

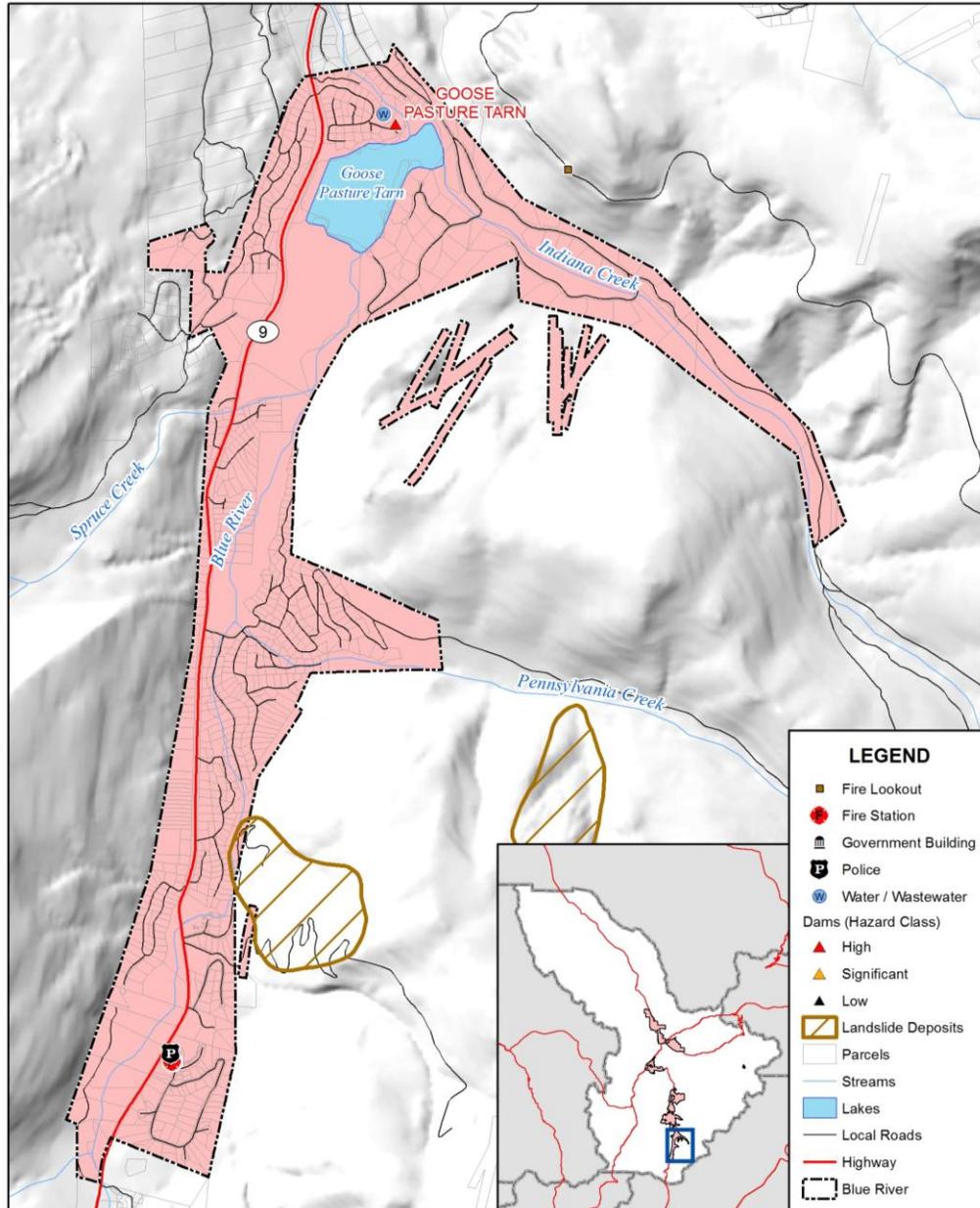


# ANNEX B: TOWN OF BLUE RIVER

## B.1 Community Profile

Figure B.1 shows a map of the Town of Blue River and its location within Summit County. The map also shows critical facilities and landslide deposits.

Figure B.1. Map of Blue River



Map compiled 3/2013; intended for planning purposes only.  
Data Source: Summit County, HAZUS-MH 2.1,  
Colton/USGS Earth Data Analysis Center

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## Geography

According to the U.S. Census Bureau, the Town of Blue River has a total area of 2.3 square miles. It is located along the Blue River approximately four miles south of the Town of Breckenridge at an elevation of 10,020 feet above sea level. Indiana Creek, Spruce Creek, and Pennsylvania Creeks are all tributaries that flow into the Blue River within Town.

## Population

The estimated 2011 population of Blue River was 733. The 2010 Census recorded the population at 849. Select American Community Survey (ACS) 2011 and 2010 US Census demographic and social characteristics for Blue River are shown in Table B.1.

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**Table B.1. Blue River—Demographic and Social Characteristics**

Characteristic	2010	2011
<b>Gender/Age</b>		
Male (%)	57.4	53.2
Female (%)	42.6	46.8
Under 5 Years (%)	6.5	8.7
65 Years and Over (%)	5.4	10.2
<b>Race/Ethnicity (one race)</b>		
White (%)	98.6	94.1
Black (%)	0.5	0.0
American Indian and Alaska Native (%)	0.2	0.0
Asian (%)	0.5	4.2
Two or More Races	0.0	1.6
Hispanic or Latino (Of Any Race) (%)	2.8	6.1
<b>Other</b>		
Average Household Size	2.53	2.55
High School Graduate or Higher (%)	98.7	98.7

Source: U.S. Census Bureau, ACS 2011, 2010 US Census, factfinder2.census.gov/

## Economy

The Town of Blue River is a residential community with little industry or commercial business. According to the 2011 ACS estimates, the industries that employed the highest percentages of Blue River's labor force were arts, entertainment, recreation, accommodation, and food services (26%); professional, scientific, management, administrative, and waste management services (21.1%); construction (15.9%); educational services, and health care and social assistance (11.6%); information (7%); retail trade (6.8%); and finance, insurance, real estate, and rental and leasing (4.7%). Select economic characteristics for Blue River from the 2011 ACS estimates and 2010 US Census are shown in Table B.2.

