



CRS Activity 510

2021 ANNUAL REPORT

Prepared April 10, 2022

Table of Contents

Community Rating System –Background.....	3
Hazard Mitigation Plan Status	4
Town of Morrison Participation:	4
Plan Location:.....	4
Mitigation Action Update	5
Hazard Mitigation Plan Update:	5
Hazard Mitigation Plan Public Outreach Calendar:	6
Building Resilient Infrastructure and Communities Grant: Project Scoping Report.....	8
Mount Falcon Project.....	9
Water Treatment Plant Expansion	9
Summary of Floodplain Activities 2021	11
Floodplain Development Permits Issued.....	11
Building Permits Issued inside the 100-+year SFHA:.....	11
Flood Zone Determination Letters:	11
Elevation Certificates Reviewed and Archived:	11
CLOMR/LOMR Applications Reviewed and Signed:.....	11
No-Rise Certifications Reviewed:	11
Other Floodplain Activity 1/1/2021through 12/31/2021:	11
Ordinance Amendments:	11
Ongoing Public Outreach:.....	11
APPENDIX A	12

Community Rating System –Background

The Community Rating System (CRS) is a voluntary incentive program that recognizes and encourages community floodplain management practices that exceed the minimum requirements of the [National Flood Insurance Program \(NFIP\)](#). Over 1,500 communities participate nationwide.

In CRS communities, flood insurance premium rates are discounted to reflect the reduced flood risk resulting from the community's efforts that address the three goals of the program:

1. Reduce and avoid flood damage to insurable property
2. Strengthen and support the insurance aspects of the National Flood Insurance Program
3. Foster comprehensive floodplain management

Flood insurance premium rates in Community Rating System communities are discounted in increments of 5%. A Class 10 community is not participating in the CRS and receives no discount. A Class 9 community receives a 5% discount for all policies in its Special Flood Hazard Areas, a Class 8 community receives a 10% discount, all the way to a Class 1 community, which receives a 45% premium discount.

Each year, residents in the Town of Morrison who carry flood insurance receive a 5% premium discount based on the Town's participation in the National Flood Insurance Program's Community Rating System. To assure our residents remain eligible for these premium reductions and to continue to participate in the Community Rating System the Town must conduct certain activities, including preparation of an Annual Progress Report that documents CRS activities.

Town of Morrison, Colorado 2020 CRS Rating: 9

No change to the Town's CRS rating is sought at this time. It should be noted that this CRS annual evaluation report, once completed, will be distributed as an informational item to the Town Board. Town Board meetings are advertised on the Town's website and agenda's and supporting materials are archived on the Town's Webpage.

Hazard Mitigation Plan Status

Name of Plan: Jefferson County Multi-Hazard Mitigation Plan

Date of Adoption of Plan: 2021

5-year CRS Expiration Date: 2026

Current Status: in the reporting period, the Jefferson County and partnering communities, including the Town of Morrison completed preparation and secured FEMA adoption of a new Hazard Mitigation Plan.

Town of Morrison Participation:

Jefferson County completed the process for updating its Hazard Mitigation Plan in 2020 - 2021 per the five-year update cycle required by the Federal Emergency Management Agency (FEMA) and the Federal Disaster Mitigation Act of 2000 for a jurisdiction, to qualify for Federal Hazard Mitigation Grant funds.

The Town of Morrison was a plan participant in the Jefferson County Multi-Hazard Plan and is actively participated in the 2021 HMP Update via attending meetings, and gathering information for inclusion to the HMP Update. The 2021 HMP includes an Annex section that is specific to the Town of Morrison.

Plan Location:

The 2021 HMP is available on the Jefferson County website at: [Hazard Mitigation Plan \(HMP\) | Jefferson County, CO \(jeffco.us\)](#). The Town of Morrison specific Annex can be found at that link, via the following link: [JeffCo-2021-HMP-Annexes](#). The Town of Morrison's specific information is found in **Annex F**. (SEE APPENDIX A)

The 2021 Hazard Mitigation Plan can also be accessed via the following link: town.morrison.co.us/

Mitigation Action Update

Hazard Mitigation Plan Update:

In 2021 the Town was an active participant in the preparation of the 2021 Jefferson County HMP Update as previously noted.

