

STATE OF COLORADO

Colorado Water Conservation Board Department of Natural Resources

1313 Sherman Street, Room 721
Denver, Colorado 80203
Phone: (303) 866-3441
Fax: (303) 866-4474
www.cwcb.state.co.us



TO: Colorado Water Conservation Board Members

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

DATE: January 16, 2009

SUBJECT: **Agenda Item 9, January 27-28, 2009 Board Meeting**
Colorado Floodplain Map Modernization Program - Business Plan Update

Bill Ritter, Jr.
Governor

Harris D. Sherman
DNR Executive Director

Jennifer L. Gimbel
CWCB Director

Dan McAuliffe
CWCB Deputy Director

Introduction and Background

The Federal Emergency Management Agency (FEMA), in Cooperation with the CWCB and local entities, has administered the Flood Map Modernization (Map Mod) program since 2004. The first phase of Map Mod was a 5-year plan (FY04-FY08) for updating flood maps in areas with greatest flood risk, with a particular focus on counties with the greatest population. For the past 5 years, the CWCB has been working with FEMA as a Cooperating Technical Partner (CTP) to provide updated flood hazard data and maps across the state. As a CTP, the State is eligible for funding from FEMA for activities associated with program management and technical mapping-related activities.

CTP partners who offer significant funding matches are given top priority in allocating funds from FEMA. The CWCB has been committed to achieving a 20 percent cost-share for Map Mod studies, with an average 10 percent cash match from the CWCB and the remainder from the local communities. Colorado is the leading state in Map Modernization for FEMA Region VIII. (Region VIII consists of Colorado, Utah, Wyoming, North Dakota, South Dakota, and Montana).

The transition to Phase II of Map Mod, known as RiskMAP, is set to begin this year. Phase II will be an improved, integrated approach that goes beyond simply mapping the flood hazard areas. It will combine flood hazard mapping, risk assessment tools, and hazard mitigation planning into one seamless program. The CWCB recently updated Colorado's Business Plan to summarize the program for the past 5 years and to identify the newest mapping priorities based on the guidelines from RiskMAP.

Staff Recommendation

Staff recommends that the Board accept the attached document entitled "Colorado Business Plan 2009 Update" as submitted by Staff to FEMA Region VIII.

A decorative graphic consisting of three blue circles of varying sizes, each with a darker blue center and a lighter blue outer ring. These circles are arranged in a descending diagonal line from the top right towards the bottom right. Two thin, light blue lines intersect at the top left and extend diagonally across the page, framing the circles and the text below.

Colorado Business Plan 2009 Update

[The Business Case Plan for the State of Colorado serves to assist the CWCB with identifying statewide map update goals and objectives to assist FEMA in the development and implementation of the Map Modernization Program.]



Table of Contents

1.0.....	CTP Program Overview	3
2.0.....	Program Management Activities	3
Updating State Business Plan		3
Managing Technical Mapping Activities.....		4
Outreach.....		5
Outreach for Levee Procedures		6
Levee Certification Strategy.....		6
Providing Training to State & Local Officials		6
Staffing		6
Mentoring.....		6
3.0.....	Map Mod Achievements	7
Successes for FY08		7
Successes for the Last 5 Years		7
Funding through the CTP Partnership.....		8
Outreach Programs		8
4.0.....	Program Needs	9
5.0.....	MIP EV Variance Action Plan	11
Quality Standards.....		11
6.0.....	State Program Management Approach	12
7.0.....	Program Vision and Future Goals	13
Future Goals		13
Program Vision.....		13

Tables

Table 1 – Technical Mapping Activities.....	4
Table 2 – Map Mod Contract FY08 DFIRM Projects & Funding.....	7
Table 3 – Leveraged Funds.....	8
Table 4 – FY09 Prioritized Pre-scoping Counties.....	9
Table 5 – Colorado Counties by Fiscal Year Start.....	10



Colorado Business Plan FY09 Update

1.0 *CTP Program Overview*

The Fiscal Year 2009 Cooperating Technical Partners (CTP) Program is geared towards addressing key components, requirements, and new aspects of the CTP Program. This document is updated annually and the purpose is to assist FEMA and CTP partners in preparing, developing, and managing CTP activities. This document also addresses administration, funded activities, eligibility and evaluation criteria, reporting requirements, technical capabilities, contracting requirements, standards, certification, funding, and cooperative agreement management for the Program.

