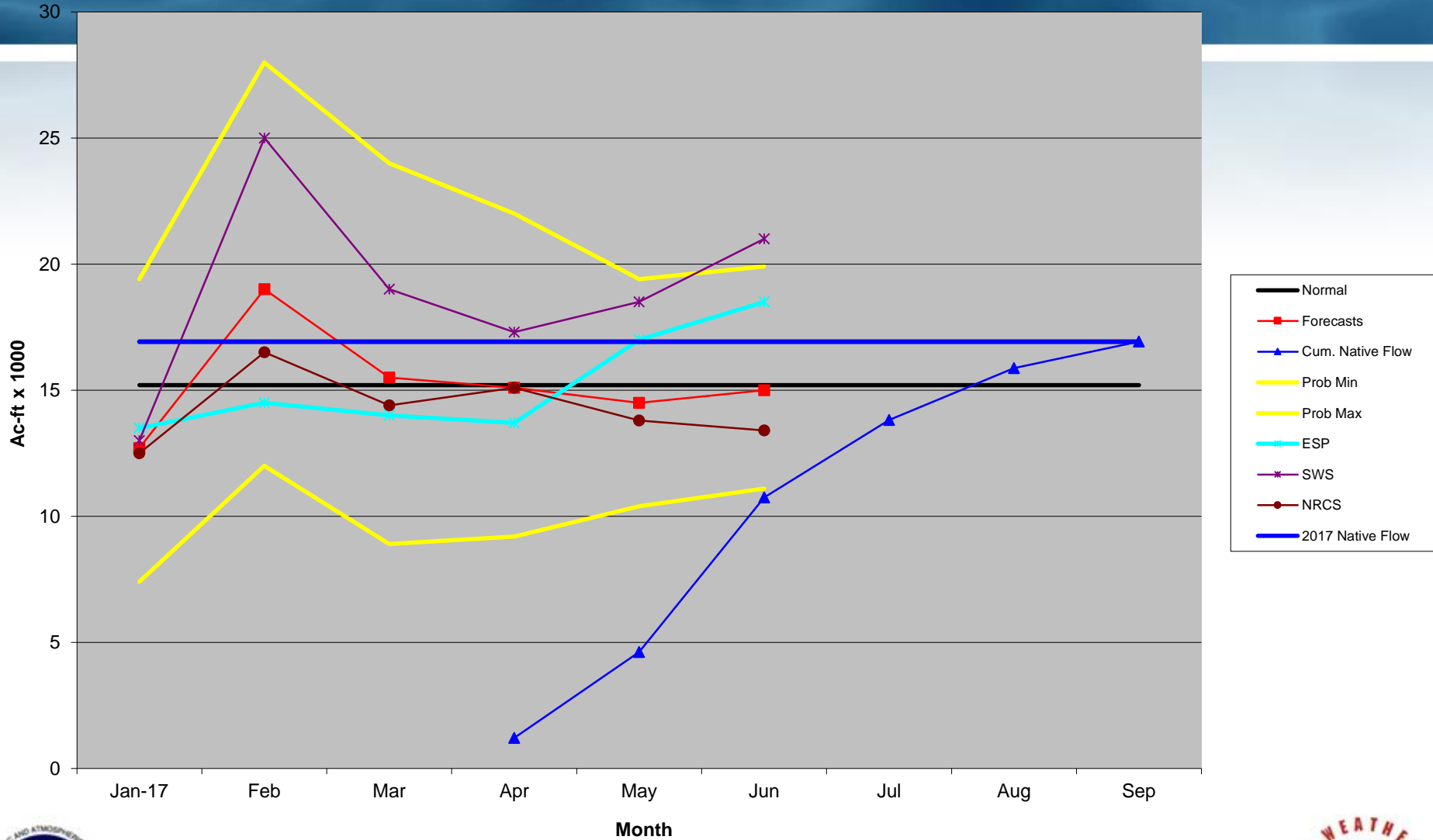
Chalk Creek at Nathrop 2017 Forecasts and Native Flow



