

# Appendix B

## Public Meeting Materials and Worksheets

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## Example of Community Profile with Questions

### City of Glenwood Springs Community Profile

*Please list the name, title, and jurisdiction/agency of individuals completing this profile.*

#### Planning Team

Name	Title

#### Location and Geography

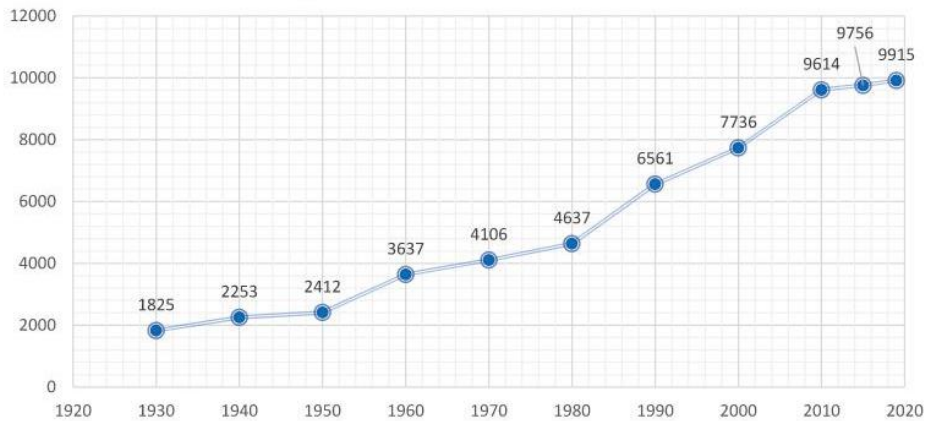
Glenwood Springs is located in Garfield County in northwestern Colorado. Glenwood Springs covers an area of 5.69 square miles.

#### Population and Demographics

Glenwood Springs' population grew from 9,756 people in 2015 to 9,915 people in 2019. Glenwood Springs' population accounted for 16.8 percent of County population in 2019.

*According to the census data, Glenwood Springs' population is increasing. What factors are contributing to this?*

Figure GLW.1: Population 1930 – 2019



Source: US Census Bureau

The most vulnerable components of the population in a disaster are women, children, minorities, and the poor. In comparison to the County, Glenwood Spring's population was:

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- **Slightly older.** The mean age of Glenwood Springs was 37.1 years old in 2019, compared with the County average of 36.5 years. The mean age of Glenwood Springs' population has decreased since 2015, when the mean age was 36.8 years old. Glenwood Springs had a smaller proportion of people under 20 years old (24.9 percent) than the County (27.7 percent).<sup>1</sup>
- **Increasing in ethnic diversity.** Since 2015, Glenwood Springs grew more ethnically diverse. In 2015, 25 percent of Glenwood Springs' population was Hispanic or Latino (2,478 people). By 2019, about 27.2 percent of Glenwood Springs' population was Hispanic or Latino (2,701 people). When compared to the county, however, Glenwood Springs is less diverse than the population at large. The Hispanic population in the County increased from 28.1 percent in 2015 to 28.4 percent in 2019.<sup>2</sup>
- **More likely to be below the federal poverty line.** The poverty rate in Glenwood Springs (9.2 percent of people living below the federal poverty line) was higher than the County's poverty rate (8.6 percent) in 2019.<sup>3</sup>

### Employment and Economics

The City's economic base is a mixture of tourism and commercial uses. Consideration of Glenwood Springs' economy is important in mitigation planning. In comparison to Garfield County, Glenwood Springs' economy had:

- **Similar mix of industries.** Glenwood Springs' major employment sectors, accounting for 10 percent or more of employment each, were: Retail Trade, Construction, Professional and Scientific industries, and Educational Services and Health Care. Garfield County's industries include Construction, Retail Trade, Professional and Scientific jobs, Educational Services, and Arts and Entertainment.<sup>4</sup>
- **Higher household income.** Glenwood Springs' median household income in 2019 (\$86,929) was about 11,000 greater than the County (\$75,937).<sup>5</sup>
- **Fewer long-distance commuters.** About 39 percent of workers in Glenwood Springs commuted for fewer than 15 minutes, compared with an estimated 27.7 percent of workers in Garfield County. Approximately 36.1 percent of workers in Glenwood Springs commute 30 minutes or more to work, compared to about 45.4 percent of the County workers. This is an indicator of the importance of the transportation infrastructure within the city and the connection to County infrastructure for the local economy.<sup>6</sup>

### Housing

Understanding the characteristics of Glenwood Springs' housing stock is important to mitigation planning. Housing that is in poor condition is more likely to be at-risk during recovery than housing in good condition. Some indicators of condition include housing tenure and housing age, older renter-occupied housing is more likely to be in poor condition than newer owner-occupied housing. Garfield County has adopted the 2015 International Building Codes as of July 1, 2016. All residential and commercial developments must follow these regulations. However, homes and structures built prior to building code adoption may not meet current regulatory standards. In comparison to Garfield County, Glenwood Springs' housing stock was:

<sup>1</sup> United States Census Bureau. "2019 American Fact Finder: S0101: Age and Sex." [database file]. <https://factfinder.census.gov/>.

<sup>2</sup> United States Census Bureau. "2019 American Fact Finder: DP05: ACS Demographic and Housing Estimates." [database file]. <https://factfinder.census.gov/>.

<sup>3</sup> United States Census Bureau. "2019 American Fact Finder: DP03: Selected Economic Characteristics." [database file]. <https://factfinder.census.gov/>.

<sup>4</sup> United States Census Bureau. "2019 American Fact Finder: DP03: Selected Economic Characteristics." [database file]. <https://factfinder.census.gov/>.

<sup>5</sup> United States Census Bureau. "2019 American Fact Finder: DP03: Selected Economic Characteristics." [database file]. <https://factfinder.census.gov/>.

<sup>6</sup> United States Census Bureau. "2019 American Fact Finder: S0802: Means of Transportation to Work by Selected Characteristics." [database file]. <https://factfinder.census.gov/>.

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- **More renter-occupied.** About 49.6 percent of occupied housing units in Glenwood Springs are renter occupied compared with 33.4 percent of occupied housing in Garfield County.<sup>7</sup>
- **Older.** Glenwood Springs had a larger share of housing built prior to 1970 than the County (33.7 percent compared to 17.6 percent).<sup>8</sup>
- **More multifamily.** Although the predominant housing type in the city is single family detached, Glenwood Springs had a larger percentage of multifamily housing with five or more units per structure (27.4 percent) than the County average (13.4 percent). An estimated 43.4 percent of housing in Glenwood Springs was single-family detached, compared with 62.4 percent on the County's housing. Glenwood Springs had a smaller share of mobile and manufactured housing (4.9 percent) compared to the County (9.7 percent).<sup>9</sup>

*Approximately how many mobile homes are located in Glenwood Springs?*

**Land use, Development, and Transportation**

Several regional transportation routes bisect the city: I-70 (which is also a hazardous materials transportation route), a rail line, and several State highways. A network of recreational trails also surrounds the city.

*What has changed over the past five years (since 2017)? (For example: new housing or businesses? Demolished buildings? New roads or areas of improvements?)*

*Were any new structures developed in the floodplain, WUI, or other hazardous areas If so, what types of structures and where were they developed?*

*Are there any new developments planned for the next five years (residential or commercial)? Where?*

**Critical Facilities and Infrastructure**

Each participating jurisdiction identified critical facilities vital for disaster response, providing shelter to the public, and essential for returning the jurisdiction's functions to normal during and after a disaster. Critical facilities were identified during the original planning process and updated by the local planning team as a part of this plan update. The following table and figure provide a summary of the critical facilities for Glenwood Springs and whether they are in known hazard areas.

<sup>7</sup> United States Census Bureau. "2019 American Fact Finder: DP04: Selected Housing Characteristics." [database file]. <https://factfinder.census.gov/>  
<sup>8</sup> United States Census Bureau. "2019 American Fact Finder: DP04: Selected Housing Characteristics." [database file]. <https://factfinder.census.gov/>  
<sup>9</sup> United States Census Bureau. "2019 American Fact Finder: DP04: Selected Housing Characteristics." [database file]. <https://factfinder.census.gov/>



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**The table below lists critical facilities identified in the 2017 HMP. Please update and provide the type, name and address of critical facilities in your jurisdiction. Please list if these facilities have a generator if known.**

**Critical facilities should be identified based on the seven Community Lifelines as identified by FEMA.**

- **Safety and Security – law enforcement, fire services, search and rescue, government services, and community safety buildings**
- **Food, Water, and Shelter**
- **Health and Medical – medical facilities, patient movement, public health, fatality management, and medical supply chain**
- **Energy – power or fuel**
- **Communications – infrastructure, alerts warnings or messages, 911 dispatch, responder communications, finance**
- **Transportation – highway/roadway, mass transit, railway, aviation**
- **Hazardous Materials – facilities, HAZMAT**

