

Kusilvak Census Area, AK

Risk-assessment baseline packet

County FIPS: 02158 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 (\$10,653,731 a year), Winter Weather (\$149,972) and Earthquake (\$23,629).

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; 02158 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

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

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway
Alakanuk city	City	Approved, expires 2026-10-18	Alakanuk City and Village MJHMP (FEMA plan 107452)	2021-10-19	2026-10-18	18	FEMA tracker shows a plan in progress
Chevak city	City	Expired on 2023-10-04	Chevak HMP (FEMA plan 105155)	2018-10-05	2023-10-04	-1,092	FEMA tracker shows a plan in progress
Emmonak city	City	Approved, expires 2028-03-14	Emmonak HMP (FEMA plan 108560)	2023-03-15	2028-03-14	531	
Hooper Bay city	City	Approved, expires 2030-02-02	Hooper Bay Native Village and City, and Native Village of Paimiut MJHMP (FEMA plan 109160)	2025-02-03	2030-02-02	1,221	
Kotlik city	City	Expired on 2024-08-29	Kotlik City and Village MJHMP (FEMA plan 105791)	2019-08-30	2024-08-29	-762	FEMA tracker shows a plan in progress
Marshall city	City	Expired on 2019-11-06	Marshall HMP (FEMA plan 100694)	2014-11-06	2019-11-06	-2,520	
Mountain Village city	City	No approved plan on record	none	none	none		FEMA tracker shows a plan in progress
Nunam Iqua city	City	Expired on 2022-08-22	Nunam Iqua HMP (FEMA plan 102819)	2017-08-23	2022-08-22	-1,500	FEMA tracker shows a plan in progress
Pilot Station city	City	Expired on 2024-01-23	Pilot Station HMP (FEMA plan 105094)	2019-01-24	2024-01-23	-981	
Russian Mission city	City	Expired on 2018-10-18	Russian Mission HMP (FEMA plan 25120)	2013-10-18	2018-10-18	-2,904	
Scammon Bay city	City	Expired on 2018-11-01	Scammon Bay HMP (FEMA plan 25124)	2013-11-01	2018-11-01	-2,890	FEMA tracker shows a plan in progress
St. Mary's city	City	Expired on 2024-03-25	Saint Mary's City and Native Village MJHMP (FEMA plan 105242)	2019-03-26	2024-03-25	-919	

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 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	Cold Wave	Relatively High	Relatively High	\$1,362	\$0	\$10,652,369	\$10,653,731	10	
2	Winter Weather	Relatively Moderate	Relatively Moderate	\$26,973	\$0	\$123,000	\$149,972	327	
3	Earthquake	Very Low	Very Low	\$18,361	n/a	\$5,268	\$23,629		Storm Events does not record earthquakes.
4	Wildfire	Very Low	Very Low	\$18,664	\$0	\$2,718	\$21,381	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
5	Landslide	Relatively Low	Relatively Low	\$121	n/a	\$12,412	\$12,534	0	Declared 1 time; no Storm Events record of this type.
6	Lightning	Very Low	Very Low	\$245	n/a	\$9,347	\$9,592	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
7	Ice Storm	Very Low	Very Low	\$873	n/a	\$570	\$1,443	13	
8	Tornado	Very Low	Very Low	\$16	\$0	\$21	\$36	2	
9	Avalanche	Very Low	Very Low	\$0	n/a	\$14	\$14	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
10	Volcanic Activity	Very Low	Very Low	under \$1	n/a	\$2	\$2	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
11	Strong Wind	Very Low	Very Low	under \$1	\$0	under \$1	under \$1	65	Includes 60 High Wind and 2 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
12	Hail	Very Low	Very Low	under \$1	\$0	under \$1	under \$1	1	
13	Coastal Flooding	No Rating	No Expected Annual Losses	\$0	n/a	\$0	\$0	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).

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
15	Inland Flooding	No Rating	No Expected Annual Losses	\$0	\$0	\$0	\$0	36	
	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).
	Tsunami	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 wildfire, landslide, lightning, volcanic activity, heat wave and tsunami 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. 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.

Coastal Flooding and 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.

