

Hennepin County, MN

Risk-assessment baseline packet

Unit **County area 27053** 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.

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Plan clock

Status	Approved, expires 2029-05-02	Plan	Hennepin County HMP Update (FEMA plan 109597)
Approved	2024-05-03	Expires	2029-05-02
As of	2026-09-28	Days	947 days to expiry

What changed since your last plan (approved 2024-05-03)

New federal declarations	none (0 declaration rows; 0 counted incidents)	Storm Events records since approval	107 (data through 2026-06-30)
Repetitive loss now	FMA RL 1, SRL 0 (44 CFR 77.2); any definition: 25	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: 48 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" after these cover pages.

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

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Plan clock

Plan status for every jurisdiction listed in this county

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry negative = days since expiry	Update underway	Notes
Hennepin County	County	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2024-05-02
Bloomington city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Brooklyn Center city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Brooklyn Park city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Champlin city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Chanhassen city	City	Approved, expires 2031-05-03	Carver County 2025 Hazard Mitigation Plan (FEMA plan 111415)	2026-05-04	2031-05-03	1,678		Also approved under plan 109597 (Hennepin County HMP Update, expires 2029-05-02). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last.
Corcoran city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2024-08-08
Crystal city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2024-08-08
Dayton city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Deephaven city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Eden Prairie city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2024-08-08

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Edina city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Excelsior city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Golden Valley city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2024-08-08
Greenfield city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Greenwood city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Hanover city	City	Approved, expires 2028-05-28	Wright County (FEMA plan 109031)	2023-05-29	2028-05-28	608		member approved 2023-06-09
Hopkins city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Independence city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Long Lake city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Loretto city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-07-02
Maple Grove city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Maple Plain city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Medicine Lake city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Medina city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Minneapolis city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Minnetonka Beach city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Minnetonka city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Minnetrista city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Mound city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
New Hope city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2024-08-08
Orono city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2024-08-08

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Osseo city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Plymouth city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2024-08-08
Richfield city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Robbinsdale city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Rockford city	City	Approved, expires 2028-05-28	Wright County (FEMA plan 109031)	2023-05-29	2028-05-28	608		member approved 2024-09-24
Rogers city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Shorewood city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-30
Spring Park city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2024-08-08
St. Anthony city	City	Approved, expires 2030-06-03	Ramsey County 2025 Hazard Mitigation Plan (FEMA plan 110554)	2025-06-04	2030-06-03	1,344		Also approved under plan 109597 (Hennepin County HMP Update, expires 2029-05-02). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last.
St. Bonifacius city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
St. Louis Park city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Tonka Bay city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-07-02
Wayzata city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Woodland city	City	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-04-14
Bassett Creek Watershed Management Commission	Water/Sewer Authority	Approved, expires 2029-05-02	Hennepin County HMP Update (FEMA plan 109597)	2024-05-03	2029-05-02	947		member approved 2025-07-02
University of Minnesota	College/University	Expired on 2021-12-15	University of Minnesota (System Wide) (FEMA plan 103026)	2016-12-15	2021-12-15	-1,748		

SOURCE

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	Inland Flooding	Relatively High	Relatively High	\$188,244,797	\$74,946	\$56,377	\$188,376,120	62		
2	Cold Wave	Very High	Very High	\$3,555	\$1,008	\$101,860,614	\$101,865,177	20		Includes 1 Frost/Freeze record, event types the NRI definition of this hazard leaves out.
3	Tornado	Very High	Very High	\$39,942,377	\$1,720	\$43,046,013	\$82,990,111	12		
4	Heat Wave	Relatively High	Relatively High	\$988	\$2	\$39,285,378	\$39,286,367	17		
5	Hail	Very High	Very High	\$30,982,767	\$74,263	\$182,621	\$31,239,650	515		
6	Strong Wind	Very High	Very High	\$6,869,394	\$37,163	\$1,786,532	\$8,693,089	381		Includes 14 High Wind records and 4 Strong Wind records, event types the NRI definition of this hazard leaves out.
7	Lightning	Relatively High	Relatively High	\$143,584		\$1,321,931	\$1,465,515	19		
8	Winter Weather	Very High	Very High	\$393,270	\$412	\$894,406	\$1,288,088	123		
9	Ice Storm	Relatively Moderate	Relatively Moderate	\$371,852		\$103,605	\$475,457	1		
10	Earthquake	Very Low	Relatively Low	\$244,017		\$81,238	\$325,256			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
11	Wildfire	Relatively Low	Relatively Low	\$281,131	\$62	\$27,898	\$309,091	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.