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**Table B.2. Blue River—Economic Characteristics**

Characteristic	2010	2011
Families below Poverty Level	11.9%	5.3%
Individuals below Poverty Level	11.0%	8.2%
Median Home Value	\$544,400	\$544,800
Median Household Income	\$78,750	\$95,139
Per Capita Income	\$37,876	\$39,243
Population in Labor Force*	564	539

Source: ACS (2011), 2010 US Census, factfinder2.census.gov/

\*Age 16 years and over

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## B.2 Hazard Identification and Profiles

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Blue River’s planning team identified the hazards that affect the community and summarized their geographic location, probability of future occurrence, potential magnitude or severity, and planning significance specific to the Town (see Table B.3). In the context of the countywide planning area, there are no hazards that are unique to Blue River.

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**Table B.3. Blue River—Hazard Summary**

Hazard Type	Geographic Extent*	Probability*	Magnitude*	Hazard Rating
Avalanche	Isolated	Unlikely	Limited	Low
Dam Failure	Small	Unlikely	Critical	Moderate
Drought	Large	Occasional	Limited	Low
Earthquake	Large	Unlikely	Limited	Low
Erosion/Deposition	Small	Likely	Critical	Moderate
Flood	Small	Occasional	Limited	Moderate
Hazardous Materials Release (Transportation)	Isolated	Unlikely	Limited	Low
Landslide, Mudflow/Debris Flow, and Rock Fall	Small	Occasional	Limited	Low
Lightning	Large	Likely	Limited	Low
Mountain Pine Beetle Infestation	Small	Highly Likely	Limited	Moderate
Severe Winter Weather	Large	Highly Likely	Critical	High
Wildfire	Large	Likely	Critical	High
Windstorm	Large	Likely	Limited	Low

\*See Section 3.2 for definitions of these factors

Information on past events for each hazard can be found in Section 3.2 Hazard Profiles of the main plan.

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## B.3 Vulnerability Assessment

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The intent of this section is to assess Blue River’s vulnerability separate from that of the planning area as a whole, which has already been assessed in Section 3.3 Vulnerability

Assessment in the main plan. This vulnerability assessment analyzes the population, property, and other assets at risk to hazards ranked of moderate or high significance that may vary from other parts of the planning area. For more information about how hazards affect the County as a whole, see Chapter 3 Risk Assessment in the main plan.

## Community Asset Inventory

Table B.4 shows the total population, number of structures, land value, and assessed value of improvements to parcels in Blue River. Land values have been purposely excluded from the Total Value because land remains following disasters, and subsequent market devaluations are frequently short-term and difficult to quantify. Additionally, state and federal disaster assistance programs generally do not address loss of land or its associated value.

**Table B.4. Blue River—Maximum Population and Building Exposure**

Land Use	Total Parcel Count	Improved Parcel Count	Land Value	Improved Value	Estimated Content Value*	Total Value**
Mixed Use	1	0	\$110,601	\$0	\$0	\$0
Residential	894	673	\$172,201,088	\$272,173,284	\$136,086,642	\$408,259,926
<b>Total</b>	<b>895</b>	<b>673</b>	<b>\$172,311,689</b>	<b>\$272,173,284</b>	<b>\$136,086,642</b>	<b>\$408,259,926</b>

Source: Summit County Assessor 2013

\*Content Value estimated; \*\*Includes contents and improvements only

Blue River’s planning team identified two community assets. The first is the Town Hall, with an estimated replacement value of \$350,000. The Town is looking at future expansion of the facility to include a community center in conjunction with the Town Hall offices and Council Chambers. The second asset is the Town Park, with an estimated replacement value of \$200,000. The locations of critical facilities in Blue River identified by Summit County GIS are illustrated in Figure B.2.

## Vulnerability by Hazard

This section analyzes existing and future structures and other assets at risk to hazards ranked of medium or high significance that vary from the risks facing the entire planning area and estimates potential losses. These hazards include dam failure, flood, and wildfire.

### Dam Failure

#### *Existing Development*

The Goose Pasture Tarn is located on the Blue River on the north end of Town and has a maximum storage capacity of approximately 2,000 cubic feet. There is no data available to indicate any likelihood of failure, nor is there an inundation map available. Therefore, structures and potential loss estimates in these areas could not be calculated. There are parcels located

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within the Town of Blue River downstream of the dam. The dam does have a high hazard ranking indicating that loss of life is likely to result from its failure.

An Emergency Action Plan has been completed. The Town also lies downstream of the Upper Blue Lake Dam and would be impacted by a dam failure event.

### ***Future Development***

A dam failure would likely result in impacts greater than the 100-year flood event modeled by HAZUS in the analysis below. The Town should consider the dam failure hazard when permitting development downstream of the dam.

