

# Yukon-Koyukuk Census Area, AK

Risk-assessment baseline packet

County FIPS: 02290    Release: 2026-10    Data as of: 2026-09-30    Storm Events data through: 2026-06-30

Hazard Plain is an independent product built from public federal data. It is not a FEMA document and is not reviewed or endorsed by FEMA or any state agency.

## Summary

Plan status as of 2026-09-30: No county-level plan row in FEMA data.

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Cold Wave (\$9,276,450 a year), Wildfire (\$1,258,932) and Earthquake (\$647,327).

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; 02290 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.

## CONTENTS

1. Summary and terms used, page 1
2. Plan clock, page 2
3. What changed since your last plan, page 2
4. B1-a: hazard identification, page 3
5. B1-b: hazard location, page 5
6. B1-c: hazard extent, page 6
7. B1-d: previous occurrences, page 8
8. B1-e: probability of future events, page 13
9. B1-f: hazards that vary across jurisdictions, page 15
10. B2-a and B2-b: vulnerability and potential impacts, page 17
11. B2-a: vulnerability (county context), page 19
12. B2-c: repetitive loss properties, page 19
13. Sources, what the plan adds, disclaimer and citation, page 21

# Plan clock

No county-level plan row in FEMA data

## What changed since your last plan

**Not available.** No county-level plan row in FEMA data, so there is no approval date to count from.

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

**Plan status for every jurisdiction listed in this county: 16 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" on the following pages.**

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

# Plan clock

## Plan status for every jurisdiction listed in this county

Source: 1

| Jurisdiction    | Type           | Status                       | Plan                                                           | Approved   | Expires    | Days to expiry<br><small>negative = days since expiry</small> | Update underway                       |
|-----------------|----------------|------------------------------|----------------------------------------------------------------|------------|------------|---------------------------------------------------------------|---------------------------------------|
| Allakaket city  | City           | Expired on 2024-01-17        | Allakaket City and Village MJHMP (FEMA plan 104611)            | 2019-01-18 | 2024-01-17 | -987                                                          | FEMA tracker shows a plan in progress |
| Circle CDP      | Unincorporated | Expired on 2019-07-23        | Circle HMP (FEMA plan 25022)                                   | 2014-07-23 | 2019-07-23 | -2,626                                                        |                                       |
| Fort Yukon city | City           | Expired on 2023-01-10        | Fort Yukon HMP (FEMA plan 104579)                              | 2018-01-11 | 2023-01-10 | -1,359                                                        | FEMA tracker shows a plan in progress |
| Galena city     | City           | Approved, expires 2027-09-25 | Galena City and Louden Tribal Council MJHMP (FEMA plan 108408) | 2022-09-26 | 2027-09-25 | 360                                                           |                                       |
| Grayling city   | City           | Expired on 2020-12-22        | Grayling HMP (FEMA plan 101411)                                | 2015-12-22 | 2020-12-22 | -2,108                                                        |                                       |
| Holy Cross city | City           | Expired on 2018-11-08        | Holy Cross HMP (FEMA plan 25045)                               | 2013-11-08 | 2018-11-08 | -2,883                                                        |                                       |
| Hughes city     | City           | No approved plan on record   | none                                                           | none       | none       |                                                               | FEMA tracker shows a plan in progress |
| Huslia city     | City           | Approved, expires 2027-10-26 | Huslia City and Native Village MJHMP (FEMA plan 108508)        | 2022-10-27 | 2027-10-26 | 391                                                           |                                       |
| Kaltag city     | City           | Expired on 2024-02-11        | Kaltag City and Native Village MJHMP (FEMA plan 104999)        | 2019-02-12 | 2024-02-11 | -962                                                          |                                       |
| Koyukuk city    | City           | Expired on 2013-10-02        | Koyukuk City (FEMA plan 25077)                                 | 2008-10-03 | 2013-10-02 | -4,746                                                        |                                       |
| McGrath city    | City           | Expired on 2023-10-14        | McGrath City and Native Village MJHMP (FEMA plan 105140)       | 2018-10-15 | 2023-10-14 | -1,082                                                        |                                       |
| Nenana city     | City           | Expired on 2015-09-24        | Nenana HMP (FEMA plan 25092)                                   | 2010-09-24 | 2015-09-24 | -4,024                                                        | FEMA tracker shows a plan in progress |
| Nikolai city    | City           | Approved, expires 2027-10-02 | Nikolai HMP (FEMA plan 108518)                                 | 2022-10-03 | 2027-10-02 | 367                                                           |                                       |
| Ruby city       | City           | Expired on 2023-03-28        | Ruby HMP (FEMA plan 104580)                                    | 2018-03-29 | 2023-03-28 | -1,282                                                        |                                       |
| Shageluk city   | City           | No approved plan on record   | none                                                           | none       | none       |                                                               | FEMA tracker shows a plan in progress |
| Tanana city     | City           | Expired on 2024-03-11        | Tanana City and Village MJHMP (FEMA plan 104995)               | 2019-03-12 | 2024-03-11 | -933                                                          |                                       |