The primary purpose of the Jefferson County Hazard Mitigation Plan (HMP) update is to reduce or eliminate long-term risk to people and property from natural and human-caused hazards and their effects on the Jefferson County planning area.

The planning process followed during the update was similar to what was used in the original plan development. This planning process utilized the input from a multi-jurisdictional Hazard Mitigation Planning Committee (HMPC). A consultant, Wood Environment & Infrastructure Solutions, Inc (Wood) was hired to assist with the update in 2021.

Jefferson County and its communities (Town of Morrison, as ANNEX F) have been an integral constituent in nurturing partnerships across boundaries for decades. This proactive approach established the County as a leader to the Front Range communities for hazard mitigation and overall emergency management program planning. This plan builds from the accumulated efforts of previous planning mechanisms that clearly align with the planning regulations set forth by the Disaster Mitigation Act of 2000 (DMA).

For the Town of Morrison, we were active members of the Hazard Mitigation Planning Committee (HMPC) and in cooperating with the planning process we also:

- Reviewed and providing comments on the plan drafts,
- Collected and provided other requested data (as available);
- Managed administrative details;
- Made decisions on plan process and content;
- Assisted in identification of mitigation actions for the plan;
- Provided all information pertinent to projects for Morrison’s Annex F
- Informed the public, local officials, and other interested parties about the planning process, and providing opportunity for them to comment on the plan;
- Coordinated and participating in the public input process; and
- Coordinated the formal adoption of the plan by the governing board of the Town of Morrison

Meeting Type	Meeting Topic	CRS Steps	Meeting Date(s)
HMPC #1 Kick-off Meeting	Introduction to DMA and the planning process Overview of current HMP; Organize Resources: the role of the HMPC, planning for public involvement, coordinating with other agencies/stakeholders Introduction to Hazard Identification	1,2,3	December 7, 2020
HMPC #2 Risk Assessment	Risk assessment overview and work session Development of mitigation goals and objectives;	2,4,5,6	January 11, 2021
HMPC #3 Mitigation Strategy and Goals Update	Identification, prioritization, and status update of mitigation actions; Discussion of process to monitor, evaluate, and update plan	7,8,9,10	February 11, 2021

Hazard Mitigation Plan Public Outreach Calendar¹:

Event/Effort	Message	Dates	Methods Advertised
Online Public Survey	Personal experience with hazard events; public perception of hazard significance; what mitigation measures should be pursued.	January 6, - January 31, 2021	Website posting, Facebook, Twitter
Public Workshop #1 (virtual)	Overview of mitigation planning and plan update process; introduction to hazards and risk assessment; mitigation goals and objectives.	January 21, 2021	Website posting, Facebook, Twitter, YouTube
Public Workshop #2 (virtual)	Overview of draft plan; solicitation of feedback.	June 8, 2021	Website posting, Facebook, Twitter, YouTube
Public Review Draft	Public review and comment on the draft plan.	June 7-25, 2021	Website posting, Facebook
Virtual Public Room	Virtual room for the public to educate the public on mitigation planning and the 2021 plan update, as well as providing opportunities to review and comment on the draft plan.	June 7-25, 2021	Website posting, Facebook
YouTube	Videos of public workshops posted.	Ongoing	NA
Website notices	Notices of process, survey, public workshops, and public review draft posted at Jeffco.us	December 2020 – June 2021	NA
Facebook posts	Updates on process, survey, public workshops, and public review draft posted on County Facebook page.	December 2020 – June 2021	NA
Twitter posts	Updates on process, survey, public workshops, and public review draft posted on County Twitter account.	December 2020 – June 2021	NA
Newspaper article	Arvada Press article "Working Together to Reduce Wildfire Risk in Jefferson County"	March 16, 2021	NA

Town staff participated in many Hazard Mitigation Plan Committee coordination meetings in 2021, a sample meeting agenda is on the following page.