## **Flood**

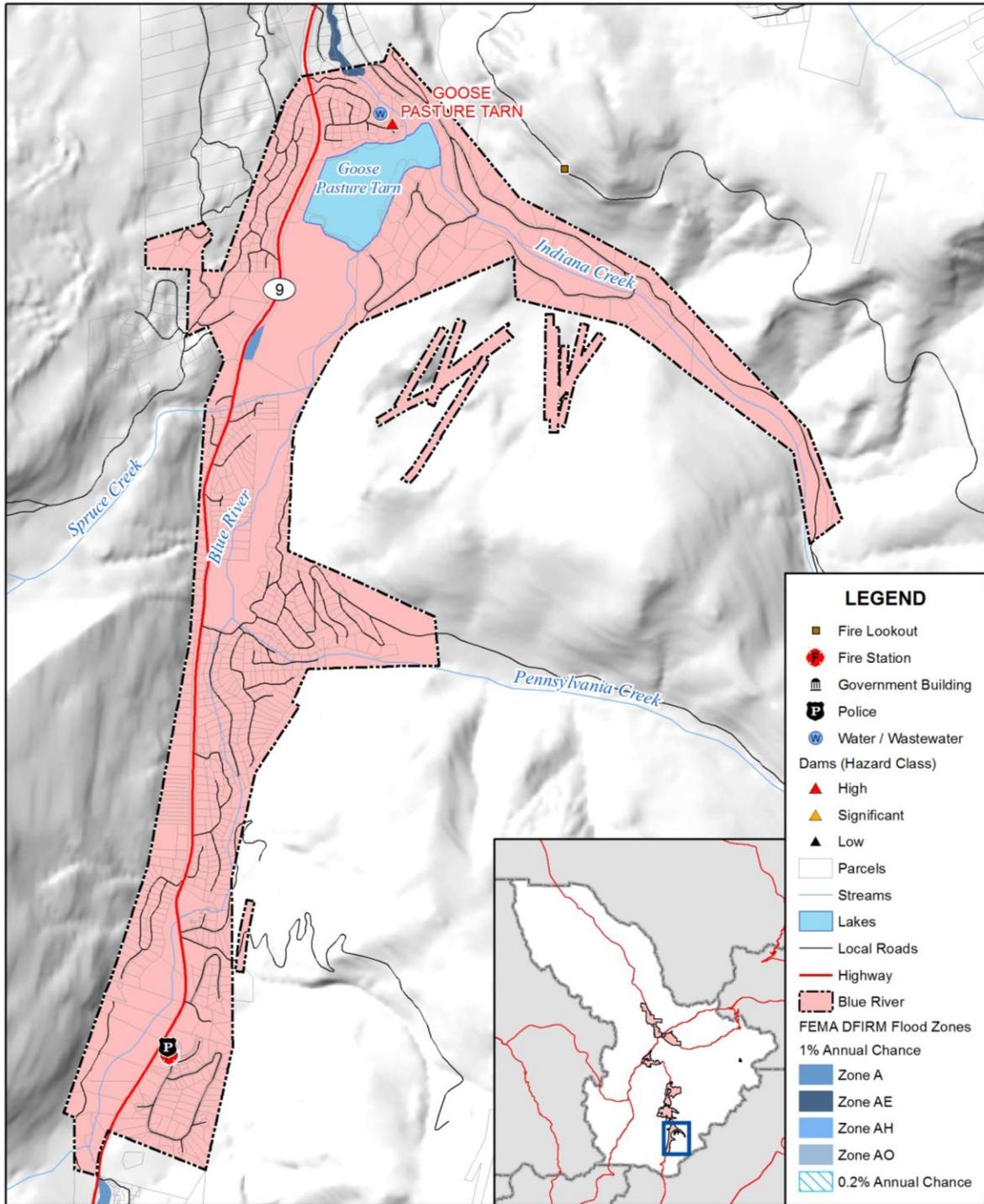
### ***Existing Development***

The Goose Pasture Tarn reduces the peak discharge of the Blue River due to rainfall but the effect is only marginal for runoff due to snowmelt, which is normally the major cause of peak flows. Other reservoirs provide only incidental flood protection (FEMA, 2001).

The Town's DFIRM became effective on November 16, 2011, but Blue River does not currently participate in the NFIP. The DFIRM was used to generate a one percent annual flood, or 100-year flood, event in the Town of Blue River.

Figure B.2 shows the Town's 1% annual chance flood zone based on the DFIRM, as well as critical facilities.

**Figure B.2. DFIRM and Critical Facilities in Blue River**



0 0.5 1 Miles



Map compiled 3/2013; intended for planning purposes only.  
 Data Source: Summit County, HAZUS-MH 2.1, Preliminary DFIRM

GIS was used to create a centroid, or point, representing the center of each parcel polygon. Only parcels with improvement values greater than zero were used in the analysis, which assumes that improved parcels have a structure of some type. The DFIRM flood zones were overlaid in GIS on the parcel centroid data to identify structures that would likely be inundated during a 1% annual chance and 0.2% annual chance flood event. An effort was made to remove centroids from the analysis that may have been located within a flood zone, but the actual structure, based on imagery interpretation, was located outside of the flood hazard area. Building improvement values for the points were based on the assessor's data. Property exposure located in flood hazard zones by land use type is shown in Table B.5. Blue River's exposure is minimal; the Town has only one parcel, located in the AE Zone, with a total value of \$0.

Building related losses are shown in Table B.6, which indicates no losses for the Town of Blue River. Based on the DFIRM, no structures or parcels are located in the 1% annual chance flood zone in Blue River. More information on the methodology for this loss estimation can be found in the Section 3.3 Vulnerability Assessment in the main plan.

There are no critical facilities located in the floodplain.

