

# Douglas County, CO

Risk-assessment baseline packet

County FIPS: 08035    Release: 2026-10    Data as of: 2026-09-30    Storm Events data through: 2026-06-30

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## Summary

Plan status as of 2026-09-30: Approved, expires 2026-12-09. Plan: Douglas County, CO Hazard Mitigation Plan 2021 (FEMA plan 107633), approved 2021-12-10. Since the plan was approved on 2021-12-10: 1 new hazard declaration (1 incident): DR-4731-CO (Severe Storms, Flooding, and Tornadoes). NOAA Storm Events records since that date: 196 records (data through 2026-06-30). Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$43,699,350 a year), Wildfire (\$25,736,383) and Tornado (\$14,491,426). Repetitive-loss flood properties now: FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 0. The tables that follow are organized by the items of FEMA's Local Mitigation Plan Review Tool, Element B (B1-a to B2-c); each heading says which item its tables support.

## TERMS USED

**EAL:** expected annual loss: FEMA's modeled average yearly loss from a hazard.  
**NRI:** FEMA's National Risk Index (version 1.20, December 2025).  
**NFIP:** National Flood Insurance Program.  
**RL, SRL:** repetitive loss and severe repetitive loss: flood-insured properties with repeated claims (definitions in B2-c).  
**FMA, HMGP:** Flood Mitigation Assistance and Hazard Mitigation Grant Program, FEMA mitigation grants.  
**PA:** FEMA Public Assistance: disaster aid to governments and some nonprofits.  
**Zone-level:** NOAA logged the event for a National Weather Service forecast zone, which may include parts of neighboring counties.  
**County-coded:** NOAA logged the event to this county.  
**FIPS:** the federal code for a place; 08035 is this area.  
**D0 to D4:** U.S. Drought Monitor categories, from abnormally dry (D0) to exceptional drought (D4).  
**F/EF, EFU:** Fujita and Enhanced Fujita tornado ratings; EFU is an unrated tornado.  
**kt, CONUS:** knots (1 kt is about 1.15 mph); the contiguous United States.  
**CFR:** Code of Federal Regulations.  
**A4-a, E1-a:** other items of FEMA's Local Mitigation Plan Review Tool (sources, and changes since the last plan).  
**Dollars:** nominal (as reported, labeled with the year), not adjusted for inflation.

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## Plan clock

|                         |                                      |                        |                                                                   |
|-------------------------|--------------------------------------|------------------------|-------------------------------------------------------------------|
| <b>Status:</b>          | Approved, expires 2026-12-09         | <b>Plan:</b>           | Douglas County, CO Hazard Mitigation Plan 2021 (FEMA plan 107633) |
| <b>Approved:</b>        | 2021-12-10                           | <b>Days to expiry:</b> | 70                                                                |
| <b>Update underway:</b> | none recorded in FEMA's plan tracker |                        |                                                                   |

### What changed since your last plan (approved 2021-12-10)

|                                  |                                                                                            |                                             |                                       |
|----------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------|
| <b>New federal declarations:</b> | 1 new hazard declaration (1 incident): DR-4731-CO (Severe Storms, Flooding, and Tornadoes) | <b>Storm Events records since approval:</b> | 196 records (data through 2026-06-30) |
| <b>Repetitive loss now:</b>      | FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 0                                           | <b>Repeat-flood change:</b>                 | this release sets the baseline count. |

Sources: 1, 2, 4, 6 (numbered list at the end)

### Plan status for every jurisdiction listed in this county

Source: 1

| Jurisdiction                              | Type                  | Status                       | Plan                                                              | Approved   | Expires    | Days to expiry<br><i>negative = days since expiry</i> |
|-------------------------------------------|-----------------------|------------------------------|-------------------------------------------------------------------|------------|------------|-------------------------------------------------------|
| Douglas County                            | County                | Approved, expires 2026-12-09 | Douglas County, CO Hazard Mitigation Plan 2021 (FEMA plan 107633) | 2021-12-10 | 2026-12-09 | 70                                                    |
| Castle Pines city                         | City                  | Approved, expires 2026-12-09 | Douglas County, CO Hazard Mitigation Plan 2021 (FEMA plan 107633) | 2021-12-10 | 2026-12-09 | 70                                                    |
| Castle Rock town                          | Town                  | Approved, expires 2026-12-09 | Douglas County, CO Hazard Mitigation Plan 2021 (FEMA plan 107633) | 2021-12-10 | 2026-12-09 | 70                                                    |
| Larkspur town                             | Town                  | Approved, expires 2026-12-09 | Douglas County, CO Hazard Mitigation Plan 2021 (FEMA plan 107633) | 2021-12-10 | 2026-12-09 | 70                                                    |
| Lone Tree city                            | City                  | Approved, expires 2026-12-09 | Douglas County, CO Hazard Mitigation Plan 2021 (FEMA plan 107633) | 2021-12-10 | 2026-12-09 | 70                                                    |
| Parker town                               | Town                  | Approved, expires 2026-12-09 | Douglas County, CO Hazard Mitigation Plan 2021 (FEMA plan 107633) | 2021-12-10 | 2026-12-09 | 70                                                    |
| Centennial Water and Sanitation District  | Water/Sewer Authority | Approved, expires 2026-12-09 | Douglas County, CO Hazard Mitigation Plan 2021 (FEMA plan 107633) | 2021-12-10 | 2026-12-09 | 70                                                    |
| Denver Water                              | Water/Sewer Authority | Approved, expires 2026-12-09 | Douglas County, CO Hazard Mitigation Plan 2021 (FEMA plan 107633) | 2021-12-10 | 2026-12-09 | 70                                                    |
| Other (South Metro Fire Rescue Authority) | Fire/EMS District     | Expired on 2017-11-30        | South Metro Fire Rescue Authority (FEMA plan 32298)               | 2012-11-30 | 2017-11-30 | -3,226                                                |
| Parker Water and Sanitation District      | Water/Sewer Authority | Approved, expires 2026-12-09 | Douglas County, CO Hazard Mitigation Plan 2021 (FEMA plan 107633) | 2021-12-10 | 2026-12-09 | 70                                                    |

State plan status and tribal plans in this state: see the state page.

## Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

- dam failure (incl. upstream dams)
- levee failure
- flash flood as its own subtype
- ice jams
- debris flows
- erosion (riverine and coastal)
- land subsidence and sinkholes
- expansive soils

### The 18 National Risk Index hazards, ranked by expected annual loss (EAL)

Sources: 5, 6

| Rank by EAL | Hazard          | NRI risk rating     | EAL rating          | EAL buildings modeled dollars per year | EAL agriculture modeled dollars per year | Cost of expected deaths and injuries FEMA's dollar value per year, not property damage | EAL total (see note) modeled dollars per year | Storm Events records, 1996 to 2026-06-30 count | Why this hazard can be left out NRI Not Applicable, no declaration and no Storm Events record since 1996 | Storm Events coverage note                                                                                                          |
|-------------|-----------------|---------------------|---------------------|----------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 1           | Inland Flooding | Relatively Moderate | Relatively Moderate | \$43,592,893                           | \$17,385                                 | \$89,072                                                                               | \$43,699,350                                  | 46                                             |                                                                                                          |                                                                                                                                     |
| 2           | Wildfire        | Relatively High     | Relatively High     | \$24,553,865                           | \$371                                    | \$1,182,147                                                                            | \$25,736,383                                  | 6                                              |                                                                                                          |                                                                                                                                     |
| 3           | Tornado         | Relatively High     | Relatively High     | \$10,043,736                           | \$2,564                                  | \$4,445,126                                                                            | \$14,491,426                                  | 18                                             |                                                                                                          |                                                                                                                                     |
| 4           | Hail            | Relatively High     | Relatively High     | \$11,946,659                           | \$101,472                                | \$840,163                                                                              | \$12,888,294                                  | 365                                            |                                                                                                          |                                                                                                                                     |
| 5           | Lightning       | Very High           | Very High           | \$180,832                              | n/a                                      | \$7,364,959                                                                            | \$7,545,791                                   | 26                                             |                                                                                                          |                                                                                                                                     |
| 6           | Strong Wind     | Relatively High     | Relatively High     | \$1,343,978                            | \$964                                    | \$2,374,336                                                                            | \$3,719,277                                   | 244                                            |                                                                                                          | Includes 186 High Wind and 11 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).         |
| 7           | Cold Wave       | Relatively Low      | Relatively Moderate | \$2,435                                | \$16,855                                 | \$2,431,789                                                                            | \$2,451,079                                   | 8                                              |                                                                                                          | Includes 1 Frost/Freeze record (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor). |
| 8           | Winter Weather  | Very High           | Very High           | \$431,482                              | under \$1                                | \$912,132                                                                              | \$1,343,614                                   | 369                                            |                                                                                                          |                                                                                                                                     |
| 9           | Earthquake      | Relatively Low      | Relatively Low      | \$728,541                              | n/a                                      | \$50,874                                                                               | \$779,414                                     |                                                |                                                                                                          | Storm Events does not record earthquakes.                                                                                           |