¹ From Section 3.4.1 of the adopted 2021 HMP

Jefferson County Hazard Mitigation Plan Update Mitigation Strategy Meeting Agenda

Date: Thursday, February 11, 2021
9:30 – 11:30 pm MST

Meeting at: Microsoft Teams meeting
[Click Here to Join the Meeting](https://bit.ly/3oDUyDh)
<https://bit.ly/3oDUyDh>
[+1 281-810-1627](tel:+12818101627) United States, Houston
(Toll)
[\(866\) 670-1764](tel:+18666701764) United States (Toll-free)
Conference ID: 852 308 533#

Subject/Purpose

This meeting will focus on updating the plan's mitigation strategy, including the plan's goals and objectives, actions undertaken since the last plan update, and identifying new mitigation activities. All participating jurisdictions and planning team members are encouraged to attend. The meeting will be delivered as a webinar due to the COVID-19 pandemic and social distancing requirements.

Attendees: Hazard Mitigation Planning Committee, Stakeholders and Consultant Team

1. Introductions
2. Review of the Planning Process and Progress to Date
3. Update Mitigation Goals & Objectives
4. Review of progress on Mitigation Actions from 2016 Plan
5. Review of Mitigation Action Categories
6. Development of New Mitigation Actions
7. Next steps
8. Questions and Answers



The Hazard Mitigation Plan was formally accepted by the State and subsequently by FEMA formally on 1/11/2022, and the Hazard Mitigation Planning Committee (HMPC) has now transitioned to the Jeffco All Hazard Mitigation Advisory Committee. This committee conducts regular meetings which Town staff is an active participant in.

Building Resilient Infrastructure and Communities Grant: Project Scoping Report

Morrison has a significant exposure to damage from hazards such as flooding and fire, as well as exposure to earthquake and soil issues. To aid in the identification and prioritization of future mitigation projects, a Mitigation Project Scoping Report will be prepared. The benefit to preparation of this scoping report is substantial and could help to identify projects that and mitigate

FEMA BRIC 2020 State of Colorado Application - Project Ranking Capability & Capacity Building Projects

BRIC Rank Sub-Applicant - Hazard Mitigation Planning Projects

- 1 Colorado Enhanced State Hazard Mitigation Plan Update
- 2 Huerfano County Hazard Mitigation Plan
- 3 Pueblo County Hazard Mitigation Plan
- 4 City of Westminster Hazard Mitigation Plan

BRIC Rank Sub-Applicant - C&CB Project

- 1 Colorado Earthquake Resilience Investigation
- 2 Town of Morrison - Hazard Investigations Project Scoping Grant
- 3 City of Greeley - Flood Investigation Capacity and Capability Building Project
- 4 Routt County - Community Wildfire Protection Plan
- 5 Four Mile Fire Protection District - Partnership for Wildfire Risk Reduction
- 6 Town of Estes Park Capacity Improvements: Big Thompson & Fall Rivers
- 7 Jefferson Conservation District - Building Wildfire Mitigation Capacity in Jefferson County

the risk associated with these events, and help to avoid predicted losses. This proposed project aligns with the goals of the Town's Comprehensive Plan and FEMA Mitigation Strategies.

On January 28 , 2021, we were notified by the State's Office of Emergency Management that the application submitted for a BRIC award was ranked #2 among projects submitted.

The project was subsequently sent to FEMA for approval of award and on January 6, 2022 we were notified the BRIC award was approved.

State Agency Department of Public Safety	Grant Maximum Amount \$33,749.99
Sub-recipient Town of Morrison	Grant Issuance Date January 10, 2022
Small Dollar Grant Agreement Number:	Grant Expiration Date December 29, 2024
Encumbrance #: 2020-BR-094-001	Fund Expenditure End Date December 29, 2024
Sub-recipient DUNS#: 015081433	
Federal Award Identification # (FAIN): EMD-2020-BR-094-001	Grant Authority Federal authority to enter into this Grant exists in the Homeland Security Act of 2002 through CFDA 97.047 and State Authority to enter into this Grant exists in CRS §24-1-128.6.
Total Award of Federal Award: \$33,749.99	
Federal Award Date: December 29, 2021	
Name of Federal Awarding Agency: FEMA CFDA 97.047 Pre-Disaster Mitigation Grant Program	
Identification if the Award is for R&D: No	

The Town Board has elected to issue a Request for Proposal, in order to select a consulting team to complete the work under this BRIC grant. Through scoping of critical projects the Town can become more resilient to disaster and continue to better serve the residents of the Town of Morrison. This BRIC funded project will begin in 2022.

