

Fairbanks North Star Borough, AK

Risk-assessment baseline packet

County FIPS: 02090 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: Approved, expires 2031-08-25. Plan: Fairbanks North Star Borough and cities of Fairbanks and North Pole MJHMP (FEMA plan 111677), approved 2026-08-26.

Since the plan was approved on 2026-08-26: no new hazard declaration; details under "What changed since your last plan".

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Earthquake (\$55,385,127 a year), Cold Wave (\$19,972,293) and Wildfire (\$12,689,659).

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; 02090 is this area.

D0 to D4: U.S. Drought Monitor categories, from abnormally dry (D0) to exceptional drought (D4).

F/EF, EFU: Fujita and Enhanced Fujita tornado ratings; EFU is an unrated tornado.

kt, CONUS: knots (1 kt is about 1.15 mph); the contiguous United States.

CFR: Code of Federal Regulations.

A4-a, E1-a: other items of FEMA's Local Mitigation Plan Review Tool (sources, and changes since the last plan).

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

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Plan clock

Status:	Approved, expires 2031-08-25	Plan:	Fairbanks North Star Borough and cities of Fairbanks and North Pole MJHMP (FEMA plan 111677)
Approved:	2026-08-26	Days to expiry:	1,790

What changed since your last plan (approved 2026-08-26)

New federal declarations:	none	Storm Events records since approval:	not yet covered: Storm Events data run through 2026-06-30, before the approval date, so there is no period to count yet
Repetitive loss now:	FMA RL 1, SRL 3 (44 CFR 77.2); any definition: 12	Repeat-flood change:	this release sets the baseline count.
Sources: 1, 2, 4, 6 (numbered list at the end)			

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry negative = days since expiry	Notes
Fairbanks North Star Borough	Organized Borough	Approved, expires 2031-08-25	Fairbanks North Star Borough and cities of Fairbanks and North Pole MJHMP (FEMA plan 111677)	2026-08-26	2031-08-25	1,790	this jurisdiction approved 2026-09-14
Fairbanks city	City	Approved, expires 2031-08-25	Fairbanks North Star Borough and cities of Fairbanks and North Pole MJHMP (FEMA plan 111677)	2026-08-26	2031-08-25	1,790	this jurisdiction approved 2026-09-14
North Pole city	City	Approved, expires 2031-08-25	Fairbanks North Star Borough and cities of Fairbanks and North Pole MJHMP (FEMA plan 111677)	2026-08-26	2031-08-25	1,790	

