Boulder County 2013 Floods
Finding Resilience In A Hurry
Boulder County 2013 Floods

Over 17 inches of rain over a 8-day period

Over 9 inches of rain on Thursday, September 12
YEAR-TO-DATE RAINFALL TOTALS

Boulder

- Wettest:
  - Sept. 10th

- Driest:
  - Sept. 15th

- This Year:
  - Sept. 15th

Source: RCC-ACIS.org - Applied Climate Information Systems
Boulder Station USC00050848

CLIMATE CENTRAL

Prezi
150 Miles of Road Damaged
1,002 People Evacuated by Air
33 Commercial Properties Damaged
557 Homes Damaged
You've never seen hazards like this before. The road's impossible and covered by landslides and rockslides, there are hazardous materials, there might be bodies, and there are lions and bears.

What can we do?

Help get this road open in 2 months.
Damage Assessment
Fast-Track Engineering Assessments

- Quick contacts to engineers on duty and field observations
- Determine if pre-flood conditions can be restored
- Final site design options and replacement

Prezi
ID culvert locations from previous as-buils and field observations

Determine if pre-flood culverts can be replaced

If not, what are the options for replacement?
Emergency Repairs

Public Assistance
PROFILE "WINTER ROAD" - (PATCH AREAS)

NOT TO SCALE

E  TYPICAL CONFIGURATION OF A "ROCKERY"

NOT TO SCALE

NOTES:

1) LOCATION ON FOURMILE CANYON DRIVE PROJECT IS APPROXIMATELY FROM STATION 244+00 TO 245+30.


3) ROCKS SHOULD BE PLACED IN FAIRLY UNIFORM LIFTS, AND INFILLED WITH GRANULAR MATERIAL SUCH AS ROAD BASE AGGREGATE. THE INFILLING SHOULD BE AS COMPLETE AS POSSIBLE.
Mitigation Assistance
Damage/Risk Assessments

5 Public Meetings, 650 Residents
1,000 Data Points
90 Miles of Streams
5 Public Meetings, 650 Residents
3,000 Data Points
90 Miles of Stream
High Hazard Planning & Project Implementation
BOULDER COUNTY TRYING TO REMOVE FLOOD DEBRIS
CREWS NEED ACCESS PERMISSION FROM 300 HOMEOWNERS
Emergency Services

Staffing Support
  • Permitting
  • Flood Recovery Center

Capacity Analysis
  • Reduced Conveyance Areas
  • Reservoir Release Planning

Landslide Potential
St. Vrain Coalition

- Colorado Water Conservation Board (CWCB)
- Colorado Department of Transportation (CDOT)
- Boulder County
- Town of Lyons
- City of Longmont
- St. Vrain and Left Hand Water Conservation District (SVLHWCD)
- USDA Forest Service
- Natural Resource Conservation Service (NRCS)
Rebuilding Boulder

Making a Community Whole Again After a Disaster
STREAMCREST NEIGHBORHOOD

FLOOD EVENT
EROSION AND DEPOSITION

Flood Event Deposition
Feet
High : 20
Low : 1

Flood Event Erosion
Feet
High : -1
Low : -14

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