

Matanuska-Susitna Borough, AK

Risk-assessment baseline packet

Unit **County area 02170** Release **2026-10** As of **2026-09-28** 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.

A starting point for the plan's risk assessment (FEMA Local Mitigation Plan Review Tool, Element B). It does not replace local data or FEMA review. Section headings say which FEMA review item each table supports; whether an item is satisfied is decided by the plan and its reviewers.

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).

Plan clock

Status	Expired on 2026-02-25	Plan	Matanuska-Susitna Borough HMP (FEMA plan 106632)
Approved	2021-02-26	Expires	2026-02-25
As of	2026-09-28	Days	215 days since expiry
Update underway	FEMA tracker shows a plan in progress		

Generally not eligible for FEMA mitigation project grants (HMGP, FMA) until a new plan is approved, barring a 44 CFR 201.6(a)(3) exception. Planning grants are not affected.

What changed since your last plan (approved 2021-02-26)

New federal declarations	DR-4646-AK, DR-4904-AK (2 declaration rows; 2 counted incidents)	Storm Events records since approval	103 (data through 2026-06-30)
Repetitive loss now	FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 4	Repeat-flood change	First release: no prior release to compare.

SOURCES: FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API); FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API); NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>; FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

Plan status for every jurisdiction listed in this county

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Matanuska-Susitna Borough	Organized Borough	Expired on 2026-02-25	Matanuska-Susitna Borough HMP (FEMA plan 106632)	2021-02-26	2026-02-25	-215	FEMA tracker shows a plan in progress	
Houston city	City	Expired on 2023-04-23	Houston HMP (FEMA plan 104751)	2018-04-24	2023-04-23	-1,254		
Palmer city	City	No approved plan on record	none	none	none		FEMA tracker shows a plan in progress	
Wasilla city	City	Approved, expires 2028-10-16	Wasilla LHMP (FEMA plan 109168)	2023-10-17	2028-10-16	749		

SOURCE: FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

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

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Supports B1-a: hazards

Hazards NRI does not cover: check locally

- 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)

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings modeled dollars per year	EAL agriculture modeled dollars per year	EAL population equivalence statistical value of life and injury, \$13.7M per life, not property damage	EAL total (see note) modeled dollars per year	Storm Events records since 1996 count	Evidence for an omission NRI Not Applicable, no declaration and no Storm Events record since 1996	Storm Events coverage note
1	Earthquake	Relatively High	Relatively High	\$101,843,082		\$28,732,317	\$130,575,399			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
2	Avalanche	Very High	Very High	\$2,040		\$15,415,851	\$15,417,892	25		
3	Inland Flooding	Relatively Low	Relatively Low	\$8,157,085	\$0	\$2,071	\$8,159,156	59		
4	Wildfire	Relatively Moderate	Relatively Moderate	\$3,654,848	\$0	\$136,774	\$3,791,622	11		
5	Cold Wave	Relatively Low	Relatively Moderate	\$10,808	\$0	\$1,749,331	\$1,760,140	6		
6	Winter Weather	Relatively High	Relatively High	\$231,868	\$0	\$388,373	\$620,241	165		
7	Lightning	Relatively Low	Relatively Moderate	\$20,288		\$309,117	\$329,405	1		
8	Landslide	Relatively Moderate	Relatively Moderate	\$167,243		\$136,822	\$304,065	0		Declared 2 times; no Storm Events record of this type. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.

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>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
9	Tsunami	Very Low	Very Low	\$55,953		\$0	\$55,953	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
10	Ice Storm	Very Low	Very Low	\$185		\$14,029	\$14,214	14		
11	Hail	Very Low	Very Low	\$6,663	\$0	\$854	\$7,517	7		
12	Volcanic Activity	Very Low	Very Low	\$4		\$911	\$915	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
13	Tornado	Very Low	Very Low	\$6	\$0	\$1	\$7	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Coastal Flooding	No Rating	No Expected Annual Losses	\$0		\$0	\$0	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
15	Drought	No Rating	No Expected Annual Losses		\$0		\$0	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
16	Strong Wind	No Rating	No Expected Annual Losses	\$0	\$0	\$0	\$0	112		Includes 112 High Wind records, event types the NRI definition of this hazard leaves out.
	Heat Wave	Insufficient Data	Insufficient Data					0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	Hurricane	Not Applicable	Not Applicable					0	NRI rates hurricane Not Applicable for this county, and no federal declaration for this county names it.	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).

SOURCES

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)
 NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Check your state hazard mitigation plan's hazard list for this county; explain any hazard you drop.

