



Boulder County Hazard Mitigation Update Report 2025

For credit under the Community Rating System, this report must be distributed to the media and be made available to the public. Notification of the availability of the report will be sent to the media that cover Boulder County via a press release. Copies of this report and the 2022 Plan Update are available for review at the Office of Disaster Management for the City of Boulder & Boulder County or on the website (BoulderODM.gov).

For this mitigation plan, goals were defined as broad-based public policy statements that:

- Represent basic desires of the community.
- Encompass all aspects of community, public and private.
- Are nonspecific, in that they refer to the quality (not the quantity) of the outcome.
- Are future-oriented, in that they are achievable in the future; and
- Are time-independent, in that they are not scheduled events.

Goals were defined before considering how to accomplish them so that the goals are not dependent on the means of achievement. Thus, implementation cost, schedule, and means are not considered in the goal statements which form the basis for objectives and actions that will be used as means to achieve the goals. Objectives define strategies to attain the goals and are more specific and measurable. During the 2022 plan update process, the HMPC reviewed the 2016 goals and objectives and concluded that the goals previously identified needed to be changed. A significant goal setting meeting developed new goals, and the highlight is adding a climate change goal to the plan (Goal 5). The 2022 goals and objectives identified by the HMPC are listed below.

Goal 1: Reduce Loss of Life and Personal Injuries from Hazard Events.

- Continue to manage development in areas, including property acquisitions to remove development from hazardous locations, pursuing relocation/elevation actions for flood- at risk properties, and providing enforcement measures following disasters to ensure that all redevelopment and recovery activities follow existing development codes. Continue programs to further identify hazards including incorporating future uncertain climate predictions.
- Continue programs to further identify hazards including, but not limited to, flood after fire erosion, wildfire, wind, drought, debris flows, rock fall, etc. and assess risk associated. Provide timely notification and direction to the public of imminent and potential hazards.
- Provide timely notification and direction to the public of imminent and potential hazards, including installing rain gauges, soil saturation sensors and stream monitoring systems for early warning identification of pending flooding situations and debris flows. Continue public education programs to improve resident's ability to make informed decisions based on the hazard and risks.
- Continue to manage development and mitigation efforts in hazard-prone areas.
 - Add Inclusivity and Affordable Housing, list such areas, identify, and prepare for impacts, and enhance early warning systems.
 - Add resiliency component and expand beyond flooding situations i.e., tornado and differentiate between detections versus warning.

Goal 2: Reduce Impacts of Hazard Events on Property, Critical Facilities/Infrastructure, and the Environment

- Continue to manage development and placement of structures in hazard-prone areas, including applying land use regulations to minimize exposure to potential hazards and expanding current wildfire mitigation and defensible space programs on both public and private lands. Create incentives and continue to provide assistance for the public to

- mitigate hazards on their own property.
- Protect existing property to the extent possible through regulations, codes, education, cooperative agreements, hazard reduction projects, and other means. Continue to manage development and protect existing properties in hazard-prone areas through regulations to minimize exposure to potential hazards.
 - Protect infrastructure and critical facilities to minimize loss of services following a hazard event including installation of backup generators and other vital infrastructure at critical county facilities.
 - Create incentives for the public to mitigate hazards on their own property through education, cooperative land acquisitions, Elevation and relocation programs, Community Wildfire Protection Plans, TDRs and TDCs, and other means as they become available or are created. Restore natural function of environmental processes. Or restore the natural function of environmental processes.
 - Continue to reduce flood losses through compliance with NFIP requirements; continue to comply with CRS requirements, where applicable (i.e., Boulder County, City of Boulder Longmont, and Louisville). NFIP is mandatory and CRS is not. Monitor progress and implement adaptive management as needed to incorporate new and improved best practices including those resulting from future uncertain climate predictions.

Goal 3: Strengthen Intergovernmental Coordination, Communication, and Capabilities Regarding Mitigating Hazard Impacts

- Promote planning efforts that foster cooperation and coordination among jurisdictions, agencies, and organizations involved in hazard mitigation.
- Establish and maintain processes and resources to incorporate mitigation and resiliency into recovery efforts following a hazard event.

Goal 4: Improve Public Awareness and Preparedness Regarding Hazard Vulnerability and Mitigation

- Enhance public education efforts regarding hazards and risk in Boulder County and the role of the public in mitigation.
- Continue engaging the public in hazard mitigation planning and implementation.
- Combine mitigation education efforts with existing governmental and non-governmental outreach programs.
- Incorporate the most up to date climate predictions with all whole community mitigation programs and projects.