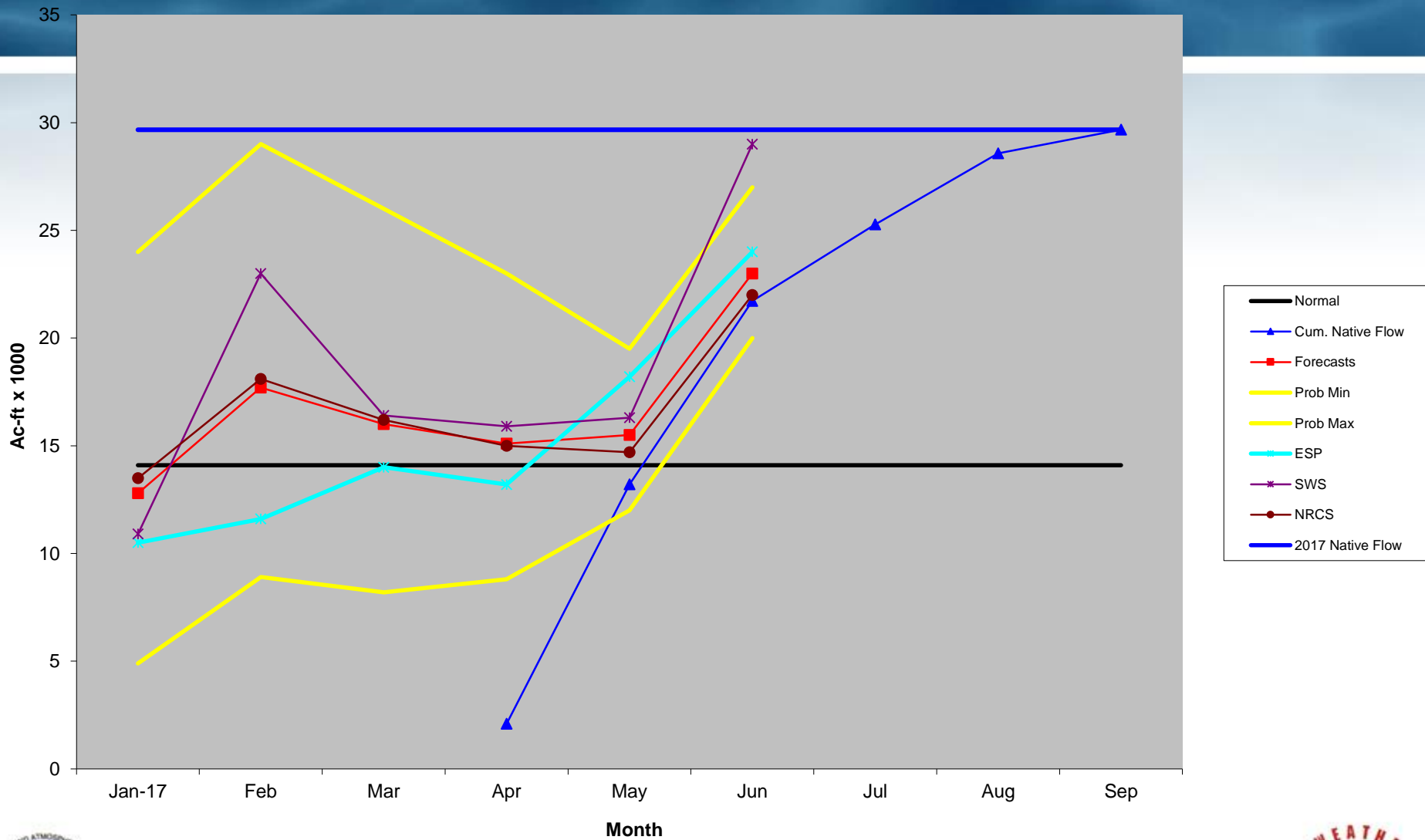
Grape Creek at Westcliffe 2017 Forecasts and Native Flow



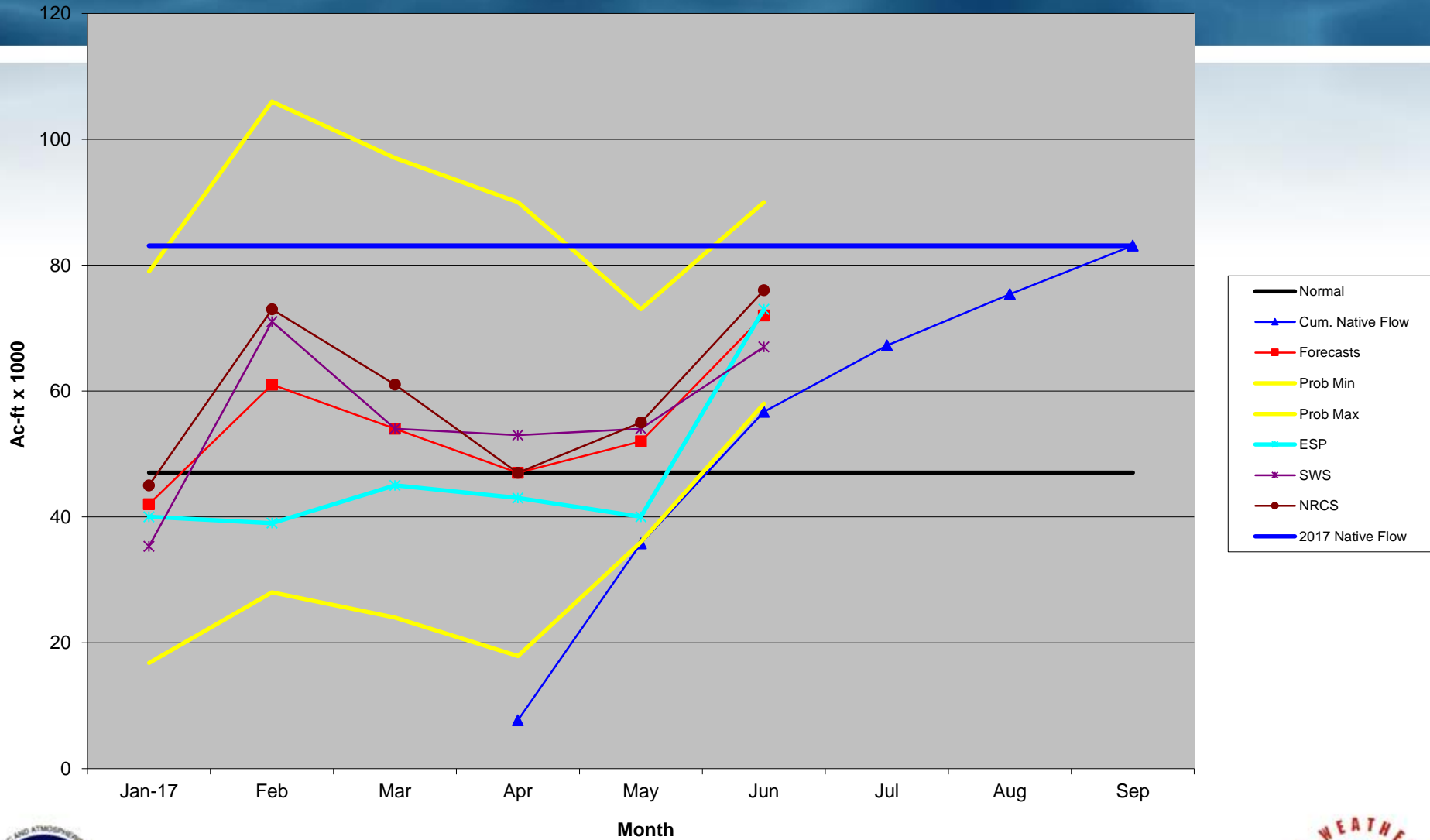
Huerfano River at Redwing 2017 Forecasts and Native Flow