**Table GLW.1: Glenwood Springs Critical Facilities**

Number	Name	Generator? (Y/N)	Floodplain	Dam Inundation	Wildfire Hazards	Geologic Hazards
1	Glenwood Springs Amtrak Station		No	Yes	Low	Soils
2	Glenwood Springs Fire Station #2		No	Yes	Low	Landslides
3	Glenwood Springs City Hall		No	Yes	Low	Soils
4	Glenwood Springs Branch Library		No	Yes	Low	Landslides
5	Garfield County Sheriff & Jail		No	Yes	Low	Soils
6	Garfield County Courthouse		No	Yes	Low	Landslides
7	Glenwood Springs Elementary School		No	Yes	Low	Soils
8	Garfield County Administration Building		No	Yes	Low	Landslides
9	Glenwood Springs Fire Station 1		No	Yes	Moderate	Soils
10	Glenwood Springs Post Office		No	Yes	Low	Landslides
11	Municipal Operations Center		No	No	Moderate	Landslides, Soils
12	Glenwood Springs Community Center		No	Yes	Moderate	Landslides, Soils
13	Yampah Mountain High School		No	Yes	Moderate	Landslides, Soils
14	Glenwood Springs Middle School		No	Yes	Moderate	Soils
15	Bolitho Elementary School		No	Yes	Low	Soils
16	Glenwood Springs High School		No	Yes	Low	Soils

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Number	Name	Generator? (Y/N)	Floodplain	Dam Inundation	Wildfire Hazards	Geologic Hazards
17	Saint Stephens Catholic School and Parish Center		No	No	Low	Soils
18	Glenwood Springs Police		No	Yes	Low	Soils
19	Colorado Mountain College Glenwood Center		No	No	Low	Soils
20	Colorado Mountain College Administration		No	Yes	Low	Landslides
21	US Forest Service		No	Yes	Low	Landslides
22	Sopris Elementary School		No	No	Low	None
23	Glenwood Springs Fire Protection District Station #3		No	No	Moderate	Soils
24	Glenwood Springs Municipal Airport		No	No	Moderate	None
25	Roaring Fork Transit Authority Garage		No	No	Moderate	Landslides, Soils
26	Glenwood Center for the Arts		No	Yes	Low	None
27	Glenwood Springs Recycle Center		No	Yes	Low	Soils
28	Garfield County Administration Annex		No	Yes	Low	Landslides
29	Garfield County Human Resources		No	Yes	Low	Landslides
30	Glenwood Springs Wastewater Treatment Plant		No	Yes	Moderate	Landslides, Soils

**What new or additional critical facilities are located in Glenwood Springs?**

**Table GLW.1: New Critical Facilities in Glenwood Springs, CO**

#	Name	Address	Generator? (Y/N)	Hazard concerns?
1				
2				
3				
4				
5				
6				

**Health and Medical Facilities**

The following medical and health facilities are located within the community.

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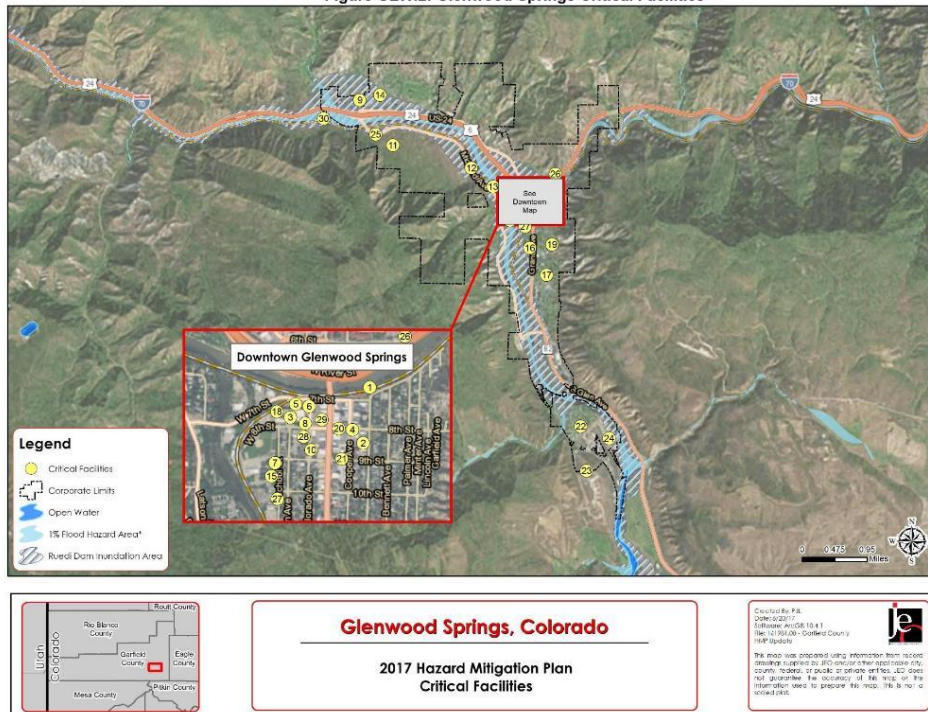
**Table GLW.6: Glenwood Springs Medical Facilities**

Type of Facility	Facility Name	Operating Status
Assisted Living Residence	Creekside Assisted Living	Closed – Owner
Assisted Living Residence	Glenwood Springs Harmony House Inc	Closed-Owner
Nursing Home	Glenwood Springs Healthcare	Active
IDD – Group Home	Grand Avenue Group Home	
Home Care Agency/Home Health Agency	Homecare of the Valley	
Hospice	Hospice of the Valley	
Home Health Agency	Innovage Home Care Aspen	
IDD – Program Approved Services	Life Resources LLC	
Home Care Agency/IDD – Program Approved Services	Mountain Valley Developmental Services Inc	
IDD – Group Home	Oakhurst House	
IDD – Group Home	Pitkin House	
Assisted Living Residence	Renew Roaring Fork	
Home Care Agency	Sopris Home Care LLC	
IDD – Group Home	Sopris House	
IDD – Program Approved Services	Splendor Services	
Hospital	Valley View Hospital Association	
IDD – Group Home	Yampah House	

Source: Colorado Department of Public Health and Environment

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**Figure GLW.2: Glenwood Springs Critical Facilities**





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**Historic and Cultural Resources**

Downtown Glenwood Springs is an important retail center and tourist destination with significant historical and cultural importance. The Spa of the Rocky Mountains and the hot springs pool are important to the local economy and are also significant cultural and historical resource. Doc Holiday’s grave located within Linwood Cemetery is a common tourist destination for people visiting the area. Glenwood Springs also has many trails and amenities that add to the tourist industry.

**Historic Places**

The following table lists Historic Sites in the City of Glenwood Springs according to the National Register of Historic Places.

**Table GLW.6: City of Glenwood Springs Historical Sites**

Name	Location	Date Listed
Canyon (Canon) Creek School, District No. 32	0566 County Road 137	1/6/2004
Cardiff Coke Ovens	County Road 116, approximately 1.5 miles south of Glenwood	11/15/1996
Citizens National Bank Building	801 Grand Ave	7/15/1999
Earnest Ranch	6471 County Road 117	5/1/1998
Glenwood Springs Hydroelectric Plant	601 6 <sup>th</sup> St	10/14/1998
Hotel Colorado	526 Pine St	5/26/1977
South Canon Bridge	County Road 134	2/4/1985
Starr Manor	901 Palmer Ave	6/20/1986
Sumers Lodge	1200 Mountain Dr	6/20/1997
Edward T. Taylor House	903 Bennett Ave	10/14/1986
Western Hotel	716 Cooper Ave	3/15/2016

Source: National Register of Historic Places, 2021<sup>10</sup>

**Community Organizations & Programs**

There are several community organizations and programs in Glenwood Springs that could assist in implementing mitigation measures:

- Kiwanis Club
- Roaring Fork Conservative
- Rotary Club
- Chamber of Commerce
- Homeowners Associations
- Neighborhood Watch Groups

Additionally, the City has established several Boards and Commissions to guide decision making and implementation of its programs and services:

- Downtown Development Authority
- Financial Advisory Board
- Volunteer Firefighter Pension Board
- Historic Preservation Commission
- Parks and Recreation Commission
- Planning and Zoning Commission

<sup>10</sup>National Register of Historic Places: Garfield County Colorado. 2021. <https://www.nationalregisterofhistoricplaces.com/co/garfield/state.html>

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- River Commission
- Transportation Commission
- Tourism Promotion Board
- Victims and Witnesses Assistance and Law Enforcement Board

***What additional programs or resources are utilized in the community?***

**Administrative Structure**

Glenwood Springs is guided by a 7-member City Council and 13 departments:

- Information Services
- Finance
- Community Development
- Fire Department
- Parks and Recreation
- Public Works
- City Clerk
- Human Resources
- Legal Department
- Broadband
- Electric Department
- Police Department
- Municipal Court

***Please list any additional offices, departments, or committees in the community which would assist with hazard mitigation related activities:***

**Hazard Prioritization**

This section expands on Garfield County's Natural Hazards Mitigation Plan by addressing Glenwood Spring's unique risks to the following hazards:

- Wildfire
- Flood
- Landslide and Debris Flow
- Hazardous Materials

***Wildfire***

In 2002, the Coal Seam Fire damaged 20+ homes on the west side of town. This fire led to several evacuations. A secondary concern of the local planning team is that wildfire downs trees and intensifies debris flows.