FY 2009 is a transition year with the intent of evolving the Map Modernization Management Support (MMMS) program through continued successes that have been seen through that program - into newly formed *Program Management* activities that will help expand the CTP program.

2.0 *Program Management Activities*

Program management is defined in the FY 2009 CTP Guidance as the active process of managing projects which need to meet or exceed pre-defined performance metrics. Integration and communication are key aspects of program management. The required tasks for this activity include developing and updating State and Local Business Plans and managing technical mapping activities. Other related activities may include outreach, providing training to State and local officials, meeting staffing needs, developing Pilot projects as defined by the FEMA Regional office, and mentoring.

Updating State Business Plan

This report provides an update to the Colorado State Business Plan and is intended to fulfill all of FEMA's requirement as stated in the FY 2009 CTP guidance document.

As the Colorado Map Mod Coordinator, the MMMS staff manages the program, day-to-day issues and handles coordination and management of all Map Modernization activities. Much of this effort is spent gaining knowledge of and facilitating the resolution of issues that are presented on a daily basis. The four county projects initiated in 2008 under CWCB's purview brings the total number of counties to 18 in Colorado with ongoing efforts that are coordinated by the MMMS staff. In addition to facilitating resolutions to new issues that arise, the MMMS staff manages the majority of the other tasks typically related to Colorado's Map Modernization (Map Mod) Program.

Project-related tasks include identifying contacts within each county, notifying them of the upcoming project, performing interviews and providing information, coordinating and facilitating all project meetings, producing Mapping Activity Statements (MASs), facilitating the grant application process, reviewing and finalizing scopes of work, providing assistance to each community to meet their accounting needs to obtain locally obligated funds for the Digital Flood Insurance Rate Map (DFIRM) conversion project, gathering FEMA library data and other relevant studies and information, distributing and exchanging information with communities, recognizing problem areas and providing aid to group solutions, and writing memos, notes, and documents as needed and uploading and entering project data into the MIP. Of primary importance in the work effort is maintaining schedules and budgets, and adhering to Federal and State regulations and requirements, and addressing problems as quickly and cost-effectively as possible. Further, the MMMS staff is working on developing outreach materials, providing training and presentations when



needed. Progress continues in the development of a State Map Modernization website, and general Federal/State/consultant, and local government information exchange.

Managing Technical Mapping Activities

FY 2009 serves as a transition year to evolve the MMMS program by continuing the successes seen through the program. New Program Management activities have been created by FEMA to expand the CTP Program. The traditional mapping activities associated with the CTP Program have been grouped together and identified as Technical Mapping activities. These activities are actively being performed by CWCB and are listed in the table below:

Table 1 - Technical Mapping Activities

Activity	Description
Base Map Acquisition	CWCB coordinates with each State contractor and/or FEMA's NSP to ensure the task of acquiring the digital base map for the project and preparing necessary adjustments to the base map for use in the DFIRM meets all FEMA Guides and Specifications (G&S).
Scoping (up to 10%)	CWCB, along with FEMA and State contractors, has conducted scoping meetings to assess community's mapping needs and to initiate the DFIRM process. The CWCB acts as the CCO for the flood study and handles all pre-scoping, and post-scoping activities as well.
Outreach (up to 10%)	Outreach activities have included meetings, letters, conference calls and the CWCB website. Coordination and communication continues throughout the project timeline as needed until the after the Preliminary DFIRM comments have been addressed.
Refinement or Creation of Approximate Zone A Boundaries	CWCB has coordinated with all Mapping Partners regarding the refinement and creation of approximate Zone A boundaries to ensure the quality of the floodplain mapping meets all specified standards. In addition, continued coordination is needed throughout the process to resolve tie-in issues.
Hydrologic and Hydraulic Analyses and Floodplain Mapping (Riverine)	CWCB coordinates with State's contractors to ensure sound hydrologic and hydraulic engineering methods are utilized and meet or exceed standards set forth in the G&S.
Redelineation of Detailed Floodplain Boundaries using updated Topographic Data.	CWCB in coordination with the State's contractors have used more up to date topography data for redelineating effective floodplain boundaries shown on the FIRM. Whenever possible, GIS techniques were utilized.



