

# **Appendix 1**

## **Action Item Worksheets**

<b>Proposed Action Item:</b>		<b>Alignment with Plan Goals:</b>	
Undertake wildfire mitigation for the Castle Valley Ranch and Elk Run Areas, including clearing and maintaining fire breaks and other fire defensive areas.			
<b>Rationale for Proposed Action Item:</b>			
The unique geological formations surrounding the Castle Valley Ranch and Elk Run areas cause storm cells to stall in the Castle Valley Ranch areas. These stalled storm systems often result in frequent lightning strikes, which are the source of wildfire ignitions.			
<b>Ideas for Implementation:</b>			
<ol style="list-style-type: none"> <li>1. Map areas of concern</li> <li>2. Public outreach via various communication outlets e.g. website, cable channel 10, informational pamphlets</li> <li>3. Development review approval process to include action item</li> <li>4. Assist individual lot owners with educational information</li> <li>5. Seek funding</li> </ol>			
<b>Coordinating Organization:</b>		Town of New Castle	
<b>Internal Partners:</b>		<b>External Partners:</b>	
Public Works dept.; Building & Planning dept.		Burning Mountain Fire Protection District; Bureau of Land Management; Garfield County; Castle Valley Ranch & Elk Run Home Owners Associations	
<b>Timeline:</b>		<b>If available, estimated cost:</b>	
<u>Short Term</u> (0-2 years)	<u>Long Term</u> (2-4 or more years)	\$150,000	
	XXX		
<b>Form Submitted by:</b>		<b>Tim Cain</b>	
Action Item Status: New Action (2011)			

<b>Proposed Action Item:</b>		<b>Alignment with Plan Goals:</b>	
Undertake wildfire mitigation for the Lakota Canyon Ranch. Identify, clear, and maintain fire defensive areas and fire breaks.			
<b>Rationale for Proposed Action Item:</b>			
The unique geological formations surrounding the Lakota Ranch areas cause storm cells to stall in the Lakota Ranch areas. These stalled storm systems often result in frequent lightning strikes, which are the source of wildfire ignitions.			
<b>Ideas for Implementation:</b>			
<ol style="list-style-type: none"> <li>1. Map areas of concern</li> <li>2. Public outreach via various communication outlets e.g. website. Cable channel 10, informational pamphlets</li> <li>3. Development review approval process to include action item</li> <li>4. Assist individual lot owners with educational information</li> <li>5. Seek funding</li> </ol>			
<b>Coordinating Organization:</b>		Town of New Castle	
<b>Internal Partners:</b>		<b>External Partners:</b>	
Public Works dept; Building & Planning dept.		Burning Mountain Fire Protection District; Bureau of Land Management; Garfield County; Lakota Canyon Ranch Home Owners Association	
<b>Timeline:</b>		<b>If available, estimated cost:</b>	
<u>Short Term</u> (0-2 years)	<u>Long Term</u> (2-4 or more years)	<b>\$150,000</b>	
	XXX		
<b>Form Submitted by:</b>		<b>Tim Cain</b>	
Action Item Status: New Action (2011)			

<b>Proposed Action Item:</b>		<b>Alignment with Plan Goals:</b>	
Survey / map areas of critical concern for stream banks on East Elk Creek above the Town's potable water intake as a first step in fortifying the stream banks to reduce the risk to the intake from flooding.			
<b>Rationale for Proposed Action Item:</b>			
Flooding of the Elk Creek waterway could cause severe damage to critical town infrastructure, including the potable water headgate.			
<b>Ideas for Implementation:</b>			
<ol style="list-style-type: none"> <li>1. Obtain outside contract proposals (RFP)</li> <li>2. Seek funding sources</li> </ol>			
<b>Coordinating Organization:</b>		Town of New Castle	
<b>Internal Partners:</b>		<b>External Partners:</b>	
Public Works dept.		DOLA; CDPHE	
<b>Timeline:</b>		<b>If available, estimated cost:</b>	
<u>Short Term</u> (0-2 years)	<u>Long Term</u> (2-4 or more years)	<b>\$185,000</b>	
	XXX		
<b>Form Submitted by:</b>		<b>John Wenzel</b>	
Action Item Status: New Action (2011)			