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

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

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

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

Sources: 5, 6

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
1	Earthquake	Relatively Moderate	Relatively High	\$38,414,955	n/a	\$16,970,172	\$55,385,127		Storm Events does not record earthquakes.
2	Cold Wave	Relatively High	Very High	\$24,629	\$19,728	\$19,927,936	\$19,972,293	13	
3	Wildfire	Relatively Moderate	Relatively High	\$12,071,742	\$223	\$617,694	\$12,689,659	8	
4	Inland Flooding	Relatively Low	Relatively Low	\$7,891,228	\$126	\$411	\$7,891,765	45	
5	Landslide	Relatively High	Relatively High	\$429,430	n/a	\$2,421,087	\$2,850,517	0	Declared 1 time; no Storm Events record of this type.
6	Winter Weather	Very High	Very High	\$524,382	\$189	\$999,016	\$1,523,587	97	
7	Avalanche	Relatively Moderate	Relatively Low	under \$1	n/a	\$456,667	\$456,667	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
8	Lightning	Relatively Moderate	Relatively Moderate	\$24,667	n/a	\$427,518	\$452,185	2	
9	Ice Storm	Relatively Low	Relatively Low	\$40,177	n/a	\$18,911	\$59,088	18	
10	Strong Wind	Very Low	Very Low	\$841	\$5	\$4,137	\$4,983	80	Includes 63 High Wind and 13 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
11	Hail	Very Low	Very Low	\$1,384	\$4	\$32	\$1,419	4	
12	Volcanic Activity	Very Low	Very Low	under \$1	n/a	\$23	\$23	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
13	Tornado	Very Low	Very Low	\$1	under \$1	\$1	\$2	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Drought	No Rating	No Expected Annual Losses	n/a	\$0	n/a	\$0	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Heat Wave	Insufficient Data	Insufficient Data	n/a	n/a	n/a	n/a	0	No recorded events in Storm Events since 1996 (data through 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: coastal flooding, hurricane and tsunامي. 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 <i>NRI risk rating, score 0 to 100</i>
Avalanche	tract 19.02 (Relatively Low, 75.8); tract 19.01 (Relatively Low, 75.4); tract 17 (Relatively Low, 73.8)
Earthquake	tract 10 (Very High, 99.8); tract 1 (Very High, 99.8); tract 16 (Very High, 98.9)
Landslide	tract 19.02 (Very High, 100.0); tract 19.01 (Relatively High, 99.9); tract 17 (Relatively Moderate, 99.2)
Tornado	tract 19.01 (Very Low, 0.2); tract 19.02 (Very Low, 0.2); tract 17 (Very Low, 0.2)
Volcanic Activity	tract 9800 (Very Low, 73.6); tract 19.01 (Very Low, 70.0); tract 4 (Very Low, 69.5)
Wildfire	tract 19.02 (Very High, 99.7); tract 19.01 (Very High, 99.6); tract 13 (Very High, 99.1)

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 19.02 is Census Tract 19.02). 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 <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Avalanche	none (count and damage only)	0					
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	13 records, 2007 to 2022 (13 zone-level)	1 day to 31 days (median 4 days); 9 with a recorded value	2012-01-01 to 2012-01-31 (2 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)	4 records, 2010 to 2025 (4 zone-level)	1 in; 1 with a recorded value	1 in hail, 2025-06-19; NWS zone AKZ844		Countywide (zone-level records).	
Excessive Heat, Heat	heat index (in event narratives)	0					
Ice Storm	Sperry-Piltz ice scale (local data)	18 records, 2002 to 2021 (18 zone-level)		Ice Storm, 2013-11-13, \$2,000,000 property; \$0 crops (2013 dollars); NWS zone AKZ222		Countywide (zone-level records).	
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	45 records, 2001 to 2016 (45 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.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	76 records, 2001 to 2022 (76 zone-level)	32 kt (37 mph) to 100 kt (115 mph) (median 51 kt (59 mph)); 76 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					
Wildfire	acres burned (local data)	8 records, 2002 to 2015 (8 zone-level)		Wildfire, 2015-06-22, \$1,000,000 property; \$0 crops (2015 dollars); NWS zone AKZ221		Countywide (zone-level records).	
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	97 records, 2001 to 2026 (97 zone-level)		Winter Weather, 2015-06-01, \$400 property; \$0 crops (2015 dollars); NWS zone 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: 16 declarations covering 14 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Storm Events records since the plan: not yet covered: Storm Events data run through 2026-06-30, before the approval date, so there is no period to count yet.

