



PLANNING FOR HAZARDS

Land Use Solutions for Colorado

Rocky Mountain Land Use Institute

March 10, 2016

Overview of Presentation

- ▶ Why planning for hazards is important to Colorado
- ▶ Approaches to planning for hazards
- ▶ Overview of the planning for hazards guide
- ▶ Colorado case studies
- ▶ Moving forward – next steps





Why Planning for Hazards is Important to Colorado

Why Colorado?

- ▶ The population is **growing**
- ▶ We are no stranger to hazards (and they are increasing in frequency and severity)
- ▶ Many Colorado communities face hazards
 - ▶ Riparian areas (floodways)
 - ▶ Forested areas (wildland-urban interface)
 - ▶ Ridgelines (great views/steep slopes)



Colorado Resiliency Framework

- ▶ Governor adopted in 2015
- ▶ Establishes a vision and definition of
- ▶ A “call to action” for Colorado communities
- ▶ Outlines concrete strategies, including this guide
- ▶ coloradounited.com



What is Resiliency?

*“The ability of communities to rebound and positively **adapt to or thrive amidst changing conditions or challenges** – including disasters and changes in climate – and maintain quality of life, healthy growth, economic vitality, durable systems and conservation of resources for present and future generations.”*

- Colorado Resiliency Working Group

RESILIENCE • PERSISTENCE • SUSTAINABILITY • FORTITUDE
SUPPORT REBUILD **COMMUNITY** FEEL BACK
RESOURCES • DISASTER • TOUGHNESS • MAKE • ABILITY
KEEP GRIT **ABILITY** DETERMINATION • PREPARED
KEEP • RECOVER • GIVING • RECOVERY • FACE • EVENT • WORK
ABLE • OVERCOME • COME **BOUNCE** DRIVE
OBSTACLES • ADAPTABLE FORTITUDE • LIFE • OVER • ALWAYS • DEDICATION • POSITIVE
COMMITTED • BOUNCE-BACK • BRAVERY • TOGETHER • STATE
WITHSTAND **BACK** MATTER • ONE • HELP • READY
FORWARD CAPACITY • THROUGH • ADVERSITY
COMING • LASTING • DURABLE • TENACITY • NEIGHBORS
OTHERS • HARDSHIP • SITUATIONS • IMPROVED • MOVING
ENDURANCE • TOUGH **STRONG** STEADFAST
TOGETHER • PERSISTENT DETERMINED • PERSISTENCE • WITHSTAND • REBUILDING





Approaches to Planning for Hazards

Approaches to Consider

Avoidance

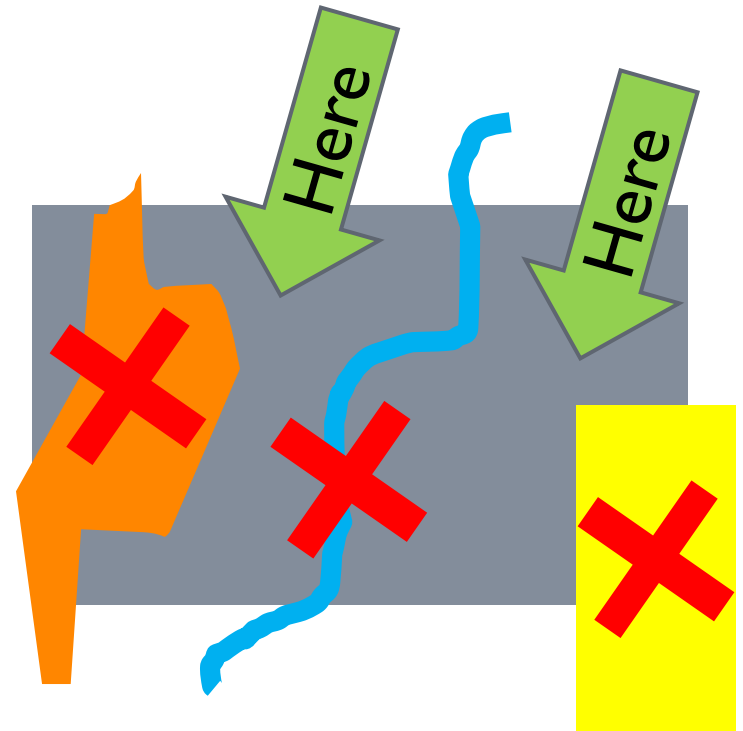
The most effective way to protect development from hazards is simply to prohibit development in known hazard areas.