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
12	Drought	Relatively Low	Relatively Low		\$84,444		\$84,444	0		Declared 1 time; no Storm Events record of this type.
13	Landslide	Relatively Low	Relatively Low	\$16,795		\$9,722	\$26,517	0		Declared 1 time; no Storm Events record of this type. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	Avalanche	Not Applicable	Not Applicable					0	NRI rates avalanche 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).
	Coastal Flooding	Not Applicable	Not Applicable					0	NRI rates coastal flooding 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).
	Hurricane	Not Applicable	Not Applicable					0	NRI rates hurricane Not Applicable for this county, and no counted federal declaration for this county names it (EM-3242-MN names it but is not counted as a local occurrence; see B1-d).	No recorded events in Storm Events since 1996 (data through 2026-06-30).
	Tsunami	Not Applicable	Not Applicable					0	NRI rates tsunami 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). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
	Volcanic Activity	Not Applicable	Not Applicable					0	NRI rates volcanic activity 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). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.

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.	0 of 329
Coastal Flooding	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 329
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	329 of 329
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	49 of 329
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.	329 of 329
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	329 of 329
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	329 of 329
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 329
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	329 of 329
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.	329 of 329
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.	326 of 329
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	329 of 329
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	329 of 329
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.	329 of 329
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.	0 of 329
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.	0 of 329
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.	238 of 329
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	329 of 329

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)	0					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.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	19, 1996 to 2026 (19 zone-level)	1 day to 5 days (median 2 days); 18 with a recorded value	5 consecutive days, 1996-01-31 to 1996-02-04, 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	1, 2012 to 2012 (1 zone-level)		Frost/Freeze, 2012-04-10, \$20,000 crop damage, reported for the zone (2012 dollars); NWS zone MNZ060 (HENNEPIN), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	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).
Hail	hail size (inches)	586, 1956 to 2026	0.75 in to 4 in (median 1 in); 585 with a recorded value	4 in hail, 1966-07-08	Hail, 1998-05-15, \$450,000,000 property; crops not reported (1998 dollars)	Event records naming member places: Minneapolis city (80 records), Eden Prairie city (38 records), Bloomington city (37 records), Richfield city (32 records), Edina city (23 records), Plymouth city (22 records), Brooklyn Park city (18 records), Osseo city (16 records), St. Louis Park city (16 records), Maple Grove city (14 records); and 28 more member places (see the XLSX file).	
Excessive Heat, Heat	heat index (narratives)	17, 1999 to 2023 (17 zone-level)	1 day to 9 days (median 2 days); 15 with a recorded value	9 consecutive days, 2005-07-09 to 2005-07-17, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	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)	1, 1996 to 1996 (1 zone-level)		No damage reported in 1 records.		Zone-level records: applies countywide; national data do not locate these events within the county.	Ice thickness: 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
Flash Flood, Flood, Lakeshore Flood	damage and flood days (FIRM for depth)	62, 1997 to 2025 (8 zone-level)		Flood, 2014-06-18, \$4,000,000 property; \$0 crops (2014 dollars)		Event records naming member places: Minneapolis city (12 records), Bloomington city (5 records), Edina city (4 records), Richfield city (4 records), St. Louis Park city (4 records), Eden Prairie city (3 records), Osseo city (3 records), Rogers city (3 records), Brooklyn Park city (2 records), Robbinsdale city (2 records); and 10 more member places (see the XLSX file). Zone-level records (8) apply countywide.	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.
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	19, 1996 to 2016		Lightning, 2013-06-21, \$750,000 property; \$0 crops (2013 dollars)		Event records naming member places: Brooklyn Park city (2 records), Edina city (2 records), Bloomington city (1 record), Greenwood city (1 record), Hopkins city (1 record), Minneapolis city (1 record), Osseo city (1 record), Plymouth city (1 record), St. Louis Park city (1 record), Woodland city (1 record).	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)	18, 1996 to 2026 (18 zone-level)	35 kt (40 mph) to 64 kt (74 mph) (median 51.5 kt (59 mph)); 18 with a recorded value	64 kt (74 mph) measured, High Wind, 2000-04-05; NWS zone MNZ060 (HENNEPIN), zone-level: may include parts of neighboring counties	High Wind, 2018-06-11, \$25,000 property; \$0 crops, reported for the zone (2018 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	495, 1955 to 2026	43 kt (49 mph) to 90 kt (104 mph) (median 52 kt (60 mph)); 424 with a recorded value	90 kt (104 mph), measurement type not recorded, Thunderstorm Wind, 1980-07-15	Thunderstorm Wind, 2005-09-21, \$130,000,000 property; crops not reported (2005 dollars)	Event records naming member places: Minneapolis city (39 records), Bloomington city (33 records), Edina city (17 records), Eden Prairie city (16 records), Richfield city (15 records), Osseo city (13 records), Hopkins city (12 records), Brooklyn Park city (11 records), Champlin city (11 records), St. Louis Park city (11 records); and 29 more member places (see the XLSX file).	