Supports B1-b: location

Where each hazard occurs

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Avalanche	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	7 of 24
Coastal 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.	0 of 24
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	24 of 24
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	0 of 24
Earthquake	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	24 of 24
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	24 of 24
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	0 of 24
Hurricane	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 24
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	24 of 24
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.	24 of 24
Landslide	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	24 of 24
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	24 of 24
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	0 of 24
Tornado	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	8 of 24
Tsunami	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	4 of 24
Volcanic Activity	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	15 of 24
Wildfire	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	24 of 24
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	24 of 24

SOURCE
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)

Supports B1-c: extent

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

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Avalanche	none (count and damage)	25, 2000 to 2024 (25 zone-level)		Avalanche, 2003-02-06, \$10,000 property; crops not reported, reported for the zone (2003 dollars); NWS zone AKZ145 (SUSITNA VALLEY), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Physical measure: in event narratives only; local data required.
Coastal Flood, Storm Surge/ Tide	none in data (FIRM for depth)	0					Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	6, 2006 to 2022 (6 zone-level)	2 days to 31 days (median 9.5 days); 4 with a recorded value	31 days, 2012-01-01 to 2012-01-31, from 1 monthly summary record (a monthly summary record covers most or all of a month; it does not count days at wave conditions), zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Wind chill: in event narratives only; local data required.
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	0					Temperature: in event narratives only; local data required.
Drought	US Drought Monitor D-scale	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					No Storm Events record; local data required (e.g., USGS).

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Hail	hail size (inches)	7, 2004 to 2015 (7 zone- level)		No hail record can stand as this county's largest: the 7 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.		Zone-level records: applies countywide; national data do not locate these events within the county.	
Excessive Heat, Heat	heat index (narratives)	0					Heat index: in event narratives only; local data required.
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's event type and category, so a Hurricane (Typhoon) record, especially an inland or remnant one, does not by itself mean hurricane-force winds here; read the damage and wind columns.
Ice Storm	Sperry-Piltz (local data)	14, 2001 to 2019 (14 zone- level)		Ice Storm, 2013-11-22, \$30,000 property; \$0 crops, reported for the zone (2013 dollars); NWS zone AKZ111 (MATANUSKA VALLEY), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Ice thickness: in event narratives only; local data required.
Flash Flood, Flood, Lakeshore Flood	damage and flood days (FIRM for depth)	59, 2001 to 2025 (59 zone- level)		Flood, 2006-08-18, \$20,000,000 property; crops not reported, reported for the zone (2006 dollars); NWS zone AKZ145 (SUSITNA VALLEY), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage can be \$0 or blank even for a major flood, so the worst record here may not be the worst flood; compare FEMA Public Assistance by declaration in B1-d.
Debris Flow	none (count and damage)	0					Physical measure: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	1, 2015 to 2015 (1 zone-level)		Lightning, 2015-04-16, \$2,000 property; \$0 crops, reported for the zone (2015 dollars); NWS zone AKZ111 (MATANUSKA VALLEY), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	112, 2000 to 2026 (112 zone-level)	39 kt (45 mph) to 91 kt (105 mph) (median 63.5 kt (73 mph)); 112 with a recorded value	91 kt (105 mph) measured gust, High Wind, 2020-09-04; NWS zone AKZ227 (UPPER KUSKOKWIM VALLEY), zone-level: may include parts of neighboring counties	High Wind, 2003-03-12, \$4,000,000 property; crops not reported, reported for the zone (2003 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	0					
Tornado	Enhanced Fujita (F before Feb 2007)	0					From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes.
Tsunami	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Wildfire	acres burned (local data)	11, 2010 to 2026 (11 zone- level)		Wildfire, 2010-05-28, \$1,500,000 property; \$0 crops, reported for the zone (2010 dollars); NWS zone AKZ227 (UPPER KUSKOKWIM VALLEY), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Acres burned: in event narratives only; local data required.
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall local)	165, 2001 to 2026 (165 zone-level)		Winter Weather, 2006-02-10, \$10,000 property; crops not reported, reported for the zone (2006 dollars), 1 direct injury (reported for the zone); NWS zone AKZ111 (MATANUSKA VALLEY), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Snow depth: in event narratives only; local data required.

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records are placed with NWS zone-county files, which exist from 2020 on; an earlier record is placed by its zone number in the nearest later file only when its zone name matches that file, records from zones NWS renumbered are placed by name or left out, and a record whose zone is in no known file is left out of every count, so counts before 2020 can be low. Some current zones are also missing from the NWS files, so recent counts can be low too.