In general, the County's Risk Assessment adequately describes the risk from wildfires within the areas surrounding the City of Glenwood Springs, given the data currently available (refer to Section Four: Risk Assessment, p. 23-33). The County is also in the process of updating its Community Wildfire Protection Plan (CWPP). The CWPP will continue to inform the wildfire risk related information included in the HMP. The City of Glenwood Springs will work with the County

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and the surrounding rural fire protection districts to evaluate and understand the implications of the CWPP to the City's wildfire risk and action items.

With this mitigation plan addendum, the City wishes to acknowledge the following geographic areas and related vulnerabilities in which local risk is greater than the risk described in the County's risk assessment, and in which additional actions are warranted to reduce the risk to life and property:

- Glenwood Springs is surrounded by development that is considered to be wildland urban interface, these areas pose a risk for wildfire to move from forested areas into the corporate boundaries. Glenwood has a unique topography merging steep hillsides adjacent to the city boundary. Wildfire from any one of these slopes would have a negative impact to the residents and businesses adjacent to the hillside slopes. The City's water plant on Red Mountain may be more vulnerable to wildfire than other critical facilities.

***What past wildfire events have impacted the community? What damages were reported?***

***What regulations or codes are in place to reduce Wildfire Vulnerability? (WUI code, building codes, etc.)***

***What other areas of concern exist in or around the community?***

***What specific mitigation efforts have been taken to reduce risks?***

***Flood***

The City has identified the following geographic areas and related vulnerabilities in which local flood risk is greater than the risk described in the County's risk assessment, and in which additional actions are warranted to reduce the risk to life and property from flooding. The bullets below are ordered according to their importance to the community (highest priority infrastructure is listed first):

- The Three Mile Creek culvert at southern end of the city. The culvert under Midland Road at Three Mile Creek could experience flooding that may lead to washouts of the road, removing an important transportation and evacuation route for both City and County residents.



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- The Mitchell Creek floodplain at the northwestern corner of the City is prone to flooding; this flooding has the potential to block important transportation corridors on Donegan Rd, as well as impacting population and private property.
- The east side debris basins. In the early 70's, the city experienced debris flows from the surrounding hillsides impacting numerous residence and City infrastructure. To help reduce the impact of these debris flows, debris basins were constructed above the properties in this area of town.
- A mobile home park located on the Roaring Fork River is prone to flooding.
- The main water supply for the city is piped over the Colorado River. While this line was recently raised, it remains critical infrastructure that should be monitored.
- The 7th St interchange, near the confluence of the Colorado River and the Roaring Fork, is subject to flooding.
- Veltus Park is subject to flooding; the handicapped fishing ramp was closed for several weeks during the floods in June of 2011.

**Mitigation Success:**

The City of Glenwood Springs is not new to risk reduction activities. The following are some of the recent mitigation actions that the City has taken:

- Raised the water main line, which transfers water over the Colorado River
- Constructed drainage basins on the east side of town
- Build debris collection basins above the alluvial fan on Midland Road and the Meadows
- The 27th St. bridge has had scouring repairs completed to its pillars, per Colorado Department of Transportation recommendations

**The National Flood Insurance Program (NFIP)**

Glenwood Springs participates in the NFIP by adopting and enforcing floodplain management ordinances to reduce future flood damage. In exchange, the NFIP makes federally backed flood insurance available to homeowners, renters, and business owners in these communities. Preliminary Flood Insurance Study (FIS) Flood Insurance and Rate Maps (FIRM) are effective as of October 15, 1985. There are no repetitive loss properties in the City of Glenwood Springs.

**Table GLW.2: Glenwood Springs NFIP Statistics**

Jurisdiction	Policies In-Force	Total Coverage	Total Premiums	Closed Losses	Total Payments
Glenwood Springs	21	\$8,522,000	\$46,123	10	\$26,590.03

*Source: NFIP Community Status Book, July 2021; NFIP Policy and Claim Statistics*

***Have there been any changes since the last plan? Does this accurately describe the community's risk or concern related to this hazard? Please describe past events and their impacts on the community.***

***Which areas are most prone to flooding? Which areas in town have poor stormwater drainage?***

***What actions or projects are currently planned to improve your response to this hazard?***



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***What actions or projects are needed in the future to improve your response to this hazard?***

***Landslides, Mud/Debris Flow, Rockfall***

Small landslides/debris flows are an annual occurrence in Glenwood Springs. In 2016, severe storms led to significant debris flows. The following geographic areas and related vulnerabilities experience local landslide and debris flow risk that is greater than the risk described in the County's risk assessment. Additional actions are warranted to reduce the risk to life and property from landslides and debris flows in these areas:

- The Meadows area, which was recently developed with new commercial development, is located on an alluvial fan at the base of a steep slope that is subject to rockslides and landslides. Debris basins were built to reduce the vulnerability but continuing to maintain and monitor this area is important.
- Debris flows are possible on all portions of the city; debris basins have been built on the eastern portion of the city but it is not known if these basins are sized adequately or for what criteria. There is continued rock fall and smaller debris flows on the western portion of town which has no protection. This is an ongoing issue that continues to be monitored.

***Have there been any changes since the last plan? Does this accurately describe the community's risk or concern related to this hazard? Please describe past events and their impacts on the community.***

***What actions or projects are currently planned to improve your response to this hazard?***

***What actions or projects are needed in the future to improve your response to this hazard?***

***Hazardous Materials***

Several hazardous materials transfer routes (most notably I-70 and the rail line) bisect the County; spills or accidents along these lines, which also run near the Colorado River, could result in contamination of the source of drinking water for communities in the County and downstream of the County.

In Glenwood Springs, the railroad tracks run adjacent to the historic downtown area; spills there from accidents could result in economic loss and impact the health and safety of residents and retail patrons in this area. The City's drinking water source is No Name Creek, a tributary of the Colorado River. As a result, spills upstream on the Colorado would not affect the Town's drinking water source, but would affect wildlife habitat and recreational resources.

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Additional local concern focuses on hazardous material storage sites located near residential areas. The Forest Service is currently removing underground fuel tanks to reduce this risk.

*Have there been any changes since the last plan? Does this accurately describe the community's risk or concern related to this hazard? Please describe past events and their impacts on the community.*

*What are the local response resources? Do they have protective gear and training?*

*What actions or projects are currently planned to improve your response to this hazard?*

*What actions or projects are needed in the future to improve your response to this hazard?*

**New Hazards of Top Concern**

*The following hazards are evaluated in the regional Hazard Mitigation Plan. From this list, please circle any other hazards which your community is pursuing mitigation efforts for. If top concerns are already identified for your community, please skip this section.*

- Wildfire
- Flooding
- Hazardous Materials
- Landslide/Debris Flow/Rockfall
- Severe Winter Weather
- Drought
- Public Health Emergency
- Avalanche
- Earthquakes
- Erosion and Deposition
- Lightning
- Pest Infestation
- Severe Wind
- Terrorism

*In the space below please provide a description for additional hazards including past event descriptions, injuries, fatalities, property/crop damages, and current or future mitigation efforts.*

*Hazard: \_\_\_\_\_*

*Justification – please include specific concerns and a description of past damages.*

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**Capability Assessment**

The capability assessment consisted of a review of local existing policies, regulations, plans, and programs with hazard mitigation capabilities. The following tables summarize the jurisdiction’s planning and regulatory capability; administrative and technical capability; fiscal capability; educational and outreach capability; and overall capability to implement mitigation projects.

*Please check the right column in the following table for your community. The table includes responses from the 2017 HMP. If there have been changes or updates, please cross out the answer and provide the updated answer and date.*

**Table GLW.3: Capability Assessment**

Survey Components/Subcomponents		Yes/No
<b>Planning &amp; Regulatory Capability</b>	Comprehensive Plan	Yes (2014)
	Capital Improvements Plan	Yes
	Economic Development Plan	Yes (1997)
	Emergency Operational Plan	Yes
	Floodplain Management Plan	No
	Storm Water Management Plan	No
	Zoning Ordinance	Yes
	Subdivision Regulation/Ordinance	Yes
	Floodplain Ordinance	Yes
	Building Codes	Yes
	National Flood Insurance Program	Yes
	Community Rating System	No
Other (if any)		
<b>Administrative &amp; Technical Capability</b>	Planning Commission	Yes
	Floodplain Administration	Yes
	GIS Capabilities	Yes
	Chief Building Official	Yes
	Civil Engineering	Yes
	Local Staff Who Can Assess Community's Vulnerability to Hazards	Yes
	Grant Manager	Yes
	Mutual Aid Agreement	Yes
Other (if any)		
<b>Fiscal Capability</b>	Capital Improvement Plan/ 1 & 6 Year plan	Yes
	Applied for grants in the past	Yes
	Awarded a grant in the past	Yes
	Authority to Levy Taxes for Specific Purposes such as Mitigation Projects	Yes
	Gas/Electric Service Fees	Yes
	Storm Water Service Fees	No
	Water/Sewer Service Fees	Yes
	Development Impact Fees	Yes
General Obligation Revenue or Special Tax Bonds	Yes	



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	Other (if any)	
<b>Education &amp; Outreach Capability</b>	Local citizen groups or non-profit organizations focused on environmental protection, emergency preparedness, access and functional needs populations, etc. Ex. CERT Teams, Red Cross, etc.	No
	Ongoing public education or information program (e.g., responsible water use, fire safety, household preparedness, environmental education)	Yes
	Natural Disaster or Safety related school programs	Yes
	StormReady Certification	No
	Firewise Communities Certification	No
	Tree City USA	Yes
	Other (if any)	

***In comparison to the previous HMP, please rate your jurisdiction's overall capability in the following ways (Limited, Moderate, or High)***

Overall Capability	2017 Plan Limited, Moderate, High	2022 Plan Limited, Moderate, High
Does the jurisdiction have the financial resources needed to implement mitigation projects?	Moderate	
Does the jurisdiction have the staff/expertise to implement projects?	Moderate	
Does the jurisdiction have the community support to implement projects?	Moderate	
Does the jurisdiction have the time to devote to hazard mitigation?	Moderate	

**Plan Integration**

The following provides a summary of the community planning mechanisms that were analyzed using guidance from FEMA's 2014 *Plan Integration Guide*.