## 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<br>by<br>EAL | Hazard               | NRI risk<br>rating     | EAL rating                      | EAL<br>buildings<br><i>modeled<br/>dollars per<br/>year</i> | EAL<br>agriculture<br><i>modeled<br/>dollars per year</i> | Cost of expected<br>deaths and<br>injuries<br><i>FEMA's dollar value<br/>per year, not<br/>property damage</i> | EAL total<br>(see note)<br><i>modeled<br/>dollars per<br/>year</i> | Storm Events<br>records, 1996 to<br>2026-06-30<br><i>count</i> | Why this hazard can be left<br>out<br><i>NRI Not Applicable, no declaration<br/>and no Storm Events record since<br/>1996</i> | Storm Events coverage note                                                                                                  |
|-------------------|----------------------|------------------------|---------------------------------|-------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 1                 | Cold Wave            | Relatively<br>High     | Relatively<br>High              | \$3,254                                                     | \$0                                                       | \$9,273,196                                                                                                    | \$9,276,450                                                        | 51                                                             |                                                                                                                               |                                                                                                                             |
| 2                 | Wildfire             | Relatively<br>Moderate | Relatively<br>Moderate          | \$1,219,394                                                 | \$0                                                       | \$39,538                                                                                                       | \$1,258,932                                                        | 9                                                              |                                                                                                                               |                                                                                                                             |
| 3                 | Earthquake           | Relatively<br>Low      | Relatively Low                  | \$511,595                                                   | n/a                                                       | \$135,731                                                                                                      | \$647,327                                                          |                                                                |                                                                                                                               | Storm Events does not record earthquakes.                                                                                   |
| 4                 | Inland<br>Flooding   | Very Low               | Very Low                        | \$526,991                                                   | \$0                                                       | \$50                                                                                                           | \$527,042                                                          | 84                                                             |                                                                                                                               |                                                                                                                             |
| 5                 | Avalanche            | Relatively<br>Moderate | Relatively Low                  | \$1                                                         | n/a                                                       | \$456,667                                                                                                      | \$456,667                                                          | 0                                                              |                                                                                                                               | No recorded events in Storm Events since 1996 (data through 2026-06-30).                                                    |
| 6                 | Winter<br>Weather    | Relatively<br>Moderate | Relatively<br>Moderate          | \$41,948                                                    | \$0                                                       | \$71,231                                                                                                       | \$113,179                                                          | 312                                                            |                                                                                                                               |                                                                                                                             |
| 7                 | Landslide            | Relatively<br>Moderate | Relatively Low                  | \$8,516                                                     | n/a                                                       | \$59,381                                                                                                       | \$67,897                                                           | 0                                                              |                                                                                                                               | Declared 1 time; no Storm Events record of this type.                                                                       |
| 8                 | Lightning            | Very Low               | Very Low                        | \$1,554                                                     | n/a                                                       | \$24,464                                                                                                       | \$26,019                                                           | 2                                                              |                                                                                                                               |                                                                                                                             |
| 9                 | Ice Storm            | Very Low               | Very Low                        | \$7,671                                                     | n/a                                                       | \$1,038                                                                                                        | \$8,709                                                            | 29                                                             |                                                                                                                               |                                                                                                                             |
| 10                | Strong Wind          | Very Low               | Very Low                        | \$10                                                        | \$0                                                       | \$16                                                                                                           | \$25                                                               | 133                                                            |                                                                                                                               | Includes 113 High Wind and 16 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition). |
| 11                | Hail                 | Very Low               | Very Low                        | \$6                                                         | \$0                                                       | under \$1                                                                                                      | \$6                                                                | 3                                                              |                                                                                                                               |                                                                                                                             |
| 12                | Volcanic<br>Activity | Very Low               | Very Low                        | under \$1                                                   | n/a                                                       | \$4                                                                                                            | \$4                                                                | 0                                                              |                                                                                                                               | No recorded events in Storm Events since 1996 (data through 2026-06-30).                                                    |
| 13                | Tornado              | Very Low               | Very Low                        | \$1                                                         | \$0                                                       | under \$1                                                                                                      | \$1                                                                | 0                                                              |                                                                                                                               | No recorded events in Storm Events since 1996 (data through 2026-06-30).                                                    |
| 14                | Drought              | No Rating              | No Expected<br>Annual<br>Losses | n/a                                                         | \$0                                                       | n/a                                                                                                            | \$0                                                                | 0                                                              |                                                                                                                               | No recorded events in Storm Events since 1996 (data through 2026-06-30).                                                    |

| Rank<br>by<br>EAL | Hazard              | NRI risk<br>rating   | EAL rating           | EAL<br>buildings                        | EAL<br>agriculture                  | Cost of expected<br>deaths and<br>injuries                       | EAL total<br>(see note)                 | Storm Events<br>records, 1996 to<br>2026-06-30 | Why this hazard can be left<br>out                                                                                         | Storm Events coverage note                                                     |
|-------------------|---------------------|----------------------|----------------------|-----------------------------------------|-------------------------------------|------------------------------------------------------------------|-----------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|                   |                     |                      |                      | <i>modeled<br/>dollars per<br/>year</i> | <i>modeled<br/>dollars per year</i> | <i>FEMA's dollar value<br/>per year, not<br/>property damage</i> | <i>modeled<br/>dollars per<br/>year</i> | <i>count</i>                                   | <i>NRI Not Applicable, no declaration<br/>and no Storm Events record since<br/>1996</i>                                    |                                                                                |
|                   | Coastal<br>Flooding | Not<br>Applicable    | Not<br>Applicable    |                                         |                                     |                                                                  |                                         | 16                                             | NRI rates this Not Applicable,<br>but 16 Storm Events records of<br>this type exist since 1996;<br>review before omitting. |                                                                                |
|                   | Heat Wave           | Insufficient<br>Data | Insufficient<br>Data | n/a                                     | n/a                                 | n/a                                                              | n/a                                     | 0                                              |                                                                                                                            | No recorded events in Storm Events<br>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, volcanic activity and heat wave 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: hurricane and tsunami. 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 1 (Relatively Low, 79.5); tract 4 (Relatively Low, 79.4); tract 2 (Relatively Low, 79.2)                |
| Coastal Flooding  | no tract has a National Risk Index rating for this hazard                                                     |
| Earthquake        | tract 2 (Relatively Moderate, 86.3); tract 4 (Relatively Moderate, 82.6); tract 3 (Relatively Moderate, 79.1) |
| Landslide         | tract 4 (Relatively High, 99.3); tract 3 (Relatively Moderate, 99.0); tract 2 (Relatively Moderate, 98.9)     |
| Tornado           | tract 1 (Very Low, 0.2); tract 2 (Very Low, 0.2); tract 4 (Very Low, 0.2)                                     |
| Volcanic Activity | tract 4 (Very Low, 80.8); tract 2 (Very Low, 43.9); tract 1 (Very Low, 40.4)                                  |
| Wildfire          | tract 2 (Relatively High, 98.3); tract 3 (Relatively High, 98.3); tract 1 (Relatively High, 98.0)             |

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 1 is Census Tract 1). 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)          | 0                                        |                                                            |                                                                                                                                                                                                                                                                       |                                   |                                  |                                                                                                                                                                      |
| Coastal Flood, Storm Surge/Tide                   | none in data (flood depth: FIRM)      | 16 records, 2003 to 2022 (16 zone-level) |                                                            | Storm Surge/Tide, 2004-10-19, \$4,700,000 property; crops not reported (2004 dollars); NWS zone AKZ212                                                                                                                                                                |                                   | Countywide (zone-level records). | Flood depth: see the FEMA Flood Insurance Rate Map.                                                                                                                  |
| Cold/Wind Chill, Extreme Cold/Wind Chill          | wind chill                            | 51 records, 2001 to 2026 (51 zone-level) | 1 day to 33 days (median 2 days); 35 with a recorded value | 2012-01-01 to 2012-02-02 (10 records, 1 of them a monthly summary record), zone-level                                                                                                                                                                                 |                                   | Countywide (zone-level records). |                                                                                                                                                                      |
| Frost/Freeze (outside NRI's Cold Wave definition) | crop damage                           | 0                                        |                                                            |                                                                                                                                                                                                                                                                       |                                   |                                  |                                                                                                                                                                      |
| Drought                                           | U.S. Drought Monitor scale (D0 to D4) | 0                                        |                                                            |                                                                                                                                                                                                                                                                       |                                   |                                  | 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)                    | 3 records, 2010 to 2024 (3 zone-level)   |                                                            | No hail record can stand as this county's largest: the 3 records with a recorded size reached this county only through an NWS zone that covers more than one county, so the hail may have occurred outside this county (zone-level); they are counted as occurrences. |                                   | Countywide (zone-level records). |                                                                                                                                                                      |
| Excessive Heat, Heat                              | heat index (in event narratives)      | 0                                        |                                                            |                                                                                                                                                                                                                                                                       |                                   |                                  |                                                                                                                                                                      |
| Ice Storm                                         | Sperry-Piltz ice scale (local data)   | 29 records, 2002 to 2025 (29 zone-level) |                                                            | Ice Storm, 2013-11-13, \$2,000,000 property; \$0 crops (2013 dollars); NWS zone AKZ222                                                                                                                                                                                |                                   | Countywide (zone-level records). |                                                                                                                                                                      |