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Tornado	Enhanced Fujita (F before Feb 2007)	31, 1951 to 2020	F/EF0 to F/EF4 (median F/EF1); 31 with a recorded value	F4 tornado, 1965-05-06, 4.6 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 300 yd wide, \$25,000,000 property; crops not recorded (1965 dollars), 88 direct injuries	Tornado, 2011-05-22, \$166,000,000 property; \$0 crops (2011 dollars)	Event records naming member places: Greenfield city (2 records), Minneapolis city (2 records), Minnetrista city (2 records), Plymouth city (2 records), Brooklyn Park city (1 record), Corcoran city (1 record), Maple Plain city (1 record), Richfield city (1 record), Robbinsdale city (1 record), Rogers city (1 record); and 2 more member places (see the XLSX file).	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.
Wildfire	acres burned (local data)	0					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)	123, 1996 to 2026 (123 zone-level)		Winter Storm, 2010-12-10, \$18,300,000 property; \$0 crops, reported for the zone (2010 dollars); NWS zone MNZ060 (HENNEPIN), 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.

Where a hazard names more than 10 member places, the table lists the 10 with the most records; every place is in the XLSX file, sheet "B1-c Extent".

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 rows

18

Counted incidents

14

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	Notes
2020-04-07	2020-01-20	DR-4531-MN	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$118,826,164.81		
2020-03-13	2020-01-20	EM-3453-MN	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4531
2016-11-02	2016-09-21	DR-4290-MN	Major disaster	SEVERE STORMS AND FLOODING	Inland Flooding	PA not declared for this county		
2014-07-21	2014-06-11	DR-4182-MN	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, FLOODING, LANDSLIDES, AND MUDSLIDES	Inland Flooding (primary); also designated: Landslide, Strong Wind	\$6,718,783.06		
2013-07-25	2013-06-20	DR-4131-MN	Major disaster	SEVERE STORMS, STRAIGHT-LINE WINDS, AND FLOODING	Inland Flooding; Strong Wind	\$4,112,656.92		
2011-06-07	2011-05-21	DR-1990-MN	Major disaster	SEVERE STORMS AND TORNADOES	Tornado	\$3,305,096.54		
2010-03-19	2010-03-01	EM-3310-MN	Emergency	FLOODING	Inland Flooding	none found		
2007-08-21	2007-08-01	EM-3278-MN	Emergency	BRIDGE COLLAPSE	Non-natural, not counted	\$2,979,534.03		
2005-09-13	2005-08-29	EM-3242-MN	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	none found		
2001-05-16	2001-03-23	DR-1370-MN	Major disaster	SEVERE WINTER STORMS, FLOODING, AND TORNADOES	Inland Flooding (primary); also designated: Ice Storm, Tornado, Winter Weather	PA not declared for this county		
1998-06-23	1998-05-15	DR-1225-MN	Major disaster	SEVERE STORMS, STRAIGHT LINE WINDS, AND TORNADOES	Tornado (primary); also designated: Strong Wind	none found		
1997-08-25	1997-06-28	DR-1187-MN	Major disaster	SEVERE STORMS, TORNADOES, HIGH WINDS, FLOODING	Inland Flooding; Strong Wind; Tornado	none found		
1997-04-08	1997-03-21	DR-1175-MN	Major disaster	SEVERE FLOODING, HIGH WINDS, SEVERE STORMS	Inland Flooding (primary); also designated: Strong Wind	none found		
1987-08-06	1987-07-20	DR-797-MN	Major disaster	SEVERE STORMS, TORNADOES & FLOODING	Inland Flooding; Tornado	none found		
1978-07-08	1978-07-08	DR-560-MN	Major disaster	SEVERE STORMS, FLOODING, HAIL & TORNADOES	Hail; Inland Flooding; Tornado	none found		
1976-06-17	1976-06-17	EM-3013-MN	Emergency	DROUGHT	Drought	none found		
1969-04-18	1969-04-18	DR-255-MN	Major disaster	FLOODING	Inland Flooding	none found		
1965-04-11	1965-04-11	DR-188-MN	Major disaster	FLOODING	Inland Flooding	none found		

School districts and special districts in this county: \$7,838,566.06 (included in the county total above). Public Assistance matched by applicant name to the school districts and special districts FEMA lists as plan members in this county. They are not shown as member blocks, so their total is listed here. These dollars are already included in the county PA column of the declarations table (the FEMA record places each applicant in this county); do not add this line to the county total.

