



COCHISE COUNTY

COMMUNITY DEVELOPMENT

"Public Programs...Personal Service"

MEMORANDUM

Date: April 24, 2013
To: Flood Control District Board of Directors
From: Karen Riggs PE, Director
Subject: Automated Local Evaluation in Real Time (ALERT) - System for predicting emergency situations by collecting real-time data on rainfall.

Recommendation: Approve funding for one of two options.

Option 1) Install three ALERT stations and yearly system maintenance for collecting rainfall data for the total amount of \$34,347 (options 1 & 2 in contract), **OR**

Option 2) Install three ALERT stations and yearly system maintenance for collecting rainfall data (Task 1 & 2 in contract), plus adding 8 ADWR rain gage system maintenance (Task 3 in contraction) of which 4 were installed in the Horseshoe II and Monument Fire areas, for the total amount of \$43,504.

Background: Cochise County is in the second year of a 5-year plan to expand the ALERT system to collect and compile hydrologic data for the purpose of early flood warning throughout the county. The system consists of a network of remote sensors (rain gauges), and a data concentrator and transmitter at Mule Mountain. The sensors transmit real-time rainfall data via radio frequency to the Mule Mountain tower facility where it is rebroadcast to the existing ALERT system comprised of gauges plus data sources (rain gauges and stream gauges) from the USGS, ADWR, and Pima County. The planned activities for 2012 have been completed and funding for 2013 is requested.

Fiscal Impact and Funding Sources:

2013 – 3 Gauges plus System Maintenance	\$34,347 (Firm Quote)
2013 - Maintenance of 8 ADWR gauges	\$ 9,152 (Firm Quote)
2013 – Total	\$ 43,504

Funding source: 261-4010-9-421.600

Next Steps/Actions Items/Follow-up: Contract with JE Fuller for purchase, installation and maintenance of 2013 items.

Impact of Not Approving: Less information regarding emergency flood situations that may develop due to wildfires and other flooding countywide.