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2025-07-06	2025-07-04	FM-5597-AK	Fire management	Nenana Ridge Complex	Wildfire	no Public Assistance recorded		within last 5 years
2025-06-23	2025-06-21	FM-5596-AK	Fire management	Himalaya Road Fire	Wildfire	no Public Assistance recorded		within last 5 years
2023-08-03	2023-08-02	FM-5473-AK	Fire management	Lost Horse Creek Fire	Wildfire	no Public Assistance recorded		within last 5 years
2022-03-24	2021-12-25	DR-4648-AK	Major disaster	Severe Winter Storm and Straight-Line Winds	Strong Wind; Winter Weather	\$3,124,530.07		within last 5 years
2020-04-09	2020-01-20	DR-4533-AK	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$534,098.39		
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
2019-06-28	2019-06-21	FM-5282-AK	Fire management	Shovel Creek Fire	Wildfire	no Public Assistance recorded		
2014-01-23	2013-11-05	DR-4162-AK	Major disaster	Severe Storms, Straight-Line Winds, and Flooding	Inland Flooding; Strong Wind	\$1,683,758.05		
2011-05-22	2011-05-20	FM-2909-AK	Fire management	Moose Mountain Fire	Wildfire	no Public Assistance recorded		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2008-09-26	2008-07-27	DR-1796-AK	Major disaster	Severe Storms, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide	\$222,505.15		
2004-07-01	2004-06-26	FM-2525-AK	Fire management	Boundary Fire	Wildfire	no Public Assistance recorded		
2002-11-08	2002-11-03	DR-1440-AK	Major disaster	Earthquake	Earthquake	none placed in this county by FEMA's record; \$271,766.56 for this declaration is not placed in any county (see the state page)		
2002-06-26	2002-04-27	DR-1423-AK	Major disaster	Flooding	Inland Flooding	\$34,543.72		
2000-02-17	1999-12-21	DR-1316-AK	Major disaster	Severe Winter Storms and Avalanches	Winter Weather	\$219,011.11		
1991-05-30	1991-04-15	DR-909-AK	Major disaster	Heavy Snow, Ice Jams & Flooding	Winter Weather	no Public Assistance recorded		
1989-05-10	1989-01-15	DR-826-AK	Major disaster	Severe Freezing	Cold Wave	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 filed under this county for declarations that do not list it: 10 rows, \$7,072,415.28

Sources: 2, 3

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-4730-AK	2023-08-23	Flooding	Calvarys Northern Lights Mission	\$8,592.14
DR-4646-AK	2022-03-14	Severe Winter Storm and Straight-Line Winds	University of Alaska	\$482,591.60
DR-4638-AK	2022-01-15	Severe Storms, Straight-Line Winds, Flooding, Landslides, and Mudslides	University of Alaska	\$16,549
DR-4413-AK	2019-01-31	Earthquake	University of Alaska	\$5,842,477.71
DR-4122-AK	2013-06-25	Flooding	TANANA	\$21,839.59
DR-4122-AK	2013-06-25	Flooding	HUGHES	\$20,868.86
DR-4122-AK	2013-06-25	Flooding	EAGLE	\$0
DR-1843-AK	2009-06-11	Flooding and Ice Jams	Interior Regional Housing Authority	\$0
DR-1669-AK	2006-12-08	Severe Storms, Flooding, Landslides, and Mudslides	Copper Valley Telephone Cooperative	\$646,457.74
DR-1461-AK	2003-04-26	Severe Winter Storm, Including High Winds and Freezing Temperatures	University of Alaska	\$33,038.64

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

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 <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Avalanche	0		0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	13		0	2	1	0	1996 to 2026-06-30	
Drought	0		0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Earthquake	0		0	0	1	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	4		0	2	0	0	1955 to 2026-06-30	
Heat Wave	0		0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	18		0	3	0	0	1996 to 2026-06-30	
Inland Flooding	45		0	0	3	0	1996 to 2026-06-30	