| Rank<br>by<br>EAL | Hazard               | NRI risk<br>rating | EAL rating        | EAL<br>buildings<br><i>modeled<br/>dollars per year</i> | EAL<br>agriculture<br><i>modeled<br/>dollars per<br/>year</i> | Cost of<br>expected<br>deaths and<br>injuries<br><i>FEMA's dollar<br/>value per year, not<br/>property damage</i> | EAL total<br>(see note)<br><i>modeled<br/>dollars per year</i> | Storm Events<br>records, 1996 to<br>2026-06-30<br><i>count</i> | Why this hazard can be left out<br><i>NRI Not Applicable, no declaration and no<br/>Storm Events record since 1996</i>                                                                                | Storm Events coverage note                                                     |
|-------------------|----------------------|--------------------|-------------------|---------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 10                | Heat Wave            | Relatively<br>Low  | Relatively<br>Low | \$167                                                   | \$195                                                         | \$701,945                                                                                                         | \$702,307                                                      | 5                                                              |                                                                                                                                                                                                       |                                                                                |
| 11                | Ice Storm            | Relatively<br>Low  | Relatively<br>Low | \$65,921                                                | n/a                                                           | \$24,403                                                                                                          | \$90,325                                                       | 0                                                              |                                                                                                                                                                                                       | No recorded events in Storm<br>Events since 1996 (data through<br>2026-06-30). |
| 12                | Drought              | Relatively<br>Low  | Relatively<br>Low | n/a                                                     | \$57,457                                                      | n/a                                                                                                               | \$57,457                                                       | 5                                                              |                                                                                                                                                                                                       |                                                                                |
| 13                | Landslide            | Relatively<br>Low  | Relatively<br>Low | \$18,463                                                | n/a                                                           | \$1,219                                                                                                           | \$19,682                                                       | 0                                                              |                                                                                                                                                                                                       | No recorded events in Storm<br>Events since 1996 (data through<br>2026-06-30). |
| 14                | Volcanic<br>Activity | Very Low           | Very Low          | under \$1                                               | n/a                                                           | \$85                                                                                                              | \$85                                                           | 0                                                              |                                                                                                                                                                                                       | No recorded events in Storm<br>Events since 1996 (data through<br>2026-06-30). |
| 15                | Avalanche            | Very Low           | Very Low          | under \$1                                               | n/a                                                           | \$11                                                                                                              | \$11                                                           | 1                                                              |                                                                                                                                                                                                       |                                                                                |
|                   | Hurricane            | Not<br>Applicable  | Not<br>Applicable |                                                         |                                                               |                                                                                                                   |                                                                | 0                                                              | NRI rates hurricane Not Applicable for<br>this county, and no counted federal<br>declaration for this county names it<br>(EM-3224-CO names it but is not counted<br>as a local occurrence; see B1-d). | No recorded events in Storm<br>Events since 1996 (data through<br>2026-06-30). |

Total = buildings + agriculture + population equivalence; FEMA values each expected death (or 10 injuries) at \$13.7 million (2024 dollars).

NRI risk rating combines expected annual loss with social vulnerability and community resilience; EAL rating rates expected annual loss alone. Both compare this county with all U.S. counties.

Local data needed: state and local landslide and volcanic activity records (Storm Events records these hazards only in part).

*Not applicable to this county per NRI, with no federal declaration and no Storm Events record since 1996: coastal flooding and tsunamis. That is the evidence for leaving them out of the plan.*

The state hazard mitigation plan also lists hazards for this county; FEMA asks the plan to explain any hazard it leaves out.

## Supports FEMA checklist item B1-b: hazard location

Affects the whole county (national data give no location within it): Cold Wave, Drought, Hail, Heat Wave, Ice Storm, Lightning, Strong Wind and Winter Weather.

Inland Flooding: The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center (<https://msc.fema.gov>) for this county.

### Hazards that vary within the county: highest-rated census tracts

Source: 5

| Hazard            | Highest-rated census tracts<br><i>NRI risk rating, score 0 to 100</i>                                                |
|-------------------|----------------------------------------------------------------------------------------------------------------------|
| Avalanche         | tract 143 (Very Low, 5.6); tract 144.04 (Very Low, 4.7); tract 142.06 (Very Low, 4.4)                                |
| Earthquake        | tract 141.31 (Relatively Low, 57.1); tract 140.14 (Relatively Low, 46.5); tract 141.16 (Relatively Low, 41.7)        |
| Hurricane         | no tract has a National Risk Index rating for this hazard                                                            |
| Landslide         | tract 143 (Relatively Moderate, 98.1); tract 144.04 (Relatively Moderate, 97.3); tract 142.03 (Relatively Low, 87.3) |
| Tornado           | tract 141.31 (Relatively High, 89.5); tract 140.13 (Relatively High, 84.0); tract 140.08 (Relatively High, 83.9)     |
| Volcanic Activity | tract 144.10 (Very Low, 75.4); tract 140.08 (Very Low, 74.6); tract 140.13 (Very Low, 73.9)                          |
| Wildfire          | tract 144.04 (Very High, 99.7); tract 145.06 (Very High, 99.4); tract 144.07 (Very High, 99.4)                       |

Up to 3 census tracts per hazard, highest National Risk Index rating first, then highest score; a tract number is the Census tract number (for example 143 is Census Tract 143). FEMA's Resilience Analysis and Planning Tool maps the National Risk Index for every tract: <https://www.fema.gov/emergency-managers/practitioners/resilience-analysis-and-planning-tool>

## Supports FEMA checklist item B1-c: hazard extent

### Extent: scale, observed range and worst recorded event per hazard

Sources: 6, 7

| Hazard                                            | Scale                        | Records<br><i>count and years</i>         | Observed range                                           | Worst recorded event                                                               | Most damaging<br>(when different) | How it applies to jurisdictions  | Note                                                            |
|---------------------------------------------------|------------------------------|-------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------|----------------------------------|-----------------------------------------------------------------|
| Avalanche                                         | none (count and damage only) | 1 record, 2015<br>(1 zone-level)          |                                                          | No damage reported in 1 record.                                                    |                                   | Countywide (zone-level records). | Physical measure: in event narratives only (local data needed). |
| Cold/Wind Chill, Extreme Cold/Wind Chill          | wind chill                   | 7 records, 1996 to 2025<br>(7 zone-level) | 1 day to 7 days (median 3 days); 7 with a recorded value | 7 consecutive days, 1998-12-18 to 1998-12-24, 3 direct deaths, zone-level          |                                   | Countywide (zone-level records). | Wind chill: in event narratives only (local data needed).       |
| Frost/Freeze (outside NRI's Cold Wave definition) | crop damage                  | 1 record, 2014<br>(1 zone-level)          |                                                          | Frost/Freeze, 2014-11-10, \$10,000,000 crop damage (2014 dollars); NWS zone COZ040 |                                   | Countywide (zone-level records). | Temperature: in event narratives only (local data needed).      |