DFIRM Preparation	CWCB in coordination with the contractors prepare DFIRMs that meet or exceed all FEMA specifications.
Digital Topographic Data Development	Digital data uploading to the MIP is performed by the State's contractors for topographic data development and is in accordance with the G&S
Independent QA/QC Review	CWCB ensures the QA/QC review process is performed.
Post-preliminary Processing	CWCB is responsible for managing the post-preliminary processing of the digital flood maps and any other activity related to the success of issuing the maps.
LOMR delegation	N/A

Outreach

Currently the outreach program of Map Mod is achieved through meetings, letters and conference calls and the CWCB website. The CWCB website provides an overview of the Map Modernization program in Colorado along with its Implementation Plan and Business Case Plan. The CWCB sends out letters to community officials and representatives to initiate contact and inform them of the pre-scoping meeting. The pre-scoping meeting is held to present the Map Modernization program, the concept behind DFIRMs, the advantage of DFIRMs over paper FIRMs, explain the funding needs and begin the coordination of the project. The CWCB continues to be in contact with the communities via email and conference calls until the county specific projects are defined. Once the CWCB has a contract in place with a consultant who will be performing the work, a kick-off meeting is held to start the project, present the project schedule and coordinate how data will be transferred between the State and participating communities. Coordination and communication continues through the project as needed until Preliminary DFIRMs are sent out for review and the final meeting is scheduled as well. Once comments are received by the State from the communities on the preliminary panels, comments are reviewed and a comment resolution is sent out to address all community comments.

Each countywide project within Colorado is unique in regards to knowledge and experience held by the floodplain administrators of each community, local public involvement and concern with changes in the floodplain, historical flooding damage and issues, historical record keeping, and the amount of technology available and used by a County and/or community that will be impacted. Scoping presentations and information provided throughout the project timeline varies by the need of the community and has been tailored appropriately. Preliminary planning and continual coordination has been vital to successful projects in Colorado in addition to providing enough data to help a community determine additional studies necessary to determine and identify the appropriate level of risk.

Additionally, future outreach will be provided through the Colorado Map Modernization website. The CWCB is currently working on the development of a Map Modernization website which community members can learn more about Map Modernization, the program's current status and current status of existing projects. This website will also contain the final DFIRMs, project schedules, meeting minutes and program contact information. Eventually it is planned that the map maintenance program will be integrated into this Map Modernization website structure.



Outreach for Levee Procedures

The State has attended the initial levee inspections performed by the Corps of Engineers (Corps) for the levees listed in the November 2006 levee list for Colorado and the subsequent field reviews for levees owned or inspected by the Corps for the Countywide DFIRM projects recently initiated or currently underway. Coordination continues between the affected local entities, the State, the Corps and FEMA regarding levee issues.

Levee Certification Strategy

The CWCB has integrated a levee policy through its Board and into its Drainage Criteria Manual that follows Federal regulations as outlined in FEMA Procedure Memorandum No. 34 as well as 44 CFR 65.10. Discussions have begun internally in the State to brainstorm ideas and expectations from Colorado's perspective, and what roles certain departments might have in the implementation of a statewide levee program.

Meanwhile, funding opportunities are being explored in an effort to aid communities that are local sponsors of Federally inspected and/or built levees. Some communities have limited means to operate and maintain levee systems to an appropriate level of compliance within the Corps inspection and certification process.