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

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

Supports B1-d: previous occurrences

Declaration rows20

Counted incidents17

Federal disaster declarations for this county

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags
2026-04-07	2025-12-06	DR-4904-AK	Major disaster	SEVERE STORM	Winter Weather	\$28,600.85	new since last plan; within last 5 years

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	
						<i>federal share obligated, nominal dollars</i>	Flags
2022-03-14	2022-01-01	DR-4646-AK	Major disaster	SEVERE WINTER STORM AND STRAIGHT-LINE WINDS	Strong Wind; Winter Weather	\$4,199,275.38	new since last plan; within last 5 years
2020-04-09	2020-01-20	DR-4533-AK	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$978,683.88	during plan review, check whether your last plan included it
2020-03-13	2020-01-20	EM-3446-AK	Emergency	COVID-19	Non-natural, not counted	none found	during plan review, check whether your last plan included it
2019-08-22	2019-08-17	FM-5290-AK	Fire management	DESHKA LANDING FIRE	Wildfire	none found	
2019-08-20	2019-08-17	FM-5287-AK	Fire management	MCKINLEY FIRE	Wildfire	none found	
2019-01-31	2018-11-30	DR-4413-AK	Major disaster	EARTHQUAKE	Earthquake	\$26,505,301.58	
2018-11-30	2018-11-30	EM-3410-AK	Emergency	EARTHQUAKE	Earthquake	none found	
2018-09-05	2018-05-11	DR-4391-AK	Major disaster	FLOODING	Inland Flooding	none found	
2015-06-15	2015-06-15	FM-5084-AK	Fire management	SOCKEYE FIRE	Wildfire	none found	
2012-11-27	2012-09-15	DR-4094-AK	Major disaster	SEVERE STORM, STRAIGHT-LINE WINDS, FLOODING, AND LANDSLIDES	Inland Flooding; Landslide; Strong Wind	\$2,123,054.84	
2009-06-11	2009-04-28	DR-1843-AK	Major disaster	FLOODING AND ICE JAMS	Inland Flooding	none placed in this county by FEMA's record; \$7,191,849.76 for this declaration is not placed in any county (see the list below)	

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags
2006-10-16	2006-08-15	DR-1663-AK	Major disaster	SEVERE STORMS, FLOODING, LANDSLIDES, AND MUDSLIDES	Inland Flooding; Landslide	\$1,243,955.76	
2003-04-26	2003-03-06	DR-1461-AK	Major disaster	SEVERE WINTER STORM, INCLUDING HIGH WINDS AND FREEZING TEMPERATURES	Strong Wind; Winter Weather	\$705,915.86	
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 list below)	
2002-06-26	2002-04-27	DR-1423-AK	Major disaster	FLOODING	Inland Flooding	none placed in this county by FEMA's record; \$18,435.75 for this declaration is not placed in any county (see the list below)	
2000-02-17	1999-12-21	DR-1316-AK	Major disaster	SEVERE WINTER STORMS AND AVALANCHES	Winter Weather	\$371,121.92	
1996-06-07	1996-06-02	DR-1119-AK	Major disaster	WILDLAND FIRES	Wildfire	none found	
1995-10-13	1995-09-18	DR-1072-AK	Major disaster	FLOODING	Inland Flooding	none found	
1986-10-27	1986-10-10	DR-782-AK	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found	

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.

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

SOURCES

FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Statewide declarations

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	Flags	Notes
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. Listed on every county page in the state; not counted with county rows.

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.

SOURCEFEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)**Public Assistance not placed in a county in this state: 40 rows, \$21,127,378.43**