| 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                                                                                                                                                                                                                 |
|------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flash Flood, Flood, Lakeshore Flood                              | damage and flood days (flood depth: FIRM)                                          | 84 records, 2001 to 2026 (84 zone-level)   |                                                                                       | Flood, 2003-05-01, \$2,000,000 property; crops not reported (2003 dollars); NWS zone AKZ223                                                                                                                                                                                           |                                                                                              | Countywide (zone-level records). | 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                                          |                                                                                       |                                                                                                                                                                                                                                                                                       |                                                                                              |                                  |                                                                                                                                                                                                                      |
| Lightning                                                        | annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names) | 2 records, 2006 to 2023 (2 zone-level)     |                                                                                       | Lightning, 2023-06-23, \$0 property; \$0 crops (2023 dollars), 1 direct injury (reported for the zone); NWS zone AKZ222                                                                                                                                                               |                                                                                              | Countywide (zone-level records). | Storm Events lists lightning with damage or casualties.                                                                                                                                                              |
| High Wind and Strong Wind (outside NRI's Strong Wind definition) | wind speed (kt and mph)                                                            | 129 records, 2001 to 2025 (129 zone-level) | 32 kt (37 mph) to 100 kt (115 mph) (median 54 kt (62 mph)); 129 with a recorded value | 100 kt (115 mph) estimated gust, High Wind, 2012-09-16; NWS zone AKZ224                                                                                                                                                                                                               | Strong Wind, 2022-07-25, \$1,400,000 property; crops not reported (zone total, 2022 dollars) | Countywide (zone-level records). |                                                                                                                                                                                                                      |
| Thunderstorm Wind                                                | wind speed (kt and mph)                                                            | 4 records, 2002 to 2024 (4 zone-level)     |                                                                                       | No thunderstorm wind record can stand as this county's strongest: the 4 records with a recorded speed reached this county only through an NWS zone that covers more than one county, so the wind may have occurred outside this county (zone-level); they are counted as occurrences. | Thunderstorm Wind, 2024-06-05, \$20,000 property; \$0 crops (zone total, 2024 dollars)       | Countywide (zone-level records). |                                                                                                                                                                                                                      |
| Tornado                                                          | Enhanced Fujita (Fujita before Feb 2007)                                           | 0                                          |                                                                                       |                                                                                                                                                                                                                                                                                       |                                                                                              |                                  | 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                                          |                                                                                       |                                                                                                                                                                                                                                                                                       |                                                                                              |                                  |                                                                                                                                                                                                                      |

| 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)              | 9 records,<br>2002 to 2015<br>(9 zone-level)         |                | Wildfire, 2010-05-28,<br>\$1,500,000 property; \$0<br>crops (2010 dollars); NWS<br>zone AKZ227    |                                   | Countywide (zone-level records). |      |
| Winter Storm,<br>Heavy Snow,<br>Blizzard, Lake-<br>Effect Snow,<br>Winter<br>Weather, Sleet | none in data<br>(snowfall: local<br>data) | 312 records,<br>2001 to 2026<br>(312 zone-<br>level) |                | Winter Weather,<br>2015-06-01, \$400<br>property; \$0 crops (2015<br>dollars); NWS zone<br>AKZ223 |                                   | Countywide (zone-level records). |      |

In event narratives only (local data needed): wind chill, temperature, heat index, ice thickness, acres burned and snow depth; any physical measure of avalanche, debris flow, lightning and volcanic ash, volcanic ashfall.

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records from zones that 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: 19 declarations covering 17 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

No county-level plan row in FEMA data, so there is no approval date to count from.

### Federal disaster declarations for this county

Sources: 1, 2, 3

| Declared   | Incident<br>began | FEMA<br>number | Type               | Title                                                                     | Mapped<br>hazard                                                          | County Public Assistance<br><i>federal share obligated, nominal dollars</i>                                                    | Flags                     | Notes             |
|------------|-------------------|----------------|--------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------|
| 2025-10-22 | 2025-10-08        | DR-4893-AK     | Major<br>disaster  | Severe<br>Storms,<br>Flooding,<br>and<br>Remnants<br>of Typhoon<br>Halong | Inland<br>Flooding<br>(primary);<br>also<br>designated:<br>Strong<br>Wind | none placed in this county by FEMA's record; \$89,127.02 for this declaration is not placed in any county (see the state page) | within<br>last 5<br>years | part of<br>county |
| 2025-07-06 | 2025-07-04        | FM-5597-AK     | Fire<br>management | Nenana<br>Ridge<br>Complex                                                | Wildfire                                                                  | no Public Assistance recorded                                                                                                  | within<br>last 5<br>years |                   |
| 2023-08-23 | 2023-05-12        | DR-4730-AK     | Major<br>disaster  | Flooding                                                                  | Inland<br>Flooding                                                        | \$7,803,813.17                                                                                                                 | within<br>last 5<br>years |                   |
| 2022-06-26 | 2022-06-21        | FM-5442-AK     | Fire<br>management | Clear Fire                                                                | Wildfire                                                                  | no Public Assistance recorded                                                                                                  | within<br>last 5<br>years |                   |