Providing training to State and Local Officials

An outreach effort to educate the local officials about the DFIRM products and program is an ongoing process. In the initial phase, each county, and interested communities within the county, are contacted for a pre-scoping meeting during which the program and its history and benefits are explained. Throughout the process, one-on-one outreach efforts via conference calls, letters, emails, or in-person meetings and workshops are held as needed to assist and support local staff involved in the Map Mod process. The last phase involves a post-preliminary meeting to address any comments and to answer any questions that community officials may have prior to the maps going effective.

In addition, presentations may be given about the DFIRM program at various workshops, seminars, meetings, and conferences throughout Colorado. The future provision of training opportunities will be geared towards meeting the changing needs of Risk Map once more information is known about the next phase of Map Modernization.

Staffing

The CWCB has a full time employee managing the Map Modernization program for the CWCB. This full time employee works to maintain the project budget, reports on status of the projects on a quarterly basis to FEMA, and provides outreach to the affected communities. The CWCB has two consulting firms which provide the technical expertise to create the countywide DFIRMs. In addition, we have a contract employee who is aiding in converting all of the existing paper floodplain studies to digital format and organizing those studies within a publicly available website database.

Mentoring

The CWCB works very hard to provide as much support as a CTP to FEMA. From the very start of the Map Modernization program the CWCB received a grant to develop an extensive State Business Plan



which would give the State’s perspective on prioritization of each county for the DFIRM process. This is the base document from which the Map Modernization program is run and from which it has evolved each year through documents such as this one

3.0 Map Mod Achievements

Successes for FY08

The CWCB conducted several Pre-Scoping and Scoping meetings and interviews in FY08, resulting in 4 MASs and awarded contracts. In addition, FEMA has awarded approximately \$35,000 to fund future scoping meetings for the upcoming RiskMAP phase. The projects and associated funding are shown in the table below. The total funding (FEMA, State and Local) contributed to DFIRM projects and restudies in FY08 was about \$1.6 million. This may increase for a few projects as detail study data is still being gathered.

Levee coordination has begun between the CWCB and the Corps. There have been several levee tours within Colorado to assess existing levees within the Corps levee inspection program. Some of these levees are within DFIRM project counties.

The current plan is to publish DFIRMs for Mesa, La Plata, Arapahoe, Park, Summit, Archuleta, Teller and Delta Counties that will become effective in 2009.

Table 2 - Map Mod Contracts: FY08 DFIRM Projects and Funding

MAS No.	Project	FEMA Grant \$	State \$	Local \$	Total Project \$	Local In-Kind	Total Project Value
33	Montrose County	\$241,503.00	\$60,376.00	\$0.00	\$301,879.00	135,718.00	\$437,597.00
34	Rio Grande County	\$152,810.00	\$58,300.00	0	\$211,110.00		\$211,110.00
36	Elbert County	\$253,982.00	\$141,548.00	\$48,000.00	\$443,530.00		\$443,530.00
37	Gunnison County	\$272,422.00	\$79,250.00		\$351,672.00	100,000.00	\$451,672.00
	Project Scoping Tasks	\$35,443.00			\$35,443.00		\$35,443.00

This past year was both challenging and rewarding for the CWCB to meet and/or exceed mapping needs for the State. Some of the challenges include delays in finalizing some of the State contracts. The CWCB has also responded to the need for outreach to communities regarding additional policies on levees throughout the State in terms of Corps regulations and the FEMA Provisionally Accredited Levee (PAL) agreements. Levee conditions were discovered this past year in several of the DFIRM counties. These levee issues have played a major role in delaying progress and creating additional tasks needed to complete projects.

Successes for the last 5 Years

For the past 5 years, the CWCB has been actively participating in Map Modernization activities and assisting FEMA in achieving the goal of providing digital, high quality, accurate, up-to-date, and



geographically comprehensive flood hazard information to residents in Colorado. The CWCB also recognizes that there are a number of unmet needs as well as lessons learned from past activities.