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
1957-06-22	1957-06-22	DR-80-MN	Major disaster	FLOODS	Inland Flooding		

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 (1976-09-08 to 1976-10-01) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

SOURCE

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

Public Assistance filed under this county for declarations that do not list it: 1 row, \$1,160,547.53

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-4069-MN	2012-07-06	SEVERE STORMS AND FLOODING	University of Minnesota	\$1,160,547.53

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

SOURCES

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

FEMA, 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: 14 rows, \$9,133,931.59

Disaster number	Declared	Applicant	County field in FEMA data	PA obligated <i>federal share obligated, nominal dollars</i>	Why not placed
4666	2022-08-09	Sioux Valley Southwestern Electric Co-Op, INC. DBA Sioux Valley Energy	Moody County	\$142,289.22	county field is a county of another state and the applicant name does not identify a place in the declaring state
4666	2022-08-09	Western Minnesota Municipal Power Agency	Minnehaha County	\$1,040,838.24	county field is a county of another state and the applicant name does not identify a place in the declaring state
4659	2022-07-13	Minnkota Power Cooperative	Grand Forks County	\$22,222.50	county field is a county of another state and the applicant name does not identify a place in the declaring state
4658	2022-07-08	Western Minnesota Municipal Power Agency	Minnehaha County	\$48,276.63	county field is a county of another state and the applicant name does not identify a place in the declaring state
4442	2019-06-12	Sioux Valley Southwestern Electric Co-Op, INC. DBA Sioux Valley Energy	Moody County	\$1,540,004.12	county field is a county of another state and the applicant name does not identify a place in the declaring state

Disaster number	Declared	Applicant	County field in FEMA data	PA obligated <i>federal share obligated, nominal dollars</i>	Why not placed
4442	2019-06-12	Dairyland Power Cooperative	La Crosse County	\$1,086,623.96	county field is a county of another state and the applicant name does not identify a place in the declaring state
4442	2019-06-12	Minnkota Power Cooperative	Grand Forks County	\$11,716.29	county field is a county of another state and the applicant name does not identify a place in the declaring state
4390	2018-09-05	Minnkota Power Cooperative	Grand Forks County	\$4,720,531.89	county field is a county of another state and the applicant name does not identify a place in the declaring state
4182	2014-07-21	Sioux Valley Southwestern Electric Co-Op, INC. DBA Sioux Valley Energy	Moody County	\$25,544.66	county field is a county of another state and the applicant name does not identify a place in the declaring state
4113	2013-05-03	Sioux Valley Southwestern Electric Co-Op, INC. DBA Sioux Valley Energy	Moody County	\$315,762.30	county field is a county of another state and the applicant name does not identify a place in the declaring state
1921	2010-07-02	Dairyland Power Cooperative	La Crosse County	\$41,629.91	county field is a county of another state and the applicant name does not identify a place in the declaring state
1830	2009-04-09	Minnkota Power Cooperative	Grand Forks County	\$52,576.73	county field is a county of another state and the applicant name does not identify a place in the declaring state
1622	2006-01-04	Minnkota Power Cooperative	Grand Forks County	\$79,292.25	county field is a county of another state and the applicant name does not identify a place in the declaring state
1288	1999-08-26	Minnkota Power Cooperative	Grand Forks County	\$6,622.89	county field is a county of another state and the applicant name does not identify a place in the declaring state

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 <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Avalanche	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
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	20	3	0	4	0	0	1996 to 2026-06-30	Includes 1 Frost/Freeze record, event types the NRI definition of this hazard leaves out.
Drought	0	0	0	0	1	0	1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Earthquake	0	0	0	0	0	0		No Storm Events record; local data required (e.g., USGS).
Hail	586	34	28	75	1	0	1955 to 2026-06-30	
Heat Wave	17	0	2	5	0	0	1996 to 2026-06-30	
Hurricane	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Ice Storm	1	0	0	0	1	0	1996 to 2026-06-30	
Inland Flooding	62	4	0	4	11	0	1996 to 2026-06-30	
Landslide	0	0	0	0	1	0	1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Lightning	19	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	513	45	12	80	5	0	1955 to 2026-06-30	Includes 14 High Wind records and 4 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	31	0	0	0	6	0	1950 to 2026-06-30	
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	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Winter Weather	123	21	3	38	1	0	1996 to 2026-06-30	

