

Matanuska-Susitna Borough, AK

Risk-assessment baseline packet

County FIPS: 02170 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: Expired on 2026-02-25. Plan: Matanuska-Susitna Borough HMP (FEMA plan 106632), approved 2021-02-26.

Update: FEMA tracker shows a plan in progress.

Since the plan was approved on 2021-02-26: 2 new hazard declarations (2 incidents) and 103 NOAA Storm Events records; details under "What changed since your last plan".

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Earthquake (\$130,575,399 a year), Avalanche (\$15,417,892) and Inland Flooding (\$8,159,156).

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; 02170 is this area.

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

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

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

CFR: Code of Federal Regulations.

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

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

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Plan clock

Status:	Expired on 2026-02-25	Plan:	Matanuska-Susitna Borough HMP (FEMA plan 106632)
Approved:	2021-02-26	Days since expiry:	217
Update underway:	FEMA tracker shows a plan in progress		

Until a new plan is approved, FEMA mitigation project grants (HMGP, FMA) need a FEMA exception (44 CFR 201.6(a)(3)).

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

New federal declarations:

2 new hazard declarations (2 incidents): DR-4646-AK (Severe Winter Storm and Straight-Line Winds), DR-4904-AK (Severe Storm)

Repetitive loss now:

FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 4

Storm Events records since approval:

103 records (data through 2026-06-30)

Repeat-flood change:

this release sets the baseline count.

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

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry negative = days since expiry	Update underway
Matanuska-Susitna Borough	Organized Borough	Expired on 2026-02-25	Matanuska-Susitna Borough HMP (FEMA plan 106632)	2021-02-26	2026-02-25	-217	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	-1,256	
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	747	

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

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

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

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

Sources: 5, 6

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
1	Earthquake	Relatively High	Relatively High	\$101,843,082	n/a	\$28,732,317	\$130,575,399		Storm Events does not record earthquakes.
2	Avalanche	Very High	Very High	\$2,040	n/a	\$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	n/a	\$309,117	\$329,405	1	
8	Landslide	Relatively Moderate	Relatively Moderate	\$167,243	n/a	\$136,822	\$304,065	0	Declared 2 times; no Storm Events record of this type.
9	Tsunami	Very Low	Very Low	\$55,953	n/a	\$0	\$55,953	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
10	Ice Storm	Very Low	Very Low	\$185	n/a	\$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	n/a	\$911	\$915	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
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	n/a	\$0	\$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	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).
16	Strong Wind	No Rating	No Expected Annual Losses	\$0	\$0	\$0	\$0	112	Includes 112 High Wind records (a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition).
	Heat Wave	Insufficient Data	Insufficient Data	n/a	n/a	n/a	n/a	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

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

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

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

Not applicable to this county per NRI, with no federal declaration and no Storm Events record since 1996: hurricane. 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.

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

Source: 5

Hazard	Highest-rated census tracts <i>NRI risk rating, score 0 to 100</i>
Avalanche	tract 1.01 (Very High, 99.9); tract 2 (Very High, 99.9); tract 13 (Very High, 99.9)
Earthquake	tract 12.01 (Very High, 99.9); tract 8 (Very High, 99.8); tract 11 (Very High, 99.8)
Landslide	tract 1.01 (Relatively High, 99.7); tract 2 (Relatively High, 99.7); tract 1.02 (Relatively High, 99.5)
Tornado	tract 2 (Very Low, 0.3); tract 1.01 (Very Low, 0.3); tract 13 (Very Low, 0.3)
Tsunami	tract 13 (Relatively Low, 60.9); tract 6.04 (Very Low, 47.6); tract 11 (Very Low, 47.2)
Volcanic Activity	tract 6.04 (Relatively Low, 96.2); tract 6.03 (Relatively Low, 96.1); tract 7.03 (Relatively Low, 93.1)
Wildfire	tract 4.02 (Relatively High, 98.5); tract 1.01 (Relatively High, 97.8); tract 7.03 (Relatively High, 97.7)

Up to 3 census tracts per hazard, highest National Risk Index rating first, then highest score; a tract number is the Census tract number (for example 1.01 is Census Tract 1.01). 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)	25 records, 2000 to 2024 (25 zone-level)		Avalanche, 2003-02-06, \$10,000 property; crops not reported (2003 dollars); NWS zone AKZ145		Countywide (zone-level records).	
Coastal Flood, Storm Surge/ Tide	none in data (flood depth: FIRM)	0					Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	6 records, 2006 to 2022 (6 zone-level)	2 days to 31 days (median 9.5 days); 4 with a recorded value	January 2012 (1 monthly summary record), zone-level		Countywide (zone-level records).	
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	0					
Drought	U.S. Drought Monitor scale (D0 to D4)	0					Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	hail size (inches)	7 records, 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.		Countywide (zone-level records).	
Excessive Heat, Heat	heat index (in event narratives)	0					
Ice Storm	Sperry-Piltz ice scale (local data)	14 records, 2001 to 2019 (14 zone-level)		Ice Storm, 2013-11-22, \$30,000 property; \$0 crops (2013 dollars); NWS zone AKZ111		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)	59 records, 2001 to 2025 (59 zone-level)		Flood, 2006-08-18, \$20,000,000 property; crops not reported (2006 dollars); NWS zone AKZ145		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)	1 record, 2015 (1 zone-level)		Lightning, 2015-04-16, \$2,000 property; \$0 crops (2015 dollars); NWS zone AKZ111		Countywide (zone-level records).	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	112 records, 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	High Wind, 2003-03-12, \$4,000,000 property; crops not reported (zone total, 2003 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	0					
Tornado	Enhanced Fujita (Fujita before Feb 2007)	0					Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).
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)	11 records, 2010 to 2026 (11 zone-level)		Wildfire, 2010-05-28, \$1,500,000 property; \$0 crops (2010 dollars); NWS zone AKZ227		Countywide (zone-level records).	
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	165 records, 2001 to 2026 (165 zone- level)		Winter Weather, 2006-02-10, \$10,000 property; crops not reported (2006 dollars), 1 direct injury (reported for the zone); NWS zone AKZ111		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.