<b>Proposed Action Item:</b>		<b>Alignment with Plan Goals:</b>	
Construct diversions and barricades to control debris flows from Mt. Medaris and Grand Hogback Mountain.			
<b>Rationale for Proposed Action Item:</b>			
High rain fall events cause debris to flow and large rocks to fall into residential, commercial, and public areas.			
<b>Ideas for Implementation:</b>			
<ol style="list-style-type: none"> <li>1. Map areas of concern</li> <li>2. Develop engineered design</li> <li>3. Seek funding for improvements to be constructed</li> <li>4. Development review approval process to include action item</li> </ol>			
<b>Coordinating Organization:</b>		Town of New Castle	
<b>Internal Partners:</b>		<b>External Partners:</b>	
Public Works dept.		DOLA; CDOT; Garfield County	
<b>Timeline:</b>		<b>If available, estimated cost:</b>	
<u>Short Term</u> (0-2 years)	<u>Long Term</u> (2-4 or more years)	<b>\$580,000</b>	
	XXX		
<b>Form Submitted by:</b>		<b>John Wenzel</b>	
Action Item Status: New Action (2011)			

<b>Proposed Action Item:</b>		<b>Alignment with Plan Goals:</b>	
Construct a pressurized effluent system to discharge at the wastewater treatment plant			
<b>Rationale for Proposed Action Item:</b>			
Flooding of the Colorado River could cause severe damage to critical town infrastructure, including the wastewater effluent channel.			
<b>Ideas for Implementation:</b>			
<ol style="list-style-type: none"> <li>1. Map areas of concern</li> <li>2. Obtain outside contract proposals (RFP)</li> <li>3. Seek funding sources</li> </ol>			
<b>Coordinating Organization:</b>		Town of New Castle	
<b>Internal Partners:</b>		<b>External Partners:</b>	
Public Works dept.		DOLA; CDPHE	
<b>Timeline:</b>		<b>If available, estimated cost:</b>	
Short Term (0-2 years)	Long Term (2-4 or more years)	<b>\$185,000</b>	
	XXX		
<b>Form Submitted by:</b>		<b>John Wenzel</b>	
Action Item Status: New Action (2011)			

<b>Proposed Action Item:</b>		<b>Alignment with Plan Goals:</b>
Review comprehensive plan and development codes for opportunities to more effectively reduce risks to new development.		
<b>Rationale for Proposed Action Item:</b>		
The Comprehensive Plan and development code provide the legal framework and long-term vision for implementing plans and land use regulation, this is one of the best places to implement mitigation because risks can be eliminated before development occurs.		
<b>Ideas for Implementation:</b>		
Incorporate new hazard information in the Comprehensive Plan's Periodic Review process.		
Review latest vulnerability assessment information and policies that address hazards. Information can be obtained from the risk assessment portion of the Garfield County Natural Hazard Mitigation Plan (NHMP) and other state agencies.		
<b>Coordinating Organization:</b>	Town of New Castle	
<b>Internal Partners:</b>		<b>External Partners:</b>
Building & Planning dept.		Western Slope Consulting
<b>Timeline:</b>		<b>If available, estimated cost:</b>
<u>Short Term</u> (0-2 years)	<u>Long Term</u> (2-4 or more years)	<b>\$5,000</b>
	XXX	
<b>Form Submitted by:</b>	<b>Tim Cain</b>	
Action Item Status: New Action (2011)		