Goal 5: Address Hazard Identification in the Context of Climate Change

- Strive to identify and address common issues related to hazard mitigation and climate changes.
- Monitor the ever-changing environment and continue to identify new or changing hazards.
- Address hazard identification in the context of climate change.

Mitigation Action Title	Jurisdiction	Priority	Goals	Hazards	Status	
Multi-Hazard Actions						
Boulder County						Update
Mechanical Treatment of Boulder County Parks and Open Space Forests	Boulder County Parks & Open Space	High	Goal 2	Wildfire	In Progress	In 2024 BCPOS Forestry staff planned and oversaw treatment of approximately 352 acres at Hall Ranch and Hansen-Riverside Ranch, partially funded by the CSFS – Incentive for Local Government grant, expanding upon previous work of the St. Vrain Forest Health Partnership. In addition, 13 acres were thinned by the BCSO Fire Crew at Sherwood Gulch, and in-house operations completed the Reynolds Ranch PA1U3 project, which included 6 patch cuts, approximately 165 tons of wood removed, and 5.5 acres treated; an additional 4.9 acres of egress work along Blue Mountain Road was also completed.
Restoration of Fire as an Ecological Process within Boulder County Parks and Open Space Forest	Boulder County Sheriff & Parks and Open Space	Medium	Goal 2	Flood, Debris Flows & Wildfire	In Progress	Under guidance of BCPOS Forestry, and BCSO Fire Management burned across several County properties in 2024. 195 slash piles, and 35 machine piles burned at Sherwood/Caribou Ranch; 82 slash piles burned at Reynolds Ranch; 657 slash piles and 13 machine piles burned at Hall Ranch. Project were all dependent on weather/fuels conditions.
Fire Management within the Boulder County Parks and Open Space (BCPOS) System	Boulder County Sheriff & Parks and Open Space	Medium	Goal 2	All Hazards	In Progress	In addition to the completed work listed above BCSO Fire Management was also able to burn several ditches totaling 30,750 feet and 21.5 acres of agricultural burns on BCPOS properties in eastern Boulder County. There was a 1557-acre wildfire that burned a portion of Ron Stewart Preserve at Rabbit Mountain Open Space this year totaling 569 acres. There were two other wildfires in the county for a total of 11.3 acres. Was Additionally, one wildfire at Walker Ranch Open Space this year which was caused by lightning. Fire was caught at about .1 of an acre.
Landscape Restoration and Climate Change Adaptation	Boulder County Parks & Open Space	Medium	Goal 2	All Hazards	In Progress	Direct seeded 32 pile burn scars at Reynolds Ranch to promote limber pine on the landscape. In addition, limber pine seed collected from trees on Boulder County Open Space was sent off to nurseries to grow approximately 2,000 seedlings for planting in 2025.

						<p>These trees will be used to restore limber pine that is species of special concern in Boulder County. Seeding of 189 acres across six properties with the majority being completed at Deberry property and Carolyn Holmberg Preserve at Rock Creek Farms. Other properties were Prescott, Sherwood, Walden Ponds, and Lyons Quarry. All the seedings utilized localized native seed mixes curated by plant ecology staff.</p> <p>Planting of 1473 shrubs with majority (775) at Walden Ponds and (590) at Kenosha Ponds. The remainder were planted at Zapf, Hall Meadows, Geer Creek at Heil, and Walden Ponds.</p> <p>Planting of 66 trees at Walden Ponds. The Soil Revolution Conference hosted 200 in-person registrants and 20 virtual for a conference focused on plant diversity and their relation to nutrition for livestock, building soil health with fungal-rich compost, fine tuning soil health practices and application, building climate resilience with soil health, and farm economics and good financial habits.</p>
Research and Monitoring the Health and Resiliency of Boulder County Parks and Open Space (POS) Forest and the impact of POS Management	Boulder County Parks & Open Space	Medium	Goal 2	Flood, Debris Flows & Wildfire	In Progress	<p>Installed and monitored 25 transects across 3 Significant Natural Communities to capture a baseline health assessment.</p> <p>Continued monitoring of extreme rain events as they may cause effects to Heil Valley Ranch which burned in 2020.</p> <p>These transects will be continually monitored on a yearly basis.</p>
Boulder County Wildfire Mitigation Requirements for New Homes and Remodels	Boulder County Community Planning & Permitting, Wildfire Partners	Medium	Goal 1, 2, & 4	Wildfire	In Progress	<p>In 2025, Boulder County updated its building code related to wildfire mitigation requirements for new homes and remodels, following the geographic expansion of these requirements to include the entire county in 2022. In 2025, our team of Wildfire Mitigation Specialists helped dozens of new homes, and deck permit applicants perform the required wildfire mitigation, conducting on-site assessments and inspections and providing on-going technical assistance and oversight. The team completed dozens of</p>