| Declared   | Incident began | FEMA number | Type            | Title                                              | Mapped hazard               | County Public Assistance<br><i>federal share obligated, nominal dollars</i> | Flags | Notes                                    |
|------------|----------------|-------------|-----------------|----------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------|-------|------------------------------------------|
| 2022-03-24 | 2021-12-25     | DR-4648-AK  | Major disaster  | Severe Winter Storm and Straight-Line Winds        | Strong Wind; Winter Weather | no Public Assistance recorded                                               |       | within last 5 years                      |
| 2020-04-09 | 2020-01-20     | DR-4533-AK  | Major disaster  | COVID-19 Pandemic                                  | Non-natural, not counted    | \$98,570.95                                                                 |       |                                          |
| 2020-03-13 | 2020-01-20     | EM-3446-AK  | Emergency       | COVID-19                                           | Non-natural, not counted    | no Public Assistance recorded                                               |       | same incident as DR-4533; part of county |
| 2013-06-25 | 2013-05-17     | DR-4122-AK  | Major disaster  | Flooding                                           | Inland Flooding             | \$4,794,512.43                                                              |       | part of county                           |
| 2009-06-11 | 2009-04-28     | DR-1843-AK  | Major disaster  | Flooding and Ice Jams                              | Inland Flooding             | \$279,729.06                                                                |       | part of county                           |
| 2008-09-26 | 2008-07-27     | DR-1796-AK  | Major disaster  | Severe Storms, Flooding, Landslides, and Mudslides | Inland Flooding; Landslide  | \$1,169,171.82                                                              |       | part of county                           |
| 2006-08-04 | 2006-05-13     | DR-1657-AK  | Major disaster  | Snow Melt and Ice Jam Flooding                     | Inland Flooding             | \$252,364.84                                                                |       | part of county                           |
| 2006-06-08 | 2006-06-07     | FM-2641-AK  | Fire management | Parks Highway (Tamarack) Fire                      | Wildfire                    | no Public Assistance recorded                                               |       | part of county                           |
| 2002-11-08 | 2002-11-03     | DR-1440-AK  | Major disaster  | Earthquake                                         | Earthquake                  | \$3,723.88                                                                  |       |                                          |
| 2002-06-26 | 2002-04-27     | DR-1423-AK  | Major disaster  | Flooding                                           | Inland Flooding             | \$23,945                                                                    |       |                                          |
| 1994-09-13 | 1994-08-08     | DR-1039-AK  | Major disaster  | Severe Storms and Flooding                         | Inland Flooding             | no Public Assistance recorded                                               |       |                                          |
| 1991-05-30 | 1991-04-15     | DR-909-AK   | Major disaster  | Heavy Snow, Ice Jams & Flooding                    | Winter Weather              | no Public Assistance recorded                                               |       |                                          |
| 1989-06-10 | 1989-05-01     | DR-832-AK   | Major disaster  | Flooding                                           | Inland Flooding             | no Public Assistance recorded                                               |       |                                          |

| Declared   | Incident began | FEMA number | Type           | Title                    | Mapped hazard   | County Public Assistance<br><i>federal share obligated, nominal dollars</i> | Flags | Notes |
|------------|----------------|-------------|----------------|--------------------------|-----------------|-----------------------------------------------------------------------------|-------|-------|
| 1989-05-10 | 1989-01-15     | DR-826-AK   | Major disaster | Severe Freezing          | Cold Wave       | no Public Assistance recorded                                               |       |       |
| 1986-10-27 | 1986-10-10     | DR-782-AK   | Major disaster | Severe Storms & Flooding | 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                         |
|------------|----------------|-------------|----------------|-----------------|---------------------------------------|
| 1964-03-28 | 1964-03-28     | DR-168-AK   | Major disaster | Earthquake      | Earthquake                            |
| 1955-12-22 | 1955-12-22     | DR-46-AK    | Major disaster | Severe Hardship | Other, not an NRI hazard; not counted |
| 1954-11-10 | 1954-11-10     | DR-31-AK    | Major disaster | Severe Hardship | Other, not an NRI hazard; not counted |
| 1953-10-30 | 1953-10-30     | DR-13-AK    | Major disaster | Severe Hardship | Other, not an NRI hazard; not counted |

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.

7 Fire Management declarations (1970-06-26 to 1996-06-05) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

Public Assistance not placed in any Alaska county: 40 rows, \$21,127,378.43; listed on the Alaska state page.

Source: 3

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        | 0                                                                              |                                       |                                                         | 0                              | 0                                                          |                                                      | 1996 to 2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                       |
| Coastal Flooding | 16                                                                             |                                       |                                                         | 1                              | 0                                                          |                                                      | 1996 to 2026-06-30 |                                                                                      |
| Cold Wave        | 51                                                                             |                                       |                                                         | 4                              | 1                                                          |                                                      | 1996 to 2026-06-30 |                                                                                      |
| Drought          | 0                                                                              |                                       |                                                         | 0                              | 0                                                          |                                                      | 1996 to 2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                       |
| Earthquake       | 0                                                                              |                                       |                                                         | 0                              | 1                                                          |                                                      |                    | Storm Events does not record earthquakes; the USGS earthquake catalog is the source. |
| Hail             | 3                                                                              |                                       |                                                         | 1                              | 0                                                          |                                                      | 1955 to 2026-06-30 |                                                                                      |
| Heat Wave        | 0                                                                              |                                       |                                                         | 0                              | 0                                                          |                                                      | 1996 to 2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                       |