The 2014 Glenwood Springs Comprehensive Plan has a natural hazards subsection. Within this subsection, geologic, wildfire, and flooding hazards are discussed. The plan identifies strategies to reduce the risk to these hazards. The plan also identifies strategies to encourage water conservation.

The 2014 Glenwood Springs Source Water Protection Plan identifies potential risks to surface water and groundwater quality within the watershed, promotes management practices to protect and enhance the drinking water supply, and provides for a comprehensive action plan in case of an emergency that threatens or disrupts the community water supply.

The City's engineering standards are built into the development review process. Consideration for hazard areas is incorporated within those engineering standards.

The Glenwood Springs Municipal Code establishes Hazard Avoidance Districts and Hazard Mitigation Districts. These districts limit development in the area unless the proposed developments meet engineering standards.



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As Glenwood Springs’s population continues to grow, the city will be required to develop a storm water management program as a small MS4 in order to comply with the National Pollutant Discharge Elimination System of the EPA.

Glenwood Springs has several planning mechanisms that incorporate hazard mitigation. The City will continue to incorporate mitigation into existing and future planning mechanisms as opportunities are identified in order to further the sustainability and resiliency of the community.

***This section to be updated at Round 2 meetings***

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**Mitigation Action Items**

Short and long-term action items identified through the planning process are an important part of the mitigation plan. Action items are detailed recommendations for activities that local departments, citizens and others could engage in to reduce risk.

***New and Ongoing Actions:***

Action and Description	Hazards Addressed	Goals	Estimated Cost	Potential Funding	Timeline	Priority	Lead Agency	Status
<b>Evaluate and Improve Bridges:</b> Continue to evaluate and improve bridges in Glenwood Springs in collaboration with CDOT and County	All Hazards	1,2	Unknown	Glenwood Springs General Fund, CDOT	Ongoing	High	Assistant City Manager	This action was originally identified in the 2012 plan. Glenwood Springs is currently building the new Grand Avenue Bridge. Glenwood Springs will continue to improve bridges as well as evaluate the need for additional bridges. The 27 <sup>th</sup> Street Bridge improvements are currently in design. The City is evaluating the need for a south bridge for redundancy.
<b>Status</b>								
<b>Comprehensive Plan:</b> Review comprehensive plan and development codes for opportunities to more effectively reduce risks to new development	All Hazards	1,5	Unknown	Glenwood Springs General Fund	1 year	High	Planning Department	This action was originally identified in the 2012 plan. Glenwood Springs is in the process of updating the development code. The current development code addresses flood

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Action and Description	Hazards Addressed	Goals	Estimated Cost	Potential Funding	Timeline	Priority	Lead Agency	Status
								damage prevention, and development in areas of geologic hazards.
<b>Status</b>								
<b>National Flood Insurance Program:</b> Continue compliance with the NFIP through the enforcement of local floodplain ordinances	Flooding	1,5	Staff Time	Glenwood Springs General Fund	Ongoing	High	Floodplain Administrator	This action was originally identified in the 2012 plan. Glenwood Springs is in good standing with the NFIP.
<b>Status</b>								
<b>Update Flood Insurance Rate Maps:</b> Update the city's FIRMs if funding becomes available	Flooding	4,5	Staff Time	Glenwood Springs General Fund, Garfield County General Fund	1 Year	High	Floodplain Administrator, Garfield County Senior Planner	This action was originally identified in the 2012 plan. Garfield County is in the process of updating the FIRMs throughout the county.
<b>Status</b>								

Section Seven: City of Glenwood Springs Community Profile

Action and Description	Hazards Addressed	Goals	Estimated Cost	Potential Funding	Timeline	Priority	Lead Agency	Status
<b>Replace Culvert:</b> Replace the culvert at Three Mile Creek	Flooding	1,2	Unknown	Glenwood Springs Municipal Fund	2-5 years	High	Engineering Department	This action was originally identified in the 2012 plan. The City replaced half of the culvert in 2013, planning to replace the other half in 2018-2019.
<b>Status</b>								
<b>Reduce Debris in Creek:</b> Work with BLM to develop a plan for removing dead trees from the Mitchell Creek area to reduce debris that blocks the creek and results in flooding.	Flooding	2,3	Unknown	Glenwood Springs municipal Fund, Bureau of Land Management	2-5 years	Medium	Engineering Department	This action was originally identified in the 2012 plan. Not yet started.
<b>Status</b>								
<b>Public Education:</b> Continue to educate the public about the role of proper tree pruning and stability in preventing damage during windstorms	High Winds	4,5	Unknown	Glenwood Springs Municipal Fund	Ongoing	Medium	Engineering Department	This action was originally identified in the 2012 plan. The City regularly prunes trees as a part of their ongoing maintenance program. The city is exploring options to mitigate the Ash Borer.

APPENDIX B | PUBLIC MEETING MATERIALS AND WORKSHEETS

Section Seven: City of Glenwood Springs Community Profile

Action and Description	Hazards Addressed	Goals	Estimated Cost	Potential Funding	Timeline	Priority	Lead Agency	Status
<b>Status</b>								
<b>Asset Management:</b> Develop asset management system to inventory trees	High Winds, Winter Storms	4,5	Unknown	Glenwood Springs Municipal Fund	2-5 years	Medium	Engineering Department	This is a new action. Not yet started.
<b>Status</b>								
<b>Evaluate Sufficient Access for Evacuation:</b> Evaluate sufficient access for evacuation on south side of town	All Hazards	1	Unknown	Glenwood Springs Municipal Fund	2-5 years	Medium	Engineering Department	This is a new action. Not yet started.
<b>Status</b>								
<b>Implement Rockfall Mitigation:</b> Implement rockfall mitigation measures in areas with slopes greater than 10 percent	Rockfall	1,5	Unknown	Glenwood Springs Municipal Fund	Ongoing	Medium	Engineering Department	This is a new action. The City implements rockfall mitigation projects as opportunities are identified and funds are available.

Section Seven: City of Glenwood Springs Community Profile

Action and Description	Hazards Addressed	Goals	Estimated Cost	Potential Funding	Timeline	Priority	Lead Agency	Status
<b>Status</b>								
<b>Stormwater Management Plan:</b> Implement projects identified in the stormwater management plan.	Flooding	1,2,3,4,5	Varies by Project	Glenwood Springs Municipal Fund	Ongoing	Medium	Engineering Department	This is a new action. Ongoing effort.
<b>Status</b>								
<b>Soil and Rockfall Mitigation:</b> Utilize the development process to require the development of soil remediation and rockfall mitigation in known risk areas.	Geologic Hazards	1,3,4,5	Staff Time	Glenwood Springs Municipal Fund	Ongoing	Low	Engineering Department	This is a new action. Ongoing effort.
<b>Status</b>								
<b>Update Hazard Maps:</b> Update Geologic Hazard Maps	Geologic Hazards	1,2,4,5	Staff Time	Glenwood Springs Municipal Fund	2-5 years	Low	Engineering Department	Many of the Geologic Hazard maps are from the 1970's. Some sections of town are not covered.
<b>Status</b>								

**Completed Actions:**

Action and Description	Hazards Addressed	Goals	Funding	Lead Agency	Status
<b>Assess the Resilience of Facilities:</b> Assess the resilience of the wastewater treatment plan and water intake pond and develop improvements accordingly as part of the capital facilities plans for water and wastewater infrastructure.	All Hazards	1,2	Bond	Engineering Department, City Administration	This action was originally identified in the 2012 plan. A new treatment plant was built in 2013-2014. Glenwood Springs has a direct intake on stream. This infrastructure is sufficient for current and future needs.