NRI rating of the county's single census tract

Source: 5

Hazard	Census tract <i>NRI risk rating, score 0 to 100</i>
Avalanche	tract 1 (Very Low, 7.4)
Earthquake	tract 1 (Relatively Low, 57.5)
Landslide	tract 1 (Relatively Moderate, 98.7)
Tornado	tract 1 (Very Low, 0.6)
Tsunami	no tract has a National Risk Index rating for this hazard
Volcanic Activity	tract 1 (Very Low, 78.9)
Wildfire	tract 1 (Relatively Moderate, 91.0)

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 <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					
Coastal Flood, Storm Surge/Tide	none in data (flood depth: FIRM)	30 records, 2002 to 2025 (30 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	10 records, 1999 to 2022 (10 zone-level)	1 day to 4 days (median 2 days); 9 with a recorded value	4 consecutive days, 2022-02-05 to 2022-02-08, 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)	1 record, 2018 (1 zone-level)		No hail record can stand as this county's largest: the 1 record 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); it is counted as an occurrence.		Countywide (zone-level records).	
Excessive Heat, Heat	heat index (in event narratives)	0					
Ice Storm	Sperry-Piltz ice scale (local data)	13 records, 2000 to 2019 (13 zone-level)		No damage reported in 13 records.		Countywide (zone-level records).	

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	36 records, 2001 to 2026 (36 zone-level)		Flood, 2009-05-07, \$2,600,000 property; \$0 crops (2009 dollars); NWS zone AKZ155		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)	0					Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	62 records, 1997 to 2025 (62 zone-level)	40 kt (46 mph) to 93 kt (107 mph) (median 56 kt (64 mph)); 62 with a recorded value	93 kt (107 mph) measured gust, High Wind, 2025-10-11; NWS zone AKZ825		Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	3 records, 2007 to 2008 (3 zone-level)		No thunderstorm wind record can stand as this county's strongest: the 3 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.		Countywide (zone-level records).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	2 records, 2004 (2 zone-level)		No tornado record can stand as this county's worst: the 2 records reached this county only through an NWS zone that covers more than one county, so the tornado may have occurred outside this county (zone-level); they are counted as occurrences.		Countywide (zone-level records).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).
Tsunami	none (count and damage only)	0					
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Wildfire	acres burned (local data)	0					
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	327 records, 1997 to 2026 (327 zone- level)		Blizzard, 2009-02-25, \$200,000 property; \$0 crops (2009 dollars); NWS zone AKZ155		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, tsunami 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.

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 11 declarations covering 9 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

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 began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2025-10-22	2025-10-08	DR-4893-AK	Major disaster	Severe Storms, Flooding, and Remnants of Typhoon Halong	Inland Flooding (primary); also designated: Strong 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 last 5 years	part of county; Wade Hampton CA AK renamed Kusilvak CA, code changed 2015-07-01
2023-08-23	2023-05-12	DR-4730-AK	Major disaster	Flooding	Inland Flooding	\$862,908.18	within last 5 years	FEMA's declaration record does not list Public Assistance, but FEMA's PA project summaries show obligations for this county
2022-09-23	2022-09-15	DR-4672-AK	Major disaster	Severe Storm, Flooding, and Landslides	Inland Flooding; Landslide	\$26,138,866.34	within last 5 years	part of county; Wade Hampton CA AK renamed Kusilvak CA, code changed 2015-07-01
2020-04-09	2020-01-20	DR-4533-AK	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$238,056.19		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
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; Wade Hampton CA AK renamed Kusilvak CA, code changed 2015-07-01
2005-12-09	2005-09-22	DR-1618-AK	Major disaster	Severe Fall Storm, Tidal Surges, and Flooding	Inland Flooding	no Public Assistance recorded		part of county; Wade Hampton CA AK renamed Kusilvak CA, code changed 2015-07-01
2004-11-15	2004-10-18	DR-1571-AK	Major disaster	Severe Winter Storm, Tidal Surges and Flooding	Inland Flooding; Winter Weather	\$169,605.50		part of county; Wade Hampton CA AK renamed Kusilvak CA, code changed 2015-07-01
2002-06-26	2002-04-27	DR-1423-AK	Major disaster	Flooding	Inland Flooding	\$217,190.22		Wade Hampton CA AK renamed Kusilvak CA, code changed 2015-07-01
2000-02-17	1999-12-21	DR-1316-AK	Major disaster	Severe Winter Storms and Avalanches	Winter Weather	none placed in this county by FEMA's record; \$49,077.34 for this declaration is not placed in any county (see the state page)		Wade Hampton CA AK renamed Kusilvak CA, code changed 2015-07-01

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
1989-06-10	1989-05-01	DR-832-AK	Major disaster	Flooding	Inland Flooding	no Public Assistance recorded		Wade Hampton CA AK renamed Kusilvak CA, code changed 2015-07-01
1989-05-10	1989-01-15	DR-826-AK	Major disaster	Severe Freezing	Cold Wave	no Public Assistance recorded		Wade Hampton CA AK renamed Kusilvak CA, code changed 2015-07-01