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Landslide	0		0	0	1	0	1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Lightning	2		0	1	0	0	1996 to 2026-06-30	
Strong Wind	80		0	4	2	0	1955 to 2026-06-30	Includes 63 High Wind and 13 Strong Wind records.
Tornado	0		0	0	0	0	1950 to 2026-06-30	No recorded events, 1950 to 2026-06-30, NOAA NCEI Storm Events
Volcanic Activity	0		0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	8		0	0	6	0	1996 to 2026-06-30	
Winter Weather	97		9	21	3	0	1996 to 2026-06-30	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Flags	Why listed
2025-06-19	Hail	1 in	\$0 property; \$0 crops (zone total, 2025 dollars)	0, 0	NWS zone AKZ844 (FAIRBANKS METRO AREA), zone-level	within last 5 years	B1-c worst recorded: Hail
2024-06-05	Thunderstorm Wind	43 kt (49 mph) estimated gust	\$20,000 property; \$0 crops (zone total, 2024 dollars)	0, 0	NWS zone AKZ222 (MIDDLE TANANA VALLEY), zone-level	within last 5 years	B1-c most damaging: Thunderstorm Wind
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/ 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) 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	deaths or injuries recorded
2015-06-22	Wildfire		\$1,000,000 property; \$0 crops (zone total, 2015 dollars)	0, 0	NWS zone AKZ221 (WRN TANANA VLY WRN YUKON VLY), zone-level		B1-c worst recorded: Wildfire
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) 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 AKZ221 (WRN TANANA VLY WRN YUKON VLY), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
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" (267 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 annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Avalanche	0.0333	events per year	about 1 in 30 years	Possible	FEMA annualized frequency (modeled)	1	1994 to 2023 (30 years)	see B1-f	
Cold Wave	3.37	event-days per year	about 3.37 days per year	Likely	Storm Events event-days in 7 of 30 years, 1996 to 2025 (23.3%)	64.1	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	0	event-days per year	none modeled		Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)	0	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No Storm Events drought record, 1996 to 2025
Earthquake	0.0796	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 7.96%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.000579	events per year	about 1 in 1,727 years	Unlikely	FEMA annualized frequency (modeled)	0.0 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave		event-days per year			Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)		2005-11-12 to 2024-11-12 (19 years)	countywide	No Storm Events heat wave record, 1996 to 2025
Ice Storm	0.0134	event-days per year	about 0.0134 days per year	Likely	Storm Events event-days in 8 of 30 years, 1996 to 2025 (26.7%)	1	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	0.01	event-days per year	about 0.01 days per year	Likely	Storm Events event-days in 12 of 30 years, 1996 to 2025 (40%)	0	1996 to 2023 (28 years)	see B1-f	
Landslide	11.1	events per year (modeled)	about 11.1 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	38.6	days per year with a strike	about 38.6 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.00152	events per year	about 1 in 657 years	Unlikely	FEMA annualized frequency (modeled)	1	1986 to 2023 (38 years)	countywide	
Tornado	0.000017	events per year	about 1 in 58,822 years	Unlikely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Volcanic Activity	0.0001	annual probability	about 1 in 10,000 years	Unlikely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Wildfire	0.0107	annual probability at a location	chance a given location in the county burns in a year: 1.07%	Likely	Storm Events records in 5 of 30 years, 1996 to 2025 (16.7%)	not shown	modeled	see B1-f	
Winter Weather	17	event-days per year	about 17 days per year	Likely	Storm Events event- days in 23 of 30 years, 1996 to 2025 (76.7%)	323	2005-11-12 to 2024-11-12 (19 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 <i>county-coded records</i>	Years in period	Events per year <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 <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Avalanche	4 of 22	73.8	74.6	75.8	Relatively Low 4, Not Applicable 18
Cold Wave	22 of 22	91.5	98.5	99.6	Very High 17, Relatively High 5
Drought	0 of 22				No Rating 22
Earthquake	22 of 22	76.9	95.8	99.8	Very High 8, Relatively High 11, Relatively Moderate 2, Relatively Low 1
Hail	12 of 22	0.2	1.8	13.2	Very Low 12, No Rating 10
Heat Wave	0 of 22				Insufficient Data 22
Ice Storm	22 of 22	5.6	33.2	55.7	Relatively Low 10, Very Low 12
Inland Flooding	22 of 22	2.2	28.7	55.0	Relatively Moderate 1, Relatively Low 13, Very Low 8
Landslide	22 of 22	16.3	61.5	100.0	Very High 1, Relatively High 1, Relatively Moderate 4, Relatively Low 2, Very Low 14
Lightning	22 of 22	27.2	66.1	88.2	Relatively High 4, Relatively Moderate 12, Relatively Low 6
Strong Wind	22 of 22	0.7	3.0	5.0	Very Low 22