**Table B.5. Blue River—Flood Exposure by Land Use**

Land Use	Total Parcel Count	Improved Parcel Count	Land Value	Improved Value	Estimated Content Value	Total Value
<b>Zone AE</b>						
Residential	1	0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>1</b>	<b>0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Source: AMEC analysis of DFIRM

**Table B.6. DFIRM 1% Annual Chance Flood Estimated Building Losses**

Flood Zone	Improved Parcel Count	Improved Value	Estimated Content Value	Total Value	Loss Estimate	Loss Ratio
Zone AE	0	\$0	\$0	\$0	\$0	0.0%
<b>Total</b>	<b>0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>0.0%</b>

Source: AMEC analysis of DFIRM

### ***National Flood Insurance Program***

The Town of Blue River does not participate in the NFIP. Its FIRM became effective on November 16, 2011, but the Town is currently under sanction.

### ***Future Development***

Blue River does not have a floodplain ordinance. The building regulations do allow the Town to require that new construction meet certain drainage requirements at its discretion.

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## Landslide, Mud Flow/Debris Flow, Rock Fall

### *Existing Development*

Potential losses for landslide areas were estimated using Summit County GIS and assessor's data and were examined in terms of values and critical facilities at risk. GIS was used to create a centroid, or point, representing the center of each parcel polygon, which was overlaid on the landslide hazard polygons. The assessor's land and improved values for each parcel are linked to the parcel centroids. For the purposes of this analysis, if the parcel's centroid intersects the landslide hazard polygon, that parcel is assumed to be at risk to the landslide. Values were summed and sorted by landslide hazard zone. Additional landslide hazard analysis was completed using the more comprehensive USGS landslide deposits layer during the 2013 update. The results of the overlay analysis for the Town of Blue River are presented in Table B.7.

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**Table B.7. Blue River—Landslide Exposure by Land Use**

Land Use	Total Parcel Count	Improved Parcel Count	Land Value	Improved Value	Estimated Content Value	Total Value
<b>Colton Landslide Deposits</b>						
Residential	3	1	\$247,069	\$256,639	\$128,320	\$384,959
<b>Total</b>	<b>3</b>	<b>1</b>	<b>\$247,069</b>	<b>\$256,639</b>	<b>\$128,320</b>	<b>\$384,959</b>

### *Future Development*

The severity of landslide problems is directly related to the extent of human activity in hazard areas. Adverse effects can be mitigated by early recognition and avoiding incompatible land uses in these areas or by corrective engineering. The mountainous topography of the County presents considerable constraints to development, most commonly in the form of steep sloped areas. These areas (defined as having a grade change of 30% or more) are vulnerable to disturbance and can become unstable.

## Wildfire

### *Existing Development*

A wildfire threat ranking was developed for the Summit County Community Wildfire Protection Plan by the County, fire protection districts, and U.S. Forest Service. It is based on fuel hazards, risk of wildfire occurrence, essential infrastructure at risk, community values at risk, and local preparedness and firefighting capability and classifies the wildfire threat as low, medium, high, and extreme. The wildfire threat GIS layer, updated in 2011, was used to determine the number of acres in each wildfire threat zone and map the wildfire threat in Blue River (see Table B.8 and Figure B.3). Figure B.4 shows the wildfire focus areas from the County CWPP and treatment areas in Blue River.

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**Table B.8. Blue River—Acreage in Wildfire Threat Zones**

Low		Medium		High		Extreme		Total Acres
Acres	%Total	Acres	%Total	Acres	%Total	Acres	%Total	
420	29%	1,042	71%	10	0.7%	-	-	1,471

Source: Summit County

Based on the methodology described for wildfire in Section 3.3.3 Vulnerability by Hazard, the property values in Blue River were separated into wildfire threat zones. The breakdown of property values by wildfire threat zone is shown in Table B.9.

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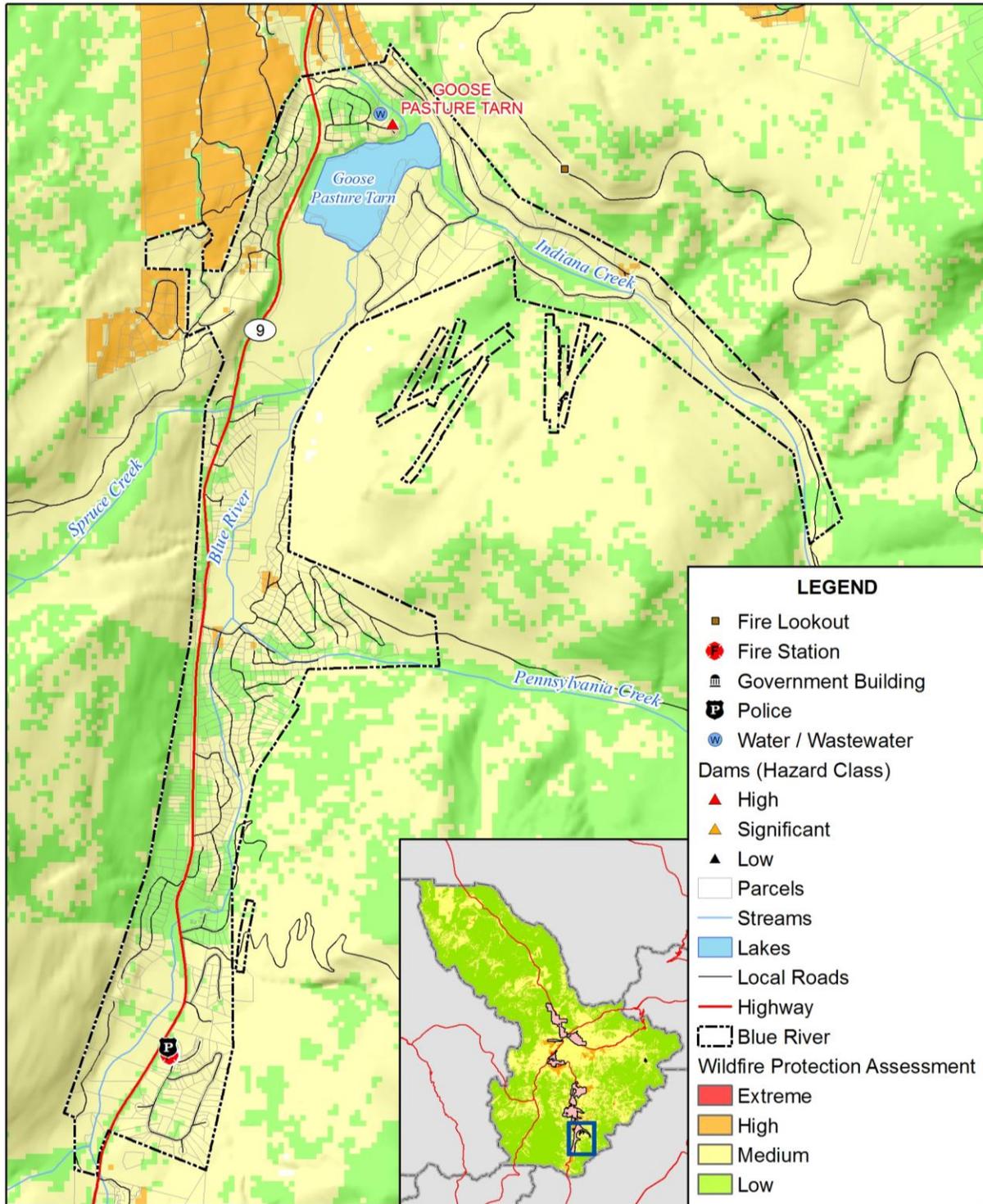
**Table B.9. Blue River—Property Values in Wildfire Threat Zones**