**Removed Actions:**

Action and Description	Hazards Addressed	Reason for Removal
<b>72-Hour Kits:</b> Continue to encourage citizens to prepare and maintain 72-hour kits.	All Hazards	This action was originally identified in the 2012 plan. Continue to encourage citizens to prepare and maintain 72-hour kits.
<b>Collaborate with the County to Educate Citizens about Weatherization:</b> Collaborate with the County to educate citizens about ways to weatherize their homes, as well as safe emergency heating equipment	All Hazards	This action was originally identified in the 2012 plan. Glenwood Springs has some rebate programs for energy efficiency. However, this action was determined to be a County led effort.

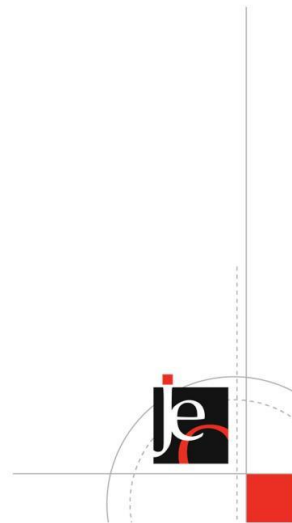


## Kick-Off Meeting PowerPoint Slides



## Agenda

- Introductions
- Planning Team Responsibilities
- Hazard Mitigation Plan (HMP) Overview
- Project Goals
- Hazards to be Profiled
- Participants and Requirements
- Project Schedule and Next Steps



## Introductions

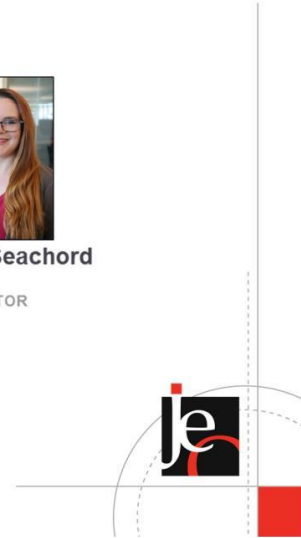
- Say Hello!
- From JEO:



**Phil Luebbert**  
PROJECT MANAGER

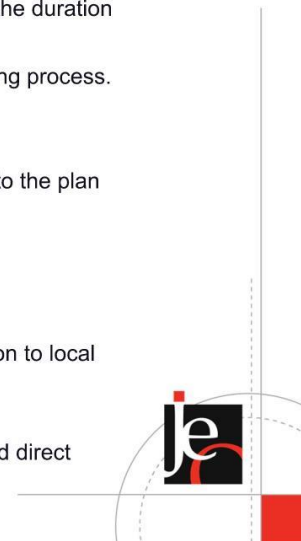


**Brooke Seachord**  
PROJECT  
COORDINATOR

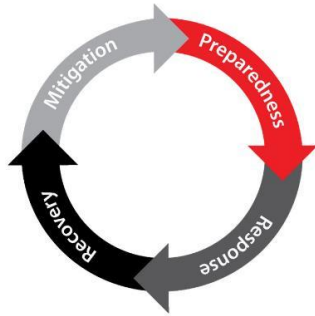


## County Planning Team Responsibilities

- Assist in Coordination
  - Guide this activity as a community-guided document.
  - Provide guidance and input to the planning process through the duration of the project.
  - Review and evaluate mitigation projects/action items.
  - Ensure that adequate support is being provided to the planning process.
- Assist in Gathering Data
  - Work closely with communities, stakeholders, and JEO.
  - Assist with identification and collection of local data relevant to the plan update.
- Assist in Dissemination of Information
  - Serve as a local contact to planning participants.
  - Encourage communication with all participants.
  - Disseminate information at public events.
  - Communications management for dissemination of information to local outlets.
- Attend Meetings
  - Meet throughout the plan development process to assess and direct progress of the mitigation plan.



## Hazard Mitigation – What is it?



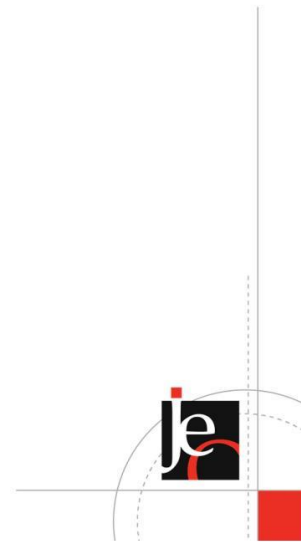
**FEMA defines Mitigation as**

*“...efforts to reduce loss of life and property by lessening the impact of disasters; taking action now—before the next disaster—to reduce human and financial consequences later (analyzing risk, reducing risk, insuring against risk).”*



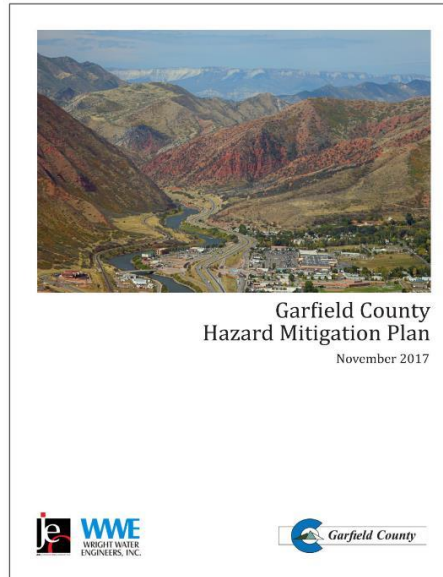
## HMP Overview

- Multi-jurisdictional multi-hazard plan update
- Process led by the Regional Planning Team
- Plan expires November 12, 2022
- Updates and changes since 2017
- Participating jurisdictions eligible for FEMA grant funding opportunities

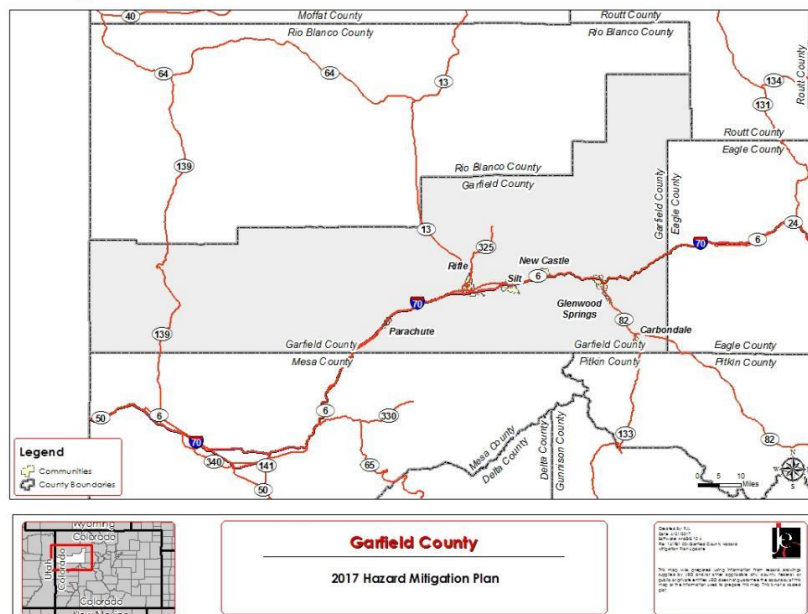


## What will the plan look like?

- Description of Planning Process
- Planning Area Profile
- Risk Assessment
- Mitigation Actions and Strategies
- Plan Implementation and Maintenance
- Participant Sections



## Planning Area





## 2017 Goals

### Goals from previous plan – *any changes?*

- **Goal 1:** Reduce the loss of life and personal injuries from natural hazard events
- **Goal 2:** Reduce damage to public assets
- **Goal 3:** Reduce public costs of disaster response and recovery
- **Goal 4:** Minimize economic losses
- **Goal 5:** Reduce damage to personal property



## 2017 HMP Hazards

### Tier 1 Hazards

- Wildfire
- Flooding
- Hazardous Materials
- Landslide/Debris Flow/Rockfall
- Hazardous Soils
- Severe Winter Weather

### Tier 2 Hazards

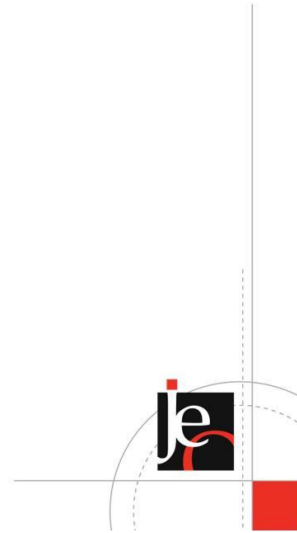
- Avalanche
- Drought
- Earthquakes
- Erosion and Deposition
- Lightning
- Pest Infestation
- Severe Wind
- Terrorism



## Participation Requirements



1. Attend Meetings
2. Provide Information
  - Complete worksheets and surveys
  - Provide copies of planning mechanisms
  - Update and identify new mitigation actions
  - Review plan drafts
3. Adopt the plan via resolution