But that's not always possible.....



Approaches to Consider

- ▶ Prevent development in hazardous areas
- ▶ Direct future growth to safer areas
- ▶ Strengthen existing development in hazardous areas



Consider Community Context

- ▶ Size and geographic location
- ▶ Technical, administrative, and financial capacity
- ▶ Community goals and political will



Consider the Interrelatedness of Hazards

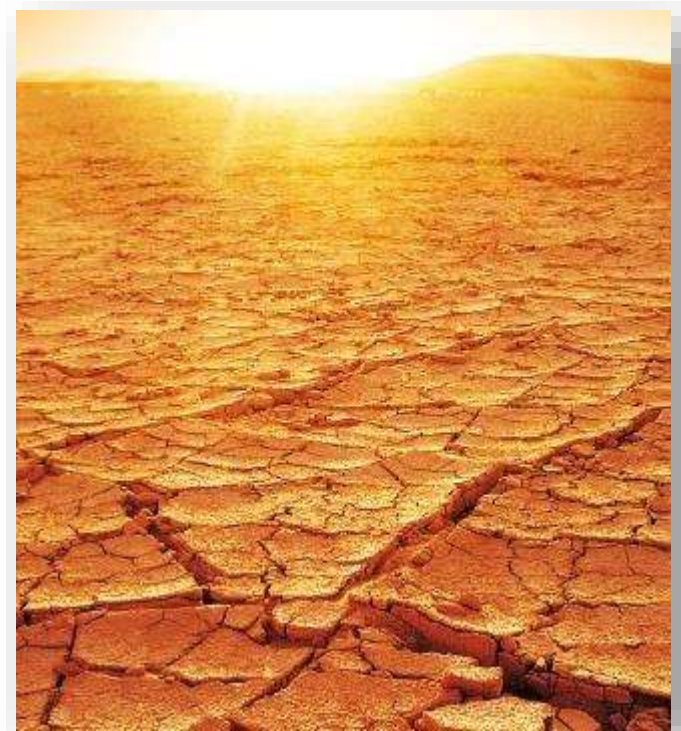
For example:

- ▶ Drought → Fire
- ▶ Lightning → Fire
- ▶ Fire → Flooding
- ▶ Fire → Debris Flow
- ▶ Flooding → Soil Hazards



Consider Climate Change

- ▶ *Colorado Climate Plan (2015)* suggests that Colorado temperatures will increase another 2.5 to 5 degrees Fahrenheit by 2050
 - ▶ Longer and more severe droughts
 - ▶ Faster and earlier snowmelt
 - ▶ More frequent periods of extreme heat



Planning for Hazards – A Collaborative Approach

- ▶ Land use planners
 - ▶ Emergency managers
 - ▶ Elected and appointed officials
 - ▶ Public works officials
 - ▶ Community advocates
 - ▶ Business owners
 - ▶ Developers
 - ▶ Citizens
-





Overview of the Planning for Hazards Guide

Overall Goals

- ▶ Communicate to multiple audiences
- ▶ Ensure all content is accessible in a variety of formats
 - ▶ **Printed guide**
 - ▶ User-friendly exploration of major planning tools
 - ▶ All content, plus internal and external links
 - ▶ **Website:**
 - ▶ Essential content from all chapters (background, framework, resources, examples)
 - ▶ Multiple ways (entry points) to access information
 - ▶ Multimedia content
 - ▶ Foundation for future updates



Outline:

- ▶ Introduction and Summary
- ▶ Planning Framework
- ▶ Hazard Identification and Risk Assessment
- ▶ Planning Tools and Strategies
- ▶ Moving Forward
- ▶ Appendix – Hazards in Colorado



PLANNING FOR HAZARDS
Land Use Solutions for Colorado

FEBRUARY 2016

The Hazards Lineup



Avalanche



Drought



Earthquake



Extreme Heat



Flood



Hazardous
Material Release



Landslide, Mud/
Debris Flow, and
Rockfall



Severe Winter
Storm



Soil Hazards



Wildfire



Wind Hazards



Planning Tool Profiles

ADDRESSING HAZARDS IN PLANS AND POLICIES

Integrating Risk Reduction into Comprehensive Plans

Climate Plan

Community Wildfire Protection Plan (CWPP)

Hazard Mitigation Plan

Parks and Open Space Plan

Pre-Disaster Planning (COOPs, COGs, and PDRPs)