| Hazard                                         | Scale                                     | Records<br><i>count and years</i>       | Observed range                                                 | Worst recorded event                                                                                          | Most damaging<br>(when different)                                         | How it applies to jurisdictions                                                                                                                                            | Note                                                                                                                                                                                                          |
|------------------------------------------------|-------------------------------------------|-----------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Drought                                        | U.S. Drought Monitor scale (D0 to D4)     | 5 records, 2002 to 2021 (5 zone-level)  | 22 days to 61 days (median 30.5 days); 4 with a recorded value | 61 days (2 months), 2021-11-01 to 2021-12-31, a run of 2 consecutive Storm Events drought records, zone-level |                                                                           | Countywide (zone-level records).                                                                                                                                           | Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.                                          |
| Earthquake                                     | Modified Mercalli (local data)            | 0                                       |                                                                |                                                                                                               |                                                                           |                                                                                                                                                                            | Storm Events does not record earthquakes; the USGS earthquake catalog is the source.                                                                                                                          |
| Hail                                           | hail size (inches)                        | 435 records, 1961 to 2026               | 0.75 in to 3 in (median 1 in); 435 with a recorded value       | 3 in hail, 2004-08-10; same size also recorded on 2002-07-10                                                  | Hail, 1999-06-11, \$3,000,000 property; crops not reported (1999 dollars) | Event records naming jurisdictions in the plan: Parker town (103 records), Castle Rock town (68 records), Larkspur town (23 records).                                      |                                                                                                                                                                                                               |
| Excessive Heat, Heat                           | heat index (in event narratives)          | 5 records, 2000 to 2012 (5 zone-level)  | 2 days to 30 days (median 17 days); 3 with a recorded value    | June 2012 (1 monthly summary record), zone-level                                                              |                                                                           | Countywide (zone-level records).                                                                                                                                           | Heat index: in event narratives only (local data needed).                                                                                                                                                     |
| Hurricane, Tropical Storm, Tropical Depression | Saffir-Simpson                            | 0                                       |                                                                |                                                                                                               |                                                                           |                                                                                                                                                                            | Storm Events files every zone of a storm's episode under the storm's type; flooding from the storm is filed as Flood or Flash Flood records.                                                                  |
| Ice Storm                                      | Sperry-Piltz ice scale (local data)       | 0                                       |                                                                |                                                                                                               |                                                                           |                                                                                                                                                                            | Ice thickness: in event narratives only (local data needed).                                                                                                                                                  |
| Flash Flood, Flood, Lakeshore Flood            | damage and flood days (flood depth: FIRM) | 46 records, 1998 to 2024 (1 zone-level) |                                                                | Flash Flood, 2006-07-07, \$13,300,000 property; crops not reported (2006 dollars)                             |                                                                           | Event records naming jurisdictions in the plan: Parker town (4 records), Castle Rock town (3 records), Larkspur town (2 records). Zone-level records (1) apply countywide. | Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most. |
| Debris Flow                                    | none (count and damage only)              | 0                                       |                                                                |                                                                                                               |                                                                           |                                                                                                                                                                            | Physical measure: in event narratives only (local data needed).                                                                                                                                               |

| Hazard                                                           | Scale                                                                              | Records<br><i>count and years</i>          | Observed range                                                                        | Worst recorded event                                                                                                                                 | Most damaging<br>(when different)                                                                      | How it applies to jurisdictions                                                                                                    | Note                                                                                                                                                                                                                 |
|------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lightning                                                        | annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names) | 26 records, 1996 to 2019                   |                                                                                       | Lightning, 2017-05-07, \$5,000 property; crops not reported (2017 dollars), 1 direct death, 1 direct injury                                          | Lightning, 2000-08-22, \$2,000,000 property; \$0 crops (2000 dollars)                                  | Event records naming jurisdictions in the plan: Castle Rock town (12 records), Parker town (5 records).                            | Storm Events lists lightning with damage or casualties; physical measure in event narratives only (local data needed).                                                                                               |
| High Wind and Strong Wind (outside NRI's Strong Wind definition) | wind speed (kt and mph)                                                            | 197 records, 1996 to 2026 (197 zone-level) | 30 kt (35 mph) to 110 kt (127 mph) (median 70 kt (81 mph)); 193 with a recorded value | 110 kt (127 mph), measurement type not recorded, High Wind, 1999-02-02; NWS zone COZ036                                                              | High Wind, 1999-04-09, \$13,800,000 property; crops not reported, reported for the zone (1999 dollars) | Countywide (zone-level records).                                                                                                   |                                                                                                                                                                                                                      |
| Thunderstorm Wind                                                | wind speed (kt and mph)                                                            | 56 records, 1981 to 2026                   | 50 kt (58 mph) to 100 kt (115 mph) (median 54 kt (62 mph)); 50 with a recorded value  | 100 kt (115 mph), measurement type not recorded, Thunderstorm Wind, 1981-08-09                                                                       | Thunderstorm Wind, 2004-07-31, \$15,000 property; crops not reported (2004 dollars)                    | Event records naming jurisdictions in the plan: Parker town (18 records), Castle Rock town (8 records), Larkspur town (3 records). |                                                                                                                                                                                                                      |
| Tornado                                                          | Enhanced Fujita (Fujita before Feb 2007)                                           | 63 records, 1953 to 2025                   | F/EF0 to F/EF2 (median F/EF0); 63 with a recorded value                               | F2 tornado, 1961-05-20, 2 mi path length (whole path, pre-1996), 67 yd wide, \$25,000 property; crops not recorded (1961 dollars), 2 direct injuries | Tornado, 1990-07-11, \$250,000 property; crops not recorded (1990 dollars)                             | Event records naming jurisdictions in the plan: Parker town (5 records), Castle Rock town (4 records).                             | Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods). |
| Volcanic Ash, Volcanic Ashfall                                   | Volcanic Explosivity Index (local data)                                            | 0                                          |                                                                                       |                                                                                                                                                      |                                                                                                        |                                                                                                                                    | Physical measure: in event narratives only (local data needed).                                                                                                                                                      |

| Hazard                                                                                      | Scale                                     | Records<br><i>count and years</i>                    | Observed range | Worst recorded event                                                                                                                                      | Most damaging<br>(when different) | How it applies to jurisdictions  | Note                                                              |
|---------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------|-------------------------------------------------------------------|
| Wildfire                                                                                    | acres burned<br>(local data)              | 6 records,<br>2012 to 2026<br>(6 zone-level)         |                | Wildfire, 2012-03-26,<br>\$11,000,000 property;<br>crops not reported (2012<br>dollars), 3 direct deaths<br>(reported for the zone);<br>NWS zone COZ036   |                                   | Countywide (zone-level records). | Acres burned: in event<br>narratives only (local<br>data needed). |
| Winter Storm,<br>Heavy Snow,<br>Blizzard, Lake-<br>Effect Snow,<br>Winter<br>Weather, Sleet | none in data<br>(snowfall: local<br>data) | 369 records,<br>1996 to 2026<br>(369 zone-<br>level) |                | Blizzard, 2003-03-17,<br>\$15,500,000 property;<br>crops not reported (2003<br>dollars), 2 direct injuries<br>(reported for the zone);<br>NWS zone COZ040 |                                   | Countywide (zone-level records). | Snow depth: in event<br>narratives only (local<br>data needed).   |

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records whose zone no NWS zone-county file places in this county (mostly before 2020) are not counted here (the Methods page explains the zone matching).

Dollars are nominal (as reported), labeled with the year; not adjusted for inflation.

A monthly summary record covers most or all of a month; it does not count days at wave conditions.

## Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 13 declarations covering 9 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

### Federal disaster declarations for this county

Sources: 1, 2, 3

| Declared   | Incident<br>began | FEMA<br>number | Type               | Title                                        | Mapped hazard                                                           | County Public Assistance<br><i>federal share obligated, nominal<br/>dollars</i> | Flags                                       | Notes                       |
|------------|-------------------|----------------|--------------------|----------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------|-----------------------------|
| 2023-08-25 | 2023-06-08        | DR-4731-CO     | Major disaster     | Severe Storms, Flooding,<br>and Tornadoes    | Inland Flooding (primary); also<br>designated: Tornado                  | \$3,423,611.69                                                                  | new since last plan;<br>within last 5 years |                             |
| 2020-03-28 | 2020-01-20        | DR-4498-CO     | Major disaster     | COVID-19 Pandemic                            | Non-natural, not counted                                                | \$1,915,365.21                                                                  |                                             |                             |
| 2020-03-13 | 2020-01-20        | EM-3436-CO     | Emergency          | COVID-19                                     | Non-natural, not counted                                                | no Public Assistance recorded                                                   |                                             | same incident as<br>DR-4498 |
| 2007-01-07 | 2006-12-18        | EM-3270-CO     | Emergency          | Snow                                         | Winter Weather                                                          | \$642,672.92                                                                    |                                             |                             |
| 2005-09-05 | 2005-08-29        | EM-3224-CO     | Emergency          | Hurricane Katrina<br>Evacuation              | Hurricane: evacuation support, not a<br>local hazard event; not counted | no Public Assistance recorded                                                   |                                             |                             |
| 2003-10-29 | 2003-10-29        | FM-2510-CO     | Fire<br>management | Co - Cherokee Ranch<br>Wildfire - 10/29/2003 | Wildfire                                                                | no Public Assistance recorded                                                   |                                             |                             |
| 2003-04-09 | 2003-03-17        | EM-3185-CO     | Emergency          | Snow                                         | Winter Weather                                                          | \$408,600.70                                                                    |                                             |                             |
| 2002-06-19 | 2002-04-23        | DR-1421-CO     | Major disaster     | Wildfires                                    | Wildfire                                                                | PA not declared for this county                                                 |                                             |                             |
| 2002-05-23 | 2002-05-21        | FM-2407-CO     | Fire<br>management | Co - Schoonover Fire -<br>05/23/02           | Wildfire                                                                | no Public Assistance recorded                                                   |                                             | same incident as<br>DR-1421 |
| 1977-01-29 | 1977-01-29        | EM-3025-CO     | Emergency          | Drought                                      | Drought                                                                 | no Public Assistance recorded                                                   |                                             |                             |

| Declared   | Incident began | FEMA number | Type           | Title                               | Mapped hazard                                       | County Public Assistance                        | Flags | Notes |
|------------|----------------|-------------|----------------|-------------------------------------|-----------------------------------------------------|-------------------------------------------------|-------|-------|
|            |                |             |                |                                     |                                                     | <i>federal share obligated, nominal dollars</i> |       |       |
| 1973-05-23 | 1973-05-23     | DR-385-CO   | Major disaster | Heavy Rains, Snowmelt and Flooding  | Inland Flooding                                     | no Public Assistance recorded                   |       |       |
| 1969-05-19 | 1969-05-19     | DR-261-CO   | Major disaster | Severe Storms & Flooding            | Inland Flooding                                     | no Public Assistance recorded                   |       |       |
| 1965-06-19 | 1965-06-19     | DR-200-CO   | Major disaster | Tornadoes, Severe Storms & Flooding | Tornado (primary); also designated: Inland Flooding | no Public Assistance recorded                   |       |       |

County Public Assistance: applicants the FEMA record places in this county, including any state agencies FEMA files there; statewide rows are listed on the state page; federal share obligated, nominal dollars.

Statewide declarations

Source: 2

| Declared   | Incident began | FEMA number | Type           | Title | Mapped hazard   |
|------------|----------------|-------------|----------------|-------|-----------------|
| 1956-06-12 | 1956-06-12     | DR-59-CO    | Major disaster | Flood | Inland Flooding |
| 1955-05-25 | 1955-05-25     | DR-33-CO    | Major disaster | Flood | Inland Flooding |

FEMA recorded these with designated area Statewide and no county, so they are listed on every county page in the state and not counted with county rows. Local data needed: whether each one affected this county.

10 Fire Management declarations (1978-09-12 to 2016-07-10) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

Public Assistance filed under this county for declarations that do not list it: 1 row, \$443,299.71

Sources: 2, 3

| FEMA number | Declared   | Title                                                         | Applicant                   | PA obligated                                    |
|-------------|------------|---------------------------------------------------------------|-----------------------------|-------------------------------------------------|
|             |            |                                                               |                             | <i>federal share obligated, nominal dollars</i> |
| DR-4229-CO  | 2015-07-16 | Severe Storms, Tornadoes, Flooding, Landslides, and Mudslides | KIOWA CONSERVATION DISTRICT | \$443,299.71                                    |

FEMA's Public Assistance summaries file these applicants under this county, but FEMA's declaration rows for these disasters do not designate it (an electric cooperative or district serving several counties, for example). Not in any declaration row above and not counted.

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

| Hazard     | Storm Events records, all years on file<br><i>(years in the Period column)</i> | Since plan approval<br><i>records</i> | In the 12 months before plan approval<br><i>records</i> | Last 5 years<br><i>records</i> | Declared incidents, all years<br><i>separate disasters</i> | Declared since approval<br><i>separate disasters</i> | Period             | Statement                                                                            |
|------------|--------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------|--------------------------------|------------------------------------------------------------|------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------|
| Avalanche  | 1                                                                              | 0                                     | 0                                                       | 0                              | 0                                                          | 0                                                    | 1996 to 2026-06-30 |                                                                                      |
| Cold Wave  | 8                                                                              | 4                                     | 0                                                       | 4                              | 0                                                          | 0                                                    | 1996 to 2026-06-30 | Includes 1 Frost/Freeze record.                                                      |
| Drought    | 5                                                                              | 0                                     | 2                                                       | 2                              | 1                                                          | 0                                                    | 1996 to 2026-06-30 |                                                                                      |
| Earthquake | 0                                                                              | 0                                     | 0                                                       | 0                              | 0                                                          | 0                                                    |                    | Storm Events does not record earthquakes; the USGS earthquake catalog is the source. |
| Hail       | 435                                                                            | 59                                    | 18                                                      | 59                             | 0                                                          | 0                                                    | 1955 to 2026-06-30 |                                                                                      |

| <b>Hazard</b>        | <b>Storm Events records,<br/>all years on file</b><br><i>(years in the Period column)</i> | <b>Since plan<br/>approval</b><br><i>records</i> | <b>In the 12 months before<br/>plan approval</b><br><i>records</i> | <b>Last 5<br/>years</b><br><i>records</i> | <b>Declared incidents,<br/>all years</b><br><i>separate disasters</i> | <b>Declared since<br/>approval</b><br><i>separate disasters</i> | <b>Period</b>         | <b>Statement</b>                                                  |
|----------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------|-------------------------------------------------------------------|
| Heat Wave            | 5                                                                                         | 0                                                | 0                                                                  | 0                                         | 0                                                                     | 0                                                               | 1996 to<br>2026-06-30 |                                                                   |
| Hurricane            | 0                                                                                         | 0                                                | 0                                                                  | 0                                         | 0                                                                     | 0                                                               | 1996 to<br>2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA<br>NCEI Storm Events |
| Ice Storm            | 0                                                                                         | 0                                                | 0                                                                  | 0                                         | 0                                                                     | 0                                                               | 1996 to<br>2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA<br>NCEI Storm Events |
| Inland<br>Flooding   | 46                                                                                        | 2                                                | 0                                                                  | 2                                         | 4                                                                     | 1                                                               | 1996 to<br>2026-06-30 |                                                                   |
| Landslide            | 0                                                                                         | 0                                                | 0                                                                  | 0                                         | 0                                                                     | 0                                                               | 1996 to<br>2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA<br>NCEI Storm Events |
| Lightning            | 26                                                                                        | 0                                                | 0                                                                  | 0                                         | 0                                                                     | 0                                                               | 1996 to<br>2026-06-30 |                                                                   |
| Strong Wind          | 253                                                                                       | 47                                               | 5                                                                  | 48                                        | 0                                                                     | 0                                                               | 1955 to<br>2026-06-30 | Includes 186 High Wind and 11 Strong Wind<br>records.             |
| Tornado              | 63                                                                                        | 2                                                | 0                                                                  | 2                                         | 2                                                                     | 1                                                               | 1950 to<br>2026-06-30 |                                                                   |
| Volcanic<br>Activity | 0                                                                                         | 0                                                | 0                                                                  | 0                                         | 0                                                                     | 0                                                               | 1996 to<br>2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA<br>NCEI Storm Events |
| Wildfire             | 6                                                                                         | 4                                                | 0                                                                  | 4                                         | 2                                                                     | 0                                                               | 1996 to<br>2026-06-30 |                                                                   |
| Winter<br>Weather    | 369                                                                                       | 78                                               | 14                                                                 | 78                                        | 2                                                                     | 0                                                               | 1996 to<br>2026-06-30 |                                                                   |