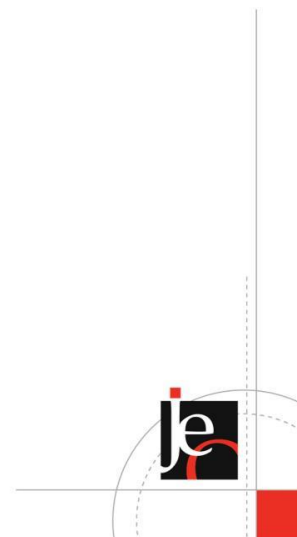


## Potential Participants



### 2017 PARTICIPANTS

- Garfield County
- Carbondale
- Glenwood Springs
- New Castle
- Parachute
- Rifle
- Silt
- Carbondale and Rural Fire Protection District
- Colorado River Fire Rescue
- Glenwood Springs Rural Fire Protection District
- Grand Valley Fire Protection District

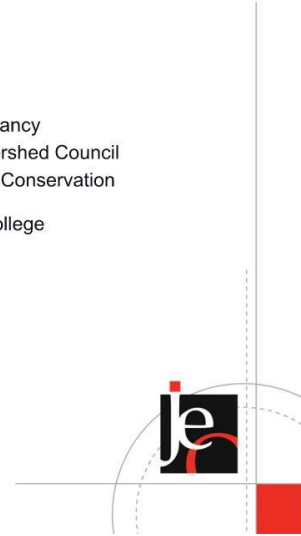


## Potential Stakeholders

***Are there other potential participants that should be included in the planning process?***

### POTENTIAL STAKEHOLDERS

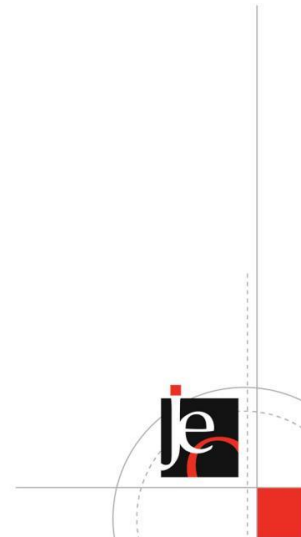
- School Districts
- Chambers of Commerce/Economic Development Agencies
- Medical Facilities
- Colorado Forest Service
- Bureau of Land Management
- Colorado Parks and Wildlife
- Bureau of Reclamation
- CO – Department of Transportation
- Roaring Fork Conservancy
- Middle Colorado Watershed Council
- Colorado River Water Conservation District
- Colorado Mountain College
- Xcel Energy
- Holy Cross Energy
- Oil/Gas Companies
- HOAs



## Planning Process and Schedule

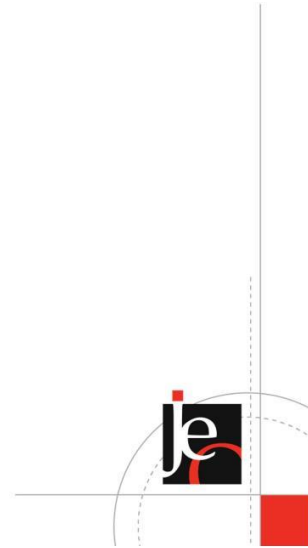
- Kick-off Meeting - July 2021
- Round 1 Meetings - August-September 2021
  - *Potential Round 1 Meeting Dates?*
- Round 2 Meetings - November 2021
- Public Review Period - January 2022
- Plan Submission - February 2022
- Plan Approval - Spring 2022
- Adoption Resolutions - Summer 2022

*Plan expires November 2022; schedule subject to change*



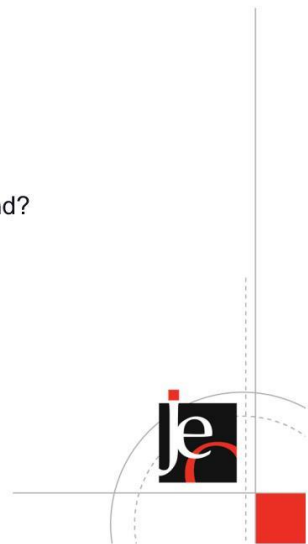
## Next Steps

- Invite others to participate
  - Involve stakeholder groups
  - Send specific contacts to Brooke
  - Project flyer
  - Press release?
- Schedule Round 1 Meetings
- Collect plans/ organize resources
- Project website?



## Personal Project Goals?

- What would make this a successful project in your mind?



## Project Contacts



- JEO Consulting Group
  - Phil Luebbert, (402) 474-8768, [pluebbert@jeo.com](mailto:pluebbert@jeo.com)
  - Brooke Seachord, (402) 474-8741, [bseachord@jeo.com](mailto:bseachord@jeo.com)
  
- Wright Water Engineers
  - Scott Schreiber, (970) 945-7755, [sschreiber@wrightwater.com](mailto:sschreiber@wrightwater.com)
  
- Garfield County Emergency Management
  - Chad Whiting, (970) 945-1377 ex.1050, [cwhiting@garcosheriff.com](mailto:cwhiting@garcosheriff.com)



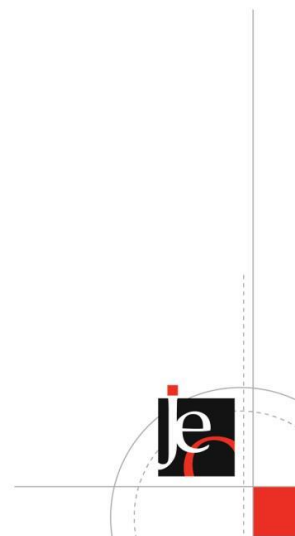


## County Meeting 2 PowerPoint Slides



## Agenda

- Introductions
- County Overview
- Community Lifelines
- Hazard Discussion
- Planning Process and Next Steps



## Introductions

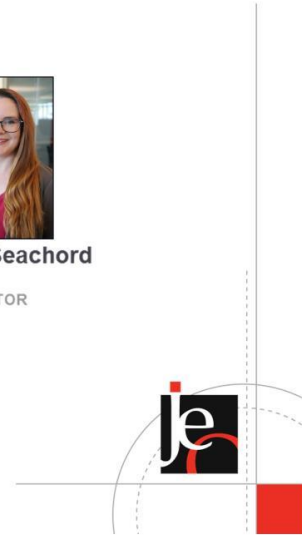
- Say Hello!
- From JEO:



**Phil Luebbert**  
PROJECT MANAGER



**Brooke Seachord**  
PROJECT  
COORDINATOR



## County Overview - Demographics

- *What drives population growth in the county?*
- *What new developments have been built or are planned in the county?*
- *How has industry developed/contracted in the past five years?*



## Capabilities

Survey Components/Subcomponents		Yes/No	Survey Components/Subcomponents		Yes/No
Planning & Regulatory Capability	Comprehensive Plan	Yes	Fiscal Capability	Capital Improvement Plan/ 1 & 6 Year plan	Yes
	Capital Improvements Plan	Yes		Applied for grants in the past	Yes
	Economic Development Plan	Yes		Awarded a grant in the past	Yes
	Emergency Operational Plan	Yes		Authority to Levy Taxes for Specific Purposes such as Mitigation Projects	Yes
	Floodplain Management Plan	No		Gas/Electric Service Fees	No
	Storm Water Management Plan	No		Storm Water Service Fees	No
	Zoning Ordinance	Yes		Water/Sewer Service Fees	No
	Subdivision Regulation/Ordinance	Yes		Development Impact Fees	Yes
	Floodplain Ordinance	Yes		General Obligation Revenue or Special Tax Bonds	Yes
	Building Codes	Yes		Education & Outreach Capability	Local citizen groups or non-profit organizations focused on environmental protection, emergency preparedness, access and functional needs populations, etc. Ex. CERT Teams, Red Cross, etc.
National Flood Insurance Program	Yes	Ongoing public education or information program (e.g., responsible water use, fire safety, household preparedness, environmental education)	Yes		
Community Rating System	No	Natural Disaster or Safety related school programs	No		
Planning Commission	Yes	StormReady Certification	No		
Floodplain Administration	Yes	Firewise Communities Certification	No		
GIS Capabilities	Yes	Tree City USA	No		
Chief Building Official	No				
Civil Engineering	Yes				
Local Staff Who Can Assess Community's Vulnerability to Hazards	Yes				
Grant Manager	Yes				
Mutual Aid Agreement	Yes				
Other (if any)					

## 2017 HMP Critical Facilities

#	Name	Floodplain	Dam Inundation	Geologic Hazards	Wildfire Hazards
1	Glenwood Springs Fish Hatchery	No	No	Landslides, Soils	High
2	Colorado Mountain College Spring Valley Campus	No	No	Soils	Moderate
3	Battlement Mesa Activity Center	No	No	None	None
4	L W St John Middle School	No	No	None	None
5	Bea Underwood Elementary School	No	No	None	None
6	FAA Facility	No	No	Landslides	Moderate
7	Wastewater Treatment	No	No	None	None
8	Garfield County Landfill	No	No	None	None
9	South Canyon Municipal Landfill	No	No	Landslides, Soils	Moderate
10	Battlement School	No	No	None	None
11	Coal Ridge High School	No	No	Soils	Low
12	Interagency Fire Center	No	No	Soils	Low
13	Hanging Lake Tunnels Fire Dept	No	No	Landslides	Moderate
18	Rifle Fish Hatchery	No	No	None	Moderate
14	Rifle-Garfield County Airport	No	No	Soils	Low
15	Grand Valley Middle School	No	No	None	None
16	Waldorf School	No	Yes	None	Low
17	Garfield County Sheriff Annex	No	No	None	None
19	Garfield County Sheriff Annex	No	No	Soils	Low
20	Garfield County Criminal Justice Services	No	No	Soils	Low
21	Garfield County Road & Bridge Administration	No	No	Soils	Low
22	Garfield County Road & Bridge Motor Pool	No	No	Soils	Low
23	Colorado Division of Parks & Wildlife - Area 8	No	Yes	None	High
24	Garfield County Administration	None	Yes	None	Low
25	Garfield County Sheriff's Office and Court	None	Yes	Soils	Low
26	Garfield County Clerk	None	Yes	None	Low

## Community Lifelines



A lifeline enables the continuous operation of **critical government** and **business functions** and is essential to **human health** and **safety** or **economic security**.