STRENGTHENING INCENTIVES

Community Rating System

Density Bonuses

Development Agreements

Transfer of Development Rights

PROTECTING SENSITIVE AREAS

1041 Regulations

Cluster Subdivisions

Conservation Easements

Land Acquisition

Overlay Zoning

Stream Buffers and Setbacks

IMPROVING SITE DEVELOPMENT STANDARDS

Low-Impact Development and Stormwater Management BMPs

Site-Specific Assessments

Subdivision and Site Layout Standards

Use-Specific Standards in Zoning Regulations

IMPROVING BUILDINGS AND INFRASTRUCTURE

Building Code

Critical Infrastructure Protection

WUI Code

ADMINISTRATION AND PROCEDURES

Application Submittal Requirements

Post-Disaster Building Moratorium



What's in the Tool Profiles?

- ▶ How it Works
- ▶ Implementation
- ▶ Where It's Been Done
- ▶ Advantages and Key Talking Points
- ▶ Challenges
- ▶ Model Code Language and Commentary (for some)
- ▶ Key Facts
- ▶ Examples and More Information



SUBDIVISION AND SITE DESIGN STANDARDS



Source: Clarion Associates

HAZARDS ADDRESSED



HOW IT WORKS

Subdivision and site design standards are used by communities to regulate how parcels of land are divided into developable lots, and how those lots are subsequently designed and laid out through the development process. Subdivision typically includes the creation of a sketch plan (showing basic lot layout and provisions for public infrastructure), and subsequent creation of a more detailed preliminary plat (indicating building footprints and specific measurements), and then culminating in a final plat that creates the new lots. Abbreviated procedures are typically established for minor subdivisions that involve the creation of just a handful of lots.

Site design standards are related and define the basic parameters for development on individual lots, including maximum or minimum lot size, how buildings are situated on a lot, traffic and circulation patterns, pedestrian connectivity, preservation of open areas, and avoidance of hazardous areas.

Communities increasingly consider hazard mitigation when adopting site layout standards. For example, applicants are required to avoid mapped hazard areas (like floodplains) in new development or to develop strategies to mitigate the hazard risk.

IMPLEMENTATION

As communities grow, they should identify where new growth should be concentrated through long-range planning mechanisms, such as the comprehensive planning process. There can be pressure to locate new development in areas that are known to be at risk from hazards. Communities must balance competing interests when reviewing proposed development. For example, the need for additional workforce housing in a community should be balanced against the desire to protect natural areas, view corridors, and natural hazard areas, as well as the safety and welfare of future inhabitants of the development. Communities are challenged with keeping development out of

harm's way while allowing individuals to develop land consistent with stated policies. Communities can often find middle ground through subdivision standards that allow for new subdivisions to be approved when they meet conditions to mitigate hazards, such as water cisterns for wildfire protection, slope stabilization for landslide and rockfall, and keeping buildable lots out of the floodplain. Additional incentives and regulations can be explored such as **cluster subdivisions**, **density bonuses**, and **Transfer of Development Rights (TDRs)**, each of which are good tools for promoting avoidance of hazards. Each of these are discussed in separate planning tool profiles.

According to APA's *Zoning Practice* issue on Safe Growth Audits (Godschalk, 2009), communities should ask themselves the following questions related to their subdivision regulations:

1. Do the subdivision regulations restrict the subdivision of land within or adjacent to natural hazard areas?
2. Do the regulations provide for conservation subdivisions or cluster subdivisions in order to conserve environmental resources?
3. Do the regulations allow density transfers where hazard areas exist?

As with zoning codes, adoption of subdivision ordinances or site layout standards requires approval by the governing body (City Council, Board of Trustees, or County Commissioners).