						assessments for individuals applying for short-term and vacation rental licenses in 20245. To date, we have performed over 200 Wildfire Partners assessments specifically for these rental licenses. The wildfire mitigation team is also responsible for reviewing planning dockets for possible ways to mitigate the risk of loss of life and property from wildfires.
Boulder County Strategic Fuels Mitigation Grant Program (SFMG)	Boulder County Community Planning & Permitting, Wildfire Partners	High	1, 2, 3&4	Wildfire	Completed and Ongoing	In 2025, the SFMG program completed a spring and fall grant cycle, awarding 12 grants totaling \$2.3 million. To date the SFMG has awarded 36 grants totaling \$5.4 million. These projects plan to treat 2,814 strategic acres of forest and grasslands. To date there have been approximately 1,115 acres completed. SFMG requires a minimum of 50% matching funds. As a result, the program has leveraged \$7.75 million in matching funds for fuels mitigation across the landscape or community wide since the inception of the SFMG program in 2025.
Boulder County Community Wildfire Protection Plan (CWPP) update	Boulder County Community Planning & Permitting, Wildfire Partners	High	1,2, 3, 4 &5	Wildfire	Completed	In the fall of 2024, the BC CWPP was approved and adopted by the Boulder County Board of County Commissioners (BOCC). The plan is a 487-page planning document that will be monitored to integrate updates as management recommendations and action items are implemented or added. The plan will be used to help guide stakeholders, implementors and managers across the county and will remain a collaborative process. A CWPP Story Map and project tracker were developed to help keep the plan up to date and show progress.
Boulder County Wildfire Partners and Defensible Space	Boulder County Community Planning & Permitting, Wildfire Partners	High	Goal 1, 2, & 4	Wildfire	In Progress	In 2025, Boulder County used funding from the Boulder County Wildfire Mitigation Tax to support our home assessment and certification program in the western portion of the county. As the first certification program in the county, Wildfire Partners has helped hundreds of residents obtain and retain insurance. As of December 2025, Wildfire Partners completed 804 total assessments, including initial assessments, re-assessments, and re-certification assessments. The county issued 419 Wildfire Partners Certificates in 2024.

Boulder County Wildfire Partners and Grinder	Boulder County Community Planning & Permitting.	Medium	Goal 1, 2, & 4	Wildfire	Complete	
Boulder County Wildfire Partners Education and Outreach Program	Boulder County Community Planning & Permitting.	Medium	Goal 1, & 4	Wildfire	In Progress	In addition to recruiting new participants and conduction assessments and inspections in the field, staff provide on-going education and outreach for the more than 4,500 participants in the program. Wildfire Partners sends a monthly newsletter and regular updates and communications to partners via email and social media postings. Staff continued to develop new technological tools and administrative systems to increase data accuracy, decrease response time, and increase staff productivity. The implementation of these automation activities continued to reduce the staff time needed to assist participants.
May Wildfire Awareness Month	Boulder County Community Planning & Permitting.	Medium	Goal 1, 2, 3, & 4	Wildfire	In Progress	Wildfire Partners continued its public awareness campaign and rebate program. We implemented a FEMA HMGP grant to help fund the campaign. In 2025, Wildfire Partners issued 785 rebates totaling \$344,767 for six “Calls to Action:” Junk Your Junipers, The First Five Feet, Fences Are Fuses, Protect Home Base and Declutter under your Deck, and Vents for Defense. The public awareness campaign—Wildfire Happens Here—served 64 million impressions across all activations—traditional, digital, and experiential. This is four times more impressions than 2024. Website visits to WildfirePartners.org increased to 76,707 in 2025 up from 11,804 visits compared to the same period in 2023. We continued our Youth Helping Vulnerable Individuals and Communities Program and offered 20 weeks for free mitigation services in collaboration with TEENS Inc., and Mile High Youth Corps. The program supported 91 total events.
Boulder County Community Chipping Program	Boulder County Community	Medium	Goal 1 & 4	Wildfire	In Progress	Boulder County has had a chipping program since 1993. With funding from the Wildfire Mitigation Tax, we