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/>
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
2014-06-18	Flood		\$4,000,000 property; \$0 crops (2014 dollars)	0, 0	BROOKLYN PARK to ROGERS		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2013-06-21	Lightning		\$750,000 property; \$0 crops (2013 dollars)	0, 0	WOODLAND		B1-c worst recorded: Lightning
2012-07-03	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2012 dollars)	3, 0	NWS zone MNZ060 (HENNEPIN), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2012-04-10	Frost/Freeze		\$0 property; \$20,000 crops, reported for the zone (2012 dollars)	0, 0	NWS zone MNZ060 (HENNEPIN), zone-level: may include parts of neighboring counties		B1-c worst recorded: Frost/Freeze (outside NRI Cold Wave definition)

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2005-07-09	Heat		damage not reported	0, 0	NWS zone MNZ060 (HENNEPIN), zone-level: may include parts of neighboring counties		B1-c worst recorded: Excessive Heat, Heat
2000-04-05	High Wind	64 kt (74 mph) measured	damage not reported	0, 0	NWS zone MNZ060 (HENNEPIN), zone-level: may include parts of neighboring counties		B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
1996-01-31	Cold/Wind Chill		damage not reported	0, 0	NWS zone MNZ060 (HENNEPIN), zone-level: may include parts of neighboring counties		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
1980-07-15	Thunderstorm Wind	90 kt (104 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Thunderstorm Wind
1966-07-08	Hail	4 in	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Hail
1965-05-06	Tornado	F4, 5.9 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 667 yd wide	\$25,000,000 property; crops not recorded (1965 dollars)	6, 50	location not recorded		deaths or injuries recorded
1965-05-06	Tornado	F4, 4.6 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 300 yd wide	\$25,000,000 property; crops not recorded (1965 dollars)	0, 88	location not recorded		B1-c worst recorded: Tornado
1951-07-20	Tornado	F3, 11.6 mi path length (records before 1996 may include the whole path; rating and listing come from the county where the tornado began), 33 yd wide	\$25,000,000 property; crops not recorded (1951 dollars)	5, 40	location not recorded		deaths or injuries recorded

The full list is in the XLSX file, sheet "B1-d Storm Events history" (1,372 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		events per year					1994 to 2023 (30 years)	see B1-f	Not Applicable in NRI for this county; no descriptor.
Coastal Flooding		events per year at a location (modeled)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Cold Wave	8.95	event-days per year	about 8.95 days per year	Likely	event-days in 10 of 30 years, 1996 to 2025 (33.3%)	170	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 8.95 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 10 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	2.94	event-days per year	about 2.94 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	119	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No recorded event-days, 1996 to 2025; descriptor not assigned
Earthquake	0.000258	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0258%			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.
Hail	6.41	events per year	about 6.41 per year	Highly likely	FEMA annualized frequency (modeled)	243.9 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	6.68	event-days per year	about 6.68 days per year	Likely	event-days in 10 of 30 years, 1996 to 2025 (33.3%)	99	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 6.68 heat 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 10 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.
Hurricane		events per year					1851 to 2024 (Atlantic)	see B1-f	Not Applicable in NRI for this county; no descriptor.

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
Ice Storm	0.485	event-days per year	about 0.485 days per year	Possible	event-days in 1 of 30 years, 1996 to 2025 (3.33%)	33	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	1.54	event-days per year	about 1.54 days per year	Likely	event-days in 18 of 30 years, 1996 to 2025 (60%)	43	1996 to 2023 (28 years)	see B1-f	
Landslide	0.225	events per year (modeled)	about 1 in 4 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	36	days per year with a strike	about 36 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	4.57	events per year	about 4.57 per year	Highly likely	FEMA annualized frequency (modeled)	174	1986 to 2023 (38 years)	countywide	
Tornado	0.458	events per year	about 1 in 2 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Tsunami		annual probability at the most exposed location (used in place of a county value)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Volcanic Activity		annual probability				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Wildfire	0.000283	annual probability at a location	chance a given location in the county burns in a year: 0.0283%		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)
Winter Weather	16.6	event-days per year	about 16.6 days per year	Highly likely	event-days in 27 of 30 years, 1996 to 2025 (90%)	315	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)
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/>