WHERE IT'S BEEN DONE

Pagosa Springs adopted sensitive area protection standards for subdivisions and for redevelopment of existing areas in its Land Use and Development Code (2015). The standards generally address the following issues:

- **Slopes.** Slopes greater than 30 percent, or are otherwise unstable or subject to hazards, are not allowed to be platted or developed for residential uses without mitigation controls in place.
- **Natural Features.** Subdivisions or development shall protect waterways, vegetation, and rocks and other natural features or vistas.
- **Areas of Special Flood Hazard.** Mapped flood hazard areas identify areas where subdivisions shall not be approved without evidence that it is not in a flood hazard or meets other flood damage protection regulations to the satisfaction of the floodplain administrator.
- **Geologic Hazard Areas.** Subdivisions and site plans must meet mitigation conditions prior to approval in mapped geologic hazard areas in the Town as the information becomes available, including provisions to prevent danger to human life or property.
- **Wildfire Hazard Areas.** Applicants for subdivisions or other development must provide evidence from a professional forester that the proposal meets several conditions, including adequate roads for emergency services and criteria for wildfire areas published by the Colorado State Forest Service.
- **Perimeter Fencing.** Limits the height to protect migration of elk and deer.
- **Riparian Setbacks.** To promote and preserve the quality of the river ecology, aesthetic, and recreation.

In addition to these standards, approval criteria for major subdivisions also address areas that may involve soil or topographical conditions that present hazards.

KEY FACTS

Administrative capacity	Experienced planner with city or county attorney to write ordinance. Skilled planners to administer program and track implementation
Mapping	Technical mapping of sending and receiving areas is typically required
Regulatory requirements	Land use regulations. Also, an intergovernmental agreement (IGA) typically is used if the TDR program is administered as a joint initiative between multiple jurisdictions
Maintenance	Yes, requires extensive on-going tracking mechanism for TDRs
Adoption required	Yes, the requirements and conditions for TDRs must be specified in the local land use regulations
Statutory reference	General zoning and land use regulatory authority. Home rule authority. See earlier discussion in the <i>Planning Framework</i>
Associated costs	Extensive staff time. TDRs will require outside consulting for land value expertise and dedicated staff for long-term maintenance of the program

EXAMPLES

Boulder County Land Use Code	bouldercounty.org/doc/landuse/lucodearticle06.pdf Section 6-700
City of Fruita Land Use Code	fruita.org/sites/default/files/fileattachments/community_development/page/242/17.09.pdf Chapter 17.09 TDR
Mesa County Land Development Code	mesacounty.us/planning/land-development-code.aspx Section 9.8 Transferable Density Credits
Pitkin County Land Use Code	pitkincounty.com/DocumentCenter/View/5858 Section 6-70
Routt County PDR program	www.co.routt.co.us/DocumentCenter/View/16
Summit County TDR program	co.summit.co.us/index.aspx?NID=187
King County, Washington TDR bank	kingcounty.gov/environment/stewardship/sustainable-building/transfer-development-rights/bank.aspx

FOR MORE INFORMATION

American Planning Association Planning Advisory Service - PAS Memo May/June 2010: "TDR-Less TDR Revisited."
clarionassociates.com/pdfs/duerkson-tdr-less.pdf

- ▶ Quick key facts
 - ▶ Capacity requirements
 - ▶ Statutory requirements
 - ▶ Maintenance concerns
 - ▶ Associated costs
- ▶ Examples from around Colorado (and sometimes the U.S.)
- ▶ “For more information” includes supporting reference materials