Threat Zone	Land Use	Improved		Improved Value	Estimated	
		Parcel Count	Land Value		Content Value	Total Value
Low	Residential	192	\$39,208,553	\$65,519,784	\$32,759,892	\$98,279,676
Medium	Residential	471	\$110,761,869	\$203,891,916	\$101,945,958	\$305,837,874
High	Residential	10	\$1,875,649	\$2,761,584	\$1,380,792	\$4,142,376
<b>Totals</b>		<b>673</b>	<b>\$151,846,071</b>	<b>\$272,173,284</b>	<b>\$136,086,642</b>	<b>\$408,259,926</b>

Source: AMEC analysis with County data

There are no critical facilities located in high or extreme wildfire threat areas in Blue River. Seven hundred and seventy (770) buildings are located in Blue River's wildfire hazard areas, based on footprint count. This includes 22 buildings in high wildfire threat zones, 566 in medium threat zones, and 182 in low threat zones.

**Figure B.3. Wildfire Threat and Critical Facilities in Blue River**



Map compiled 3/2013; intended for planning purposes only.  
Data Source: Summit County, HAZUS-MH 2.1

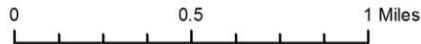
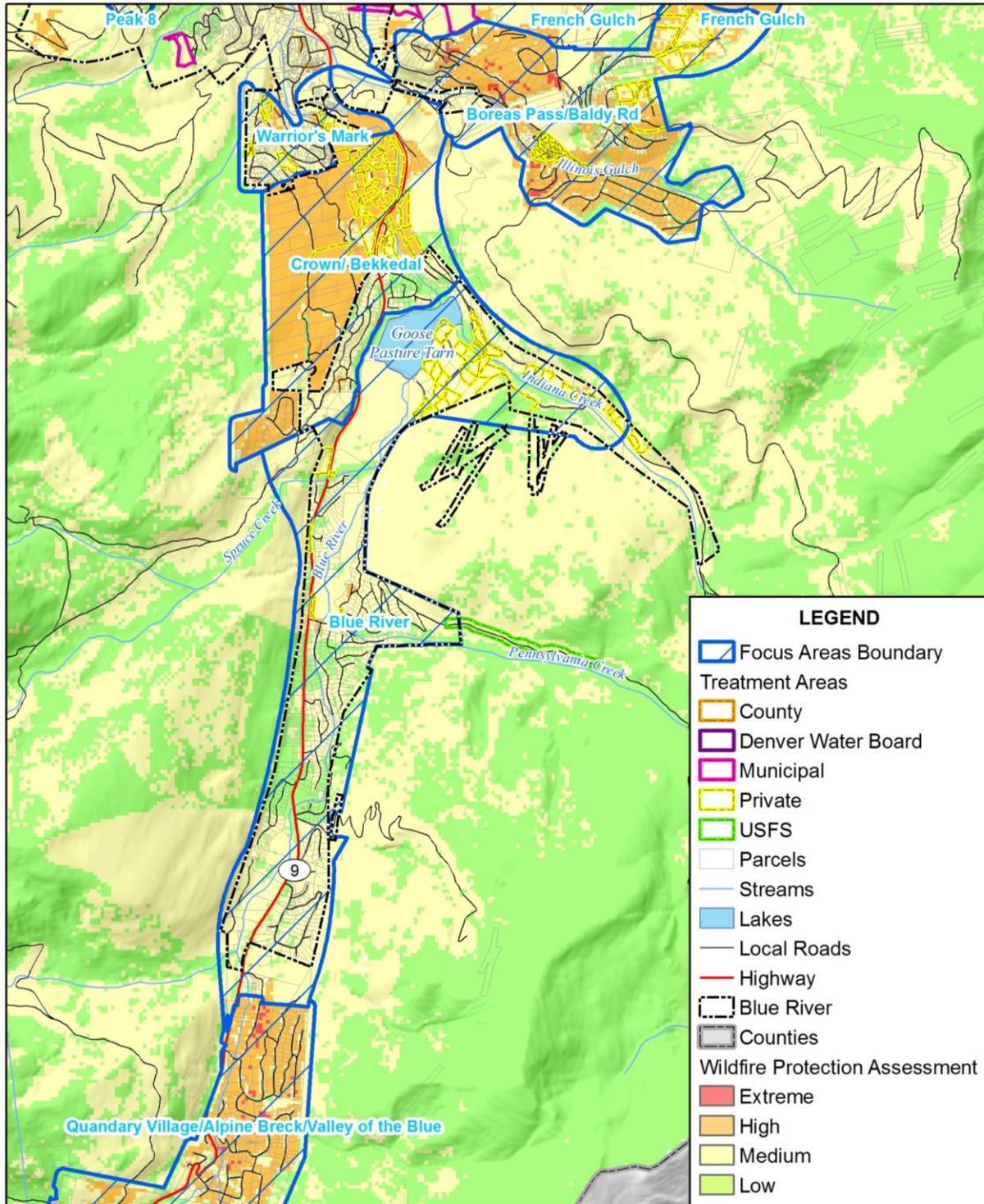