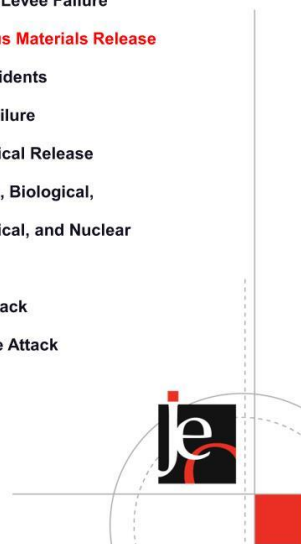
## Community Lifelines Examples for Garfield County

- Safety and Security
  - Garfield County Sheriff Facilities
  - Administration (Courthouse and County Clerk)
- Food, Water, and Shelter
  - Shelter locations
  - Wells, lagoons, water treatment facilities
- Health and Medical\*
  - Hospitals, Clinics, etc. *(Information provided by Colorado Department of Public Health and Environment)*
- Energy
  - Power substations
- Communications
  - Key Communication Towers/Sirens
- Transportation
  - County Roads Shops
  - Key transportation infrastructure
- Hazardous Materials
  - Tier II facilities
  - Pipelines



## CO State HMP Hazards

- |                         |                                      |                               |
|-------------------------|--------------------------------------|-------------------------------|
| • Dense Fog             | • Erosion and Deposition             | • Infrastructure Failure      |
| • Drought               | • Expansive Soils and Heaving        | • Dam and Levee Failure       |
| • Extreme Heat          | • Bedrock ( <i>Hazardous Soils</i> ) | • Hazardous Materials Release |
| • Flood                 | • Landslides, Mud/Debris             | • Mine Accidents              |
| • Hail                  | • Flows, and Rockfalls               | • Power Failure               |
| • Severe Wind           | • Radon, Carbon Monoxide,            | • Radiological Release        |
| • Severe Winter Weather | • Methane Seeps                      | • Chemical, Biological,       |
| • Thunderstorms and     | • Subsidence & Abandoned             | • Radiological, and Nuclear   |
| • Lightning             | • Mine Lands                         | • Attack                      |
| • Tornadoes             | • Animal Disease                     | • Cyber Attack                |
| • Wildfire              | • Pandemic                           | • Explosive Attack            |
| • Avalanche             | • Wildlife-Vehicle Collisions        |                               |
| • Earthquake            | • Pest Infestation                   |                               |



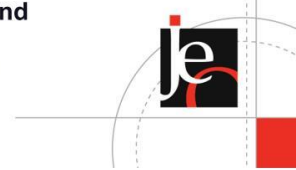
## Garfield County Hazards

### Tier I Hazards

- Wildfire
- Flooding
- Hazardous Materials
- Landslide/Debris Flows/Rockfalls
- Severe Winter Weather
- Drought
- Public Health Emergency

### Tier II Hazards

- Avalanche
- Earthquakes
- Erosion and Deposition
- Hazardous Soils
- Lightning
- Pest Infestation
- Severe Wind
- Terrorism



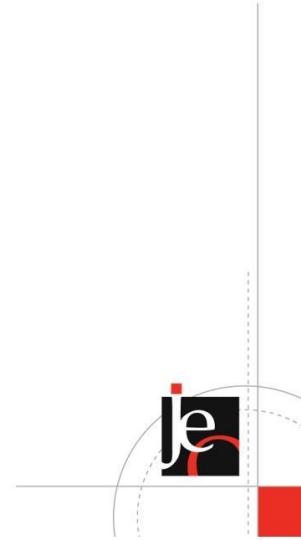
## Hazard Risk Discussion – Counts and Damages

HAZARD TYPE	Count	Property	Other Damages/Impacts
<b>Tier I Hazards</b>			
Wildfire	Data TBD	Data TBD	
Flooding	Flash Flood	40	\$743,100
	Flood	17	\$5,028,000
Hazardous Materials	313	\$316,700	14 fatalities, 41 injuries
Landslide/Mud or Debris Flows/Rockfall	21	\$2,733,456	8 injuries, 2 fatalities
Drought	518/1,518 months in drought	\$0	\$1,971,656 crop damage
Public Health Emergency	~6,555 cases; 51 deaths	0	
Severe Winter Storms	Blizzard	10	\$2,627,707
	Extreme Cold/Wind Chill	5	
	Heavy Snow	330	
	Ice Storm	3	
	Winter Storm	734	
Winter Weather	1,499		7 injuries, 1 fatality \$18,301,618 crop damage
<b>Tier II Hazards</b>			
Avalanche	57	\$16,236	18 injuries, 32 fatalities
Earthquake	24	\$0	
Erosion and Deposition	2	\$589,404	
Hazardous Soils	Data TBD	Data TBD	
Lightning	4	\$196,983	2 fatalities
Pest Infestation	Unknown	Unknown	
Severe Wind	101	\$862,940	3 injuries
Terrorism	0	\$0	
<b>TOTALS</b>	<b>3,160</b>	<b>\$10,486,819</b>	

## Hazard Risk Discussion

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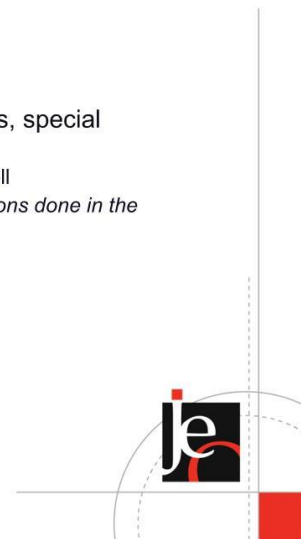
- Methodology
- Questions to Consider
  - what's changed in past five years*
  - what major events have occurred*
  - damages, injuries, fatalities*
  - impacts to the local infrastructure or economy*



## Planning Process Engagement Strategies

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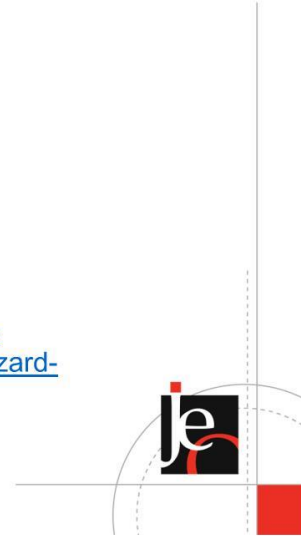
- Share the project flyer
- Inform local boards and councils
- Survey for local engagement – residents, stakeholders, special interest groups
  - To be sent to county planning team members to share as well
  - Goal? *Example: to collect local concerns, priorities, and actions done in the past*
- Open House
  - Virtual open house, date TBD
- Social Media Posts
- Spanish Outreach



## Next Steps



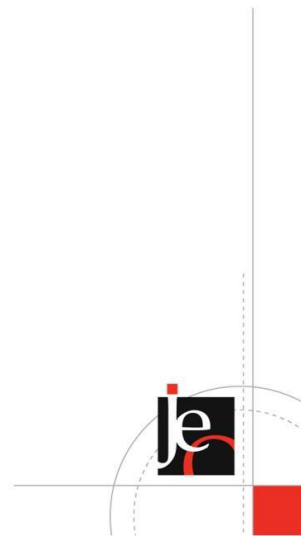
- Attend Meetings – next meeting TBD
- Invite others to participate
  - Involve stakeholder groups
  - Send specific contacts to Brooke
  - Share project flyer
- Provide any requested data
- Collect plans/ organize resources
- Send time worked to Chad!
- Check out project website - <https://www.garfield-county.com/emergency-management/natural-hazard-mitigation-plan/>