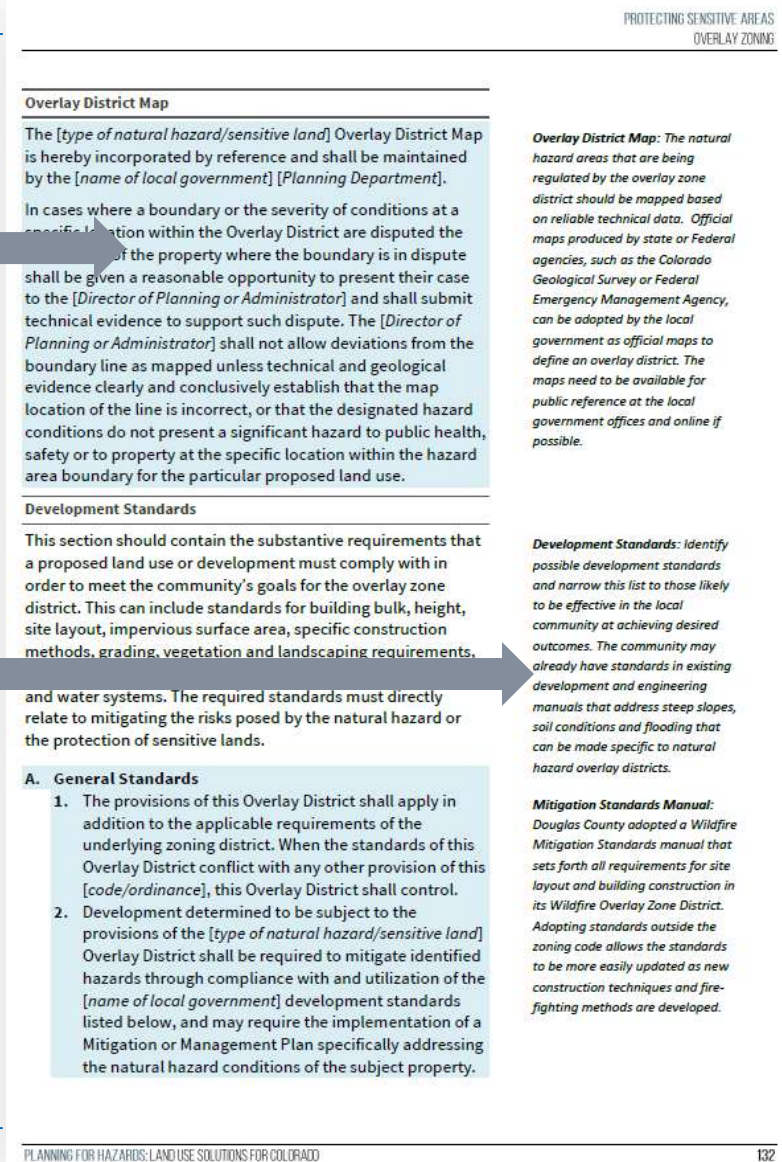
Model Code Language

- ▶ Integrating Risk Reduction into Comprehensive Plans
 - ▶ Climate Plan
 - ▶ Community Wildfire Protection Plan (CWPP)
 - ▶ Hazard Mitigation Plan
 - ▶ Parks and Open Space Plan
 - ▶ Pre-Disaster Planning
 - ▶ Community Rating System
 - ▶ Development Agreements
 - ▶ Transfer of Development Rights
 - ▶ Density Bonuses
 - ▶ I04I Regulations
 - ▶ Cluster Subdivisions
 - ▶ Land Acquisition
 - ▶ Overlay Zoning
 - ▶ Stream Buffers and Setbacks
 - ▶ Low-Impact Development and Stormwater Management BMPs
 - ▶ Site-Specific Assessments
 - ▶ Subdivision and Site Layout Standards
 - ▶ Use-Specific Standards
 - ▶ Building Code
 - ▶ Critical Infrastructure Protection
 - ▶ WUI Code
 - ▶ Application Submittal Requirements
 - ▶ Post-Disaster Building Moratorium
-



Model Code Language

- ▶ Language to be tailored for local governments (in blue)
- ▶ Based on several best practices throughout Colorado and the nation
- ▶ Includes commentary for further explanation (in margin)



Case Study – Cluster Subdivisions

Applicability

- A.** Cluster subdivisions are permitted in the *[name of district(s)]* zoning districts.
- B.** Clustering of lots is required in the following:
 - 1.** New subdivisions in the *[name of district(s)]* zoning districts.
 - 2.** New subdivisions in a wildfire hazard area of *[insert range of severity level of mapped wildfire hazard areas]*.

Applicability: *Cluster subdivision can either be mandatory or optional. Many communities limit the districts where clustering benefits can be achieved (such as low-density residential or agricultural districts). For mapped hazard areas, communities can require clustering in certain instances (e.g., high to extreme wildfire hazard rating). Mapping can be tied to the comprehensive plan or hazard mitigation plan.*



Case Study – Cluster Subdivisions

SW County

Archuleta County
Subdivision Regulations

archuletacounty.org/index.aspx?nid=247

Big City

City of Aurora
Small Lot Development
Standards

municode.com/library/co/aurora/codes/building_and_zoning

DOLA Model Codes
Cluster Subdivision
Regulations

colorado.gov/pacific/dola/land-use-codes

Small Town

City of Durango
Cluster Development

online.encodeplus.com/regs/durango-co

Larimer County
Rural Land Use Process

co.larimer.co.us/planning/planning/landuse

Front Range

City of Longmont
Cluster Lot Subdivisions

municode.com/library/co/longmont/codes/code_of_ordinances

Town of Pagosa Springs
Conservation Subdivisions

municode.com/library/CO/pagosa_springs/codes/code_of_ordinances

Routt County
Land Preservation
Subdivision

www.co.routt.co.us/index.aspx?nid=194

San Miguel County
Areas and Activities of Local
and State Interest

sanmiguelcounty.org/243/Land-Use-Code

Resort County

Summit County
Rural Land Use Subdivision
Process

[co.summit.co.us/DocumentCenter/Home/View/63_\(Section_8420\)](http://co.summit.co.us/DocumentCenter/Home/View/63_(Section_8420))