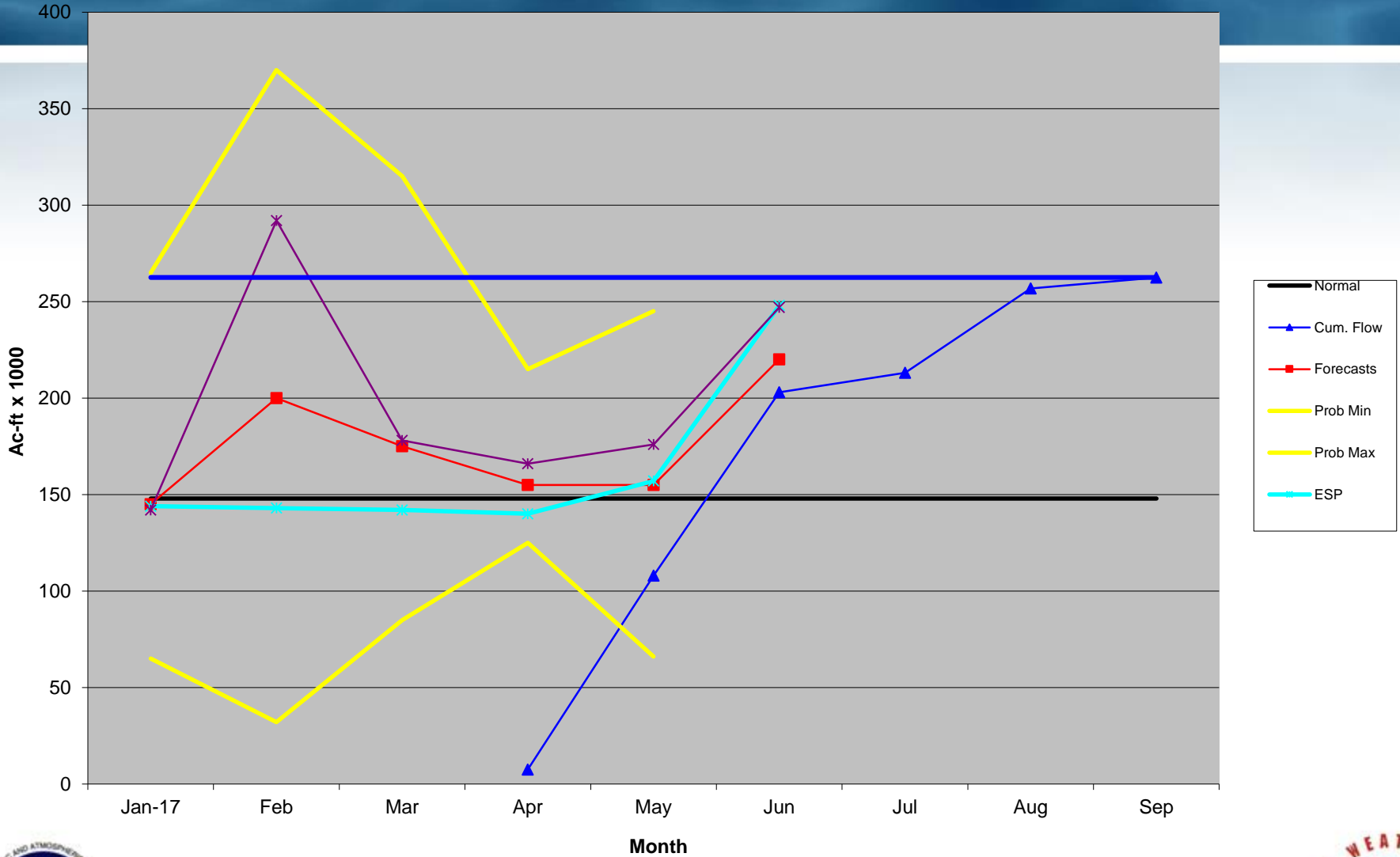
Cucharas River at La Veta 2017 Forecasts and Native Flow