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	5 of 22	0.2	0.2	0.2	Very Low 5, No Rating 17
Volcanic Activity	22 of 22	42.2	61.3	73.6	Very Low 22
Wildfire	22 of 22	31.2	97.4	99.7	Very High 3, Relatively High 9, Relatively Moderate 3, Relatively Low 4, Very Low 3
Winter Weather	22 of 22	86.1	99.1	99.7	Very High 21, Relatively High 1

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	Public Assistance to this jurisdiction	Event records naming this place
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	<i>all years; since its plan</i>
Fairbanks North Star Borough	Organized Borough	Approved, expires 2031-08-25	FMA RL 1, SRL 3; any 11	\$241,174.50	0 total; not yet covered
Fairbanks city	City	Approved, expires 2031-08-25	FMA RL 0, SRL 0; any 0	\$197,746.27	4 total; not yet covered
North Pole city	City	Approved, expires 2031-08-25	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	5 total; not yet covered

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.

- 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 <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2026-08-26 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Avalanche	\$680	n/a	10	under \$1	n/a	\$456,667	0.0001%				
Cold Wave	\$27,053,273,466	\$13,380,017	95,579	\$24,629	\$19,728	\$19,927,936	under 0.0001%				
Drought	n/a	\$0	n/a	n/a	\$0	n/a					agriculture exposure is 0 in NRI
Earthquake	\$48,136,775,121	n/a	95,655	\$38,414,955	n/a	\$16,970,172	0.0798%				
Hail	\$27,053,273,466	\$13,380,017	95,579	\$1,384	\$4	\$32	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	\$27,027,755,698	n/a	95,539	\$40,177	n/a	\$18,911	0.000149%				
Inland Flooding	\$27,009,914,329	\$7,075,803	4,592	\$7,891,228	\$126	\$411	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	\$1,184,150,667	n/a	4,997	\$429,430	n/a	\$2,421,087	0.0363%				
Lightning	\$27,053,273,466	n/a	95,579	\$24,667	n/a	\$427,518	under 0.0001%				
Strong Wind	\$27,053,273,466	\$13,380,017	95,579	\$841	\$5	\$4,137	under 0.0001%				
Tornado	\$27,053,273,466	\$13,380,017	95,579	\$1	under \$1	\$1	under 0.0001%				
Volcanic Activity	\$27,053,273,466	n/a	95,579	under \$1	n/a	\$23	under 0.0001%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2026-08-26 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Wildfire	\$4,879,770,583	\$5,159,789	26,130	\$12,071,742	\$223	\$617,694	0.247%				
Winter Weather	\$27,053,273,466	\$13,380,017	95,579	\$524,382	\$189	\$999,016	0.00194%				

Totals since 2026-08-26: Storm Events not yet covered: Storm Events data run through 2026-06-30, before the approval date, so there is no period to count yet; Public Assistance: no counted declaration since the plan.

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	95,579
Building value (total, not at risk)	\$27,053,273,466
Agriculture value (total, not at risk)	\$13,380,017
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$59,443,712
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)	\$41,843,603
Social vulnerability rating	Very Low
Community resilience rating	Relatively 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)	1	Severe repetitive loss, FMA definition (44 CFR 77.2)	3
Repetitive loss, NFIP insurance definition	11	Severe repetitive loss, NFIP insurance definition	2

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

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	1	3	11	2	12	1	2
of which: Fairbanks North Star Borough	1	3	10	2	11	1	2
of which: Unknown (community ID Unknown in FEMA data)	0	0	1	0	1	0	0

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

Sources: 1, 4

Jurisdiction	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
Fairbanks North Star Borough	025009	1	3	10	2	11	1	2
Fairbanks city	020126	0	0	0	0	0	0	0
North Pole city	025064	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 <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	1	3	11	2	12	1	2
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 10 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)
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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 (download, 25 MB), 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_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/ct_change/ct_cou_to_cousub_crosswalk.xlsx (used to match place names and codes; no table prints its values)

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