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	259	30	8.63
Hail	2.00 in+	1996 to 2025	45	30	1.5
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	336	30	11.2
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	21	30	0.7
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	5	30	0.167
Tornado	EF0-1	1996 to 2025	11	30	0.367
Tornado	EF2-3	1996 to 2025	1	30	0.0333
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	0 of 329				Not Applicable 329	
Coastal Flooding	0 of 329				Not Applicable 329	
Cold Wave	329 of 329	16.1	86.6	97.5	Very High 19, Relatively High 249, Relatively Moderate 59, Relatively Low 1, 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.
Drought	49 of 329	66.8	70.0	90.0	Relatively Low 8, Very Low 41, No Rating 280	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. Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range above mostly reflects where crop and livestock value is, not where buildings and people are. Confirm locally.
Earthquake	329 of 329	0.2	3.3	41.0	Very Low 329	
Hail	329 of 329	62.6	85.2	99.7	Very High 6, Relatively High 93, Relatively Moderate 221, Relatively Low 9	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.
Heat Wave	329 of 329	1.8	77.8	93.8	Relatively High 81, Relatively Moderate 229, Relatively Low 18, 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.
Hurricane	0 of 329				Not Applicable 329	
Ice Storm	329 of 329	2.6	11.8	66.9	Relatively Low 22, Very Low 307	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	329 of 329	1.1	27.9	96.9	Very High 1, Relatively High 19, Relatively Moderate 73, Relatively Low 138, Very Low 98	
Landslide	326 of 329	14.2	55.9	94.3	Relatively Low 42, Very Low 284, No Rating 3	
Lightning	329 of 329	0.6	21.1	52.9	Relatively Moderate 1, Relatively Low 175, Very Low 153	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	329 of 329	20.9	51.6	97.7	Very High 1, Relatively High 9, Relatively Moderate 136, Relatively Low 183	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	Tracts rated of all	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Tornado	329 of 329	42.8	71.9	99.8	Very High 16, Relatively High 129, Relatively Moderate 171, Relatively Low 13	
Tsunami	0 of 329				Not Applicable 329	
Volcanic Activity	0 of 329				Not Applicable 329	
Wildfire	238 of 329	18.5	41.0	89.3	Relatively Moderate 2, Relatively Low 34, Very Low 202, No Rating 91	
Winter Weather	329 of 329	22.5	53.2	90.7	Relatively High 4, Relatively Moderate 224, Relatively Low 101	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 <i>FMA RL and SRL (44 CFR 77.2); repeat- flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Hennepin County	County	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	\$31,450,555.87	0; 0	Includes \$31,450,555.87 for declarations not counted as hazard incidents (DR-4531-MN, EM-3278-MN).
Bloomington city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 2	\$253,834.31	76; 1	
Brooklyn Center city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	\$43,370	21; 1	
Brooklyn Park city	City	Approved, expires 2029-05-02	FMA RL 1, SRL 0; any 1	\$107,471.51	34; 3	Includes \$27,256.74 for declarations not counted as hazard incidents (DR-4531-MN).
Champlin city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	\$58,303.57	19; 5	
Chanhassen city	City	Approved, expires 2031-05-03	FMA RL 0, SRL 0; any 0	none found	2; 0	Also approved under plan 109597 (Hennepin County HMP Update, expires 2029-05-02). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last.
Corcoran city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	\$92,979.69	15; 2	Includes \$14,582.79 for declarations not counted as hazard incidents (DR-4531-MN).
Crystal city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	\$72,951.04	12; 0	Includes \$23,295.65 for declarations not counted as hazard incidents (DR-4531-MN).

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Dayton city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 1	none found	8; 0	
Deephaven city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	\$9,829.42	22; 8	
Eden Prairie city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	\$294,606.11	57; 3	Includes \$29,842.25 for declarations not counted as hazard incidents (DR-4531-MN).
Edina city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 5	\$43,410.04	46; 3	
Excelsior city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	none found	7; 0	
Golden Valley city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 1	\$154,972.17	0; 0	Includes \$25,115.71 for declarations not counted as hazard incidents (DR-4531-MN).
Greenfield city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	\$16,573.53	5; 0	
Greenwood city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	none found	5; 2	
Hanover city	City	Approved, expires 2028-05-28	FMA RL 0, SRL 0; any 0	none found	0; 0	
Hopkins city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 1	\$30,176.38	24; 4	Includes \$30,176.38 for declarations not counted as hazard incidents (DR-4531-MN).
Independence city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	\$43,742.40	1; 0	
Long Lake city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	\$17,641.13	13; 0	
Loretto city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	none found	7; 1	
Maple Grove city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	\$118,921.55	22; 0	
Maple Plain city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	\$20,987.09	20; 0	
Medicine Lake city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 1	none found	1; 0	
Medina city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	\$15,604.94	5; 1	
Minneapolis city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 3	\$3,182,817.68	134; 11	Includes \$2,323,116.61 for declarations not counted as hazard incidents (EM-3278-MN).
Minnetonka Beach city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	none found	2; 0	