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: 1 row, \$105,277.24

Sources: 2, 3

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-4162-AK	2014-01-23	Severe Storms, Straight-Line Winds, and Flooding	Scammon Bay, City of	\$105,277.24

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		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Coastal Flooding	30			6	0		1996 to 2026-06-30	
Cold Wave	10			5	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	0			Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	1			0	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
Ice Storm	13			0	0		1996 to 2026-06-30	
Inland Flooding	36			9	7		1996 to 2026-06-30	
Landslide	0			0	1		1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Lightning	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Strong Wind	65			11	1		1955 to 2026-06-30	Includes 60 High Wind and 2 Strong Wind records.
Tornado	2			0	0		1950 to 2026-06-30	
Tsunami	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Volcanic Activity	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	0			0	0		1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Winter Weather	327			48	2		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
2025-10-11	High Wind	93 kt (107 mph) measured gust	\$100,000 property; crops not reported (zone total, 2025 dollars)	0, 0	NWS zone AKZ825 (YUKON DELTA COAST), zone-level	within last 5 years	B1-c worst recorded: High Wind and Strong Wind
2022-02-05	Cold/Wind Chill		\$0 property; \$0 crops (zone total, 2022 dollars)	0, 0	NWS zone AKZ155 (KUSKOKWIM DELTA), zone-level	within last 5 years	B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2011-01-23	Blizzard		\$0 property; \$0 crops (zone total, 2011 dollars)	1, 0	NWS zone AKZ155 (KUSKOKWIM DELTA), zone-level		deaths or injuries recorded
2009-05-07	Flood		\$2,600,000 property; \$0 crops (zone total, 2009 dollars)	0, 0	NWS zone AKZ155 (KUSKOKWIM DELTA), zone-level		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2009-02-25	Blizzard		\$200,000 property; \$0 crops (zone total, 2009 dollars)	0, 0	NWS zone AKZ155 (KUSKOKWIM DELTA), zone-level		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2004-10-19	Storm Surge/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

The full list is in the Excel file, sheet "B1-d Storm Events history" (484 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	0.01	events per year	about 1 in 100 years	Possible	FEMA annualized frequency (modeled)	0	1994 to 2023 (30 years)	see B1-f	0.01 is NRI's minimum avalanche frequency for a county in an avalanche susceptibility zone; NRI records no avalanche here, so the descriptor reflects the floor, not local events.
Coastal Flooding	0	events per year at a location (modeled)	none modeled	Likely	Storm Events records in 16 of 30 years, 1996 to 2025 (53.3%)	not shown	modeled	see B1-f	NRI models no coastal flooding event-days here (modeled); Storm Events has a record in 16 of 30 years. The descriptor comes from Storm Events, which records events NRI's definition leaves out.
Cold Wave	3.76	event-days per year	about 3.76 days per year	Likely	Storm Events event-days in 4 of 30 years, 1996 to 2025 (13.3%)	65.2	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	0.00272	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.272%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.0000363	events per year	about 1 in 27,541 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	0.0149	event-days per year	about 0.0149 days per year	Likely	Storm Events event-days in 7 of 30 years, 1996 to 2025 (23.3%)	0	1946-12-31 to 2014-02-12 (67 years)	countywide	

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
Inland Flooding	0	event-days per year	none modeled	Likely	Storm Events event-days in 14 of 30 years, 1996 to 2025 (46.7%)	0	1996 to 2023 (28 years)	see B1-f	NRI models no inland flooding event- days here (1996 to 2023, 28 years); Storm Events has a record in 14 of 30 years. The descriptor comes from Storm Events, which records events NRI's definition leaves out.
Landslide	0.0681	events per year (modeled)	about 1 in 15 years	Possible	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	14.7	days per year with a strike	about 14.7 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.0000571	events per year	about 1 in 17,520 years	Unlikely	FEMA annualized frequency (modeled)	1	1986 to 2023 (38 years)	countywide	
Tornado	0.00941	events per year	about 1 in 106 years	Unlikely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Tsunami		annual probability at the most exposed location (used in place of a county value)			Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No descriptor: no Storm Events record 1996 to 2025
Volcanic Activity	0.0002	annual probability	about 1 in 5,000 years	Unlikely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Wildfire	0.000926	annual probability at a location	chance a given location in the county burns in a year: 0.0926%		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No descriptor: no Storm Events record 1996 to 2025
Winter Weather	27.7	event-days per year	about 27.7 days per year	Highly likely	Storm Events event-days in 29 of 30 years, 1996 to 2025 (96.7%)	484	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

NRI risk score of the county's single census tract

Source: 5

Hazard	Tract score <i>NRI score, 0 to 100</i>	Rating
Avalanche	7.4	Very Low
Coastal Flooding		No Rating
Cold Wave	100.0	Very High
Drought		No Rating
Earthquake	57.5	Relatively Low
Hail	0.2	Very Low
Heat Wave		Insufficient Data
Ice Storm	33.0	Very Low
Inland Flooding		No Rating
Landslide	98.7	Relatively Moderate
Lightning	62.2	Relatively Moderate
Strong Wind	0.2	Very Low
Tornado	0.6	Very Low
Tsunami		Insufficient Data
Volcanic Activity	78.9	Very Low
Wildfire	91.0	Relatively Moderate
Winter Weather	100.0	Very High

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.