| <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>                                                                              |
|----------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------|
| Ice Storm            | 29                                                                                        |                                                  |                                                                    | 4                                         | 0                                                                     |                                                                 | 1996 to<br>2026-06-30 |                                                                                               |
| Inland<br>Flooding   | 84                                                                                        |                                                  |                                                                    | 15                                        | 10                                                                    |                                                                 | 1996 to<br>2026-06-30 |                                                                                               |
| Landslide            | 0                                                                                         |                                                  |                                                                    | 0                                         | 1                                                                     |                                                                 | 1996 to<br>2026-06-30 | No Storm Events records of this type; 1 federal<br>declared incident (see declarations table) |
| Lightning            | 2                                                                                         |                                                  |                                                                    | 1                                         | 0                                                                     |                                                                 | 1996 to<br>2026-06-30 |                                                                                               |
| Strong Wind          | 133                                                                                       |                                                  |                                                                    | 16                                        | 2                                                                     |                                                                 | 1955 to<br>2026-06-30 | Includes 113 High Wind and 16 Strong Wind<br>records.                                         |
| Tornado              | 0                                                                                         |                                                  |                                                                    | 0                                         | 0                                                                     |                                                                 | 1950 to<br>2026-06-30 | No recorded events, 1950 to 2026-06-30, NOAA<br>NCEI Storm Events                             |
| Volcanic<br>Activity | 0                                                                                         |                                                  |                                                                    | 0                                         | 0                                                                     |                                                                 | 1996 to<br>2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA<br>NCEI Storm Events                             |
| Wildfire             | 9                                                                                         |                                                  |                                                                    | 0                                         | 3                                                                     |                                                                 | 1996 to<br>2026-06-30 |                                                                                               |
| Winter<br>Weather    | 312                                                                                       |                                                  |                                                                    | 53                                        | 2                                                                     |                                                                 | 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                                                    | Flags               | Why listed                                                                                       |
|------------|-----------------------------|------------------------------------|---------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------|
| 2023-06-23 | Lightning                   |                                    | \$0 property; \$0 crops (zone total, 2023 dollars)                  | 0, 1                                      | NWS zone AKZ222 (MIDDLE TANANA VALLEY), zone-level          | within last 5 years | B1-c worst recorded: Lightning                                                                   |
| 2022-12-18 | Extreme Cold/<br>Wind Chill |                                    | \$0 property; \$0 crops (zone total, 2022 dollars)                  | 1, 0                                      | NWS zone AKZ222 (MIDDLE TANANA VALLEY), zone-level          | within last 5 years | deaths or injuries recorded                                                                      |
| 2022-07-25 | Strong Wind                 | 38 kt (44 mph)<br>measured gust    | \$1,400,000 property; crops not reported (zone total, 2022 dollars) | 0, 2                                      | NWS zone AKZ222 (MIDDLE TANANA VALLEY), zone-level          | within last 5 years | B1-c most damaging: High Wind and Strong Wind                                                    |
| 2015-06-01 | Winter Weather              |                                    | \$400 property; \$0 crops (zone total, 2015 dollars)                | 0, 0                                      | NWS zone AKZ223 (DELTANA AND TANANA), zone-level            |                     | B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet |
| 2015-03-12 | Cold/Wind Chill             |                                    | \$0 property; \$0 crops (zone total, 2015 dollars)                  | 2, 0                                      | NWS zone AKZ222 (MIDDLE TANANA VALLEY), zone-level          |                     | deaths or injuries recorded                                                                      |
| 2013-11-13 | Ice Storm                   |                                    | \$2,000,000 property; \$0 crops (zone total, 2013 dollars)          | 0, 0                                      | NWS zone AKZ222 (MIDDLE TANANA VALLEY), zone-level          |                     | B1-c worst recorded: Ice Storm                                                                   |
| 2012-09-16 | High Wind                   | 100 kt (115 mph)<br>estimated gust | \$50,000 property; \$0 crops (zone total, 2012 dollars)             | 0, 0                                      | NWS zone AKZ224 (UPR TANANA VLY FORTYMILE), zone-level      |                     | B1-c worst recorded: High Wind and Strong Wind                                                   |
| 2012-01-01 | Cold/Wind Chill             |                                    | \$0 property; \$0 crops (zone total, 2012 dollars)                  | 0, 0                                      | NWS zone AKZ216 (LOWER KOYUKUK MIDDLE YKN VLYS), zone-level |                     | B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill                                    |
| 2010-05-28 | Wildfire                    |                                    | \$1,500,000 property; \$0 crops (zone total, 2010 dollars)          | 0, 0                                      | NWS zone AKZ227 (UPPER KUSKOKWIM VALLEY), zone-level        |                     | B1-c worst recorded: Wildfire                                                                    |
| 2006-02-18 | Winter Weather              |                                    | damage not reported                                                 | 1, 0                                      | NWS zone AKZ216 (LOWER KOYUKUK MIDDLE YKN VLYS), zone-level |                     | deaths or injuries recorded                                                                      |
| 2004-10-19 | Storm Surge/<br>Tide        |                                    | \$4,700,000 property; crops not reported (zone total, 2004 dollars) | 0, 0                                      | NWS zone AKZ212 (ERN NORTON SOUND NULATO HILLS), zone-level |                     | B1-c worst recorded: Coastal Flood, Storm Surge/ Tide                                            |
| 2003-05-01 | Flood                       |                                    | \$2,000,000 property; crops not reported (zone total, 2003 dollars) | 0, 0                                      | NWS zone AKZ223 (DELTANA AND TANANA), zone-level            |                     | B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood                                         |

The full list is in the Excel file, sheet "B1-d Storm Events history" (639 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           | 0.0333                                                              | events per year                               | about 1 in 30 years                                                                                  | Possible         | FEMA annualized<br>frequency (modeled)                                    | 1                                                                                                                 | 1994 to 2023 (30<br>years)                       | see B1-f   |                                                                                                                                                           |
| Coastal<br>Flooding |                                                                     | events per year<br>at a location<br>(modeled) |                                                                                                      | Likely           |                                                                           | not shown                                                                                                         | modeled                                          | see B1-f   | Not Applicable in NRI for this<br>county; the descriptor comes from<br>Storm Events, not NRI: Storm<br>Events records in 11 of 30 years,<br>1996 to 2025. |
| Cold Wave           | 5.07                                                                | event-days per<br>year                        | about 5.07 days per<br>year                                                                          | Likely           | Storm Events event-<br>days in 14 of 30<br>years, 1996 to 2025<br>(46.7%) | 96.4                                                                                                              | 2005-11-12 to<br>2024-11-12 (19<br>years)        | countywide |                                                                                                                                                           |
| Drought             | 0                                                                   | event-days per<br>year                        | none modeled                                                                                         |                  | Storm Events event-<br>days in 0 of 30<br>years, 1996 to 2025<br>(0%)     | 0                                                                                                                 | 2000 to 2025<br>(25.25 years; D3<br>and D4 only) | countywide | No Storm Events drought record,<br>1996 to 2025                                                                                                           |
| Earthquake          | 0.092                                                               | annual<br>probability at a<br>location        | chance a given<br>location in the county<br>has at least minor-<br>damage shaking in a<br>year: 9.2% |                  |                                                                           | not shown                                                                                                         | modeled                                          | see B1-f   | No descriptor (Storm Events does<br>not record earthquakes).                                                                                              |
| Hail                | 0.000121                                                            | events per year                               | about 1 in 8,296 years                                                                               | Unlikely         | FEMA annualized<br>frequency (modeled)                                    | 0.0 (modeled)                                                                                                     | 1986 to 2023 (38<br>years)                       | countywide |                                                                                                                                                           |
| Heat Wave           |                                                                     | event-days per<br>year                        |                                                                                                      |                  | Storm Events event-<br>days in 0 of 30<br>years, 1996 to 2025<br>(0%)     |                                                                                                                   | 2005-11-12 to<br>2024-11-12 (19<br>years)        | countywide | No Storm Events heat wave record,<br>1996 to 2025                                                                                                         |
| Ice Storm           | 0.0147                                                              | event-days per<br>year                        | about 0.0147 days per<br>year                                                                        | Likely           | Storm Events event-<br>days in 11 of 30<br>years, 1996 to 2025<br>(36.7%) | 1                                                                                                                 | 1946-12-31 to<br>2014-02-12 (67<br>years)        | countywide |                                                                                                                                                           |
| Inland<br>Flooding  | 0.01                                                                | event-days per<br>year                        | about 0.01 days per<br>year                                                                          | Likely           | Storm Events event-<br>days in 21 of 30<br>years, 1996 to 2025<br>(70%)   | 0                                                                                                                 | 1996 to 2023 (28<br>years)                       | see B1-f   |                                                                                                                                                           |
| Landslide           | 3.65                                                                | events per year<br>(modeled)                  | about 3.65 per year                                                                                  | Highly<br>likely | FEMA annualized<br>frequency (modeled)                                    | not shown                                                                                                         | modeled                                          | see B1-f   |                                                                                                                                                           |