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

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 20 declarations covering 17 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

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	N
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	
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	in the 12 months before plan approval	
2020-03-13	2020-01-20	EM-3446-AK	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded	in the 12 months before plan approval	sa inc as DR
2019-08-22	2019-08-17	FM-5290-AK	Fire management	Deshka Landing Fire	Wildfire	no Public Assistance recorded		
2019-08-20	2019-08-17	FM-5287-AK	Fire management	McKinley Fire	Wildfire	no Public Assistance recorded		
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	no Public Assistance recorded		sa inc as DR
2018-09-05	2018-05-11	DR-4391-AK	Major disaster	Flooding	Inland Flooding	no Public Assistance recorded		
2015-06-15	2015-06-15	FM-5084-AK	Fire management	Sockeye Fire	Wildfire	no Public Assistance recorded		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	N
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 state page)		
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 state page)		
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 state page)		
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	no Public Assistance recorded		
1995-10-13	1995-09-18	DR-1072-AK	Major disaster	Flooding	Inland Flooding	no Public Assistance recorded		
1986-10-27	1986-10-10	DR-782-AK	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		

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

Statewide declarations

Source: 2

Declared	Incident began	FEMA number	Type	Title	Mapped hazard
1964-03-28	1964-03-28	DR-168-AK	Major disaster	Earthquake	Earthquake
1955-12-22	1955-12-22	DR-46-AK	Major disaster	Severe Hardship	Other, not an NRI hazard; not counted
1954-11-10	1954-11-10	DR-31-AK	Major disaster	Severe Hardship	Other, not an NRI hazard; not counted
1953-10-30	1953-10-30	DR-13-AK	Major disaster	Severe Hardship	Other, not an NRI hazard; not counted

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

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

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

Source: 3

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval records	In the 12 months before plan approval records	Last 5 years records	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</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		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
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
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	

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
Strong Wind	112	7	3	7	3	1	1955 to 2026-06-30	Includes 112 High Wind records.
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	

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
2020-09-04	High Wind	91 kt (105 mph) measured gust	\$0 property; \$0 crops (zone total, 2020 dollars)	0, 0	NWS zone AKZ227 (UPPER KUSKOKWIM VALLEY), zone-level	in the 12 months before plan approval	B1-c worst recorded: High Wind and Strong Wind
2015-04-16	Lightning		\$2,000 property; \$0 crops (zone total, 2015 dollars)	0, 0	NWS zone AKZ111 (MATANUSKA VALLEY), zone-level		B1-c worst recorded: Lightning
2013-11-22	Ice Storm		\$30,000 property; \$0 crops (zone total, 2013 dollars)	0, 0	NWS zone AKZ111 (MATANUSKA VALLEY), zone-level		B1-c worst recorded: Ice Storm
2012-01-01	Cold/Wind Chill		\$0 property; \$0 crops (zone total, 2012 dollars)	0, 0	NWS zone AKZ227 (UPPER KUSKOKWIM VALLEY), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2010-05-28	Wildfire		\$1,500,000 property; \$0 crops (zone total, 2010 dollars)	0, 0	NWS zone AKZ227 (UPPER KUSKOKWIM VALLEY), zone-level		B1-c worst recorded: Wildfire
2006-08-18	Flood		\$20,000,000 property; crops not reported (zone total, 2006 dollars)	0, 0	NWS zone AKZ145 (SUSITNA VALLEY), zone-level		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2006-02-10	Winter Weather		\$10,000 property; crops not reported (zone total, 2006 dollars)	0, 1	NWS zone AKZ111 (MATANUSKA VALLEY), zone-level		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 (zone total, 2003 dollars)	0, 2	NWS zone AKZ111 (MATANUSKA VALLEY), zone-level		B1-c most damaging: High Wind and Strong Wind
2003-02-09	Avalanche		damage not reported	1, 1	NWS zone AKZ111 (MATANUSKA VALLEY), zone-level		deaths or injuries recorded
2003-02-06	Avalanche		\$10,000 property; crops not reported (zone total, 2003 dollars)	0, 0	NWS zone AKZ145 (SUSITNA VALLEY), zone-level		B1-c worst recorded: Avalanche
2002-01-12	Avalanche		\$6,000 property; crops not reported (zone total, 2002 dollars)	2, 1	NWS zone AKZ141 (COPPER RIVER BASIN), zone-level		deaths or injuries recorded
2001-02-03	Avalanche		damage not reported	2, 1	NWS zone AKZ111 (MATANUSKA VALLEY), zone-level		deaths or injuries recorded