Disaster number	Declared	Applicant	County field in FEMA data	PA obligated <i>federal share obligated, nominal dollars</i>	Why not placed
4893	2025-10-22	Lower Kuskokwim School District	Lower Yukon REAA	\$32,506.06	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
4893	2025-10-22	Asa's carsarmiut Tribal Council	Lower Yukon REAA	\$7,501.69	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
4893	2025-10-22	Native Village of Umkumiut	Lower Kuskokwim REAA	\$49,119.27	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
4730	2023-08-23	Copper Valley Community Library Association	Valdez-Cordova Census Area	\$114,548.99	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
4730	2023-08-23	Glennallen Improvement Corporation	Copper River REAA	\$162,356.68	the applicant is in Copper River Census Area, but FEMA's declaration rows for disaster 4730 do not list that county (Alaska school-area designations carry another county code)
4730	2023-08-23	Glenn Rich Fire Rescue	Copper River REAA	\$109,213.21	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
4672	2022-09-23	Lower Kuskokwim School District	Lower Yukon REAA	\$15,922.97	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
4672	2022-09-23	Kashunamiut School District	Kashunamiut REAA	\$2,635.55	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
4672	2022-09-23	Bering Strait School District	Bering Strait School REAA	\$2,122,815.26	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
4667	2022-08-26	Middle Kuskokwim Corporation	Kuspuk REAA	\$67,935.68	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
4667	2022-08-26	McGrath, City of	Iditarod REAA	\$222,684.32	the applicant is in Yukon-Koyukuk Census Area, but FEMA's declaration rows for disaster 4667 do not list that county (Alaska school-area designations carry another county code)
4667	2022-08-26	Gulkana Village Council	Copper River REAA	\$1,249,100.93	the applicant is in Copper River Census Area, but FEMA's declaration rows for disaster 4667 do not list that county (Alaska school-area designations carry another county code)
4667	2022-08-26	Glennallen Improvement Corporation	Copper River REAA	\$11,717.17	the applicant is in Copper River Census Area, but FEMA's declaration rows for disaster 4667 do not list that county (Alaska school-area designations carry another county code)
4585	2021-02-17	Tenakee Springs, City of	Chatham REAA	\$795,039.65	the applicant is in Hoonah-Angoon Census Area, but FEMA's declaration rows for disaster 4585 do not list that county (Alaska school-area designations carry another county code)
4585	2021-02-17	Gustavus, City of	Chatham REAA	\$229,458.28	the applicant is in Hoonah-Angoon Census Area, but FEMA's declaration rows for disaster 4585 do not list that county (Alaska school-area designations carry another county code)
4533	2020-04-09	Chatham School District	Chatham REAA	\$80,467.23	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
4162	2014-01-23	Nunam Iqua, City of	Lower Yukon REAA	\$1,866,556.54	the applicant is in Kusilvak Census Area, but FEMA's declaration rows for disaster 4162 do not list that county (Alaska school-area designations carry another county code)
4162	2014-01-23	Kotlik, City of	Lower Yukon REAA	\$4,824,479.44	the applicant is in Kusilvak Census Area, but FEMA's declaration rows for disaster 4162 do not list that county (Alaska school-area designations carry another county code)
4162	2014-01-23	KOTLIK (ANV/ANVSA)	Lower Yukon REAA	\$731,527.49	the applicant is in Kusilvak Census Area, but FEMA's declaration rows for disaster 4162 do not list that county (Alaska school-area designations carry another county code)

Disaster number	Declared	Applicant	County field in FEMA data	PA obligated <i>federal share obligated, nominal dollars</i>	Why not placed
4122	2013-06-25	Copper Valley Community Library Association	Valdez–Cordova Census Area	\$16,642.01	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
4050	2011-12-22	Lower Kuskokwim School District	Lower Yukon REAA	\$0	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
1992	2011-06-10	Association of Village Council Presidents (AVCP) Regional Housing Authority	Lower Kuskokwim REAA	\$154,911.60	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
1992	2011-06-10	Middle Kuskokwim Corporation	Kuspuk REAA	\$51,857.64	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
1843	2009-06-11	Yupiit School District	Yupiit REAA	\$157,034.62	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
1843	2009-06-11	Emmonak, City of	Yukon Flats REAA	\$6,709,810.19	the applicant is in Kusilvak Census Area, but FEMA's declaration rows for disaster 1843 do not list that county (Alaska school-area designations carry another county code)
1843	2009-06-11	Russian Mission (Native name Russian Mission - Yukon), City of	Lower Yukon REAA	\$0	the applicant is in Kusilvak Census Area, but FEMA's declaration rows for disaster 1843 do not list that county (Alaska school-area designations carry another county code)
1843	2009-06-11	Lower Kuskokwim School District	Lower Yukon REAA	\$1,336.22	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
1843	2009-06-11	Iqurmuit Traditional Council	Lower Yukon REAA	\$0	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
1843	2009-06-11	Alakanuk, City of	Lower Yukon REAA	\$323,668.73	the applicant is in Kusilvak Census Area, but FEMA's declaration rows for disaster 1843 do not list that county (Alaska school-area designations carry another county code)
1843	2009-06-11	Kuspuk School District	Kuspuk REAA	\$0	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
1666	2006-10-27	Hooper Bay, City of	Lower Yukon REAA	\$247,393.81	the applicant is in Kusilvak Census Area, but FEMA's declaration rows for disaster 1666 do not list that county (Alaska school-area designations carry another county code)
1657	2006-08-04	Emmonak, City of	Yukon Flats REAA	\$65,775.86	the applicant is in Kusilvak Census Area, but FEMA's declaration rows for disaster 1657 do not list that county (Alaska school-area designations carry another county code)
1657	2006-08-04	Alakanuk, City of	Lower Yukon REAA	\$191,886.96	the applicant is in Kusilvak Census Area, but FEMA's declaration rows for disaster 1657 do not list that county (Alaska school-area designations carry another county code)
1571	2004-11-15	Lower Kuskokwim School District	Lower Yukon REAA	\$61,705.90	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
1571	2004-11-15	Bering Strait School District	Bering Strait School REAA	\$110,488.83	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
1440	2002-11-08	Copper River School District (REAA)	Copper River REAA	\$162,756.16	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
1440	2002-11-08	Alaska Gateway School District (REAA)	Alaska Gateway REAA	\$109,010.40	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
1423	2002-06-26	Middle Kuskokwim Corporation	Kuspuk REAA	\$3,870	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
1423	2002-06-26	Kuspuk School District	Kuspuk REAA	\$14,565.75	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place
1316	2000-02-17	Copper Valley Electric Association, Incorporated	Kuspuk REAA	\$49,077.34	county field is not a county (for example an Alaska REAA) and the applicant name does not identify one place

FEMA's Public Assistance summaries file these applicants under a county field that is not a county of this state (an Alaska school area, the former Valdez-Cordova Census Area, or another state's county), and the applicant name does not identify one place here. They are listed for the whole state and are not in any county total. Check whether any of them worked in your county.