| 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 |
|----------------------|---------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------|------|
| Lightning            | 32.9                                                                | days per year<br>with a strike         | about 32.9 days per<br>year                                            | Highly<br>likely | FEMA annualized<br>frequency (modeled)                                    | not shown                                                                                                         | 1995 to 2023 (29<br>years; CONUS)               | countywide |      |
| Strong<br>Wind       | 0.000212                                                            | events per year                        | about 1 in 4,710 years                                                 | Unlikely         | FEMA annualized<br>frequency (modeled)                                    | 1                                                                                                                 | 1986 to 2023 (38<br>years)                      | countywide |      |
| Tornado              | 0.000278                                                            | events per year                        | about 1 in 3,599 years                                                 | Unlikely         | FEMA annualized<br>frequency (modeled)                                    | not shown                                                                                                         | 1950 to 2023<br>(EF2+); 1986 to<br>2023 (EF0-1) | see B1-f   |      |
| Volcanic<br>Activity | 0.0208                                                              | annual<br>probability                  | about 1 in 48 years                                                    | Possible         | FEMA annualized<br>frequency (modeled)                                    | not shown                                                                                                         | modeled                                         | see B1-f   |      |
| Wildfire             | 0.00982                                                             | annual<br>probability at a<br>location | chance a given<br>location in the county<br>burns in a year:<br>0.982% | Likely           | Storm Events<br>records in 6 of 30<br>years, 1996 to 2025<br>(20%)        | not shown                                                                                                         | modeled                                         | see B1-f   |      |
| Winter<br>Weather    | 24.9                                                                | event-days per<br>year                 | about 24.9 days per<br>year                                            | Likely           | Storm Events event-<br>days in 25 of 30<br>years, 1996 to 2025<br>(83.3%) | 473                                                                                                               | 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 | 0                                     | 30              | 0                                        |
| Hail                                           | 2.00 in+                  | 1996 to 2025 | 0                                     | 30              | 0                                        |
| Thunderstorm Wind (counted as NRI Strong Wind) | 50-64 kt                  | 1996 to 2025 | 0                                     | 30              | 0                                        |
| Thunderstorm Wind (counted as NRI Strong Wind) | 65 kt+                    | 1996 to 2025 | 0                                     | 30              | 0                                        |
| Thunderstorm Wind (counted as NRI Strong Wind) | unmeasured or below 50 kt | 1996 to 2025 | 0                                     | 30              | 0                                        |
| Tornado                                        | EF0-1                     | 1996 to 2025 | 0                                     | 30              | 0                                        |
| 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        | 4 of 4                        | 78.8                     | 79.3   | 79.5  | Relatively Low 4                         |
| Coastal Flooding | 0 of 4                        |                          |        |       | Not Applicable 4                         |
| Cold Wave        | 4 of 4                        | 99.8                     | 99.9   | 100.0 | Very High 4                              |
| Drought          | 0 of 4                        |                          |        |       | No Rating 4                              |
| Earthquake       | 4 of 4                        | 74.5                     | 80.9   | 86.3  | Relatively Moderate 3, Relatively Low 1  |
| Hail             | 2 of 4                        | 0.2                      | 0.6    | 1.0   | Very Low 2, No Rating 2                  |
| Heat Wave        | 0 of 4                        |                          |        |       | Insufficient Data 4                      |
| Ice Storm        | 4 of 4                        | 35.9                     | 41.6   | 48.4  | Relatively Low 4                         |
| Inland Flooding  | 4 of 4                        | 3.9                      | 9.6    | 22.0  | Relatively Low 1, Very Low 3             |
| Landslide        | 4 of 4                        | 98.0                     | 98.9   | 99.3  | Relatively High 1, Relatively Moderate 3 |
| Lightning        | 4 of 4                        | 42.7                     | 48.1   | 52.9  | Relatively Moderate 2, Relatively Low 2  |

| Hazard            | Tracts<br><i>rated of all</i> | NRI risk score, 0 to 100 |        |      | Tracts by rating        |
|-------------------|-------------------------------|--------------------------|--------|------|-------------------------|
|                   |                               | Min                      | Median | Max  |                         |
| Strong Wind       | 2 of 4                        | 0.3                      | 0.4    | 0.5  | Very Low 2, No Rating 2 |
| Tornado           | 4 of 4                        | 0.2                      | 0.2    | 0.2  | Very Low 4              |
| Volcanic Activity | 3 of 4                        | 40.4                     | 43.9   | 80.8 | Very Low 3, No Rating 1 |
| Wildfire          | 4 of 4                        | 97.8                     | 98.2   | 98.3 | Relatively High 4       |
| Winter Weather    | 4 of 4                        | 95.8                     | 98.3   | 98.8 | Very High 4             |

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, hail, 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.

### Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

| Jurisdiction    | Type           | Plan status                  | Repetitive loss<br><i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i> | Public Assistance to this jurisdiction<br><i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i> | Event records naming this place<br><i>all years; since its plan</i> | Notes                                                                               |
|-----------------|----------------|------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Allakaket city  | City           | Expired on 2024-01-17        |                                                                                      | no Public Assistance recorded                                                                                                     | 4 total; 4 since its plan                                           | No NFIP community ID on this jurisdiction's plan row.                               |
| Circle CDP      | Unincorporated | Expired on 2019-07-23        |                                                                                      | no Public Assistance recorded                                                                                                     | 0 total; 0 since its plan                                           | No NFIP community ID on this jurisdiction's plan row.                               |
| Fort Yukon city | City           | Expired on 2023-01-10        | FMA RL 0, SRL 0; any 0                                                               | \$413,041.27                                                                                                                      | 1 total; 1 since its plan                                           |                                                                                     |
| Galena city     | City           | Approved, expires 2027-09-25 | FMA RL 0, SRL 1; any 1                                                               | \$331,848.17                                                                                                                      | 0 total; 0 since its plan                                           | Includes \$93,632.95 for declarations not counted as hazard incidents (DR-4533-AK). |
| Grayling city   | City           | Expired on 2020-12-22        | FMA RL 0, SRL 0; any 0                                                               | no Public Assistance recorded                                                                                                     | 2 total; 0 since its plan                                           |                                                                                     |
| Holy Cross city | City           | Expired on 2018-11-08        |                                                                                      | no Public Assistance recorded                                                                                                     | 1 total; 1 since its plan                                           | No NFIP community ID on this jurisdiction's plan row.                               |
| Hughes city     | City           | No approved plan on record   |                                                                                      | \$40,559.21                                                                                                                       | 3 total; no approved plan                                           | No NFIP community ID on this jurisdiction's plan row.                               |
| Huslia city     | City           | Approved, expires 2027-10-26 | FMA RL 0, SRL 0; any 0                                                               | no Public Assistance recorded                                                                                                     | 0 total; 0 since its plan                                           |                                                                                     |
| Kaltag city     | City           | Expired on 2024-02-11        | FMA RL 0, SRL 0; any 0                                                               | no Public Assistance recorded                                                                                                     | 0 total; 0 since its plan                                           |                                                                                     |
| Koyukuk city    | City           | Expired on 2013-10-02        | FMA RL 0, SRL 0; any 0                                                               | \$190,529.87                                                                                                                      | 1 total; 1 since its plan                                           |                                                                                     |
| McGrath city    | City           | Expired on 2023-10-14        | FMA RL 0, SRL 0; any 0                                                               | \$722,742.81                                                                                                                      | 2 total; 1 since its plan                                           | Includes \$4,938 for declarations not counted as hazard incidents (DR-4533-AK).     |

| Jurisdiction  | Type | Plan status                  | Repetitive loss                                                   | Public Assistance to this jurisdiction                                                  | Event records naming this place  | Notes                                                 |
|---------------|------|------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------|
|               |      |                              | <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> |                                                       |
| Nenana city   | City | Expired on 2015-09-24        | FMA RL 0, SRL 0; any 0                                            | \$1,172,895.70                                                                          | 1 total; 1 since its plan        |                                                       |
| Nikolai city  | City | Approved, expires 2027-10-02 | FMA RL 0, SRL 0; any 0                                            | no Public Assistance recorded                                                           | 0 total; 0 since its plan        |                                                       |
| Ruby city     | City | Expired on 2023-03-28        |                                                                   | no Public Assistance recorded                                                           | 0 total; 0 since its plan        | No NFIP community ID on this jurisdiction's plan row. |
| Shageluk city | City | No approved plan on record   | FMA RL 0, SRL 0; any 0                                            | no Public Assistance recorded                                                           | 1 total; no approved plan        |                                                       |
| Tanana city   | City | Expired on 2024-03-11        | FMA RL 0, SRL 0; any 0                                            | no Public Assistance recorded                                                           | 0 total; 0 since its plan        |                                                       |

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

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.

No county-level plan row in FEMA data, so there is no approval date to count from.

- 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 plan<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        | \$506,310                                   | n/a                                            | 10                                  | \$1                                              | n/a                                                | \$456,667                                                                                        | 0.0001%                                                           |                                                                                                     |                                                                                   |                                                                  |                                       |
| Coastal Flooding |                                             |                                                |                                     |                                                  |                                                    |                                                                                                  |                                                                   |                                                                                                     |                                                                                   |                                                                  | Not Applicable in NRI for this county |
| Cold Wave        | \$1,691,226,898                             | \$0                                            | 5,280                               | \$3,254                                          | \$0                                                | \$9,273,196                                                                                      | 0.000192%                                                         |                                                                                                     |                                                                                   |                                                                  |                                       |

| <b>Hazard</b>     | <b>Building exposure</b><br><i>modeled dollars</i> | <b>Agriculture exposure</b><br><i>modeled dollars</i> | <b>Population exposed</b><br><i>people</i> | <b>EAL buildings</b><br><i>modeled dollars per year</i> | <b>EAL agriculture</b><br><i>modeled dollars per year</i> | <b>Cost of expected deaths and injuries</b><br><i>FEMA's dollar value per year, not property damage</i> | <b>EAL as % of exposure</b><br><i>buildings; agriculture where noted</i> | <b>Storm Events damage since plan</b><br><i>county-coded records, property plus crops, nominal dollars</i> | <b>Zone-level damage since plan</b><br><i>property plus crops, reported for the zone</i> | <b>Public Assistance since plan</b><br><i>nominal dollars; see note</i> | <b>Note</b>                                                                                                                                                               |
|-------------------|----------------------------------------------------|-------------------------------------------------------|--------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Drought           | n/a                                                | \$0                                                   | n/a                                        | n/a                                                     | \$0                                                       | n/a                                                                                                     |                                                                          |                                                                                                            |                                                                                          |                                                                         | agriculture exposure is 0 in NRI                                                                                                                                          |
| Earthquake        | \$2,804,059,520                                    | n/a                                                   | 5,343                                      | \$511,595                                               | n/a                                                       | \$135,731                                                                                               | 0.0182%                                                                  |                                                                                                            |                                                                                          |                                                                         |                                                                                                                                                                           |
| Hail              | \$1,691,226,898                                    | \$0                                                   | 5,280                                      | \$6                                                     | \$0                                                       | under \$1                                                                                               | under 0.0001%                                                            |                                                                                                            |                                                                                          |                                                                         |                                                                                                                                                                           |
| Heat Wave         | n/a                                                | n/a                                                   | n/a                                        | n/a                                                     | n/a                                                       | n/a                                                                                                     |                                                                          |                                                                                                            |                                                                                          |                                                                         | NRI publishes no building exposure for this county                                                                                                                        |
| Ice Storm         | \$1,691,226,898                                    | n/a                                                   | 5,280                                      | \$7,671                                                 | n/a                                                       | \$1,038                                                                                                 | 0.000454%                                                                |                                                                                                            |                                                                                          |                                                                         |                                                                                                                                                                           |
| Inland Flooding   | \$1,675,668,844                                    | \$0                                                   | 561                                        | \$526,991                                               | \$0                                                       | \$50                                                                                                    | n/a (see note)                                                           |                                                                                                            |                                                                                          |                                                                         | 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         | \$71,539,788                                       | n/a                                                   | 176                                        | \$8,516                                                 | n/a                                                       | \$59,381                                                                                                | 0.0119%                                                                  |                                                                                                            |                                                                                          |                                                                         |                                                                                                                                                                           |
| Lightning         | \$1,691,226,898                                    | n/a                                                   | 5,280                                      | \$1,554                                                 | n/a                                                       | \$24,464                                                                                                | under 0.0001%                                                            |                                                                                                            |                                                                                          |                                                                         |                                                                                                                                                                           |
| Strong Wind       | \$1,691,226,898                                    | \$0                                                   | 5,280                                      | \$10                                                    | \$0                                                       | \$16                                                                                                    | under 0.0001%                                                            |                                                                                                            |                                                                                          |                                                                         |                                                                                                                                                                           |
| Tornado           | \$1,691,226,898                                    | \$0                                                   | 5,280                                      | \$1                                                     | \$0                                                       | under \$1                                                                                               | under 0.0001%                                                            |                                                                                                            |                                                                                          |                                                                         |                                                                                                                                                                           |
| Volcanic Activity | \$1,691,226,898                                    | n/a                                                   | 5,280                                      | under \$1                                               | n/a                                                       | \$4                                                                                                     | under 0.0001%                                                            |                                                                                                            |                                                                                          |                                                                         |                                                                                                                                                                           |
| Wildfire          | \$521,553,370                                      | \$0                                                   | 2,022                                      | \$1,219,394                                             | \$0                                                       | \$39,538                                                                                                | 0.234%                                                                   |                                                                                                            |                                                                                          |                                                                         |                                                                                                                                                                           |
| Winter Weather    | \$1,691,226,898                                    | \$0                                                   | 5,280                                      | \$41,948                                                | \$0                                                       | \$71,231                                                                                                | 0.00248%                                                                 |                                                                                                            |                                                                                          |                                                                         |                                                                                                                                                                           |