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>	
Minnetonka city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 1	\$192,251.81	14; 0	
Minnetrista city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	none found	9; 0	
Mound city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 1	\$125,003.44	15; 1	Includes \$4,483.11 for declarations not counted as hazard incidents (DR-4531-MN).
New Hope city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	\$86,615.78	11; 0	Includes \$28,583.29 for declarations not counted as hazard incidents (DR-4531-MN).
Orono city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 1	\$139,779.71	4; 0	
Osseo city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	\$13,578.78	33; 1	Includes \$13,578.78 for declarations not counted as hazard incidents (DR-4531-MN).
Plymouth city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	\$288,907.87	35; 4	Includes \$22,418.60 for declarations not counted as hazard incidents (DR-4531-MN).
Richfield city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	\$119,862.50	52; 5	Includes \$19,047.72 for declarations not counted as hazard incidents (DR-4531-MN).
Robbinsdale city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 1	\$150,152.11	22; 3	Includes \$43,879.46 for declarations not counted as hazard incidents (DR-4531-MN).
Rockford city	City	Approved, expires 2028-05-28	FMA RL 0, SRL 0; any 0	none found	11; 0	
Rogers city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	none found	24; 1	
Shorewood city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	\$77,200.85	4; 0	
Spring Park city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	\$19,991.06	1; 0	
St. Anthony city	City	Approved, expires 2030-06-03	FMA RL 0, SRL 0; any 0	none found	9; 3	Also approved under plan 109597 (Hennepin County HMP Update, expires 2029-05-02). FEMA's plan status map shows one plan per jurisdiction and may show one of these; this packet uses the approved plan that expires last.
St. Bonifacius city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	none found	10; 0	
St. Louis Park city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 1	\$370,321.22	33; 7	
Tonka Bay city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 1	\$25,020.95	1; 0	
Wayzata city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 3	\$115,997.38	5; 0	Includes \$20,295.70 for declarations not counted as hazard incidents (DR-4531-MN).
Woodland city	City	Approved, expires 2029-05-02	FMA RL 0, SRL 0; any 0	none found	3; 0	

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 2024-05-03 <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											Not Applicable in NRI for this county
Coastal Flooding											Not Applicable in NRI for this county
Cold Wave	\$298,592,651,609	\$75,400,447	1,281,172	\$3,555	\$1,008	\$101,860,614	under 0.0001%		\$0		
Drought		\$39,674,075			\$84,444		0.213% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$530,164,972,240		1,281,565	\$244,017		\$81,238	under 0.0001%				
Hail	\$298,592,651,609	\$75,400,447	1,281,172	\$30,982,767	\$74,263	\$182,621	0.0104%		\$0		
Heat Wave	\$298,592,651,609	\$75,400,447	1,281,172	\$988	\$2	\$39,285,378	under 0.0001%				
Hurricane											Not Applicable in NRI for this county
Ice Storm	\$298,522,569,918		1,280,722	\$371,852		\$103,605	0.000125%				

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 2024-05-03 <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
Inland Flooding	\$298,445,436,608	\$5,379,589	9,670	\$188,244,797	\$74,946	\$56,377	n/a (see note)	\$0			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	\$4,739,103,421		17,955	\$16,795		\$9,722	0.000354%				
Lightning	\$298,592,651,609		1,281,172	\$143,584		\$1,321,931	under 0.0001%				
Strong Wind	\$298,592,651,609	\$75,400,447	1,281,172	\$6,869,394	\$37,163	\$1,786,532	0.0023%	\$0	\$0		
Tornado	\$298,592,651,609	\$75,400,447	1,281,172	\$39,942,377	\$1,720	\$43,046,013	0.0134%				
Tsunami											Not Applicable in NRI for this county
Volcanic Activity											Not Applicable in NRI for this county
Wildfire	\$20,036,437,393	\$23,609,676	102,318	\$281,131	\$62	\$27,898	0.0014%				
Winter Weather	\$298,592,651,609	\$75,400,447	1,281,172	\$393,270	\$412	\$894,406	0.000132%		\$0		

Totals since 2024-05-03 (Storm Events through 2026-06-30): 82 county-coded records, 82 with a damage value recorded (including \$0), \$0; 25 zone-level records, 25 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance on counted declarations none found (0 declarations, 0 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	1,281,172
Building value (total, not at risk)	\$298,592,651,609
Agriculture value (total, not at risk)	\$75,400,447
NRI risk rating (all hazards)	Relatively High
Expected annual loss, buildings and agriculture, all hazards	\$267,768,545
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)	\$188,656,336
Social vulnerability rating	Relatively Low
Community resilience rating	Very High
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)	1	Severe repetitive loss, FMA definition (44 CFR 77.2)	0
Repetitive loss, NFIP insurance definition	25	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	1	0	25	0	25	0	10
BROOKLYN PARK, CITY OF	1	0	1	0	1	0	1
DAYTON, CITY OF	0	0	1	0	1	0	1
EDINA, CITY OF	0	0	5	0	5	0	2
GOLDEN VALLEY, CITY OF	0	0	1	0	1	0	1