## Notable Storm Events records

Sources: 1, 6, 7

| Date       | Event type        | Magnitude or extent                                     | Damage<br><i>nominal dollars</i>                                                | Deaths,<br>injuries<br><i>direct only</i> | Location                                                                                                                               | Why listed                                                                                       |
|------------|-------------------|---------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 2017-05-07 | Lightning         |                                                         | \$5,000 property; crops not reported (2017 dollars)                             | 1, 1                                      | SEDALIA                                                                                                                                | B1-c worst recorded: Lightning                                                                   |
| 2014-11-10 | Frost/Freeze      |                                                         | property not reported; \$10,000,000 crops, reported for the zone (2014 dollars) | 0, 0                                      | NWS zone COZ040 (N DOUGLAS COUNTY BELOW 6000 FEET / DENVER / W ADAMS & ARAPAHOE COUNTIES / E BROOMFIELD COUNTY), zone-level            | B1-c worst recorded: Frost/Freeze                                                                |
| 2012-06-01 | Heat              |                                                         | \$0 property; \$0 crops, reported for the zone (2012 dollars)                   | 0, 0                                      | NWS zone COZ040 (N DOUGLAS COUNTY BELOW 6000 FEET / DENVER / W ADAMS & ARAPAHOE COUNTIES / E BROOMFIELD COUNTY), zone-level            | B1-c worst recorded: Excessive Heat, Heat                                                        |
| 2012-03-26 | Wildfire          |                                                         | \$11,000,000 property; crops not reported, reported for the zone (2012 dollars) | 3, 0                                      | NWS zone COZ036 (JEFFERSON & W DOUGLAS COUNTIES ABOVE 6000 FEET / GILPIN / CLEAR CREEK / NE PARK COUNTIES BELOW 9000 FEET), zone-level | deaths or injuries recorded                                                                      |
| 2006-07-07 | Flash Flood       |                                                         | \$13,300,000 property; crops not reported (2006 dollars)                        | 0, 0                                      | SOUTHWEST PORTION                                                                                                                      | B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood                                         |
| 2004-08-10 | Hail              | 3 in                                                    | damage not reported                                                             | 0, 0                                      | CASTLE ROCK                                                                                                                            | B1-c worst recorded: Hail                                                                        |
| 2003-03-17 | Blizzard          |                                                         | \$15,500,000 property; crops not reported, reported for the zone (2003 dollars) | 0, 2                                      | NWS zone COZ040 (N DOUGLAS COUNTY BELOW 6000 FEET / DENVER / W ADAMS & ARAPAHOE COUNTIES / E BROOMFIELD COUNTY), zone-level            | B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet |
| 1999-02-02 | High Wind         | 110 kt (127 mph), measurement type not recorded         | \$3,000,000 property; crops not reported, reported for the zone (1999 dollars)  | 0, 0                                      | NWS zone COZ036 (SOUTHERN FRONT RANGE FOOTHILLS/ CLEAR CREEK BASIN), zone-level                                                        | B1-c worst recorded: High Wind and Strong Wind                                                   |
| 1998-12-18 | Cold/Wind Chill   |                                                         | property not reported; \$0 crops, reported for the zone (1998 dollars)          | 3, 15                                     | NWS zone COZ040 (DENVER METROPOLITAN AREA), zone-level                                                                                 | deaths or injuries recorded                                                                      |
| 1997-07-08 | Thunderstorm Wind | speed not recorded                                      | property not reported; \$0 crops (1997 dollars)                                 | 1, 2                                      | PARKER                                                                                                                                 | deaths or injuries recorded                                                                      |
| 1981-08-09 | Thunderstorm Wind | 100 kt (115 mph), measurement type not recorded         | damage not recorded (pre-1996 record)                                           | 0, 0                                      | location not recorded                                                                                                                  | B1-c worst recorded: Thunderstorm Wind                                                           |
| 1961-05-20 | Tornado           | F2, 2 mi path length (whole path, pre-1996), 67 yd wide | \$25,000 property; crops not recorded (1961 dollars)                            | 0, 2                                      | location not recorded                                                                                                                  | B1-c worst recorded: Tornado                                                                     |

The full list is in the Excel file, sheet "B1-d Storm Events history" (1,217 rows).

Location is the place NOAA recorded, as written in its data; it need not be a jurisdiction in this plan.

Local data needed: state-declared emergencies, from your state emergency management agency (federal data do not include them).

Tribal and special-area declarations in this state are listed on the state page.

## Supports FEMA checklist item B1-e: probability of future events

### Probability: FEMA annualized frequency and descriptor per hazard

Sources: 5, 6

| Hazard          | FEMA<br>annualized<br>frequency<br>(modeled)<br><i>unit per row</i> | Unit                             | In plain terms                                                                             | Descriptor                                  | Descriptor basis                                   | NRI events or days in its<br>record period (hail, wind and<br>tornado are area-weighted,<br>so can be fractional) | NRI period                                 | Location   | Note                                                                                                                                                                               |
|-----------------|---------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Avalanche       | 0.01                                                                | events per year                  | about 1 in 100 years                                                                       | Possible                                    | FEMA annualized frequency (modeled)                | 0                                                                                                                 | 1994 to 2023 (30 years)                    | see B1-f   | 0.01 is NRI's minimum avalanche frequency for a county in an avalanche susceptibility zone; NRI records no avalanche here, so the descriptor reflects the floor, not local events. |
| Cold Wave       | 0.952                                                               | event-days per year              | about 0.952 days per year                                                                  | Likely (from Storm Events: 7 of 30 years)   | event-days in 7 of 30 years, 1996 to 2025 (23.3%)  | 18.1                                                                                                              | 2005-11-12 to 2024-11-12 (19 years)        | countywide |                                                                                                                                                                                    |
| Drought         | 23.8                                                                | event-days per year              | about 23.8 days per year                                                                   | Likely (from Storm Events: 3 of 30 years)   | event-days in 3 of 30 years, 1996 to 2025 (10%)    | 770                                                                                                               | 2000 to 2025 (25.25 years; D3 and D4 only) | countywide |                                                                                                                                                                                    |
| Earthquake      | 0.000543                                                            | annual probability at a location | chance a given location in the county has at least minor-damage shaking in a year: 0.0543% |                                             |                                                    | not shown                                                                                                         | modeled                                    | see B1-f   | No descriptor (Storm Events does not record earthquakes).                                                                                                                          |
| Hail            | 7.46                                                                | events per year                  | about 7.46 per year                                                                        | Highly likely                               | FEMA annualized frequency (modeled)                | 283.5 (modeled)                                                                                                   | 1986 to 2023 (38 years)                    | countywide |                                                                                                                                                                                    |
| Heat Wave       | 0.24                                                                | event-days per year              | about 0.24 days per year                                                                   | Possible (from Storm Events: 2 of 30 years) | event-days in 2 of 30 years, 1996 to 2025 (6.67%)  | 3.02                                                                                                              | 2005-11-12 to 2024-11-12 (19 years)        | countywide |                                                                                                                                                                                    |
| Hurricane       |                                                                     | events per year                  |                                                                                            |                                             |                                                    |                                                                                                                   | 1851 to 2024 (Atlantic)                    | see B1-f   | Not Applicable in NRI for this county; no descriptor.                                                                                                                              |
| Ice Storm       | 0.0149                                                              | event-days per year              | about 0.0149 days per year                                                                 |                                             | event-days in 0 of 30 years, 1996 to 2025 (0%)     | 0                                                                                                                 | 1946-12-31 to 2014-02-12 (67 years)        | countywide | No Storm Events ice storm record, 1996 to 2025                                                                                                                                     |
| Inland Flooding | 1.36                                                                | event-days per year              | about 1.36 days per year                                                                   | Likely (from Storm Events: 16 of 30 years)  | event-days in 16 of 30 years, 1996 to 2025 (53.3%) | 38                                                                                                                | 1996 to 2023 (28 years)                    | see B1-f   |                                                                                                                                                                                    |
| Landslide       | 0.86                                                                | events per year (modeled)        | about 0.86 per year                                                                        | Likely                                      | FEMA annualized frequency (modeled)                | not shown                                                                                                         | modeled                                    | see B1-f   |                                                                                                                                                                                    |
| Lightning       | 58.6                                                                | days per year with a strike      | about 58.6 days per year                                                                   | Highly likely                               | FEMA annualized frequency (modeled)                | not shown                                                                                                         | 1995 to 2023 (29 years; CONUS)             | countywide |                                                                                                                                                                                    |