<b>Proposed Action Item:</b>		<b>Alignment with Plan Goals:</b>	
Continue compliance with the National Flood Insurance Program (NFIP) through the enforcement of local floodplain ordinances.			
<b>Rationale for Proposed Action Item:</b>			
<p>The National Flood Insurance Program provides communities with federally backed flood insurance to homeowners, renters, and business owners, provided that communities develop and enforce adequate floodplain management ordinances. The benefits of adopting NFIP standards for communities are a reduced level of flood damage in the community and stronger buildings that can withstand floods. According to the NFIP, buildings constructed in compliance with NFIP building standards suffer approximately 80 percent less damage annually than those not built in compliance.</p>			
<b>Ideas for Implementation:</b>			
<ul style="list-style-type: none"> <li>Actively participate with State Office of Emergency Management and FEMA during Community Assistance Visits. The Community Assisted Visit (CAV) is a scheduled visit to a community participating in the NFIP for the purpose of 1) conducting a comprehensive assessment of the community's floodplain management program; 2) assisting the community and its staff in understanding the NFIP and its requirements; and 3) assisting the community in implementing effective flood loss reduction measures when program deficiencies or violations are discovered.</li> <li>Conduct an assessment of the town's floodplain ordinances to ensure they reflect current flood hazards.</li> <li>Coordinate with the county to ensure that floodplain ordinances and NFIP regulations are maintained and enforced. Continue to assess the need for updated ordinances.</li> <li>Mitigate areas that are prone to flooding and/or have the potential to flood.</li> </ul>			
<b>Coordinating Organization:</b>		Town of New Castle	
<b>Internal Partners:</b>		<b>External Partners:</b>	
Town engineer; Building & Planning dept.		Garfield County; OEM; FEMA	
<b>Timeline:</b>		<b>If available, estimated cost:</b>	
<u>Short Term</u> (0-2 years)	<u>Long Term</u> (2-4 or more years)	<b>\$20,000</b>	
	XXX		
<b>Form Submitted by:</b>		Jeff Simonson by Tim Cain	
Action Item Status: New Action (2011)			

<b>Proposed Action Item:</b>		<b>Alignment with Plan Goals:</b>
Update the town's Flood Insurance Rate Maps (FIRMs) if funding becomes available.		
<b>Rationale for Proposed Action Item:</b>		
The town has Flood Mitigation Rate Maps current as of 1976. However, if funding becomes available, the FIRMs should be updated to address new information and new vulnerabilities, as well as any new land use developments occurring in the community.		
<b>Ideas for Implementation:</b>		
If there are areas that need to be revised for the flood map, complete the MT-2 Forms Package (Application Forms for Conditional Letters of Map Revision and Letters of Map Revision). The forms and instructions are designed to assist requesters (community officials or individuals via community officials) in gathering the data that the FEMA needs to determine whether the effective NFIP map and Flood Insurance Study report for a community should be revised.		
<b>Coordinating Organization:</b>	Town of New Castle	
<b>Internal Partners:</b>		<b>External Partners:</b>
Town engineer; Building & Planning dept.		OEM; FEMA
<b>Timeline:</b>		<b>If available, estimated cost:</b>
<u>Short Term</u> (0-2 years)	<u>Long Term</u> (2-4 or more years)	<b>\$55,000</b>
	XXX	
<b>Form Submitted by:</b>	<b>Jeff Simonson by Tim Cain</b>	
Action Item Status: New Action (2011)		

<b>Proposed Action Item:</b>		<b>Alignment with Plan Goals:</b>
Coordinate with Garfield County to review development codes and improve opportunities to mitigate wildfires near the communities.		
<b>Rationale for Proposed Action Item:</b>		
Wildfires beginning in Garfield County near the urban fringe could easily spread to the town. Reviewing Garfield County's development codes together with the Garfield County Development Services Division to develop ways to mitigate wildfires will reduce the likelihood that wildfires will spread to the town.		
<b>Ideas for Implementation:</b>		
Review Garfield County's development codes together with the County to identify potential wildfire issues. Develop strategies for addressing these issues. Strategies could include conducting education and outreach with the public on wildfire risks and mitigation actions.		
Coordinate efforts with the Garfield County Community Wildfire Protection Plan Steering Committee and Garfield County Emergency Management.		
<b>Coordinating Organization:</b>	Town of New Castle	
<b>Internal Partners:</b>		<b>External Partners:</b>
Town engineer; Building & Planning dept.		Garfield County; Western Slope Consulting; BMFPD
<b>Timeline:</b>		<b>If available, estimated cost:</b>
<u>Short Term</u> (0-2 years)	<u>Long Term</u> (2-4 or more years)	<b>\$25,000</b>
	XXX	
<b>Form Submitted by:</b>	<b>Tim Cain</b>	
Action Item Status: New Action (2011)		