Totals since the plan: not available. No county-level plan row in FEMA data, so there is no approval date to count from.

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                                                                                                                                                                    | 5,280           |
| Building value (total, not at risk)                                                                                                                                           | \$1,691,226,898 |
| Agriculture value (total, not at risk)                                                                                                                                        | \$0             |
| NRI risk rating (all hazards)                                                                                                                                                 | Relatively Low  |
| Expected annual loss, buildings and agriculture, all hazards                                                                                                                  | \$2,320,942     |
| 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) | \$10,061,315    |
| Social vulnerability rating                                                                                                                                                   | Very High       |
| Community resilience rating                                                                                                                                                   | Very Low        |
| 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) | 1          |
| 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 total and NFIP communities**

Sources: 1, 4

| <b>Scope</b>          | <b>RL, FMA<br/><i>properties</i></b> | <b>SRL, FMA<br/><i>properties</i></b> | <b>RL, NFIP<br/><i>properties</i></b> | <b>SRL, NFIP<br/><i>properties</i></b> | <b>Any category<br/><i>properties</i></b> | <b>Mitigated<br/><i>properties</i></b> | <b>Currently insured<br/><i>properties</i></b> |
|-----------------------|--------------------------------------|---------------------------------------|---------------------------------------|----------------------------------------|-------------------------------------------|----------------------------------------|------------------------------------------------|
| County total          | 0                                    | 1                                     | 0                                     | 0                                      | 1                                         | 0                                      | 0                                              |
| of which: Galena city | 0                                    | 1                                     | 0                                     | 0                                      | 1                                         | 0                                      | 0                                              |

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

Sources: 1, 4

| <b>Jurisdiction</b> | <b>NFIP community ID</b> | <b>RL, FMA<br/><i>properties</i></b> | <b>SRL, FMA<br/><i>properties</i></b> | <b>RL, NFIP<br/><i>properties</i></b> | <b>SRL, NFIP<br/><i>properties</i></b> | <b>Any category<br/><i>properties</i></b> | <b>Mitigated<br/><i>properties</i></b> | <b>Currently insured<br/><i>properties</i></b> |
|---------------------|--------------------------|--------------------------------------|---------------------------------------|---------------------------------------|----------------------------------------|-------------------------------------------|----------------------------------------|------------------------------------------------|
| Fort Yukon city     | 020045                   | 0                                    | 0                                     | 0                                     | 0                                      | 0                                         | 0                                      | 0                                              |
| Galena city         | 020124                   | 0                                    | 1                                     | 0                                     | 0                                      | 1                                         | 0                                      | 0                                              |
| Grayling city       | 020048                   | 0                                    | 0                                     | 0                                     | 0                                      | 0                                         | 0                                      | 0                                              |
| Huslia city         | 020050                   | 0                                    | 0                                     | 0                                     | 0                                      | 0                                         | 0                                      | 0                                              |
| Kaltag city         | 020053                   | 0                                    | 0                                     | 0                                     | 0                                      | 0                                         | 0                                      | 0                                              |
| Koyukuk city        | 020127                   | 0                                    | 0                                     | 0                                     | 0                                      | 0                                         | 0                                      | 0                                              |
| McGrath city        | 020128                   | 0                                    | 0                                     | 0                                     | 0                                      | 0                                         | 0                                      | 0                                              |
| Nenana city         | 025010                   | 0                                    | 0                                     | 0                                     | 0                                      | 0                                         | 0                                      | 0                                              |
| Nikolai city        | 020068                   | 0                                    | 0                                     | 0                                     | 0                                      | 0                                         | 0                                      | 0                                              |
| Shageluk city       | 020082                   | 0                                    | 0                                     | 0                                     | 0                                      | 0                                         | 0                                      | 0                                              |
| Tanana city         | 020087                   | 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

Sources: 1, 4

| Occupancy group           | 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> |
|---------------------------|------------------------------|-------------------------------|-------------------------------|--------------------------------|-----------------------------------|--------------------------------|----------------------------------------|
| single-family residential | 0                            | 1                             | 0                             | 0                              | 1                                 | 0                              | 0                                      |
| 2 to 4 unit residential   | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |
| other residential         | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |
| non-residential           | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |
| not reported              | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |

FEMA's occupancy groups have no institutional class; institutional properties are counted in non-residential or other residential in the table by occupancy group.

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_Gaz_cousubs_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024\\_Gazetteer/2024\\_Gaz\\_place\\_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024\\_Gazetteer/2024\\_Gaz\\_unsd\\_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024\\_Gazetteer/2024\\_Gaz\\_elsd\\_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024\\_Gazetteer/2024\\_Gaz\\_scsd\\_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scsd_national.zip), [https://www2.census.gov/geo/docs/reference/codes2020/national\\_place\\_by\\_county2020.txt](https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt), [https://www2.census.gov/geo/docs/reference/ct\\_change/ct\\_cou\\_to\\_cousub\\_crosswalk.xlsx](https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx) (used to match place names and codes; no table prints its values)

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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 (the summary on page 1 says how it is organized); the plan and FEMA's review decide whether each 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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Cite this: Hazard Plain (2026). Yukon-Koyukuk Census Area, AK: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 02290). Automated baseline. <https://hazardplain.org/ak/02290/> 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)