Appendix – Hazards in Colorado

- ▶ **Expanded information related to the hazards profiled in the guide. Each hazard includes:**
 - ▶ Description of the hazard
 - ▶ Hazard risk in Colorado
 - ▶ Related hazards
 - ▶ Available data sources
 - ▶ Summary of applicable planning tools and strategies





www.planningforhazards.com



Purpose of the Guide

Learn how the Hazard Mitigation Guide can help your community address risks and integrate hazard mitigation into policies, regulations, and standards.

Intro

This guide provides detailed, Colorado-specific information about how to assess a community's risk level to hazards and how to implement several land use planning tools and strategies for reducing a community's risk.



Read the Guide

To explore this guide or specific chapters in the traditional format, Page-by-Page from start to finish, look for the purple Table of Contents on the top right and the previous/next buttons on the bottom of each page.

Table of Contents



Goals of the Website

- ▶ Accommodate different user experiences
- ▶ Offer user-friendly interface
- ▶ Make it easy to access information from the printed guide
- ▶ Bring the document to life through enriched media
- ▶ Dynamic with new content over time



JANE



JIM



JOHN



“Jim’s Scenario”

Interested in wildfire, Jim has some burning questions...

- ▶ How does wildfire impact Colorado communities?
- ▶ What types of planning tools can address wildfire?
- ▶ What other hazards can be addressed with the same planning tool?
- ▶ Is there model code language for that planning tool?



Learn how the H



Avalanche



D



Hazardous Material
Release



Extre



Wildfire



Wind Hazards



Severe Winter Storm

Wildfire

On This Page

- [Description](#)
- [Wildfires in Colorado](#)
- [Related Hazards](#)
- [Available Data Sources](#)
- [Assessing the Risk of Wildfire](#)

Description

The Colorado Natural Hazards Mitigation Plan defines a **wildfire** as an unplanned, unwanted **wildland fire**, including unauthorized human-caused fires, escaped wildland fire use events, escaped prescribed fire projects, and all other wildland fires where the objective is to put the fire out[36]. Wildland fire occurs when vegetation, or “fuel,” such as grass, leaf litter, trees, or shrubs, is exposed to an ignition source and the conditions for combustion are met, resulting in fire growth and spread through adjacent vegetation.



Wildland fires are either ignited by lightning or by some consequence of human activity. **In Colorado, lightning accounts for only 17 percent of wildfires, with human ignitions accounting for the remainder.**[37] Human causes vary and can include escaped debris pile burning, campfires, fireworks, construction sparks, downed transmission lines, and arson.

Wildland fires can occur during any time of year. Although there are frequent references to a “fire season,” ignitions are a result of the ability of fuels to support combustion. In addition to an ignition source, the fuel type, amount of fuel, distribution pattern, and moisture content—coupled with weather and topography—will determine the conditions for combustion and resulting fire behavior. Fire behavior “outputs” include intensity,

Applicable Planning Tools and Strategies

Addressing Hazards in Plans and Policies



- Comprehensive Plans
- [Climate plan](#)
- Community Wildfire Protection Plan
- Hazard mitigation plan
- [Parks and open space plan](#)
- Response and recovery planning

Strengthening Incentives



- Development agreements
- Transfer of development rights and density bonuses

Protecting Sensitive Areas



- 1041 Regulations
- Cluster subdivisions
- Conservation easements
- Land acquisition
- [Overlay zoning](#)

Close



Land Use Tool: Overlay Zoning

On This Page

[How It Works](#)

[Implementation](#)

[Where It's Been Done](#)

[Advantages and Key Takeaways](#)

[Challenges](#)

How It Works



Overlay zoning is used by communities to apply area-specific standards and/or conditions to a zoning district (such as residential or mixed-use) determines the types of uses permitted, the dimensional requirements, and sometimes additional district-specific standards. An overlay district (or overlay zone) is an additional layer of standards that apply to all areas within a defined overlay boundary, regardless of the underlying base zoning district. For example, an area with single-family homes that is zoned R-1 might also be within a hillside overlay zone. In this example, the permitted uses might allow construction of a single family home according to the R-1 standards.