	Planning & Permitting.					expanded the program and now offer a free chipping service to all residents in Boulder County (incorporated and unincorporated areas) with a minimum of five participating residents. B In 2025, the program held 1more than 100 events with over 2,000 participants. The program and its nine chipping contractors received fantastic reviews from happy participants.
Acquisition of Flood-prone Properties	Boulder County Community Planning & Permitting.	Medium	Goal 1 & 2	Flood	In Progress	The county's "Floodplain Partners" program (funded by a 2020 FMA Advance Assistance Grant) determined that it was not feasible to establish an annual Flood Mitigation Assistance (FMA) grant program for property acquisition. However, the county will pursue acquisition of flood-prone properties as opportunities arise. In 2024, no flood-prone properties were acquired.
Elevation of Flood-prone Structures	Boulder County Community Planning & Permitting.	Medium	Goal 1 & 2	Flood	In Progress	The county's "Floodplain Partners" program (funded by a 2020 FMA Advance Assistance Grant) determined that it was not feasible to establish an annual Flood Mitigation Assistance (FMA) grant program for structure elevation. However, the county continues to work with property owners on the elevation of existing structures, including for Substantial Improvement projects. In 2024, no additional structures have been elevated.
Integration of Land Use and Mitigation Plans	Boulder County Community Planning & Permitting.	Medium	Goal 1, 2, 3 & 4	Flood, Wildfire, Landslide, and other Geologic Hazards	In Progress	This is an ongoing effort, as the Code and Comprehensive Plan are updated over time integrating hazard mitigation into these documents occurs. The county has a current effort underway to rezone the intensive zone districts in the flood prone areas around Lyons. Upcoming efforts to update the Comprehensive Plan include updating the Natural Hazards element.
Debris Flow / Landslide Early Detection and Warning System	Boulder ODM.	High	Goal 1 - 5	Flood, Wildfire, Landslide, and other Geologic Hazards	In Progress	A pilot study was implemented in 2022-2023 to install and upload soil moisture monitoring feeds for access in the Vieux/AEM Vflo alerting platform for Fourmile Creek and Geer Creek watersheds. Alerts were set up to indicate if soil moisture exceeded 70%. These alert levels were not reached/triggered but daily soil moisture reports were received and monitored in association with rainfall (predicted and actual) and stream flow elevations (predicted and actual). The County will revisit

						this system in 2024 and decide if further County-wide investment beyond the pilot projects should be advocated.
Implementation of Watershed Master Plan Projects	Boulder County Parks and Open Space, Public Work's, and CP & P	High	Goal 1,2,3, & 4	Flood	In Progress	<p><< <i>Public Works is not involved in Watershed Master Plan Projects as Floodplain has move to CP&P</i> >></p> <p>POS has a consultant under contract to finalize the design and construction documents for restoration of South St. Vrain Creek at Hall Ranch 2 Open Space. In addition, the POS is partnering with The Watershed Center on a design-build creek restoration project further downstream along South St. Vrain Creek. Both projects were identified in the St. Vrain Creek Watershed Master Plan and included in the post-flood 30% creek restoration design funded by CDBG-DR. The goals of each project are to increase resilience, improve public safety, and enhance habitat values.</p> <p>BCPOS continued work on Boulder Creek with Mile High Flood District to construct the Howell Ditch diversion to be more flood resilient and simultaneously restore a segment of the creek to improve ecosystem function. Construction will begin in 2024 or 2025.</p>
Boulder County Community Forestry Sort Yards	Boulder County Parks & Open Space	Medium	Goal 1,2 & 3	Wildfire	In Progress	The CFSY program managed by BCPOS operated for 213 days last season and accepted 10,958 loads of material. Those loads consisted of approximately 2,015 tons of slash, 568 tons of wood, and 479 tons of chips. Collect 72,047 cubic feet of yard debris. 2,229 properties participated in the CFSY program in 2024.
Boulder County Youth Corps Forestry and Fire	Boulder County Parks & Open Space	Medium	Goal 1, & 2	Wildfire	In Progress	BCPOS Forestry Youth Corps and volunteers combined to thin approximately 2.5 acres of lodgepole pine regeneration in patch cuts at Reynolds Ranch. BCYC and in-house operations completed a 3-acre fuels reduction project on the Overland property. 15 slash piles were built, and 4.5 cords of wood were removed.
Flood Hazard Studies and Flood Hazard Mapping	Boulder County Community Planning & Permitting.	Medium	Goal 1,2 & 5	Flood, Landslide	In Progress	The Colorado Hazard Mapping Program (CHAMP) has been updating flood hazard information for streams most affected by the 2013 flood. In 2024, CHAMP data