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance to this jurisdiction <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since its plan</i>	Notes
Alakanuk city	City	Approved, expires 2026-10-18		\$4,162,225.67	6 total; 3 since its plan	No NFIP community ID on this jurisdiction's plan row.
Chevak city	City	Expired on 2023-10-04		\$238,056.19	0 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row. Includes \$238,056.19 for declarations not counted as hazard incidents (DR-4533-AK).
Emmonak city	City	Approved, expires 2028-03-14	FMA RL 0, SRL 0; any 0	\$7,747,680.76	6 total; 2 since its plan	
Hooper Bay city	City	Approved, expires 2030-02-02		\$22,363,352.13	0 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.
Kotlik city	City	Expired on 2024-08-29		\$5,246,084.92	1 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.
Marshall city	City	Expired on 2019-11-06		no Public Assistance recorded	2 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.
Mountain Village city	City	No approved plan on record		no Public Assistance recorded	0 total; no approved plan	No NFIP community ID on this jurisdiction's plan row.
Nunam Iqua city	City	Expired on 2022-08-22		\$1,925,850.51	0 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.
Pilot Station city	City	Expired on 2024-01-23		no Public Assistance recorded	2 total; 2 since its plan	No NFIP community ID on this jurisdiction's plan row.
Russian Mission city	City	Expired on 2018-10-18		no Public Assistance recorded	3 total; 2 since its plan	No NFIP community ID on this jurisdiction's plan row.
Scammon Bay city	City	Expired on 2018-11-01		\$207,407.27	0 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.
St. Mary's city	City	Expired on 2024-03-25		no Public Assistance recorded	0 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.

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

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 <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 plan <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	\$0	n/a	under 1	\$0	n/a	\$14					building exposure is 0 in NRI
Coastal Flooding	\$0	n/a	0	\$0	n/a	\$0					building exposure is 0 in NRI
Cold Wave	\$968,728,466	\$0	8,356	\$1,362	\$0	\$10,652,369	0.000141%				
Drought	n/a	\$0	n/a	n/a	\$0	n/a					agriculture exposure is 0 in NRI
Earthquake	\$1,598,282,686	n/a	8,368	\$18,361	n/a	\$5,268	0.00115%				
Hail	\$968,728,466	\$0	8,356	under \$1	\$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	\$968,728,466	n/a	8,356	\$873	n/a	\$570	under 0.0001%				
Inland Flooding	\$0	\$0	0	\$0	\$0	\$0	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	\$54,734,267	n/a	452	\$121	n/a	\$12,412	0.000222%				
Lightning	\$968,728,466	n/a	8,356	\$245	n/a	\$9,347	under 0.0001%				
Strong Wind	\$968,728,466	\$0	8,356	under \$1	\$0	under \$1	under 0.0001%				
Tornado	\$968,728,466	\$0	8,356	\$16	\$0	\$21	under 0.0001%				
Tsunami	n/a	n/a	n/a	n/a	n/a	n/a					NRI publishes no building exposure for this county
Volcanic Activity	\$968,728,466	n/a	8,356	under \$1	n/a	\$2	under 0.0001%				
Wildfire	\$91,501,848	\$0	1,567	\$18,664	\$0	\$2,718	0.0204%				
Winter Weather	\$968,728,466	\$0	8,356	\$26,973	\$0	\$123,000	0.00278%				

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	8,356
Building value (total, not at risk)	\$968,728,466
Agriculture value (total, not at risk)	\$0
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$66,615
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)	\$10,805,719
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)	0
Repetitive loss, NFIP insurance definition	0	Severe repetitive loss, NFIP insurance definition	0

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

Repeat-flood properties: county 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	0	0	0	0	0	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>
Emmonak city	020125	0	0	0	0	0	0	0

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

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

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

Sources: 1, 4

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

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

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

Exact counts; no count suppression.

Sources

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

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-29T134039Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-29T162832Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-30, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (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_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_Gazetteer/2024_Gaz_elsd_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