The full list is in the Excel file, sheet "B1-d Storm Events history" (400 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	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 descriptor: no Storm Events record 1996 to 2025
Cold Wave	4.02	event-days per year	about 4.02 days per year	Likely	Storm Events event-days in 5 of 30 years, 1996 to 2025 (16.7%)	75.4	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	1.14	event-days per year	about 1.14 days per year		Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)	35	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No Storm Events drought record, 1996 to 2025
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	No descriptor (Storm Events does not record earthquakes).
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			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 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	Storm Events 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	

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
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 descriptor: no Storm Events record 1996 to 2025
Volcanic Activity	0.0209	annual probability	about 1 in 48 years	Possible	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
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	
Winter Weather	11.2	event-days per year	about 11.2 days per year	Likely	Storm Events 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) is the National Risk Index v1.20 (December 2025) estimate of how often a hazard affects this county in a year; it is not recorded events divided by years, and its unit differs by hazard (events, event-days, or days with a lightning strike per year). For earthquake, wildfire, coastal flooding and tsunami the value is the chance (or number of events) at a location in the county, not across the county, so no "1 in N years" is given and the descriptor comes from Storm Events where it has a record (none for earthquake). The Methods page gives each hazard's method, from FEMA's National Risk Index Technical Documentation v1.20.

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

Descriptor scale used in this packet (defined per unit)

Sources: 5, 6

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

Intensity bands: historical frequency (Storm Events)

Source: 6

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

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

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

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

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

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Avalanche	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
Drought	0 of 24				No Rating 24
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
Heat Wave	0 of 24				Insufficient Data 24
Ice Storm	24 of 24	2.0	6.8	13.5	Very Low 24
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

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Strong Wind	0 of 24				No Rating 24
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

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

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

Frequency data for cold wave, hail, ice storm, lightning and winter weather are county-wide or coarse (49 km grid or NWS zone), the same for every jurisdiction; the tract range mostly reflects where buildings and people are.

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss <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
Matanuska-Susitna Borough	Organized Borough	Expired on 2026-02-25	FMA RL 0, SRL 0; any 4	\$30,500,369.84	0 total; 0 since its plan	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 total; 0 since its plan	No NFIP community ID on this jurisdiction's plan row.
Palmer city	City	No approved plan on record	FMA RL 0, SRL 0; any 0	\$540,700.65	3 total; no approved plan	
Wasilla city	City	Approved, expires 2028-10-16		\$726,324.99	7 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).

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

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

Local data needed

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

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

- Future assets

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 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	n/a	10	\$2,040	n/a	\$15,415,851	0.014%		\$0		
Coastal Flooding	\$576,463,902	n/a	1,403	\$0	n/a	\$0	0%				
Cold Wave	\$32,581,066,352	\$0	107,000	\$10,808	\$0	\$1,749,331	under 0.0001%		\$0		
Drought	n/a	\$0	n/a	n/a	\$0	n/a					agriculture exposure is 0 in NRI
Earthquake	\$54,534,272,616	n/a	107,081	\$101,843,082	n/a	\$28,732,317	0.187%				
Hail	\$32,581,066,352	\$0	107,000	\$6,663	\$0	\$854	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	\$32,581,066,352	n/a	107,000	\$185	n/a	\$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.
Landslide	\$1,161,229,886	n/a	3,238	\$167,243	n/a	\$136,822	0.0144%				
Lightning	\$32,581,066,352	n/a	107,000	\$20,288	n/a	\$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): a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition.
Tornado	\$32,581,066,352	\$0	107,000	\$6	\$0	\$1	under 0.0001%				
Tsunami	\$482,400,773	n/a	125	\$55,953	n/a	\$0	0.0116%				
Volcanic Activity	\$32,581,066,352	n/a	107,000	\$4	n/a	\$911	under 0.0001%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 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
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: \$4,227,876.23 on 2 counted declarations.

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	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 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	4	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	4	0	4	0	0
of which: Matanuska-Susitna borough	0	0	4	0	4	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>
Matanuska-Susitna Borough	020021	0	0	4	0	4	0	0
Palmer city	020023	0	0	0	0	0	0	0

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

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

County repeat-flood properties by occupancy group

Sources: 1, 4

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	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

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

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

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

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 4 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_Gaz_cousubs_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_Gaz_unsd_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_Gaz_scsd_national.zip, https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx (used to match place names and codes; no table prints its values)

What this packet is and what the plan adds

This packet is the federal data for the plan's risk assessment (the summary on page 1 says how it is organized); the plan and FEMA's review decide whether each item is met.

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

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

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