<b>Proposed Action Item:</b>		<b>Alignment with Plan Goals:</b>
Armor the flood banks surrounding the Grand River Park		
<b>Rationale for Proposed Action Item:</b>		
Seasonal flooding of the Colorado River is slowly eroding the flood banks that protect the Grand river Park. Armoring the flood banks will protect public property and parkland infrastructure.		
<b>Ideas for Implementation:</b>		
1) Engineering design 2) Seek funding sources		
<b>Coordinating Organization:</b>	Town of New Castle	
<b>Internal Partners:</b>	<b>External Partners:</b>	
Public Works dept.	Schmueser Gordon Meyer engineers/surveyors and Conservation Trust Fund	
<b>Timeline:</b>	<b>If available, estimated cost:</b>	
<u>Short Term</u> (0-2 years)	<u>Long Term</u> (2-4 or more years)	<b>\$100,000</b>
	XXX	
<b>Form Submitted by:</b>	<b>John Wenzel</b>	
Action Item Status: New Action (2011)		

<b>Proposed Action Item:</b>		<b>Alignment with Plan Goals:</b>	
Continue to educate citizens about ways to weatherize their homes, as well as safe emergency heating equipment.			
<b>Rationale for Proposed Action Item:</b>			
Severe winter storms can bring extreme cold, snow, and ice, causing power outages and breaks in un-insulated water lines. Power outages can lead to heat loss, potentially harming citizens. Educating citizens about ways to weatherize their homes, as well as safe emergency heating equipment, can reduce the effects of extreme cold and inform residents of how to properly heat their homes in the event of a power outage.			
<b>Ideas for Implementation:</b>			
<ul style="list-style-type: none"> <li>• Use energy audits, cash rebates, and tax credits to help homeowners weatherize their homes.</li> <li>• Coordinate efforts with home improvement businesses to educate citizens about weatherizing homes and providing safe emergency heating equipment.</li> <li>• Coordinate education efforts with local electric companies to educate citizens about weatherization.</li> <li>• Coordinate with the local Fire Districts to develop a list of emergency heating information.</li> <li>• Advertise weatherization tax credits to serve as an incentive for people to weatherize their homes and reduce their heating bills.</li> </ul>			
<b>Coordinating Organization:</b>		Town of New Castle	
<b>Internal Partners:</b>		<b>External Partners:</b>	
Building & Planning dept.		CLEER; Xcel; BMFPD	
<b>Timeline:</b>		<b>If available, estimated cost:</b>	
Short Term (0-2 years)	Long Term (2-4 or more years)	\$7,500	
	XXX		
<b>Form Submitted by:</b>		<b>Tim Cain</b>	
Action Item Status: New Action (2011)			

<b>Proposed Action Item:</b>		<b>Alignment with Plan Goals:</b>
Continue to encourage citizens to prepare and maintain 72-hour kits.		
<b>Rationale for Proposed Action Item:</b>		
The town is vulnerable to a number of natural hazards that could disrupt services. In a major disaster, utilities transportation networks, and businesses could be disrupted, and it may take days until vital services are restored. Preparing a 72-hour kit can help community members survive on their own without relying too heavily on emergency services.		
<b>Ideas for Implementation:</b>		
Provide educational material and examples of how to assemble 72-hour kits to residents of the town and employees. Outreach and awareness campaigns need to be carefully organized and developed to ensure that residents receive critical information. Distribute information through the town's newsletter. Alternatively, post information about 72-hour kits on the town's website.		
During National Emergency Preparedness Month or National Night Out, use first responders and community members to host educational presentations to groups within the community to encourage individuals to put together their own kit.		
Resources like <a href="http://www.preparedness.gov">www.preparedness.gov</a> or <a href="http://www.72hours.org">www.72hours.org</a> can provide content needs for 72-hour kits.		
<b>Coordinating Organization:</b>		
<b>Internal Partners:</b>		<b>External Partners:</b>
Building & Planning dept.		American Red Cross; Garfield County Emergency Management; BMFPD
<b>Timeline:</b>		<b>If available, estimated cost:</b>
<u>Short Term</u> (0-2 years)	<u>Long Term</u> (2-4 or more years)	<b>\$5,000</b>
XXX		
<b>Form Submitted by:</b>	Tim Cain	
Action Item Status: New Action (2011)		