



The water forecasting partnership project began in the FY2016/2017 under SB 16-174. This original authorization appropriated \$300,000, and was reauthorized for in both HB17-1248 and SB18-218 for \$800,000 each fiscal year. Of those original appropriations, \$200,000 remains unencumbered. Staff requests \$350,000 be appropriated for continuation of this work in FY 2020/2021. The new funds will be used to complete the projects described in the table below. The goal of this program is to acquire new data and refine water supply forecasting. Matching funds will be sought from partners.

A highlight from previous funding years is [the RIO-SNO-FLOW project](#); a multi-year scientific collaboration between CWCB, Conejos Water Conservancy District, NCAR, NASA, and NRCS to refine water supply forecasting in the Conejos Basin.

P R O J E C T D E T A I L S	
<i>Project Cost:</i>	\$550,000
<i>NRI Funding Request:</i>	\$350,000
<i>Funding Source:</i>	Construction Fund
<i>Project Type:</i>	Data and Modeling Upgrades
<i>Type of Grantee:</i>	Funding for Partnerships

L O C A T I O N	
<i>Benefits:</i>	Statewide
<i>Water Source:</i>	Various
<i>Drainage Basin:</i>	All Basins

FY 2020-21 Proposed Funding			
Location	Item	Cost	Notes
Gunnison	NASA ASO Flight	\$250,000	One peak snow flight for Ohio, Taylor, and East River Basin for winter 2020-2021. These flights are meant to help forecast inflows into Taylor and also compliment Crested Butte in a large multi-year research project funded by Department of Energy conducted by the Lawrence Berkeley National Lab (LBNL). LBNL has also funded proposals to evaluate the NASA datasets in the Gunnison Basin.
Rio Grande	NCAR	\$40,000	Maintain 6 stations in Conejos Gunnison basin in partnership with Conejos WCD. Provide forecasts using NOAA's multi-radar multi sensor method from the new radar into the national water model.
Statewide	SNODAS DSS Work	\$40,000	Maintain (SNODAS) daily snowpack data in the DSS and on the Open Water Foundation website.
Southwest	NCAR	\$85,000	Provide experimental forecasting using multi-radar multi-sensor methods to calibrate the radar. This includes 3 new SNOTEL-Lite stations for snowpack runoff and flash flood forecasting.
Continuing Projects			
Statewide	Soil & solar radiation sensors	\$35,000	Soil moisture and solar radiation sensors will be installed on SNOTEL Stations.
Statewide	NRCS SNOTEL Stations	\$60,000	Upper Gunnison River WCD requested one NRCS SNOTEL Station, Upper Arkansas River WCD requested two SNOTEL Stations.
Western Slope	CSAS Database	\$40,000	Develop online database for Center for Snow and Avalanche Studies.
Total:		\$550,000	
Available		\$200,000	
Balance			
New Request		\$350,000	