## Next Meeting Agenda



- Plan Integration and Capabilities
- Plan Maintenance
- Mitigation Strategies

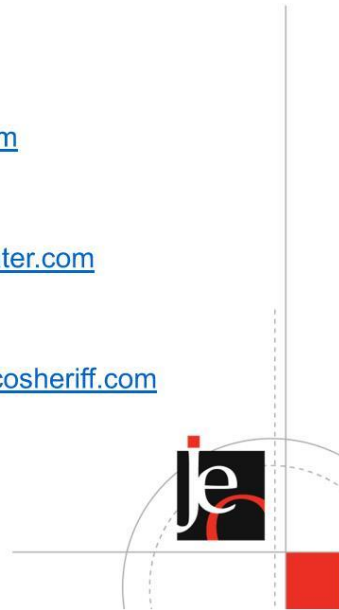




## Project Contacts



- JEO Consulting Group
  - Phil Luebbert, (402) 474-8768, [pluebbert@jeo.com](mailto:pluebbert@jeo.com)
  - Brooke Seachord, (402) 474-8741, [bseachord@jeo.com](mailto:bseachord@jeo.com)
- Wright Water Engineers
  - Scott Schreiber, (970) 945-7755, [sschreiber@wrightwater.com](mailto:sschreiber@wrightwater.com)
- Garfield County Emergency Management
  - Chad Whiting, (970) 945-1377 ex.1050, [cwhiting@garcosheriff.com](mailto:cwhiting@garcosheriff.com)



## County Meeting 3 PowerPoint Slides



## Agenda



## Introductions

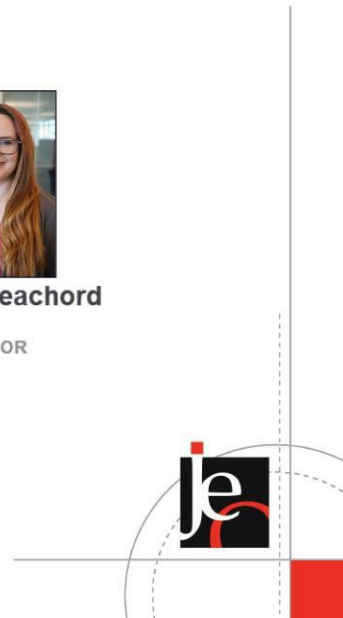
- Say Hello!
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**Phil Luebbert**  
PROJECT MANAGER

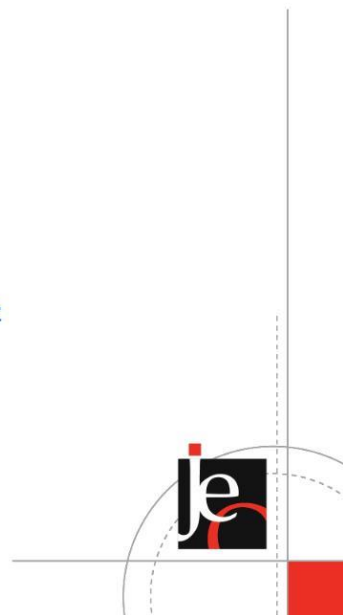


**Brooke Seachord**  
PROJECT  
COORDINATOR



## Current Meetings and Outreach Summary

- Meetings with plan participants to update sections
- Radio
- Flyer
- Social Media
- Survey (English and Spanish)
- Website - <https://www.garfield-county.com/emergency-management/natural-hazard-mitigation-plan/>
- Virtual Open House



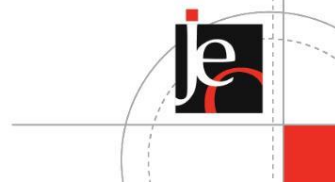
# Survey Engagement thus far

## RESPONSES

- English Survey
  - 72 responses
  - 100% completion
  - ~1/2 of surveys completed Oct 7
  
- Spanish Survey
  - 3 responses
  - 100% completion
  - Oct 6 and Oct 15

## SUMMARY

- Majority of responses from Rifle or “Garfield County”
- Top hazards: Wildfire and Drought
- Many people have signed up for emergency alerts and know how to shut off utilities
- Preferred Communication – emergency text alerts



# Capabilities

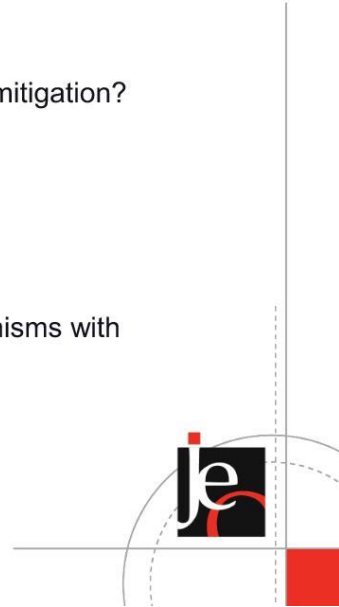
Survey Components/Subcomponents		Yes/No	Survey Components/Subcomponents		Yes/No
Planning & Regulatory Capability	Comprehensive Plan	Yes	Fiscal Capability	Capital Improvement Plan/ 1 & 6 Year plan	Yes
	Capital Improvements Plan	Yes		Applied for grants in the past	Yes
	Economic Development Plan	Yes		Awarded a grant in the past	Yes
	Emergency Operational Plan	Yes		Authority to Levy Taxes for Specific Purposes such as Mitigation Projects	Yes
	Floodplain Management Plan	No		Gas/Electric Service Fees	No
	Storm Water Management Plan	No		Storm Water Service Fees	No
	Zoning Ordinance	Yes		Water/Sewer Service Fees	No
	Subdivision Regulation/Ordinance	Yes		Development Impact Fees	Yes
	Floodplain Ordinance	Yes		General Obligation Revenue or Special Tax Bonds	Yes
	Building Codes	Yes		Education & Outreach Capability	Local citizen groups or non-profit organizations focused on environmental protection, emergency preparedness, access and functional needs populations, etc. Ex. CERT Teams, Red Cross, etc.
National Flood Insurance Program	Yes	Ongoing public education or information program (e.g., responsible water use, fire safety, household preparedness, environmental education)	Yes		
Community Rating System	No	Natural Disaster or Safety related school programs	No		
Planning Commission	Yes	StormReady Certification	No		
Floodplain Administration	Yes	Firewise Communities Certification	No		
GIS Capabilities	Yes	Tree City USA	No		
Chief Building Official	No				
Civil Engineering	Yes				
Local Staff Who Can Assess Community's Vulnerability to Hazards	Yes				
Grant Manager	Yes				
Mutual Aid Agreement	Yes				
Other (if any)					



## Plan Integration



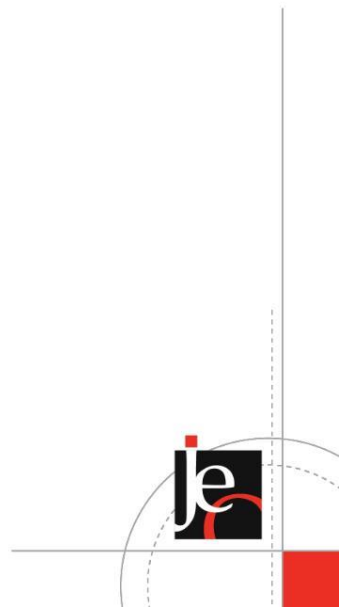
- What plans or planning mechanisms address hazard mitigation?
  - Five Year Plan
  - Comprehensive Plan
  - Land Use and Development Code
  - Building Permit Review
  - Emergency Operations Plan
  - Community Wildfire Protection Plan
- Any opportunities to further integrate planning mechanisms with hazard mitigation?



## Mitigation Actions



- Update of 2017 Mitigation Actions
- Identification of New Actions
  - Action for each Tier 1 hazard



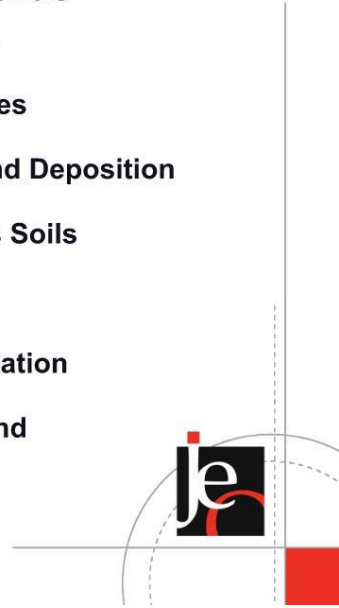
# Garfield County Hazards

## Tier I Hazards

- Wildfire
- Flooding
- Hazardous Materials
- Landslide/Debris Flows/Rockfalls
- Severe Winter Weather
- Drought
- Public Health Emergency

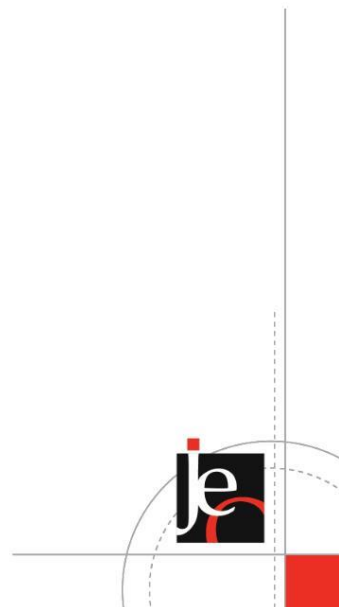
## Tier II Hazards

- Avalanche
- Earthquakes
- Erosion and Deposition
- Hazardous Soils
- Lightning
- Pest Infestation
- Severe Wind
- Terrorism



# Next Steps

- Schedule next participant meetings
- Schedule virtual open house
- Finalize risk analysis
- Send time worked to Chad!



## Project Contacts

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