Figure B.4 Wildfire Focus Areas and Treatment Areas in Blue River



Map compiled 3/2013; intended for planning purposes only.  
Data Source: Summit County



The Red, White, and Blue Fire Protection District, which provides fire protection services to Breckenridge, Blue River, and surrounding area, is considered an initial attack center for wildland fires on all private land and takes a joint responsibility with the U.S. Forest Service for fires on federal land.

**Future Development**

New construction in Blue River must meet defensible space regulations, which is included in the Town’s code.

**Growth and Development Trends**

Table B.10 illustrates how Blue River has grown in terms of population and number of housing units between 2000 and 2011.

**Table B.10. Blue River—Change in Population and Housing Units, 2000-2011**

2000 Population	2011 Population Estimate	Estimated Percent Change 2000-2011	2000 # of Housing Units	2011 Estimated # of Housing Units	Estimated Percent Change 2000-2011
685	733	+7	563	642	+14

Source: ACS 2011, factfinder2.census.gov

According to the *Demographic and Economic Trends Benchmark Report* for Blue River, the Town “contains a significant portion of second homes with a 42% seasonal occupancy in 2010 according to the Census. But it increasingly serves as a year-round home to local and regional working households and retirees” (pg. 3). The report also found that total growth in housing units exceeds population growth, supporting the finding that many of the homes built in Blue River are second or seasonal homes. There are no commercial storefronts in the Town; rather, people work out of their homes. There is far less pressure to develop commercial real estate in Blue River.

**B.4 Capability Assessment**

Capabilities are the programs and policies currently in use to reduce hazard impacts or that could be used to implement hazard mitigation activities. The capabilities assessment is divided into five sections: regulatory mitigation capabilities, administrative and technical mitigation capabilities, fiscal mitigation capabilities, and mitigation outreach and partnerships.

**Regulatory Mitigation Capabilities**

Table B.11 lists planning and land management tools typically used by local jurisdictions to implement hazard mitigation activities and indicates those that are in place in Blue River.

**Table B.11. Blue River—Regulatory Mitigation Capabilities**

<b>Regulatory Tool (Ordinances, Codes, Plans)</b>	<b>Yes/No</b>	<b>Comments</b>
Master Plan	Yes	Covered by Joint Upper Blue Master Plan (2011)
Zoning Ordinance	Yes	Chapter 16 of Town Ordinances
Subdivision Ordinance	Yes	Chapter 17 of Town Ordinances
Growth Management Ordinance	No	Being addressed in Comprehensive Master Plan
Floodplain Ordinance	No	
Other Special Purpose Ordinance	Yes	Wildfire mitigation standards
Building Code	Yes	In process of updating with Summit County
Fire Department ISO Rating	Yes	Rating: 9
Erosion or Sediment Control Program	Yes	Coordinating on this category and Stormwater with the Upper Blue Sanitation District. As sewer projects are being conducted the Town replaces culverts and drainage control measures
Stormwater Management Program	Yes	See above statement
Site Plan Review Requirements	Yes	Architectural Guidelines
Capital Improvements Plan	Yes	Included in Comprehensive Master Plan
Economic Development Plan	Yes	Included in Comprehensive Master Plan
Local Emergency Operations Plan	No	Update in progress with other Municipalities
Other Special Plans	Yes	Defensible space plans being developed
Flood Insurance Study or Other Engineering Study for Streams	No	Contract with water specialist and looking at future water projects

## **Town of Blue River Ordinances**

### ***Chapter 7 Health, Sanitation, and Animals***

The purpose of Division II Forest Management of Article V Trees is to preserve the rural mountain character of the Town by minimizing the removal of live trees while protecting the life and property of the residents of the Town by establishing minimum wildfire mitigation standards. These include defensible space regulations for new construction.

### ***Chapter 16 Zoning***

#### **Sec. 16-6-50. Site and structure requirements.**

(a) Density. The applicant shall be responsible for justifying the proposed density level in terms of land planning and physiographic data, but in no case shall the gross density exceed six (6) dwelling units per acre of land.

(b) Yard requirements. Yard requirements will be determined upon submission and approval of the preliminary development plans. The applicant shall be responsible for justifying the proposed yard requirements in terms of land planning and fire safety.

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(c) Height requirements. The maximum height of structures must be approved by the Planning and Zoning Commission upon review of each planned residential development in relation to the following factors:

(1) Geographical position.