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>
HOPKINS, CITY OF	0	0	1	0	1	0	0
MINNEAPOLIS, CITY OF	0	0	3	0	3	0	1
MINNETONKA, CITY OF	0	0	1	0	1	0	1
MOUND, CITY OF	0	0	1	0	1	0	0
ORONO, CITY OF	0	0	1	0	1	0	1
ROBBINSDALE, CITY OF	0	0	1	0	1	0	0
ST. LOUIS PARK, CITY OF	0	0	1	0	1	0	0
TONKA BAY, CITY OF	0	0	1	0	1	0	0
WAYZATA, CITY OF	0	0	3	0	3	0	1
MEDICINE LAKE, CITY OF	0	0	1	0	1	0	0
BLOOMINGTON, CITY OF	0	0	2	0	2	0	1
Unknown (community ID Unknown in FEMA data)	0	0	1	0	1	0	0

SOURCESFEMA, 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
Hennepin County	270149	0	0	0	0	0	0	0	
Bloomington city	275230	0	0	2	0	2	0	1	
Brooklyn Center city	270151	0	0	0	0	0	0	0	
Brooklyn Park city	270152	1	0	1	0	1	0	1	
Champlin city	270153	0	0	0	0	0	0	0	
Chanhassen city	270051	0	0	0	0	0	0	0	
Corcoran city	270155	0	0	0	0	0	0	0	
Crystal city	270156	0	0	0	0	0	0	0	
Dayton city	270157	0	0	1	0	1	0	1	
Deephaven city	270158	0	0	0	0	0	0	0	
Eden Prairie city	270159	0	0	0	0	0	0	0	
Edina city	270160	0	0	5	0	5	0	2	
Excelsior city	270161	0	0	0	0	0	0	0	
Golden Valley city	270162	0	0	1	0	1	0	1	
Greenfield city	270673	0	0	0	0	0	0	0	
Greenwood city	270164	0	0	0	0	0	0	0	
Hanover city	270540	0	0	0	0	0	0	0	

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
Hopkins city	270166	0	0	1	0	1	0	0	
Independence city	270167	0	0	0	0	0	0	0	
Long Lake city	270168	0	0	0	0	0	0	0	
Loretto city	270659	0	0	0	0	0	0	0	
Maple Grove city	270169	0	0	0	0	0	0	0	
Maple Plain city	270170	0	0	0	0	0	0	0	
Medicine Lake city	270690	0	0	1	0	1	0	0	
Medina city	270171	0	0	0	0	0	0	0	
Minneapolis city	270172	0	0	3	0	3	0	1	
Minnetonka Beach city	270174	0	0	0	0	0	0	0	
Minnetonka city	270173	0	0	1	0	1	0	1	
Minnetrista city	270175	0	0	0	0	0	0	0	
Mound city	270176	0	0	1	0	1	0	0	
New Hope city	270177	0	0	0	0	0	0	0	
Orono city	270178	0	0	1	0	1	0	1	
Osseo city	270658	0	0	0	0	0	0	0	
Plymouth city	270179	0	0	0	0	0	0	0	
Richfield city	270180	0	0	0	0	0	0	0	
Robbinsdale city	270181	0	0	1	0	1	0	0	
Rockford city	270182	0	0	0	0	0	0	0	
Rogers city	270775	0	0	0	0	0	0	0	
Shorewood city	270185	0	0	0	0	0	0	0	
Spring Park city	270186	0	0	0	0	0	0	0	
St. Anthony city	270716	0	0	0	0	0	0	0	
St. Bonifacius city	270183	0	0	0	0	0	0	0	
St. Louis Park city	270184	0	0	1	0	1	0	0	
Tonka Bay city	270187	0	0	1	0	1	0	0	
Wayzata city	270188	0	0	3	0	3	0	1	
Woodland city	270189	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	1	0	21	0	21	0	10
2 to 4 unit residential	0	0	1	0	1	0	0
other residential	0	0	1	0	1	0	0
non-residential	0	0	2	0	2	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 fmaRI 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 24 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_Gazetteer/2024_Gaz_place_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_unsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_elsd_national.zip, <https://www2.census.gov/geo/docs/maps-data/data/>

gazetteer/2024_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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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_MN_27053. Preview: automated baseline.