



**COLORADO**

**Colorado Water  
Conservation Board**

Department of Natural Resources

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**TO:** Colorado Water Conservation Board Members

**FROM:** Thuy Patton, Floodplain Mapping Coordinator,  
Watershed Protection & Flood Mitigation Section

**DATE:** November 15-16, 2017 Board Meeting

**AGENDA ITEM:** 7a. 2018 Projects Bill  
Non-Reimbursable Project Investments  
(4) Colorado Floodplain Map Modernization Program - Continuation

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### Introduction

In early 2003, Congress approved a substantial funding package to provide updated floodplain mapping nationwide. Similar funding levels have been allocated by Congress in subsequent years. The CWCB approved and the General Assembly authorized a non-reimbursable investment of \$500,000 in the 2003 Construction Fund Bill with annual funding amounts in all subsequent Bills. Staff is now requesting a total of \$100,000 for program funding for this year.

Colorado has received almost \$18 million in federal grant dollars for floodplain mapping related activities since 2003 as part of the floodplain Map Modernization program initiated by FEMA. The FEMA funds are being matched by CWCB and local cost-share dollars to implement the map update work that includes engineering and GIS to create updated countywide floodplain maps. The funds authorized in the 2003 and all subsequent Construction Fund Bills have provided the required non-federal matching dollars. The State funds are further leveraged by local cost share dollars and in-kind services from many communities thus far.

### Staff Recommendation

Staff recommends the Board request the General Assembly to authorize \$100,000 from the Construction Fund to be appropriated to the Department of Natural Resources for allocation to the CWCB to continue to assist with the preparation of revised and improved floodplain studies and maps for communities throughout Colorado and to participate in federally sponsored floodplain map modernization activities.





## Colorado Floodplain Map Modernization

Colorado Water Conservation Board

November 2017 Board Meeting

Colorado has received approximately \$18 million in federal grant dollars for floodplain mapping activities as part of the floodplain Map Modernization/Risk Map Program (Program) initiated by FEMA in 2003. The FEMA funds are being matched by CWCB and local cost-share dollars to implement the map update work to create updated digital floodplain maps and flood risk tools. The initial Program funds authorized in the 2003 and all subsequent Construction Fund Bills have provided the required non-federal matching dollars (80/20 cost share program). The State funds are further leveraged by local cost share dollars and in-kind services from many communities thus far. The total funding amounts have been instrumental in keeping Colorado as a lead state within FEMA Region 8 and will continue to benefit Colorado communities in the future. It is expected that significant FEMA funding will continue as long as the Program exists. Program deliverables will become part of the Flood DSS system to increase data capture and enhance Colorado's decision support tools.

P R O J E C T D E T A I L S	
<i>Project Cost:</i>	\$1,900,000
<i>NRI Funding Request:</i>	\$100,000
<i>Funding Source:</i>	Construction Fund
<i>Project Type:</i>	Matching Funds for Grants
<i>Type of Grantee:</i>	State Government

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

The Program will eventually impact the entire state, and the objective is to develop updated watershed-based and/or countywide floodplain maps using current base map information within a digital environment. The use of GIS technology will be employed for all new countywide studies for ease of distribution, updating and viewing. The table below summarizes funding provided by the CWCB and FEMA/Local governments for CWCB managed projects (in progress or completed).

<u>COUNTY/WTSHD</u>	<u>CWCB Funds</u>	<u>FEMA/Local Funds</u>	<u>COUNTY/WATERSHED</u>	<u>CWCB Funds</u>	<u>FEMA/Local Funds</u>
Archuleta	\$71,000	\$228,760	Mesa	\$33,960	\$435,780
Boulder	\$17,807	\$524,709	Montrose	\$60,376	\$241,503
Clear Creek	\$2,950	\$158,605	Montezuma	\$53,000	\$452,735
Chaffee	\$44,000	\$399,290	Morgan	\$25,000	\$270,700
Delta	\$21,630	\$277,763	Park	\$18,800	\$165,200
El Paso	\$75,635	\$1,472,030	Pitkin	\$20,772	\$466,388
Elbert	\$141,548	\$301,982	Prowers	\$76,605	\$691,024
Fremont	\$23,294	\$146,240	Pueblo	\$71,768	\$1,115,902
Garfield	\$29,912	\$325,000	Rio Grande	\$58,300	\$152,810
Gunnison	\$79,250	\$272,422	Summit	\$21,098	\$189,876
La Plata	\$74,200	\$391,910	Teller	\$23,100	\$207,900
Logan	\$30,550	\$271,050	Weld	\$112,419	\$658,530
St. Vrain	\$88,580	\$354,320	Purgatoire	\$140,137	\$347,963
Clear Creek Wtshd	\$114,060	\$456,240	Cache La Poudre Ph 1 & 2	\$718,834	\$150,000
Upper White Wtshd	\$0	\$353,756	El Paso Approximate Mapping	\$0	\$129,860
Middle South Platte Approximate Mapping	\$0	\$80,000	Cache La Poudre Phase 3		\$285,596
Upper Gunnison 2 Phase	\$38,935	\$126,815	IFSAR (Moffat, Lincoln, Yuma, Phillips, Middle South Platte)	\$100,000	\$250,000
Animas Wtshd Phase 2		\$654,717	CHAMP PMR's		\$929,729
Garfield County Risk Map Phase 2		\$212,558			