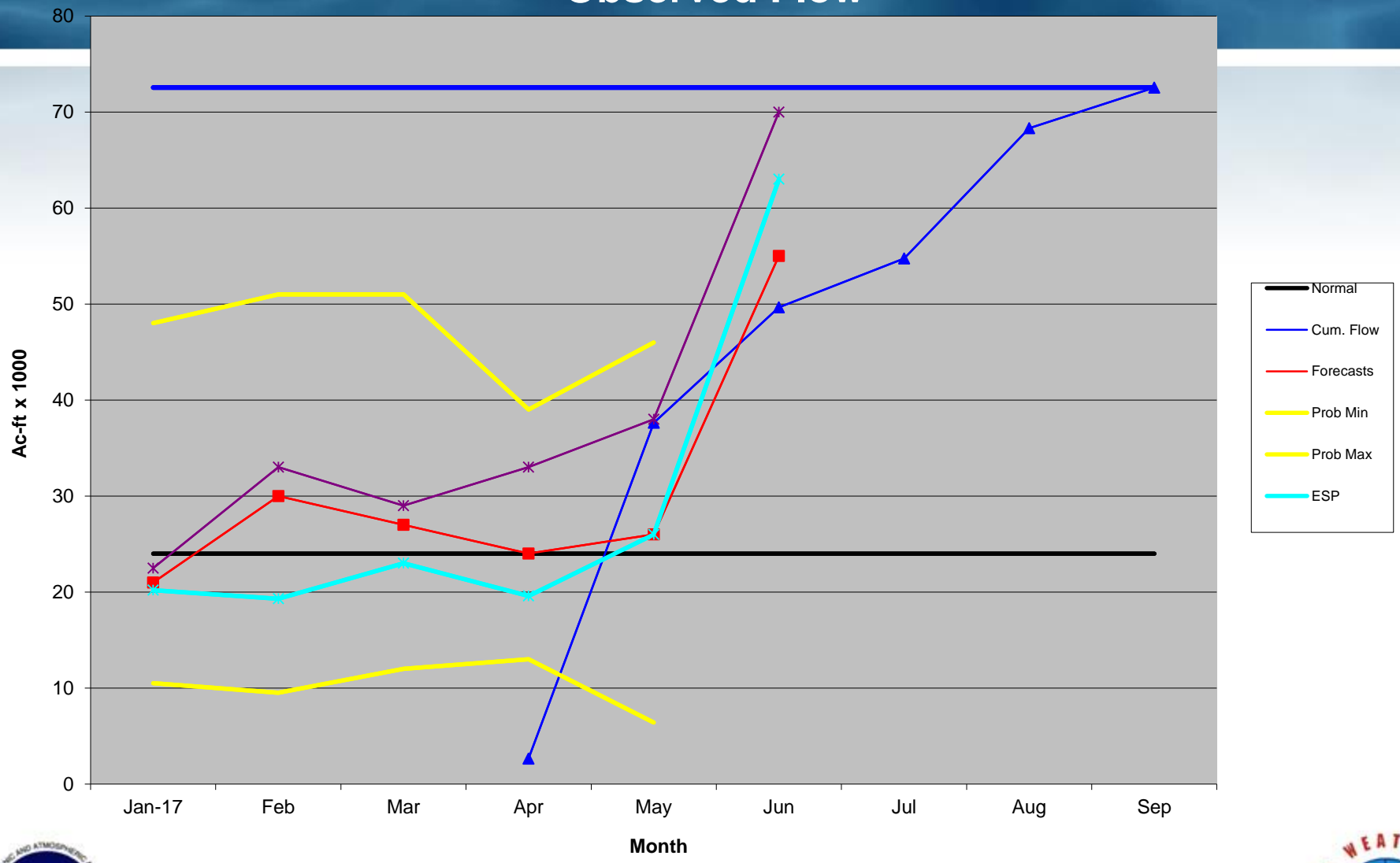
Purgatoire River at Trinidad 2017 Forecasts and Native Flow



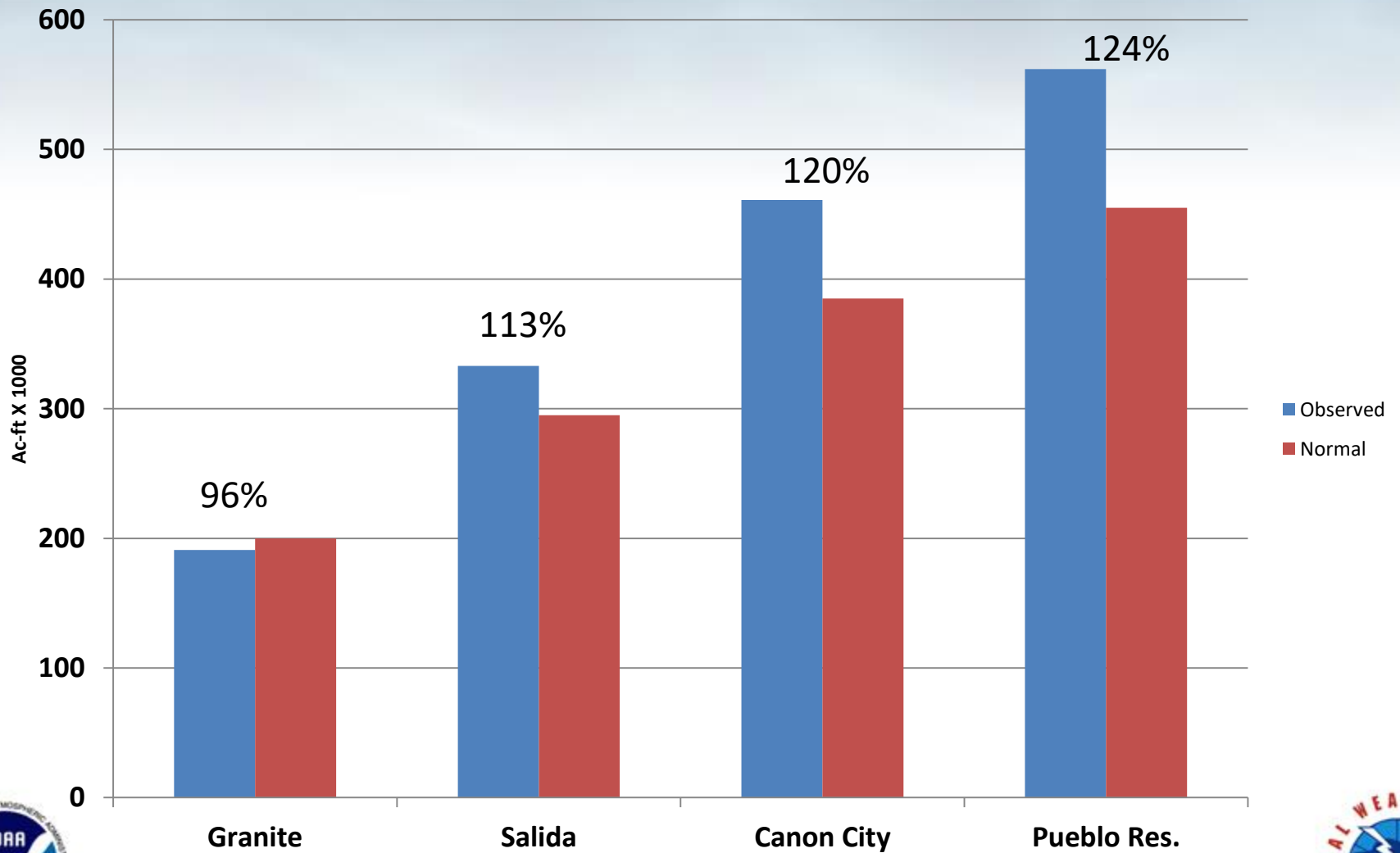
Arkansas River at Las Animas 2017 Forecasts and Observed Flow