| Hazard               | FEMA<br>annualized<br>frequency<br>(modeled)<br><i>unit per row</i> | Unit                                   | In plain terms                                                         | Descriptor                                                 | Descriptor basis                                                   | NRI events or days in its<br>record period (hail, wind and<br>tornado are area-weighted,<br>so can be fractional) | NRI period                                      | Location   | Note                                      |
|----------------------|---------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------|-------------------------------------------|
| Strong<br>Wind       | 1.03                                                                | events per<br>year                     | about 1.03 per year                                                    | Highly likely                                              | FEMA annualized<br>frequency<br>(modeled)                          | 40                                                                                                                | 1986 to 2023<br>(38 years)                      | countywide |                                           |
| Tornado              | 0.752                                                               | events per<br>year                     | about 0.75 per year                                                    | Likely                                                     | FEMA annualized<br>frequency<br>(modeled)                          | not shown                                                                                                         | 1950 to 2023<br>(EF2+); 1986 to<br>2023 (EF0-1) | see B1-f   |                                           |
| Volcanic<br>Activity | 0.0001                                                              | annual<br>probability                  | about 1 in 10,000<br>years                                             | Unlikely                                                   | FEMA annualized<br>frequency<br>(modeled)                          | not shown                                                                                                         | modeled                                         | see B1-f   |                                           |
| Wildfire             | 0.00624                                                             | annual<br>probability at<br>a location | chance a given<br>location in the county<br>burns in a year:<br>0.624% | Likely (from<br>Storm Events: 3<br>of 30 years)            | Storm Events<br>records in 3 of 30<br>years, 1996 to<br>2025 (10%) | not shown                                                                                                         | modeled                                         | see B1-f   | Descriptor from Storm Events, not<br>NRI. |
| Winter<br>Weather    | 18                                                                  | event-days<br>per year                 | about 18 days per<br>year                                              | Highly likely<br>(from Storm<br>Events: 30 of 30<br>years) | event-days in 30<br>of 30 years, 1996<br>to 2025 (100%)            | 343                                                                                                               | 2005-11-12 to<br>2024-11-12 (19<br>years)       | countywide |                                           |

FEMA annualized frequency (modeled) is the National Risk Index v1.20 (December 2025) estimate of how often a hazard affects this county in a year; it is not recorded events divided by years, and its unit differs by hazard (events, event-days, or days with a lightning strike per year). For earthquake, wildfire, coastal flooding and tsunami the value is the chance (or number of events) at a location in the county, not across the county, so no "1 in N years" is given and the descriptor comes from Storm Events where it has a record (none for earthquake). The Methods page gives each hazard's method, from FEMA's National Risk Index Technical Documentation v1.20.

Where NRI gives event-days, the descriptor comes from the share of years with a Storm Events record; NRI's source records more events, so the two differ.

### Descriptor scale used in this packet (defined per unit)

Sources: 5, 6

| Unit                        | Descriptor    | Definition                                               |
|-----------------------------|---------------|----------------------------------------------------------|
| events per year             | Highly likely | 1 or more per year                                       |
| events per year             | Likely        | about once in 1 to 10 years                              |
| events per year             | Possible      | about once in 10 to 100 years                            |
| events per year             | Unlikely      | less than once in 100 years                              |
| annual probability          | Likely        | 10% to under 100% chance in a given year                 |
| annual probability          | Possible      | 1% to under 10% chance in a given year                   |
| annual probability          | Unlikely      | under 1% chance in a given year                          |
| event-days (share of years) | Highly likely | event-days recorded in 90% or more of years              |
| event-days (share of years) | Likely        | event-days recorded in 10% to under 90% of years         |
| event-days (share of years) | Possible      | event-days recorded in some years but under 10% of years |
| lightning strike-days       | Highly likely | cloud-to-ground strikes on 1 or more days per year       |

Intensity bands: historical frequency (Storm Events)

Source: 6

| Hazard                                         | Band                      | Years        | Events<br><i>county-coded records</i> | Years in period | Events per year<br><i>events / years</i> |
|------------------------------------------------|---------------------------|--------------|---------------------------------------|-----------------|------------------------------------------|
| Hail                                           | 1.00-1.99 in              | 1996 to 2025 | 244                                   | 30              | 8.13                                     |
| Hail                                           | 2.00 in+                  | 1996 to 2025 | 11                                    | 30              | 0.367                                    |
| Thunderstorm Wind (counted as NRI Strong Wind) | 50-64 kt                  | 1996 to 2025 | 42                                    | 30              | 1.4                                      |
| Thunderstorm Wind (counted as NRI Strong Wind) | 65 kt+                    | 1996 to 2025 | 3                                     | 30              | 0.1                                      |
| Thunderstorm Wind (counted as NRI Strong Wind) | unmeasured or below 50 kt | 1996 to 2025 | 1                                     | 30              | 0.0333                                   |
| Tornado                                        | EF0-1                     | 1996 to 2025 | 18                                    | 30              | 0.6                                      |
| Tornado                                        | EF2-3                     | 1996 to 2025 | 0                                     | 30              | 0                                        |
| Tornado                                        | EF4-5                     | 1996 to 2025 | 0                                     | 30              | 0                                        |
| Tornado                                        | unrated (EFU)             | 1996 to 2025 | 0                                     | 30              | 0                                        |

The bands show how often events of each severity were recorded in this county, to profile how severe events have been (FEMA's probability item asks for the range of intensities).

Hail smaller than 1 inch is not counted: on 2010-01-05 the National Weather Service raised its severe-hail threshold from 3/4 inch to 1 inch, so smaller reports became less common after 2009 (NWS Service Change Notice 09-52). NRI hail frequency uses a 0.75 inch threshold.

Optional: future conditions. Not a required item in the 2025 FEMA Local Mitigation Planning Policy Guide; some states ask for it. The federal Climate Mapping for Resilience and Adaptation (CMRA) site gives county exposure to future climate conditions (<https://resilience.climate.gov/>).

Supports FEMA checklist item B1-f: hazards that vary across jurisdictions

Range of census tract risk within the county

Source: 5

| Hazard          | Tracts<br><i>rated of all</i> | NRI risk score, 0 to 100 |        |      | Tracts by rating                                                          |
|-----------------|-------------------------------|--------------------------|--------|------|---------------------------------------------------------------------------|
|                 |                               | Min                      | Median | Max  |                                                                           |
| Avalanche       | 7 of 72                       | 3.5                      | 3.8    | 5.6  | Very Low 7, Not Applicable 65                                             |
| Cold Wave       | 72 of 72                      | 16.8                     | 33.1   | 55.8 | Relatively Moderate 4, Relatively Low 65, Very Low 3                      |
| Drought         | 12 of 72                      | 67.0                     | 81.6   | 90.1 | Relatively Low 8, Very Low 4, No Rating 60                                |
| Earthquake      | 72 of 72                      | 7.5                      | 22.2   | 57.1 | Relatively Low 3, Very Low 69                                             |
| Hail            | 72 of 72                      | 72.6                     | 92.0   | 98.3 | Very High 1, Relatively High 58, Relatively Moderate 13                   |
| Heat Wave       | 72 of 72                      | 1.3                      | 7.9    | 36.5 | Relatively Low 7, Very Low 65                                             |
| Hurricane       | 0 of 72                       |                          |        |      | Not Applicable 72                                                         |
| Ice Storm       | 72 of 72                      | 2.4                      | 10.0   | 29.4 | Very Low 72                                                               |
| Inland Flooding | 72 of 72                      | 1.4                      | 25.9   | 93.1 | Relatively High 3, Relatively Moderate 15, Relatively Low 32, Very Low 22 |
| Landslide       | 72 of 72                      | 13.0                     | 42.3   | 98.1 | Relatively Moderate 2, Relatively Low 7, Very Low 63                      |
| Lightning       | 72 of 72                      | 60.3                     | 96.0   | 99.6 | Very High 37, Relatively High 30, Relatively Moderate 5                   |