SOURCE

FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)

Previous occurrences by hazard, with explicit no-event rows

Hazard	Storm Events records <i>full period</i>	Since plan approval records	During plan review records	Last 5 years records	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Avalanche	25	2	1	1	0	0	1996 to 2026-06-30	
Coastal Flooding	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	6	1	0	1	0	0	1996 to 2026-06-30	
Drought	0	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	0	2	0		No Storm Events record; local data required (e.g., USGS).
Hail	7	0	0	0	0	0	1955 to 2026-06-30	
Heat Wave	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Hurricane	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	14	0	0	0	0	0	1996 to 2026-06-30	
Inland Flooding	59	22	3	21	7	0	1996 to 2026-06-30	
Landslide	0	0	0	0	2	0	1996 to 2026-06-30	No Storm Events records of this type; 2 federal declared incidents (see declarations table)
Lightning	1	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	112	7	3	7	3	1	1955 to 2026-06-30	Includes 112 High Wind records, event types the NRI definition of this hazard leaves out.
Tornado	0	0	0	0	0	0	1950 to 2026-06-30	No recorded events, 1950 to 2026-06-30, NOAA NCEI Storm Events
Tsunami	0	0	0	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	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	11	9	0	9	4	0	1996 to 2026-06-30	
Winter Weather	165	62	4	61	4	2	1996 to 2026-06-30	

SOURCESNOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>**Notable Storm Events records**

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2020-09-04	High Wind	91 kt (105 mph) measured gust	\$0 property; \$0 crops, reported for the zone (2020 dollars)	0, 0	NWS zone AKZ227 (UPPER KUSKOKWIM VALLEY), zone-level: may include parts of neighboring counties	during plan review, check whether your last plan included it	B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
2015-04-16	Lightning		\$2,000 property; \$0 crops, reported for the zone (2015 dollars)	0, 0	NWS zone AKZ111 (MATANUSKA VALLEY), zone-level: may include parts of neighboring counties		B1-c worst recorded: Lightning
2013-11-22	Ice Storm		\$30,000 property; \$0 crops, reported for the zone (2013 dollars)	0, 0	NWS zone AKZ111 (MATANUSKA VALLEY), zone-level: may include parts of neighboring counties		B1-c worst recorded: Ice Storm
2012-01-01	Cold/Wind Chill		\$0 property; \$0 crops, reported for the zone (2012 dollars)	0, 0	NWS zone AKZ227 (UPPER KUSKOKWIM VALLEY), zone-level: may include parts of neighboring counties		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2010-05-28	Wildfire		\$1,500,000 property; \$0 crops, reported for the zone (2010 dollars)	0, 0	NWS zone AKZ227 (UPPER KUSKOKWIM VALLEY), zone-level: may include parts of neighboring counties		B1-c worst recorded: Wildfire
2006-08-18	Flood		\$20,000,000 property; crops not reported, reported for the zone (2006 dollars)	0, 0	NWS zone AKZ145 (SUSITNA VALLEY), zone-level: may include parts of neighboring counties		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2006-02-10	Winter Weather		\$10,000 property; crops not reported, reported for the zone (2006 dollars)	0, 1	NWS zone AKZ111 (MATANUSKA VALLEY), zone-level: may include parts of neighboring counties		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2003-03-12	High Wind	86 kt (99 mph) measured gust	\$4,000,000 property; crops not reported, reported for the zone (2003 dollars)	0, 2	NWS zone AKZ111 (MATANUSKA VALLEY), zone-level: may include parts of neighboring counties		B1-c most damaging: High Wind and Strong Wind (outside NRI Strong Wind definition)
2003-02-09	Avalanche		damage not reported	1, 1	NWS zone AKZ111 (MATANUSKA VALLEY), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2003-02-06	Avalanche		\$10,000 property; crops not reported, reported for the zone (2003 dollars)	0, 0	NWS zone AKZ145 (SUSITNA VALLEY), zone-level: may include parts of neighboring counties		B1-c worst recorded: Avalanche
2002-01-12	Avalanche		\$6,000 property; crops not reported, reported for the zone (2002 dollars)	2, 1	NWS zone AKZ141 (COPPER RIVER BASIN), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2001-02-03	Avalanche		damage not reported	2, 1	NWS zone AKZ111 (MATANUSKA VALLEY), zone-level: may include parts of neighboring counties		deaths or injuries recorded

The full list is in the XLSX file, sheet "B1-d Storm Events history" (400 rows).