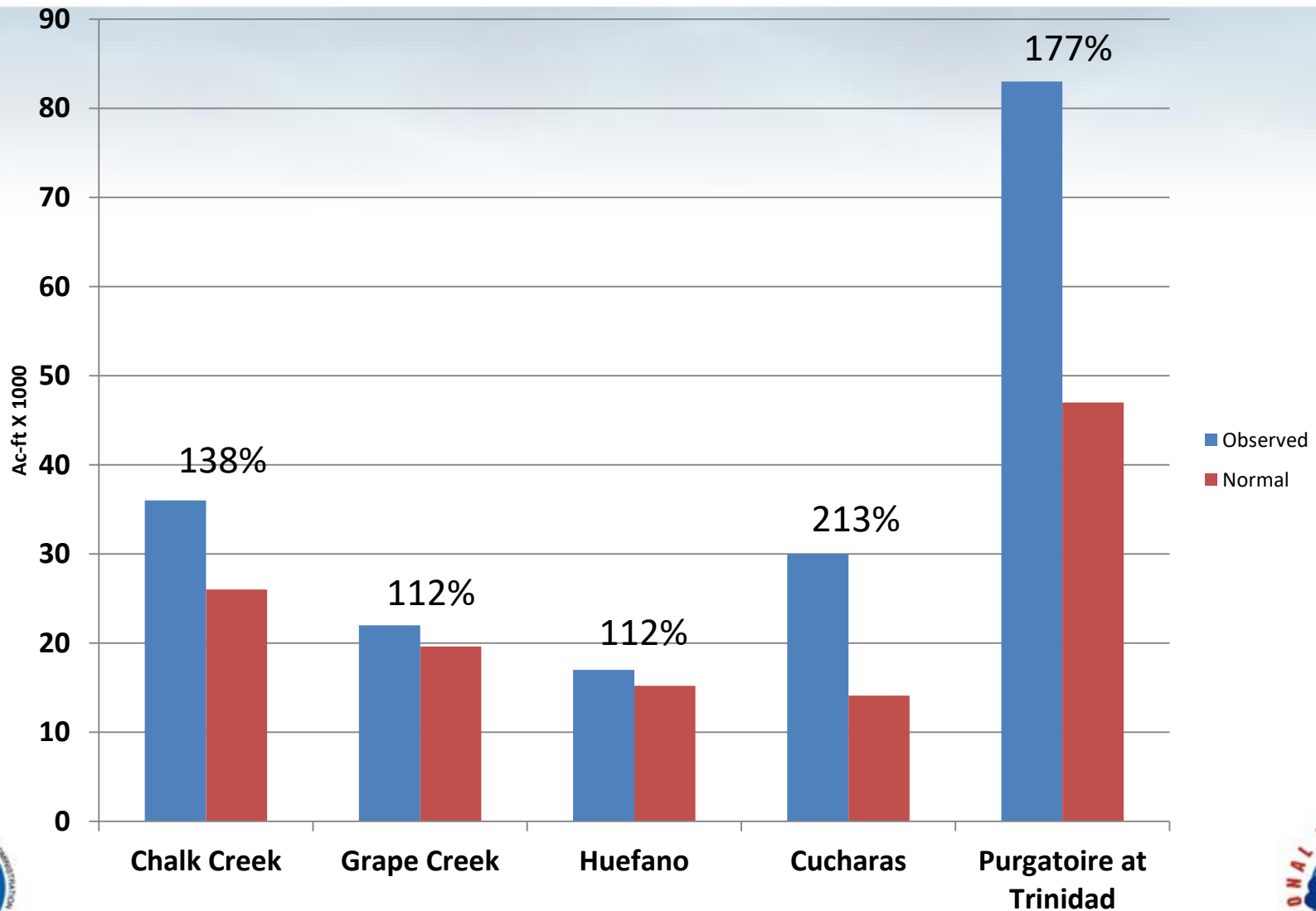
Purgatoire River at Las Animas 2017 Forecasts and Observed Flow