The CWCB has a long-standing history of floodplain management in Colorado and has been committed to making Map Modernization a success for the State. In the past 5 years, the CWCB has coordinated and facilitated 28 Pre-Scoping and Scoping meetings and interviews and a total of 21 MASs and awarded contracts. Currently there are three counties that are in the Preliminary phase: Archuleta, Teller, and Park counties. An additional three counties are anticipated to go preliminary within the first few months of the 2009. A total of 13 counties have effective DFIRMs in the State of Colorado.

Again, several counties were delayed due to unresolved levee issues. Community officials are not always aware of all levees within their community at the onset of each DFIRM project. However, if levees are properly dealt with early in the process, resolution of issues can often be achieved in a timely manner.

Overall, FEMA has contributed about 80% toward DFIRM conversions and restudies, with about 14% cash contribution from the State and 6% from local governments. The local in-kind contribution is an additional 9% of the total project value. The in-kind dollar value is added to the total amount of leveraged funds contributed at the State and local level. The table below shows a summary of the leveraged funds for the past five years.

Table 3 - Leveraged Funds

TOTALS	DOLLARS	PERCENT*
FEMA \$	\$ 8,154,094	80%
STATE \$	\$1,412,782	14%
LOCAL \$	\$595,280	6%
<i>LOCAL IN-KIND (IK)</i>	<i>\$950,493</i>	<i>Additional 9%</i>
PROJECT VALUE	\$9,675,789	100% + IK

Funding through CTP Partnership

The CWCB supports FEMA’s objective of leveraging State and Local resources and the State is committed to achieving a 20 percent or more cost share on flood mapping projects within Colorado. As a CTP, the CWCB is willing and able to continue successes for the future of map modernization by providing not only coordination and technical support, but through financial cost sharing for the benefit of the Program. The CWCB is committed in its role to work with the local communities in an effort to obtain additional cash matches and in-kind services. For the past five years, the CWCB has provided at least a 10 percent match in cash contribution with the remaining cost share coming from local communities. The CWCB will continue to provide funding as needed to ensure future successes are achieved.

Outreach Programs

In terms of outreach, the CWCB places a high emphasis on communication during the map production process. It is imperative to have a robust outreach program. In particular, local governments must be fully involved in the preparation of maps for their communities. As a CTP agency for Colorado, the CWCB



believes this partnership has enhanced the communication lines between local officials and FEMA and maximizes efficiency for all parties involved.

Some of the successes for providing outreach are achieved through meetings, letters and conference calls and through use of the CWCB website. Additionally, future outreach will be provided through the Colorado Map Modernization website. The development of this Map Modernization website will provide community members a resource to learn more about Map Modernization, the program’s current status and current status of existing projects. This website will also contain the final DFIRMs, project schedules, meeting minutes and program contact information. This website was delayed due to contracting issues, which have been resolved. It is anticipated that the website will be functional and operating at the beginning of 2009.

4.0 Program Needs

The CWCB initially identified a prioritized list of counties to receive map updates as part of the 2002 Map Modernization Implementation Plan (MMIP). Since the creation of the MMIP, both FEMA and the CWCB have determined that changes are warranted from the initial guidance for prioritizing and selecting counties for map updates, especially in light of levee issues and other mapping needs that have been discovered during the process. As a result, the CWCB has revised its initial prioritization criteria and will continue to update them on an annual basis so the priority list can be a “living” document.

Prior to the start of RiskMAP, FEMA requested a list of the top ten prioritized counties from each state in the Region. The table immediately below shows the State’s list of the top fifteen prioritized counties that may be eligible for funding in the FY09 FEMA grant cycle. This list was developed and prioritized based on a different set of criteria than those established originally in the MMIP. These counties were chosen and ranked according to their unmet needs for engineering work needed for mapping, levee issues, availability of topography, and several other related factors. At this time, only a small number of counties in Table 4 will actually be funded in FY09. This may change as additional funding becomes available at the Federal level.