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records are placed with NWS zone-county files, which exist from 2020 on; an earlier record is placed by its zone number in the nearest later file only when its zone name matches that file, records from zones NWS renumbered are placed by name or left out, and a record whose zone is in no known file is left out of every count, so counts before 2020 can be low. Some current zones are also missing from the NWS files, so recent counts can be low too.

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

State-declared emergencies are not in federal data. Add them from your state emergency management agency.

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

Supports B1-e: probability

Probability: FEMA annualized frequency and descriptor per hazard

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	1.33	events per year	about 1.33 per year	Highly likely	FEMA annualized frequency (modeled)	40	1994 to 2023 (30 years)	see B1-f	
Coastal Flooding	0.012	events per year at a location (modeled)	about 0.012 per year at a given location in the county		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No Storm Events record of this hazard, 1996 to 2025; descriptor not assigned (the NRI value is the chance at a location in the county, not how often the hazard affects the county)
Cold Wave	4.02	event-days per year	about 4.02 days per year	Likely	event-days in 5 of 30 years, 1996 to 2025 (16.7%)	75.4	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 4.02 cold wave event-days a year here (its annualized frequency over 19 years; not its event count divided by the years), but Storm Events has a record in only 5 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together. Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves.
Drought	1.14	event-days per year	about 1.14 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	35	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No recorded event-days, 1996 to 2025; descriptor not assigned
Earthquake	0.205	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 20.5%			not shown	modeled	see B1-f	Descriptor not assigned: the NRI value is the chance at a location in the county, not how often the hazard affects the county, and Storm Events does not record earthquakes.

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
Hail	0.00631	events per year	about 1 in 159 years	Unlikely	FEMA annualized frequency (modeled)	0.2 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave		event-days per year			event-days in 0 of 30 years, 1996 to 2025 (0%)		2005-11-12 to 2024-11-12 (19 years)	countywide	No recorded event-days, 1996 to 2025; descriptor not assigned
Hurricane		events per year					1851 to 2024 (Atlantic)	see B1-f	Not Applicable in NRI for this county; no descriptor.
Ice Storm	0.0149	event-days per year	about 0.0149 days per year	Likely	event-days in 9 of 30 years, 1996 to 2025 (30%)	0	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	event-days in 22 of 30 years, 1996 to 2025 (73.3%)	0	1996 to 2023 (28 years)	see B1-f	
Landslide	91.4	events per year (modeled)	about 91.4 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	18	days per year with a strike	about 18 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0	events per year	none modeled	Unlikely	FEMA annualized frequency (modeled)	0	1986 to 2023 (38 years)	countywide	
Tornado	0.0000819	events per year	about 1 in 12,216 years	Unlikely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Tsunami	0.304	annual probability at the most exposed location (used in place of a county value)	chance at the county's most exposed location in a year: 30.4%		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No Storm Events record of this hazard, 1996 to 2025; descriptor not assigned (the NRI value is the chance at a location in the county, not how often the hazard affects the county)
Volcanic Activity	0.0209	annual probability	about 1 in 48 years	Possible	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	0.00111	annual probability at a location	chance a given location in the county burns in a year: 0.111%	Likely	Storm Events records in 5 of 30 years, 1996 to 2025 (16.7%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI: the NRI value is the chance at a location in the county, not how often the hazard affects the county.
Winter Weather	11.2	event-days per year	about 11.2 days per year	Likely	event-days in 23 of 30 years, 1996 to 2025 (76.7%)	209	2005-11-12 to 2024-11-12 (19 years)	countywide	