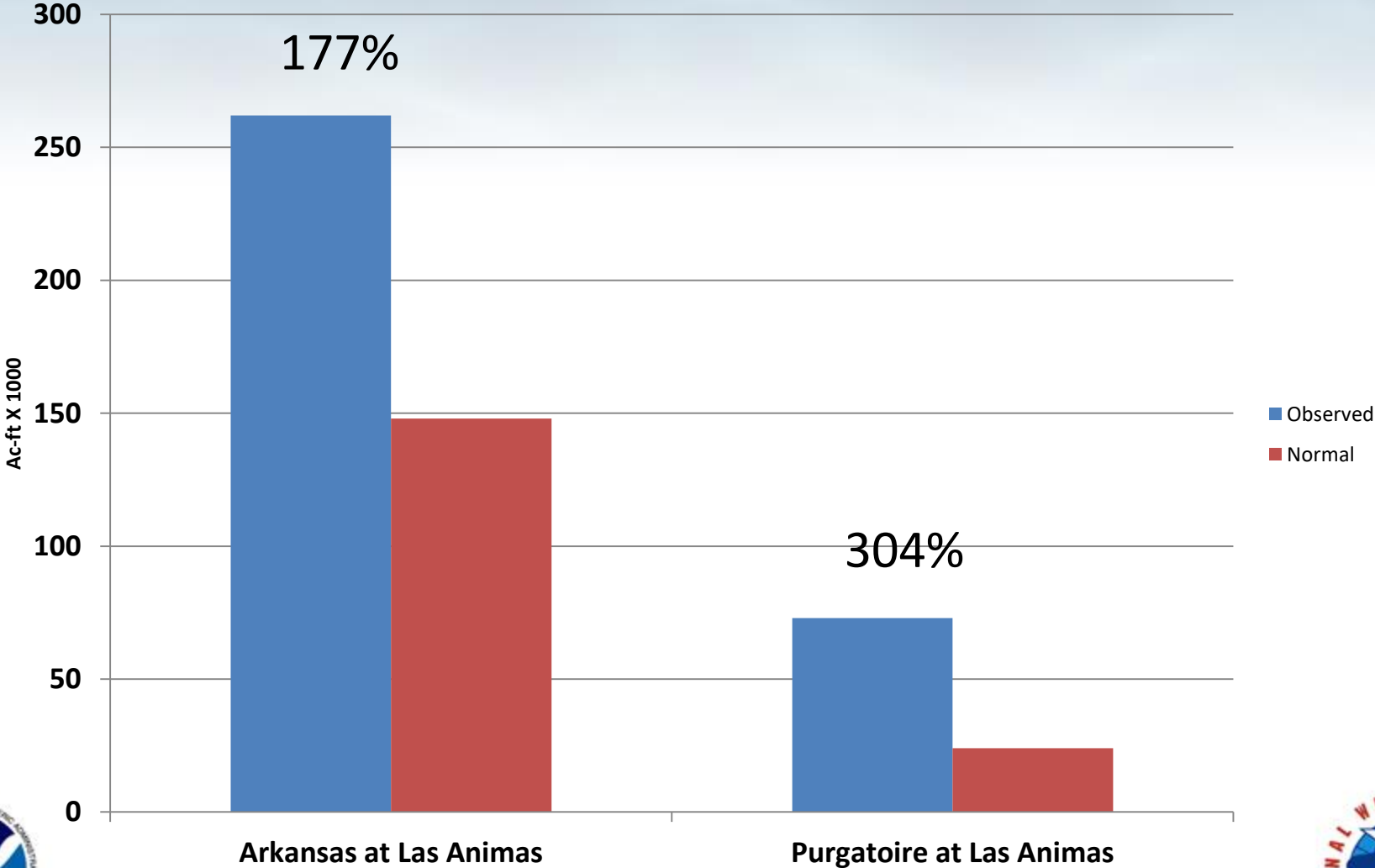
Estimated Native Flow Volume on the Upper Arkansas