Table 4 - FY09 Prioritized Counties

FIPS	COUNTY	ANTICIPATED FUNDING	YR PRELIM	YR EFFECTIVE
08087	Morgan	2009	2010	2011
08003	Alamosa	2009	2010	2011
08071	Las Animas	2009	2010	2011
08089	Otero	2009	2010	2011
08015	Chaffee	2009	2010	2011
08011	Bent	2009	2010	2011
08099	Prowers	2009	2010	2011
08097	Pitkin	2009	2010	2011
08113	San Miguel	2009	2010	2011
08053	Hinsdale	2009	2010	2011
08091	Ouray	2009	2010	2011
08055	Huerfano	2009	2010	2011
08095	Phillips	2009	2010	2011
08109	Saguache	2009	2010	2011
08075	Logan	2009	2010	2011



The following table shows all counties in the State and the fiscal year in which they either have been started or are anticipated to begin. For Fiscal Year 2009 and beyond, the counties listed are only requested, not guaranteed, at the time this report is written.

Table 5 - Colorado Counties by Fiscal Year Start

FIPS	COUNTY	Sequencing by Fiscal Year		
		First Funded	Year Preliminary	Year Effective
08014	Broomfield	2003	2003	2004
08031	Denver	2003	2004	2005
08035	Douglas	2003	2004	2005
08037	Eagle	2003	2004	2006
08049	Grand	2003	2004	2005
08059	Jefferson	2003	2003	2003
08107	Routt	2003	2004	2005
08001	Adams	2004	2005	2006
08005	Arapahoe	2004	2005	2006
08013	Boulder	2004	2005	2006
08069	Larimer	2004	2005	2006
08019	Clear Creek	2005	2006	2007
08043	Fremont	2005	2006	2007
08045	Garfield	2005	2006	2007
08077	Mesa	2005	2006	2007
08083	Montezuma	2005	2006	2007
08101	Pueblo	2005	2007	2008
08007	Archuleta	2006	2007	2008
08067	La Plata	2006	2007	2008
08119	Teller	2006	2007	2008
08123	Weld	2006	2007	2008
08117	Summit	2007	2008	2009
08041	El Paso	2007	2008	2009
08029	Delta	2007	2008	2010
08093	Park	2007	2008	2010
08039	Elbert	2008	2009	2010
08051	Gunnison	2008	2010	2011
08085	Montrose	2008	2009	2010
08105	Rio Grande	2008	2009	2010
08087	Morgan	2009	2010	2011
08003	Alamosa	2009	2010	2011
08071	Las Animas	2009	2010	2011
08089	Otero	2009	2010	2011
08015	Chaffee	2009	2010	2011
08011	Bent	2009	2010	2011



08099	Prowers	2009	2010	2011
08097	Pitkin	2009	2010	2011
08113	San Miguel	2009	2010	2011
08053	Hinsdale	2009	2010	2011
08091	Ouray	2009	2010	2011
08055	Huerfano	2009	2010	2011
08095	Phillips	2009	2010	2011
08109	Saguache	2009	2010	2011
08075	Logan	2009	2010	2011
08081	Moffat	2010	2011	2012
08021	Conejos	2010	2011	2012
08047	Gilpin	2010	2011	2012
08009	Baca	2010	2011	2012
08017	Cheyenne	2010	2011	2012
08023	Costilla	2010	2011	2012
08025	Crowley	2010	2011	2012
08027	Custer	2010	2011	2012
08033	Dolores	2010	2011	2012
08057	Jackson	2010	2011	2012
08061	Kiowa	2010	2011	2012
08063	Kit Carson	2010	2011	2012
08073	Lincoln	2010	2011	2012
08103	Rio Blanco	2010	2011	2012
08111	San Juan	2010	2011	2012
08115	Sedgwick	2010	2011	2012
08121	Washington	2010	2011	2012
08125	Yuma	2010	2011	2012
08079	Mineral	2010	2011	2012
08065	Lake	2010	2011	2012

The CWCB is currently using tools that are available and the most accurate for community mapping needs. Currently each community’s mapping needs are determined during the pre-scoping phase of the DFIRM project. During the pre-scoping meeting the community officials are asked to provide information about their floodplains and identify where they have found inaccuracies in their maps, where their growth is occurring and where they expect growth to occur. Currently CWCB staff is not able to access data on MNUSS and has not been trained on the population of the MNUSS database. In addition, GIS training and Map Modernization program training (i.e. MNUSS, MIP and Scoping Tool, and ArcGIS) are highly desired.