FEMA annualized frequency (modeled) comes from the National Risk Index v1.20 (December 2025). It is not recorded events divided by years, and what it measures depends on the hazard. For most hazards it estimates how often the hazard affects this county each year: it counts events or event-days (drought, heat wave, cold wave, winter weather, ice storm and inland flooding are in days per year; lightning is the number of days per year with a recorded cloud-to-ground strike, from the NOAA Storm Prediction Center daily lightning climatology); it may count events in the surrounding area (hail, strong wind, tornado, hurricane and ice storm use a 49 km grid and buffers) and is averaged over the county's area; and some hazards use a minimum value for places with no recorded event. Earthquake, wildfire and coastal flooding are different: FEMA computes them for each census block and averages them over the county, so the value is the chance (for coastal flooding, the modeled number of floods per year) at a location in the county, which is lower than the chance that the hazard strikes somewhere in the county. Earthquake is the chance of at least minor-damage shaking (U.S. Geological Survey model); wildfire is the chance that a location burns in a large fire (U.S. Forest Service burn probability); coastal flooding comes from FEMA flood zones and NOAA high-tide flooding, so it can be above 1 where high-tide flooding is frequent. Tsunami is the value at the county's most exposed location, from recorded events and modeled return periods. For these four hazards the packet gives no "1 in N years" and takes the descriptor from Storm Events (none for earthquake) unless the value is 1 or more a year. Landslide is a U.S. Geological Survey modeled county rate spread by slope susceptibility. Volcanic activity is the chance that a volcano affecting the county erupts in a year. Drought counts only extreme and exceptional drought (D3 and D4). Source: FEMA, National Risk Index Technical Documentation v1.20, sections 5.2.2 (Table 5), 5.2.3, 7.4, 10.4, 16.5, 17.1, 17.3.1, 17.5, 20.3.1, 21.4, 22.4 and 6 to 23.

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Descriptor scale used in this packet (defined per unit)

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

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)

Intensity bands: historical frequency (Storm Events)

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
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	0	30	0
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	0	30	0
Strong Wind (Thunderstorm Wind records)	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

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.

SOURCE
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

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.

Supports B1-f: variation across the planning area

Range of census tract risk within the county

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Avalanche	7 of 24	99.5	99.8	99.9	Very High 7, Not Applicable 17	
Coastal Flooding	0 of 24				No Rating 24	
Cold Wave	24 of 24	33.0	42.8	95.1	Relatively High 2, Relatively Moderate 7, Relatively Low 15	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Drought	0 of 24				No Rating 24	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Earthquake	24 of 24	96.6	99.3	99.9	Very High 21, Relatively High 3	
Hail	24 of 24	4.2	7.7	14.3	Very Low 24	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

Hazard	Risk score		Median	Max	Tracts by rating	Note
	Tracts <i>rated of all</i>	min <i>NRI score, 0 to 100</i>				
Heat Wave	0 of 24				Insufficient Data 24	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Hurricane	0 of 24				Not Applicable 24	
Ice Storm	24 of 24	2.0	6.8	13.5	Very Low 24	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Inland Flooding	24 of 24	5.9	20.6	49.5	Relatively Moderate 2, Relatively Low 19, Very Low 3	
Landslide	24 of 24	53.9	75.6	99.7	Relatively High 3, Relatively Moderate 3, Relatively Low 5, Very Low 13	
Lightning	24 of 24	19.3	53.8	84.1	Relatively High 1, Relatively Moderate 12, Relatively Low 10, Very Low 1	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Strong Wind	0 of 24				No Rating 24	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Tornado	8 of 24	0.2	0.2	0.3	Very Low 8, No Rating 16	
Tsunami	4 of 24	30.1	47.4	60.9	Relatively Low 1, Very Low 3, Not Applicable 18, Insufficient Data 2	
Volcanic Activity	15 of 24	40.2	88.0	96.2	Relatively Low 10, Very Low 5, No Rating 9	
Wildfire	24 of 24	84.0	95.2	98.5	Relatively High 8, Relatively Moderate 12, Relatively Low 4	
Winter Weather	24 of 24	87.6	94.5	97.5	Very High 9, Relatively High 15	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

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.

SOURCE
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)

Per-member block (Starter, confirm locally)

Member	Type	Plan status	Repetitive loss	Public Assistance matched	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>			
Matanuska-Susitna Borough	Organized Borough	Expired on 2026-02-25	FMA RL 0, SRL 0; any 4	\$30,500,369.84	0; 0	Includes \$357,499.83 for declarations not counted as hazard incidents (DR-4533-AK).
Houston city	City	Expired on 2023-04-23		\$171,645.12	0; 0	No NFIP community ID on this member's plan row.

Member	Type	Plan status	Repetitive loss	Public Assistance matched	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>federal share obligated, nominal dollars</i>	<i>all years; since the member's plan</i>	
Palmer city	City	No approved plan on record	FMA RL 0, SRL 0; any 0	\$540,700.65	3; no approved plan	
Wasilla city	City	Approved, expires 2028-10-16		\$726,324.99	7; 0	No NFIP community ID on this member's plan row.

Member 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 member row, while the county table counts only its part in this county.

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

SOURCES

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Supports B2-a and B2-b: assets and impacts

Local data required

County-level starter. The plan must describe impacts for each participant and its own assets.