| Hazard            | Tracts<br><i>rated of all</i> | NRI risk score, 0 to 100 |        |      | Tracts by rating                                                                                    |
|-------------------|-------------------------------|--------------------------|--------|------|-----------------------------------------------------------------------------------------------------|
|                   |                               | Min                      | Median | Max  |                                                                                                     |
| Strong Wind       | 72 of 72                      | 28.5                     | 70.3   | 88.7 | Relatively High 5, Relatively Moderate 60, Relatively Low 7                                         |
| Tornado           | 72 of 72                      | 35.3                     | 64.0   | 89.5 | Relatively High 13, Relatively Moderate 53, Relatively Low 6                                        |
| Volcanic Activity | 72 of 72                      | 41.8                     | 55.8   | 75.4 | Very Low 72                                                                                         |
| Wildfire          | 71 of 72                      | 19.3                     | 92.5   | 99.7 | Very High 5, Relatively High 13, Relatively Moderate 28, Relatively Low 8, Very Low 17, No Rating 1 |
| Winter Weather    | 72 of 72                      | 54.9                     | 85.8   | 96.7 | Very High 2, Relatively High 52, Relatively Moderate 18                                             |

Drought: Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range mostly reflects where crop and livestock value is.

Rated tracts only: No Rating (score 0.0), Not Applicable and Insufficient Data tracts are counted but not used for the minimum, median and maximum.

The score ranks a tract against all U.S. tracts (100 = highest). The rating is FEMA's category for the tract's risk value, computed differently, so the two can disagree.

Frequency data for cold wave, drought, hail, heat wave, ice storm, lightning, strong wind and winter weather are county-wide or coarse (49 km grid or NWS zone), the same for every jurisdiction; the tract range mostly reflects where buildings and people are (crop and livestock value where a line above names agriculture).

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

| Jurisdiction      | Type   | Plan status                  | Repetitive loss                                                   | Public Assistance to this jurisdiction                                                  | Event records naming this place  |
|-------------------|--------|------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------|
|                   |        |                              | <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i> | <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i> | <i>all years; since its plan</i> |
| Douglas County    | County | Approved, expires 2026-12-09 | FMA RL 0, SRL 0; any 0                                            | no Public Assistance recorded                                                           | 0 total; 0 since its plan        |
| Castle Pines city | City   | Approved, expires 2026-12-09 | FMA RL 0, SRL 0; any 0                                            | no Public Assistance recorded                                                           | 0 total; 0 since its plan        |
| Castle Rock town  | Town   | Approved, expires 2026-12-09 | FMA RL 0, SRL 0; any 0                                            | \$131,513.34                                                                            | 95 total; 1 since its plan       |
| Larkspur town     | Town   | Approved, expires 2026-12-09 | FMA RL 0, SRL 0; any 0                                            | \$3,775.31                                                                              | 28 total; 1 since its plan       |
| Lone Tree city    | City   | Approved, expires 2026-12-09 | FMA RL 0, SRL 0; any 0                                            | \$69,329.23                                                                             | 0 total; 0 since its plan        |
| Parker town       | Town   | Approved, expires 2026-12-09 | FMA RL 0, SRL 0; any 0                                            | \$284,692.33                                                                            | 135 total; 20 since its plan     |

Repetitive-loss counts are for whole NFIP communities, which can extend beyond this county (see the note in B2-c).

School districts and special districts get a plan clock row only.

County Public Assistance in B1-d also includes applicants filed under the county that are not jurisdictions in this plan (for example state agencies, special districts and nonprofits), so the jurisdiction rows add up to less.

Supports FEMA checklist items B2-a and B2-b: vulnerability and potential impacts

Local data needed

The table below gives county-level starting figures; the plan describes impacts for each jurisdiction and its own assets.

- Critical facilities and lifelines per hazard
- A problem statement per jurisdiction per hazard
- Changes in development in hazard-prone areas since the last approval, or a statement of none (E1-a)

- Future assets

## County-level starter: exposure, expected annual loss and damage since the plan

Sources: 1, 2, 3, 5, 6, 7

| Hazard            | Building exposure<br><i>modeled dollars</i> | Agriculture exposure<br><i>modeled dollars</i> | Population exposed<br><i>people</i> | EAL buildings<br><i>modeled dollars per year</i> | EAL agriculture<br><i>modeled dollars per year</i> | Cost of expected deaths and injuries<br><i>FEMA's dollar value per year, not property damage</i> | EAL as % of exposure<br><i>buildings; agriculture where noted</i> | Storm Events damage since 2021-12-10<br><i>county-coded records, property plus crops, nominal dollars</i> | Zone-level damage since plan<br><i>property plus crops, reported for the zone</i> | Public Assistance since plan<br><i>nominal dollars; see note</i> | Note                                                                                                                                                                      |
|-------------------|---------------------------------------------|------------------------------------------------|-------------------------------------|--------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Avalanche         | \$1,316,391                                 | n/a                                            | under 1                             | under \$1                                        | n/a                                                | \$11                                                                                             | under 0.0001%                                                     |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                           |
| Cold Wave         | \$73,142,744,739                            | \$24,293,569                                   | 357,700                             | \$2,435                                          | \$16,855                                           | \$2,431,789                                                                                      | under 0.0001%                                                     |                                                                                                           | \$0                                                                               |                                                                  |                                                                                                                                                                           |
| Drought           | n/a                                         | \$13,040,784                                   | n/a                                 | n/a                                              | \$57,457                                           | n/a                                                                                              | 0.441% (agriculture)                                              |                                                                                                           |                                                                                   |                                                                  | NRI has no building exposure for this hazard; agriculture shown                                                                                                           |
| Earthquake        | \$118,131,317,005                           | n/a                                            | 357,978                             | \$728,541                                        | n/a                                                | \$50,874                                                                                         | 0.000617%                                                         |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                           |
| Hail              | \$73,142,744,739                            | \$24,293,569                                   | 357,700                             | \$11,946,659                                     | \$101,472                                          | \$840,163                                                                                        | 0.0163%                                                           | \$0                                                                                                       |                                                                                   |                                                                  |                                                                                                                                                                           |
| Heat Wave         | \$71,851,031,556                            | \$21,530,288                                   | 352,662                             | \$167                                            | \$195                                              | \$701,945                                                                                        | under 0.0001%                                                     |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                           |
| Hurricane         |                                             |                                                |                                     |                                                  |                                                    |                                                                                                  |                                                                   |                                                                                                           |                                                                                   |                                                                  | Not Applicable in NRI for this county                                                                                                                                     |
| Ice Storm         | \$73,142,744,739                            | n/a                                            | 357,700                             | \$65,921                                         | n/a                                                | \$24,403                                                                                         | under 0.0001%                                                     |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                           |
| Inland Flooding   | \$73,100,935,312                            | \$4,555,125                                    | 986                                 | \$43,592,893                                     | \$17,385                                           | \$89,072                                                                                         | n/a (see note)                                                    | \$55,000                                                                                                  |                                                                                   | \$3,423,611.69                                                   | NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b. |
| Landslide         | \$2,265,998,862                             | n/a                                            | 9,650                               | \$18,463                                         | n/a                                                | \$1,219                                                                                          | 0.000815%                                                         |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                           |
| Lightning         | \$73,142,744,739                            | n/a                                            | 357,700                             | \$180,832                                        | n/a                                                | \$7,364,959                                                                                      | 0.000247%                                                         |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                           |
| Strong Wind       | \$73,142,744,739                            | \$24,293,569                                   | 357,700                             | \$1,343,978                                      | \$964                                              | \$2,374,336                                                                                      | 0.00184%                                                          | \$0                                                                                                       | \$0                                                                               |                                                                  |                                                                                                                                                                           |
| Tornado           | \$73,142,744,739                            | \$24,293,569                                   | 357,700                             | \$10,043,736                                     | \$2,564                                            | \$4,445,126                                                                                      | 0.0137%                                                           | \$0                                                                                                       |                                                                                   | \$3,423,611.69                                                   |                                                                                                                                                                           |
| Volcanic Activity | \$73,142,744,739                            | n/a                                            | 357,700                             | under \$1                                        | n/a                                                | \$85                                                                                             | under 0.0001%                                                     |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                           |
| Wildfire          | \$16,760,000,983                            | \$21,680,360                                   | 108,878                             | \$24,553,865                                     | \$371                                              | \$1,182,147                                                                                      | 0.147%                                                            |                                                                                                           | \$0                                                                               |                                                                  |                                                                                                                                                                           |
| Winter Weather    | \$73,142,744,739                            | \$24,293,569                                   | 357,700                             | \$431,482                                        | under \$1                                          | \$912,132                                                                                        | 0.00059%                                                          |                                                                                                           | \$0                                                                               |                                                                  |                                                                                                                                                                           |