5.0 MIP EV Variance Action Plan

Quality Standards

The Section 7 MHIP Version 1 standards are being implemented and they are being used in contract agreements between the CWCB and its consultants. The current FBS percentage for each will be reported to



the local FEMA Regions VIII annually to insure accurate reporting and goal projection of Key Performance Indicators (KPIs) for the Region.

In addition, Cost Performance Indexes (CPIs) and Schedule Performance Indexes (SPIs) in the MIP will be used to monitor partner performance to determine future funding eligibility. The CWCB will adhere to the CPI and SPI requirements by being no more than 10% under or over the baselined values. Quarterly reports will include the earned value of all projects and explanations will be provided for any variances outside of the 10% tolerance as defined. In addition, these cost and schedule performance measures will be defined and documented in any future MAS.

6.0 State Program Management Approach

The CWCB has been effective as a CTP partner for the past 5 years and grateful for the opportunity to continue its role in the future to provide more accurate, and up-to-date digital flood hazard mapping for the State. There have been many challenges along the way and many lessons learned, but there has also been much success in our approach and strategy.

Lessons learned include:

- Planning and coordination for the future should be considered early on since timelines of other agencies do not always coincide with that of a countywide project. The earlier the pre-scoping efforts occur, the better prepared communities will be in providing needed project data. This has been somewhat difficult due to an already packed fiscal year schedule, but will continue to be a goal to strive for.
- Community officials are not always aware of all levees within their community. However if levees are found soon enough resolution can be made early on in the project.
- Continue to perform pre-scoping in the fall prior to the project initiation so as to have enough time to educate communities to identify funding sources, allow communities to think about their restudy needs, and finalize contracts with FEMA and consultants.
- Certain detail study needs may not be conveyed the same to the Map Modernization team as it has been conveyed to the NFIP coordinator. Internal communication is crucial both within the State and within the project Counties.
- Having additional MAS in the queue is definitely beneficial to expanding the project list for the year when extra FEMA funding becomes available.
- Continue to work on emphasizing the need for levee certification to communities prior to starting a DFIRM project.
- The State contracting process continues to be a challenge in terms of timing and available human resources. However, daily management and closely monitored contract tracking has been effective for improving the situation.
- Colorado's rules, regulations, policies, and guidelines complement FEMA regulations. The CWCB's role is the designation and approval of the 100-year floodplain information, for example, is stated in the C.R.S. 37-60-106.



7.0 Program Vision and Future Goals

Future Goals

Digital floodplain maps may be considered legal documents and may be distributed based on a “mapping on demand” format in the future. Therefore, the CWCB intends to position itself to contribute to the future of floodplain mapping by building into this Plan the capability to distribute the data in a digital format in future years.

In addition, the CWCB is planning to shift towards utilizing GIS internally to review and develop supporting maps and related documents to assist in better organization and management of DFIRM projects, especially for the counties that involve new mapping activities.

Program Vision

The CWCB has been a Cooperating Technical Partner with FEMA for the past five years and values the concept of what the CTP relationship embodies. The CWCB endeavors to understand and appreciate the national goals and expectations of the program and partnerships involved, and the need to demonstrate progress and successes of the initiative.

Successes in FEMA Region VIII obviously bode well for additional future funding and to convince Congress that their continued support is worthwhile. The CWCB has valued the partnership in the Map Modernization effort and the ability to guide which projects will be subsequent based upon needs around the State of Colorado. The CWCB has developed very good relationships with FEMA and FEMA’s National Service Provider (NSP), and looks forward to continuing along those lines.

The future of Map modernization will be demanding and require continued coordination, but the rewards of achieving effective program management, building and maintaining mutually beneficial partnerships, and enhancing map products for communities Statewide far outweigh the difficult challenges.