- Critical facilities and lifelines per hazard
 - A problem statement per participant 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

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>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2021-02-26 <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	\$14,578,506		10	\$2,040		\$15,415,851	0.014%		\$0		
Coastal Flooding	\$576,463,902		1,403	\$0		\$0	0%				
Cold Wave	\$32,581,066,352	\$0	107,000	\$10,808	\$0	\$1,749,331	under 0.0001%		\$0		
Drought		\$0			\$0						agriculture exposure is 0 in NRI
Earthquake	\$54,534,272,616		107,081	\$101,843,082		\$28,732,317	0.187%				
Hail	\$32,581,066,352	\$0	107,000	\$6,663	\$0	\$854	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>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2021-02-26 <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
Heat Wave											NRI publishes no building exposure for this county
Hurricane											Not Applicable in NRI for this county
Ice Storm	\$32,581,066,352		107,000	\$185		\$14,029	under 0.0001%				
Inland Flooding	\$32,499,689,317	\$0	1,148	\$8,157,085	\$0	\$2,071	n/a (see note)		\$1,160,000		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. EAL as % of exposure: n/a.
Landslide	\$1,161,229,886		3,238	\$167,243		\$136,822	0.0144%				
Lightning	\$32,581,066,352		107,000	\$20,288		\$309,117	under 0.0001%				
Strong Wind	\$32,581,066,352	\$0	107,000	\$0	\$0	\$0	0%		\$2,000,000	\$4,199,275.38	Storm Events damage since the plan includes 1 zone-level High Wind record (\$2,000,000), an event type the NRI definition of this hazard leaves out.
Tornado	\$32,581,066,352	\$0	107,000	\$6	\$0	\$1	under 0.0001%				
Tsunami	\$482,400,773		125	\$55,953		\$0	0.0116%				
Volcanic Activity	\$32,581,066,352		107,000	\$4		\$911	under 0.0001%				
Wildfire	\$12,886,109,087	\$0	59,044	\$3,654,848	\$0	\$136,774	0.0284%		\$0		
Winter Weather	\$32,581,066,352	\$0	107,000	\$231,868	\$0	\$388,373	0.000712%		\$0	\$4,227,876.23	

Totals since 2021-02-26 (Storm Events through 2026-06-30): 0 county-coded records, 0 with a damage value recorded (including \$0), \$0; 103 zone-level records, 103 with a damage value recorded (including \$0), \$3,160,000 reported for the zone; Public Assistance on counted declarations \$4,227,876.23 (2 declarations, 2 with PA).

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

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 must not be added up; the unit total counts each declaration once.

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

SOURCES

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Supports B2-a: context

County context

Measure	Value
Population	107,000
Building value (total, not at risk)	\$32,581,066,352
Agriculture value (total, not at risk)	\$0
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$114,150,074
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)	\$46,886,453
Social vulnerability rating	Very Low
Community resilience rating	Very Low
NRI version	December 2025

FEMA's all-hazard expected annual loss total adds buildings, agriculture and population equivalence; the two parts are shown separately so the property figure is not read as including the statistical value of life.

SOURCE
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)

Supports B2-c: repetitive loss

Repetitive loss in this county, both definitions

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	4	Severe repetitive loss, NFIP insurance definition	0

Your state NFIP coordinator's list may use the NFIP insurance definition, so its counts can be higher.

SOURCES
FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Repeat-flood properties: county total and NFIP communities

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	4	0	4	0	0
MATANUSKA-SUSITNA, BOROUGH OF	0	0	4	0	4	0	0

SOURCES
FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Repeat-flood properties by plan member (NFIP community)

Member	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>	Note
Matanuska-Susitna Borough	020021	0	0	4	0	4	0	0	
Palmer city	020023	0	0	0	0	0	0	0	

Per-member types: XLSX sheet 'B2-c Members'.

Member 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 member row, while the county table counts only its part in this county.

SOURCES

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

County repeat-flood properties by occupancy group

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	0	0	4	0	4	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

Institutional properties cannot be separated in this data: FEMA's occupancy groups have no institutional class, so they fall in non-residential or other residential in the table by occupancy group.

SOURCES

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

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; OpenFEMA's fmaRL field description omits the Increased Cost of Compliance clause of 44 CFR 77.2(i). NFIP repetitive loss (FEMA insurance definition, nfipRI) is 2 or more claims over \$1,000 in 10 years and can drop to false when a property is mitigated. Also shown: NFIP severe repetitive loss, any category, mitigated and currently insured.

Your state NFIP coordinator's list may use the NFIP insurance definition, so its counts can be higher.

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

Counts may differ from your state NFIP coordinator's list, which is the source the Handbook names.

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 4 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

Every table above lists its own sources. The full list, for the plan's bibliography (FEMA review item A4-a):

- 1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
- 2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <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 2026-09-28, 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 2026-09-28, <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 2026-09-28, <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 2026-09-28, 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

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Cite this: Hazard Plain (2026). Matanuska-Susitna Borough, AK: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 02170). Preview: automated baseline. 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: to be added

Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain_2026-10_AK_02170. Preview: automated baseline.