(2) The probable effect on surrounding slopes and hills.

(3) Adverse visual effects imparted to adjoining property owners, other areas of the development, public lands or public rights-of-way.

(4) Potential problems for adjacent sites, both within and out of the development, caused by shade, shadows, loss of air circulation or loss of view.

(5) Surrounding traffic conditions and lines of sight.

(6) Uses within each building.

(7) Fire prevention measures. (Prior code 6-6-4)

**Sec. 16-8-80. Compliance with Building and Fire Codes.**

Where approval of an accessory apartment is sought by an owner for a unit existing before adoption of this Article, the unit shall be inspected and shall comply with applicable requirements of the Building and Fire Codes<sup>1</sup>. (Prior code 5-5-8)

***Chapter 18 Building Regulations***

Prior to the issuance of a certificate of occupancy, any person who builds or erects any structure must contact the Town by calling or writing the building inspector to obtain approval for issuance of the certificate of occupancy. Approvals of the septic/sewer authority, the fire protection district, the Architectural Review Board, and homeowners' association may be required. Approval may, at the Town's sole discretion, require completion of the following improvements:

- Installation of culverts
- Grading or regrading any disturbed or damaged roads or driveways or other areas necessary for proper drainage
- All runoff created by or redirected by the construction, erection and landscaping of the structure on the property shall be treated, contained, and controlled so that there are no increases in runoff or other drainage consequences resulting from said construction, erection, and landscaping

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<sup>1</sup> See Chapter 18 of this Code.

## Administrative/Technical Mitigation Capabilities

Table B.12 identifies the personnel responsible for activities related to mitigation and loss prevention in Blue River.

**Table B.12. Blue River—Administrative and Technical Mitigation Capabilities**

Personnel Resources	Yes/No	Department/Position	Comments
Planner/Engineer with Knowledge of Land Development/Land Management Practices	Yes	Land Planner	Contract position
Engineer/Professional Trained in Construction Practices Related to Buildings and/or Infrastructure	Yes	Building Inspector	Contract position.
Planner/Engineer/Scientist with an Understanding of Natural Hazards	Yes	Engineer	Contract Position
Personnel Skilled in GIS	No		Utilize Summit County GIS
Full Time Building Official	Yes	Building Inspector	Contract position.
Floodplain Manager	No		Handled by contract Engineer
Emergency Manager	Yes	Mayor	Responsibility assigned to Mayor in Town Charter
Grant Writer	Yes	Mayor and Council	Added duties to elected officers
Other Personnel	Yes	Town Clerk	
Warning Systems/Services	Yes		Provided by Summit County Communications Center

## Fiscal Mitigation Capabilities

Table B.13 identifies financial tools or resources that Blue River could potentially use to help fund mitigation activities.

**Table B.13. Blue River—Fiscal Mitigation Capabilities**

Financial Resources	Accessible/Eligible to Use (Yes/No)	Comments
Community Development Block Grants	No	
Capital Improvements Project Funding	No	
Authority to Levy Taxes for Specific Purposes	Yes	
Fees for Water, Sewer, Gas, or Electric Services	No	
Impact Fees for New Development	Yes	
Incur Debt through General Obligation Bonds	Yes	
Incur Debt through Special Tax Bonds	Yes	
Incur Debt through Private Activities	No	
Withhold Spending in Hazard Prone Areas	Yes	

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## **Mitigation Outreach and Partnerships**

Blue River continues to partner with the Red, White, and Blue Fire Protection District to implement defensible space projects for property owners to reduce wildfire risk. The Town plans to continue this program in the future and has maintained a wildfire mitigation budget line for the purpose of matching grants.

## **B.5 Mitigation Goals and Objectives**

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Blue River adopts the hazard mitigation goals and objectives developed by the HMPC and described in Chapter 4 Mitigation Strategy.

## **B.6 Mitigation Actions**

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The planning team for Blue River identified and prioritized the following mitigation actions based on the risk assessment. Background information on how each action will be implemented and administered, such as ideas for implementation, responsible agency, potential funding, estimated cost, and timeline also are included.

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## Mitigation Action: Blue River—1 Culvert and Bridge Replacement

**Jurisdiction:** Town of Blue River

**Action Title:** Replace collapsing culverts and rebuild bridge over the Blue River on Blue River Road.

**Priority:** High

**Background/Issue:**

**Responsible Agency:** Town of Blue River

**Partners:** Summit County

**Potential Funding:** Town of Blue River, FEMA Hazard Mitigation Grant Program and Pre-Disaster Mitigation Grant Program

**Cost Estimate:** \$300,000

**Benefits:  
(Losses Avoided)**

- Protect public health and safety
- Reduce damage due to flooding
- Prevent bridge collapse
- Improve evacuation routes

**Timeline:** Next five years

**Status:** This project has been completed by the Town of Blue River in 2009. The timing for replacement of two bridges that served as primary ingress and egress into these subdivisions required they allocate town funds to complete the projects. The culvert of the one bridge was failing and at the time was the only ingress and egress into the subdivision. This led to the new construction of the second bridge not identified in this project as well as total replacement of the bridge in this project. Both were constructed to the 100 year flood standard and with weight considerations so that all fire apparatus can travel over the bridges.