Totals since 2021-12-10 (Storm Events through 2026-06-30): 74 county-coded records, 9 with a damage value recorded (including \$0), \$55,000; 122 zone-level records, 56 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance: \$3,423,611.69 on 1 counted declaration.

FEMA does not split Public Assistance by hazard. A declaration mapped to several hazards is listed under each of them with its full amount, so the per-hazard column does not add up to the total; the unit total counts each declaration once.

NRI computes earthquake exposure on its own basis, so it exceeds the county building value in B2-a.

## Supports FEMA checklist item B2-a: vulnerability (county context)

### County context

Source: 5

| Measure                                                                                                                                                                       | Value               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Population                                                                                                                                                                    | 357,700             |
| Building value (total, not at risk)                                                                                                                                           | \$73,142,744,739    |
| Agriculture value (total, not at risk)                                                                                                                                        | \$24,293,569        |
| NRI risk rating (all hazards)                                                                                                                                                 | Relatively Moderate |
| Expected annual loss, buildings and agriculture, all hazards                                                                                                                  | \$93,106,236        |
| Expected annual loss, population equivalence, all hazards (NRI values each statistical life at \$13.7M; a modeled value of expected deaths and injuries, not property damage) | \$20,418,261        |
| Social vulnerability rating                                                                                                                                                   | Very Low            |
| Community resilience rating                                                                                                                                                   | Relatively High     |
| NRI version                                                                                                                                                                   | December 2025       |

FEMA's all-hazard expected annual loss adds buildings, agriculture and population equivalence; this table gives the property part and the population-equivalence part as separate rows.

Social vulnerability: higher means people are more likely to be harmed and slower to recover. Community resilience: lower means the community is less able to recover. High social vulnerability and low resilience both raise the NRI risk rating.

## Supports FEMA checklist item B2-c: repetitive loss properties

### Repetitive loss in this county, both definitions

Sources: 1, 4

| Definition                                    | Properties | Severe repetitive loss                               | Properties |
|-----------------------------------------------|------------|------------------------------------------------------|------------|
| Repetitive loss, FMA definition (44 CFR 77.2) | 0          | Severe repetitive loss, FMA definition (44 CFR 77.2) | 0          |
| Repetitive loss, NFIP insurance definition    | 0          | Severe repetitive loss, NFIP insurance definition    | 0          |

The state NFIP coordinator's list, the source FEMA's Handbook names, often uses the NFIP insurance definition (second row).

### Repeat-flood properties: county and state-level rows

Sources: 1, 4

| Scope                               | RL, FMA<br><i>properties</i> | SRL, FMA<br><i>properties</i> | RL, NFIP<br><i>properties</i> | SRL, NFIP<br><i>properties</i> | Any category<br><i>properties</i> | Mitigated<br><i>properties</i> | Currently insured<br><i>properties</i> |
|-------------------------------------|------------------------------|-------------------------------|-------------------------------|--------------------------------|-----------------------------------|--------------------------------|----------------------------------------|
| County total                        | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |
| Statewide, no county in FEMA's file | 0                            | 0                             | 8                             | 0                              | 8                                 | 0                              | 0                                      |

The statewide row counts properties FEMA's file gives with no county in this state; they are listed for reference and are not in this county's counts.

Repeat-flood properties by jurisdiction in the plan (NFIP community)

Sources: 1, 4

| Jurisdiction      | NFIP community ID | RL, FMA<br><i>properties</i> | SRL, FMA<br><i>properties</i> | RL, NFIP<br><i>properties</i> | SRL, NFIP<br><i>properties</i> | Any category<br><i>properties</i> | Mitigated<br><i>properties</i> | Currently insured<br><i>properties</i> |
|-------------------|-------------------|------------------------------|-------------------------------|-------------------------------|--------------------------------|-----------------------------------|--------------------------------|----------------------------------------|
| Douglas County    | 080049            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |
| Castle Pines city | 080231            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |
| Castle Rock town  | 080050            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |
| Larkspur town     | 080309            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |
| Lone Tree city    | 080319            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |
| Parker town       | 080310            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |

Counts by occupancy group for each jurisdiction are in the Excel file, sheet "B2-c Jurisdictions".

Jurisdiction rows are whole NFIP communities and need not add up to the county total: a community that extends into another county is counted in full on each jurisdiction row, while the county table counts only its part in this county.

County repeat-flood properties by occupancy group: 0 in every occupancy group.

Sources: 1, 4

FMA RL and FMA SRL are the Flood Mitigation Assistance definitions (44 CFR 77.2), the ones the FEMA Local Mitigation Planning Policy Guide cites. NFIP repetitive loss (the FEMA insurance definition) is 2 or more claims over \$1,000 in 10 years, and a property can leave that group once it is mitigated. Also shown: NFIP severe repetitive loss, any category, mitigated and currently insured. The Methods page gives the OpenFEMA field details.

Counts are aggregates of FEMA's public NFIP Multiple Loss Properties file (FEMA's data date 2026-08-02; file version 2026-08-04). No property is identified. County assignment is FEMA's geocode.

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 0 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

Tables cite these sources by number. The full list, for the plan's bibliography (FEMA review item A4-a):

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-29T134039Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-29T162832Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-30, [https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI\\_Table\\_Counties.zip](https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip) (download, 25 MB), [https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI\\_Table\\_CensusTracts.zip](https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip) (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-30, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-30, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-30, [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024\\_Gazetteer/2024\\_Gaz\\_counties\\_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024\\_Gazetteer/2024\\_Gaz\\_cousubs\\_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024\\_Gazetteer/2024\\_Gaz\\_cousubs\\_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_cousubs_national.zip)

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## What this packet is and what the plan adds

This packet is the federal data for the plan's risk assessment, organized by the items of FEMA's Local Mitigation Plan Review Tool, Element B. Each section heading names the item its tables support; the plan and FEMA's review decide whether the item is met.

The plan adds what only the community has: local data on assets, critical facilities, development and each jurisdiction's impacts; local hazard history, including state-declared emergencies; the mitigation strategy; and adoption.

How the federal data are built: National Risk Index values are FEMA's model, not counts of events. Storm Events is more complete from 1996; zone-level records are placed by forecast zone, not by location in the county. Public Assistance for a jurisdiction is matched by applicant name. The Methods page gives every rule and the known edge cases.

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## OpenFEMA disclaimer

This product uses the Federal Emergency Management Agency's OpenFEMA API, but is not endorsed by FEMA. The Federal Government or FEMA cannot vouch for the data or analyses derived from these data after the data have been retrieved from the Agency's website(s).

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## Reuse, citation and corrections

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Cite this: Hazard Plain (2026). Douglas County, CO: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 08035). Automated baseline. <https://hazardplain.org/co/08035/> Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

Corrections: to report an error, name the packet, the table and what your records show. Contact: [contact@hazardplain.org](mailto:contact@hazardplain.org)

Hazard Plain release 2026-10. As of 2026-09-30; Storm Events data through 2026-06-30. Automated baseline.