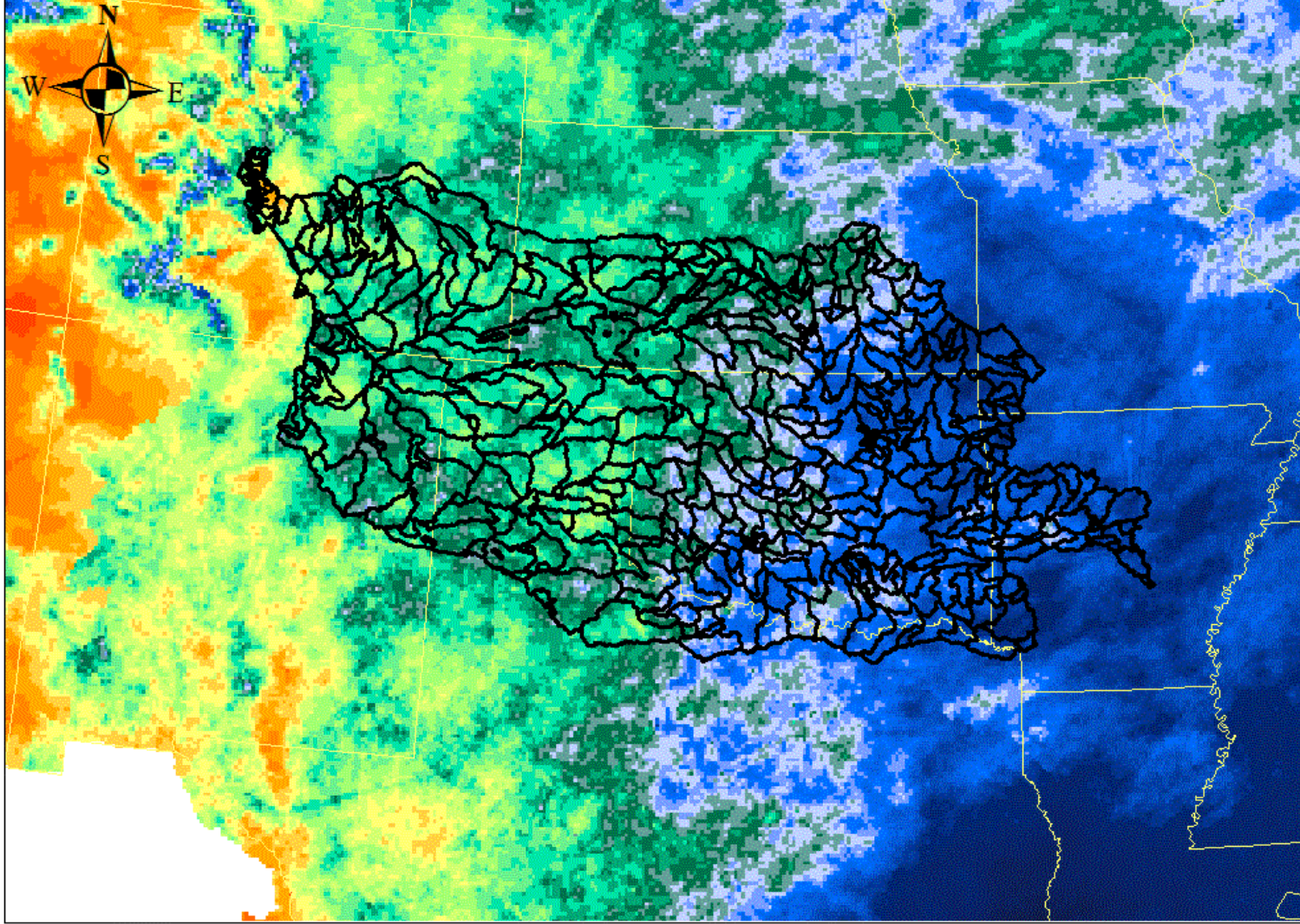
Estimated Native Flow on Headwaters of Arkansas Tributaries