				Subsidence		<p>was finally incorporated into FEMA’s Flood Insurance Rate Maps (FIRMs).</p> <p>A Flood Hazard Study of Bullhead Gulch is also underway, led by Mile High Flood District and supported by the county. In 2024, work continued the hydraulic analysis portion of the study.</p> <p>The county is also coordinating with FEMA on a re-study of a portion of Lefthand Creek. The re-study was the result of an appeal of the CHAMP data in this area. Outreach to residents is expected in 2025, pending FEMA’s contractor providing final data to the county.</p>
Floodplain Management Program Updates and Flood Education/Outreach	Boulder County Community Planning & Permitting.	Medium	Goal 3, 4, & 5	Flood	In Progress	<p>Implementation of the Resiliency Study continues. Floodplain regulations in the Land Use Code were updated in 2023 to prohibit camping the floodplains, clarify flood protection measures for agricultural structures, and other minor code updates.</p> <p>Floodplain outreach in 2024 included annual flood season mailings to all floodplain property owners.</p>
Incorporate identified resiliency actions including projects, policies, and programs into transportation plans, codes, or standards	Boulder County Public Works and CP & P	High	Goal 1,2,3 & 4	All Hazards	In Progress	<p>This is a perpetual effort on the part of CPP, as the Building Code, Land Use Code and Comprehensive Plan are updated over time integrating hazard mitigation and resiliency into these documents. For example, Boulder County has historically had stringent Building Code requirements related to the wildfire risks in the mountainous areas of Boulder County. After the Marshall Fire, Boulder County focused some attention on the ignition resistance requirements for exterior materials in the plains. As a result of this effort, and in alignment with the latest industry research on the subject, we have expanded the requirements and have dramatically reduced the vulnerability of new homes to wind-bourn embers in the plains of Boulder County.</p> <p>Public Works is updating the Multimodal Transportation Standards in 2024 and will include resiliency components in the new document.</p>

Replace or Upsize Structures to Improve Resilience	Boulder County Public Works	High	Goal 2	Flood or Dam Failure	In Progress	Structures are upsized as condition replacement is warranted. Proactive upsizing is not possible due to funding reductions.
Sugarloaf Rd improvements	Boulder County Public Works	High	Goal 2	Landslide	In Progress	Project Completed in 2023.
Continue Involvement in Climate Adaptation Planning Process	Boulder ODM / BOCC	Medium	Goal 1,4 & 5	All Hazards	In Progress	Maintaining the relationship and supporting initiatives as ODM is needed.
Community Hazards Education and Preparedness Plan	Boulder ODM	Medium	Goal 1,3, & 4	All Hazards	In Progress	Implemented virtual and in person training throughout the year. Develop new preparedness programs related to alert and warning, evacuations, risk profiles and protective measures to take.
Wildfire Partners – Eastern County Expansion Program	Boulder County Community Planning & Permitting.	High	Goal 1-5	Wildfire	In Progress	<p>In addition to its public awareness campaign, rebate program, community chipping program, and regulatory assessment program (see other Mitigation Actions), Wildfire Partners developed a Community Mitigation Planning Program. Wildfire Partners is currently working with 31 communities in this program, and two new communities obtained their Firewise USA designation in 2025.</p> <p>Boulder County also hired a Water Resources Wildfire Mitigation Specialist in December 2024 to coordinate mitigation efforts focused on ditches in eastern Boulder County.</p>
Prince Lake No. 1 Dam Rehabilitation	Boulder County Parks & Open Space (owner) Partner: Dam Safety Branch, Division of Water Resources, Department of Natural Resources, State of Colorado	High	Goals 1 & 2	Dam Failure	In Progress	The design of the rehabilitation project is complete and has been approved by the State Engineer. An HMGP grant application has been submitted to FEMA through DHSEM. Anticipating starting construction in 2024 or 2025 with a duration of about 8 months. This project will greatly reduce flood risk downstream of the dam.

<p>Off-Channel Water Body Hazard Mitigation and Resiliency Measures on Open Space</p>	<p>Boulder County Parks & Open Space, Public Works and Community Planning & Permitting.</p>	<p>Medium</p>	<p>Goal 2</p>	<p>Flooding and Erosion</p>	<p>In Progress</p>	<p>This mitigation focus is within Parks and Open Space and does not require involvement in Public Works. Work continues to reservoirs along St. Vrain Creek on POS lands impacted by 2013 flood. In 2023, boundary fencing was installed to protect infrastructure and project’s LOMR was approved by FEMA. Operations & maintenance agreements are being finalized that, for one, outlines emergency operations plan for reservoir-related structures owned by multiple entities. Basin-wide planning for future opportunities to increase resilience that incorporated off-channel water bodies continues with St. Vrain & Left-Hand Water Conservancy District.</p>
---	---	---------------	---------------	-----------------------------	--------------------	---