Mount Falcon Project

Morrison's Town Hall is currently situated in the historic downtown area, and is within 1% Annual Chance floodplain, less than 500' from a regulatory floodway. This location has presented challenges for the Town and critical first responder services and equipment are not readily accessible in all conditions. In addition, the Town's Public Works Maintenance Buildings and equipment are located fully in the 1% Annual Chance Regulatory Floodway, and the need for relocation of both these facilities has been identified as a priority by the Town's governing body, in order to maintain the Town's continuity of government during periods of flooding and other catastrophic events. In times of flooding, services to residents can be interrupted should the building become inundated or inaccessible. The relocation of the Town's fundamental operations to a new building will not only provide a safe place for day to day operations for Town staff and equipment, but can act as an emergency/evacuation shelter in times of catastrophic flooding. This protects the Town's fleet assets valued at \$100,000 and building contents valued at \$400,000, and avoids the potential for loss of life (priceless value) and property if first responders are unable to respond to threats in a timely and effective manner. The town is partnering with Jeffco Open Space to augment parking at this facility to add additional parking for Jeffco's Mt. Falcon Open Space, which will directly improve Open Space access for emergency response.

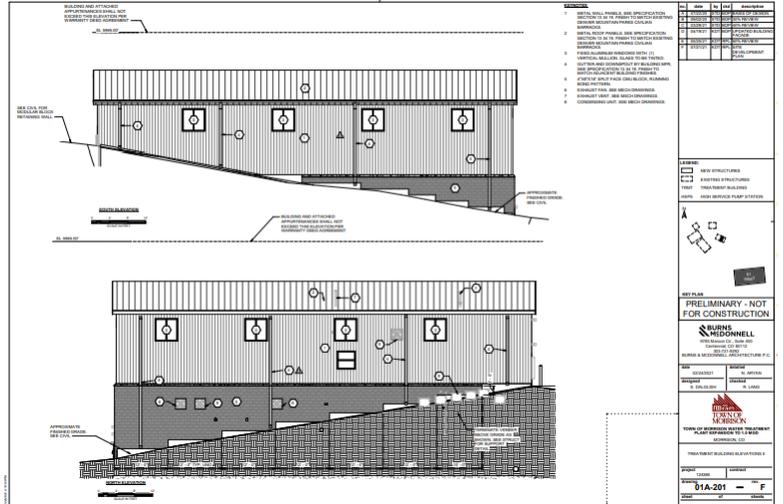
In 2021 the Town acquired the property for this project and Town staff have conducted numerous meetings with the Department of Local Affairs (DOLA) in 2021 in an effort to secure funding for the new Town Hall complex and Mount Falcon trailhead project. Jefferson County staff are active participants with the Town and have agreed to partner with the Town on this important project. DOLA has made recommendations and has encouraged the Town to seek grant funding. Jefferson County has agreed to a cost share, and a formal cost share agreement will be developed in 2022. The Town and Jeffco Open Space will seek grant funding in 2022 to help to fund this project.