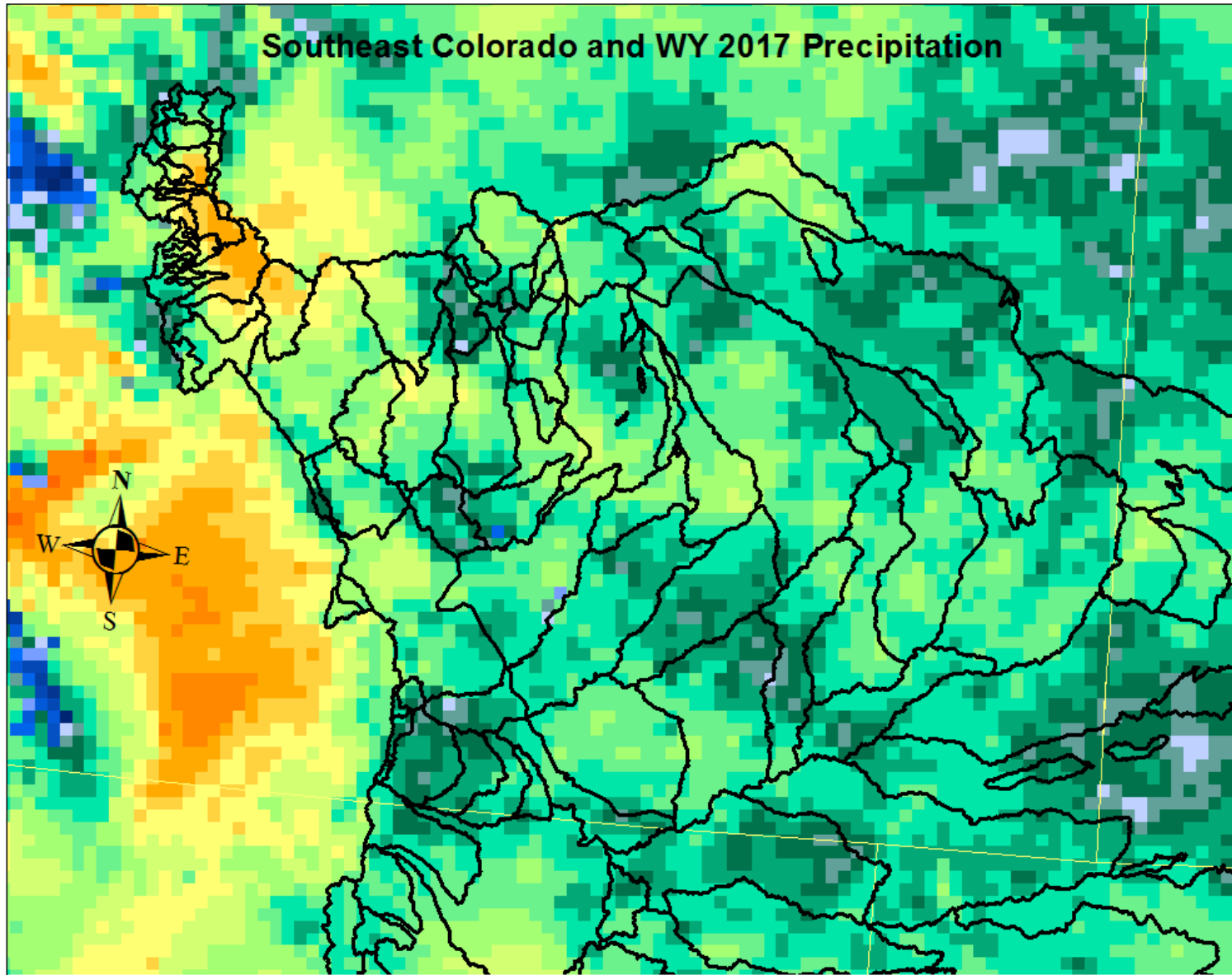
Observed Flow Volume at Las Animas



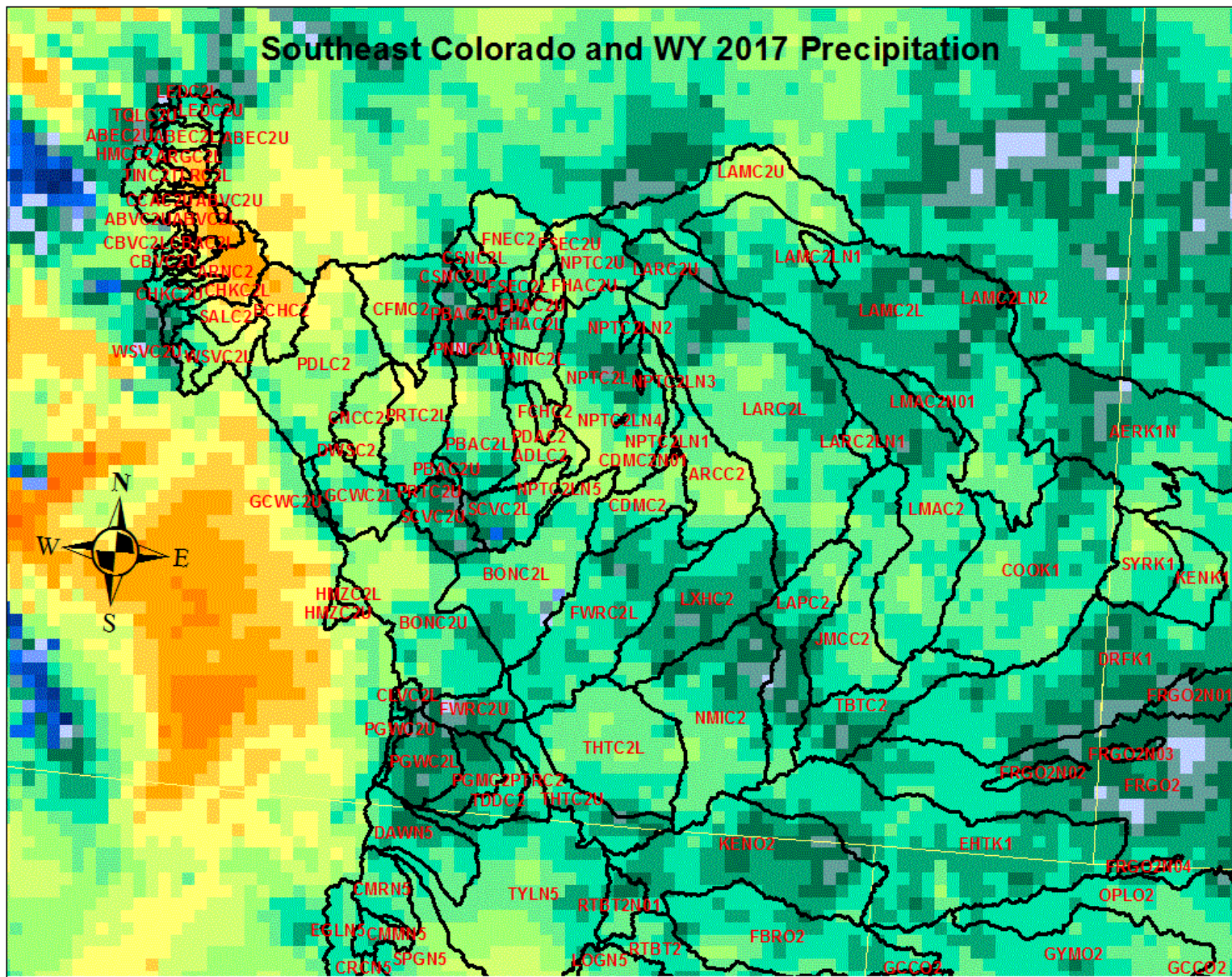
Arkansas-Red Basin River Forecast Center and WY 2017 Precipitation



Southeast Colorado and WY 2017 Precipitation



Southeast Colorado and WY 2017 Precipitation



Site	Area (mi²)	Avg. Annual Precip (in.)	Total Precip Volume (ac-ft x 1000)	Runoff Volume (ac-ft x 1000)	% Efficiency
Chalk Creek @ Nathrop	89	24.3	115	36	31.5
Arkansas R. @ Salida	1,218	17.4	1,082	333*	29.5
Arkansas R. abv. Pueblo	4,670	20.3	4,986	562*	11.1
Grape Creek @ Westcliffe	320	22.9	415	22	5.7
Huerfano R. @ Manzanaras Br.	75	19.7	79	17	21.5
Cucharas R. @ Boyd Ranch	56	27.7	83	30	35.9
Purgatoire R. @ Trinidad	785	27.3	1,144	83*	7.3
Arkansas R. @ Las Animas	14,425	22.8	17,299	262	1.5
Purgatoire R. @ Las Animas	3,441	25.2	4,630	73	1.6



Questions????

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