Model Codes & Regulations

[Learn More](#)

Hazards Addressed



[Flood](#)



[Wildfire](#)

PDF

[Download PDF](#)

[See all PDFs](#)

Key Facts

Administrative Capacity - Experienced planner

Mapping - Technical mapping typically required

Community Rating System



Strengthening
Incentives



- ▶ Voluntary, incentive-based program that encourages community floodplain management activities that exceed minimum federal standards
- ▶ Provides a strong framework for implementing comprehensive flood risk management
- ▶ Flood insurance rates are discounted for ALL policyholders in the community based on creditable local activities
- ▶ 46 Colorado communities currently participate in CRS



FEMA



Community Rating System

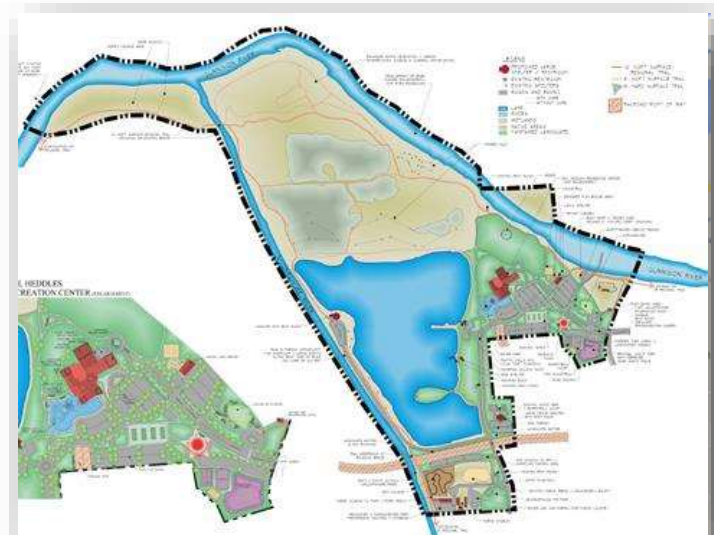


Strengthening
Incentives



City of Delta

- ▶ Pop. = 8,652 (2014)
- ▶ Total number of NFIP policies = 10
- ▶ Joined CRS in 1996, actively participating as **Class 8** community (10% discount for floodplain properties)
- ▶ Key activities include:
 - ▶ Open space preservation
 - ▶ Drainage system maintenance
 - ▶ Higher regulatory standards
 - ▶ Public outreach activities



Critical Infrastructure Protection

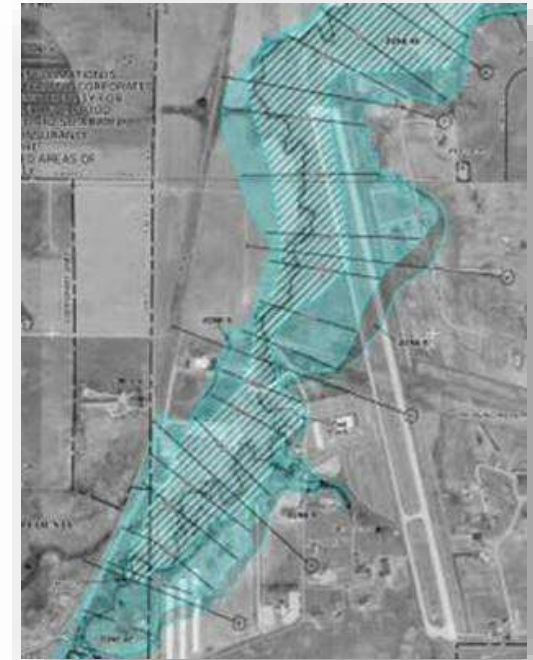


Improving
Buildings and
Infrastructure



Erie Municipal Airport

- ▶ Major economic asset and opportunity for Town of Erie
- ▶ Critical “transportation & lifeline” facility
- ▶ Traverses Coal Creek floodplain
- ▶ Airport access limited to single bridge at Coal Creek Crossing
 - ▶ Connects runway to maintenance facility, private hangars and several businesses
 - ▶ Critical to proposed Airport Business Park



Critical Infrastructure Protection



Improving
Buildings and
Infrastructure



- ▶ Undersized, decaying culvert required frequent clearing and repairs – just to keep operational in small storms
- ▶ In 2008, the Town replaced the culvert through the assistance of FEMA Pre-Disaster Mitigation (PDM) funds
- ▶ Total project cost = \$417,083
- ▶ No damage or economic loss during September 2013 flood

“The structure worked per its design. It’s a great asset to the town and the airport.”