Water Treatment Plant Expansion

Morrison completed the preparation of a Water and Wastewater Master Plan in 2017. This Plan provided information on the Morrison's water and wastewater systems, and identified system needs in order to improve the town's resiliency through improving existing systems, adding redundancy, and improving storage volume needed for potable water and firefighting. Identified upgrades to the Town Water Treatment Plant include membrane and pretreatment upgrades, addition of altitude valves, analysis/repair of existing distribution system, rehabilitation of the interconnection meter vault, MCMD Storage Tank rehabilitation, rockfall mitigation along the raw water pipeline, and MCMD Bear Creek Diversion abandonment. This will help protect the Town from economic losses associated with system failure, and failure to provide adequate potable water and inability to treat wastewater has wide implications, including potential closure of a large assisted living facility, along with schools, Town Hall and other local businesses. Residents depend on these services, which benefit the entire population and visitors, which drive the town's economy. The avoided losses are difficult to evaluate, but they would likely be equivalent to the \$51 million of projected loss associated with wildfire predicted in the 2016 HMP

The MWTP Expansion project is located at the existing MWTP site at 17811 Union Avenue Morrison, CO in Jefferson County. The proposed expansion will expand the 0.5 MGD Morrison Water Treatment Plant to 1.0 MGD through the addition of a new treatment building with two parallel pretreatment trains and two membrane skids with chlorine disinfection. The project includes a new flash mix system, two 3-stage horizontal flocculation basins followed by lamella

plates. The existing pressure membrane skid will be abandoned in place and will be replaced with two 1.0 MGD pressure membrane skids. A 30" chlorine contact pipe will provide additional volume for contact time. A new vertical turbine pump will be installed to increase the high service pump station firm capacity. The process waste will be directed to the existing sanitary sewer at a rate not greater than 350 gpm. Project construction will be conducted during operation of the existing plant and care will be taken to not disturb current operations. The proposed building floor area is 4634 SF and will be installed on a 0.97-acre site.



In 2021 the Town, with partner Mount Carbon Metropolitan District, hired Burns and McDonnell Engineering to prepare plans for the Water Treatment Plan Expansion. Plans for the treatment facility have been finalized, and construction will initiate upon the finalization of the planning process for the property acquired for the plant site, construction is anticipated to begin in June of 2022.

Summary of Floodplain Activities 2021

During this reporting period Morrison staff conducted the following activities specific to the Town's mapped Special Flood Hazard Area (SFHA):

Floodplain Development Permits Issued: 6

TOWN of MORRISON, COLORADO					
Town Engineer Review Log					
Time Period: 1/1/2021 through 12/31/2021					
Project Address	Project Type (SFR, Subdivision, Commercial, etc)	SFHA? (Y or N)	Elevation Certificate if in SFHA?	Comments	
211 S. Park Ave.	SFR	Y			
401 Mt. Vernon St.	Commercial	Y			
103 Bear Creek	Commercial	Y			
105 Cannon Street	SFR	Y			
211 Bear Creek Avenue	Commercial	Y	N	Special Review for Change in Use - No proposed change to building etc.	
Yale/Indiana Intersection	ROW Work	N		Grading Improvements in the ROW	
905 Bear Creek Ave	Commercial	N		Special Review for Change in Use	
17811 Union Av	Utility (New WTP)	N		Site Plan Review for Proposed WTP	
Co. Hwy 8 (285 to Bear Creek Ave)	ROW Work	Partially	N	Fiber Optic Install - no change to finish grades etc.	
216 Spring St	ROW Work	N		Landscape Work w/ in Town ROW	

Building Permits Issued inside the 100+-year SFHA: 4

Flood Zone Determination Letters: 0

Elevation Certificates Reviewed and Archived: 1

CLOMR/LOMR Applications Reviewed and Signed: 0

No-Rise Certifications Reviewed: 0

Other Floodplain Activity 1/1/2021 through 12/31/2021:

Ordinance Amendments:

1. The Updated Hazard Mitigation Plan was formally adopted by the Town's Board at their regular meeting in October 2021.

Ongoing Public Outreach:

The Town's Planning Department, Public Work's Department and Building Department's Municipal Code and permitting information and regulations are available on the Town's website, and the Town of Morrison's Police Department has a webpage, which includes a number of links for the Town's Citizens. One link is to the Morrison Hogback, a newsletter distributed with the Town's utility bills that advises the community of current events. In 2021 the newsletter included messages regarding flood preparedness.

In addition to specific departmental information the Town's website includes links to specific emergency preparedness on the State, Federal and Local Resources tab:

APPENDIX A

HAZARD MITIGATION PLAN ANNEX F. TOWN OF MORRISON