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## Mitigation Action: Blue River—2 Defensible Space Program

<b>Jurisdiction:</b>	Town of Blue River
<b>Action Title:</b>	Continue homeowner defensible space program begun in 2007
<b>Priority:</b>	Medium
<b>Background/Issue:</b>	Mountain pine beetle has killed many trees in town increasing the wildfire danger. As we are told by the fire district, it is not if, but when a wildfire will break out. The Town of Blue River has embarked on a defensible space program to help with fire mitigation. The Town has had the program in place since 2007. We also now have hydrants in the Town.
<b>Ideas for Implementation:</b>	Encourage homeowners and property owners to clear a 30-foot defensible space around their homes through education and rebates. Seek funding to continue this program each year.
<b>Responsible Agency:</b>	Town of Blue River
<b>Partners:</b>	Red, White, and Blue Fire Protection District
<b>Potential Funding:</b>	Town of Blue River, grant from Red, White, and Blue Fire Protection District, FEMA Hazard Mitigation Grant Program and Pre-Disaster Mitigation Grant Program
<b>Cost Estimate:</b>	We have budgeted (the Town) \$15,000 with a matching grant from Red, White and Blue Fire Protection District for \$15,000.
<b>Benefits: (Losses Avoided)</b>	<ul style="list-style-type: none"><li>• Help residents take responsibility for mitigation of their homes</li><li>• Reduce potential loss of life and structures</li></ul>
<b>Timeline:</b>	Ongoing. Every year as budget permits.
<b>Status:</b>	The Town is on an annual basis partnering with homeowners and the Wildfire Council for Summit County on defensible space projects. This is ongoing and will continue into the future. The Town has continued to maintain a line item in their budget to support the application for matching grant funds. As the Town budget would allow the expenditures for this item could be increased.

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## Mitigation Action: Blue River—3 Regrade Spruce Creek Road

<b>Jurisdiction:</b>	Town of Blue River
<b>Action Title:</b>	Re-grade Spruce Creek Road to allow safe automobile passage to homes and national forest trails
<b>Priority:</b>	Low
<b>Background/Issue:</b>	The current road is being washed away. Complete re-engineering is required to bring it up to a safe standard. This is a major thoroughfare into the National Forest and is heavily used. If the Town deems it unsafe and we cannot get it repaired we will have to close the road for safety reasons.
<b>Ideas for Implementation:</b>	We have approached the county for assistance since our Town road connects with the County and on to the National Forest.
<b>Responsible Agency:</b>	Town of Blue River
<b>Partners:</b>	Summit County
<b>Potential Funding:</b>	
<b>Cost Estimate:</b>	It has been estimated at \$1,000,000 to reconstruct the road.
<b>Benefits: (Losses Avoided)</b>	<ul style="list-style-type: none"><li>• Ensure safety of road for residents and visitors to the national forest.</li><li>• Avoid closing the road.</li></ul>
<b>Timeline:</b>	Establish agreement with County and begin when the Town has the funds.
<b>Status:</b>	This project will be completed by September 2013 in coordination with Summit County. The majority of the road usage comes from visitation to the forest service trailhead located at the end of the road, only about 10% is local resident usage. The Town was able to secure town funds for their share of the costs from their budget. The work in the fall of 2013 will complete this project.

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## Mitigation Action: Blue River—4 Augment Water Supply

**Jurisdiction:** Town of Blue River

**Action Title:** Wildfire – Structural Project – Augment water supply – Cistern Project

**Priority:** High

**Background/Issue:** The Town intends to purchase land to install cisterns in strategic locations for wildfire and structure protection.

### Ideas for Implementation:

**Responsible Agency:** Town of Blue River

**Partners:** Red, White and Blue Fire Protection District, Wildfire Council

**Potential Funding:** Grants, Awards, Town funds

**Cost Estimate:** \$100,000 for each system, plus land acquisition costs

**Benefits:  
(Losses Avoided)** There are few hydrants throughout the jurisdiction and fire fighting requires shuttling water with tenders. The additional water would be a benefit in initial attack of a wildfire or structure fire or structure protection.

**Timeline:** 2-5 years and on-going

**Status:** New in 2013

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## **Mitigation Action: Blue River—5 Comprehensive Master Plan**

**Jurisdiction:** Town of Blue River

**Action Title:** All Hazards – Prevention– Comprehensive Master Plan

**Priority:** High

**Background/Issue:** The Town is in the process of developing a comprehensive master plan. The plan includes annexation and tax alternatives.

### **Ideas for Implementation:**

**Responsible Agency:** Town of Blue River

**Partners:**

**Potential Funding:** Town funds

**Cost Estimate:**

**Benefits:  
(Losses Avoided)** The plan will provide the Town with a comprehensive planning strategy for the future.

**Timeline:** 2-5 year and 5-20 year vision being drafted

**Status:** New in 2013

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## Mitigation Action: Blue River—6 Regrade Spruce Creek Road

<b>Jurisdiction:</b>	Town of Blue River
<b>Action Title:</b>	All Hazards – Structural Project – Re-alignment of Spruce Creek Road with Colorado Highway 9
<b>Priority:</b>	High
<b>Background/Issue:</b>	The Town is looking into a seasonal closure as one alternative to addressing the safety hazard at the Spruce Creek Road and Highway 9 intersection. A second alternative would be the permanent closure of the intersection. A third alternative would be the re-alignment of the intersection with the State Highway.
<b>Ideas for Implementation:</b>	
<b>Responsible Agency:</b>	Town of Blue River
<b>Partners:</b>	Colorado Department of Transportation
<b>Potential Funding:</b>	Grants, Awards, State and Town funds
<b>Cost Estimate:</b>	TBD
<b>Benefits: (Losses Avoided)</b>	The intersection is a blind entrance point onto Highway 9 where the posted speed limit is 50 mph. During the winter months the weather elements cause motorists to slide into the intersection as well as having extreme difficulty in climbing up the grade on Spruce Creek Road from the highway. This is dangerous because of the grade, road construction material, and weather elements.
<b>Timeline:</b>	2-5 years and on-going
<b>Status:</b>	New in 2013