- Russell Pennington
Deputy Director of Public Works
Town of Erie



Site-Specific Hazard Assessment



Improving Site
Development
Standards



Eagle County, Colorado

- ▶ Wildfire management requirements during planning procedures
 - ▶ Sketch Plan Process
 - ▶ Special Uses
 - ▶ Subdivisions
 - ▶ PUDs
- ▶ Requirements for building permits
- ▶ Site inspection process



Used with permission:

Eric Lovgren

Wildfire Mitigation Manager



Site-Specific Hazard Assessment



Improving Site
Development
Standards



Challenges in implementation

- ▶ Public acceptance takes time
- ▶ Competing interests such as “natural forest views”
- ▶ Second homeownership – seasonal population
- ▶ Poor design of existing communities (lack of appropriate ingress/egress)
- ▶ Paying for the program – (only charges a \$200 wildfire mitigation fee)



Site-Specific Hazard Assessment



Improving Site
Development
Standards



Advantages and Key Talking Points (from the guide)

- ▶ The best (and in some cases the only) way to identify hazards on a site and determine the most effective methods for mitigation.
- ▶ Highlight potentially hazardous conditions prior to any development occurring.
- ▶ Provide an important educational component between staff and the applicant related to hazards.
- ▶ Results in reduced risk to property and life.



Subdivision and Site Design Standards



Pagosa Springs, Colorado *Sensitive Area Protection Standards*

- ▶ Land Use and Development Code
 - ▶ Slopes
 - ▶ Natural features
 - ▶ Areas of special flood hazard
 - ▶ Geologic hazard areas
 - ▶ Wildfire hazard areas
 - ▶ Riparian setbacks
 - ▶ Perimeter fencing (for wildlife migration)



Subdivision and Site Design Standards



Pagosa Springs, Colorado

Sensitive Area Protection Standards

Example: Subdivisions in Geologic Hazard Areas must meet several conditions, including:

- ▶ Will not create undue financial burden on future residents or the community
- ▶ Structures designed for occupancy shall be constructed to prevent risk to life or property
- ▶ Permitted land uses shall avoid or mitigate geologic hazards at initial construction



Video Interviews

- ▶ Enriched media content
- ▶ Real life examples of planning for hazards
- ▶ Description of tools





Planning for Hazards in Larimer County



Fire and Flood

Mitigating the Risks in Larimer County



June 9, 2012 High Park Wildfire



Aerial Mulching Operation



**On
September 9,
2013...**

**...it started to
rain**



Colorado Largest Disaster September 2013 Flood



September 11, 2013

Flood Statistics

10 People Died
18,000 Evacuated
1,882 Structures Destroyed
20 inches of rain in 7 days



Larimer County Planning Activities



- ▶ County Ordinances and Policies
- ▶ County Strategic Plan
- ▶ Hazard Mitigation Plan



Moving Forward/Next Steps

Putting the Guide into Action

- ▶ Use guide to inform community planning policies and procedures
- ▶ Use guide to support ongoing emergency management and mitigation efforts
- ▶ Use guide as an educational and outreach tool



Choosing Appropriate Planning Tools

Ask the following questions when selecting tools and strategies:

- ▶ What hazards are you trying to mitigate?
- ▶ Do you have policies in place already?
- ▶ Do you have capacity to implement?
- ▶ Do you have community buy-in?
- ▶ Could you accomplish multiple goals with one tool?



Building the Case

- ▶ Thoughtful engagement
- ▶ Unified messaging
- ▶ Findings grounded in data
- ▶ Speak to elected officials early and often



Forming a Network

- ▶ Identify subject matter experts
- ▶ Find examples from other communities
- ▶ Develop best practices and additional resources
- ▶ Harness political leadership
- ▶ Recruit local champions



Additional Best Practices?

Submit your ideas to:

Andrew.Rumbach@ucdenver.edu



Questions & Discussion





Thank You



PLANNING FOR HAZARDS
Land Use Solutions for Colorado

Anne Miller

anne.miller@state.co.us

Lori Hodges

hodgeslr@co.larimer.co.us

Darrin Punchard

darrin.punchard@hawksley.com

Tareq Wafaie

twafaie@clarionassociates.com