

Jackson County, IL

Risk-assessment baseline packet

County FIPS: 17077 Release: 2026-10 Data as of: 2026-09-30 Storm Events data through: 2026-06-30

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Summary

Plan status as of 2026-09-30: Approved, expires 2028-04-05. Plan: Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851), approved 2023-04-06. Since the plan was approved on 2023-04-06: no new hazard declaration and 115 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 (\$20,083,464 a year), Inland Flooding (\$12,953,236) and Cold Wave (\$5,152,178). 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; 17077 is this area.
D0 to D4: U.S. Drought Monitor categories, from abnormally dry (D0) to exceptional drought (D4).
F/EF, EFU: Fujita and Enhanced Fujita tornado ratings; EFU is an unrated tornado.
kt, CONUS: knots (1 kt is about 1.15 mph); the contiguous United States.
CFR: Code of Federal Regulations.
A4-a, E1-a: other items of FEMA's Local Mitigation Plan Review Tool (sources, and changes since the last plan).
Dollars: nominal (as reported, labeled with the year), not adjusted for inflation.

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Plan clock

Status:	Approved, expires 2028-04-05	Plan:	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851)
Approved:	2023-04-06	Days to expiry:	553

What changed since your last plan (approved 2023-04-06)

New federal declarations:	none	Storm Events records since approval:	115 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 0, SRL 1 (44 CFR 77.2); any definition: 8	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: 22 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" on the following pages.

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

Plan clock

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Jackson County	County	Approved, expires 2028-04-05	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851)	2023-04-06	2028-04-05	553		this jurisdiction approved 2023-05-01
Ava city	City	Approved, expires 2028-04-05	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851)	2023-04-06	2028-04-05	553		this jurisdiction approved 2023-05-01
Campbell Hill village	Village	Approved, expires 2028-04-05	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851)	2023-04-06	2028-04-05	553		this jurisdiction approved 2023-06-09
Carbondale city	City	Approved, expires 2028-04-05	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851)	2023-04-06	2028-04-05	553		this jurisdiction approved 2023-08-25
De Soto village	Village	Approved, expires 2028-04-05	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851)	2023-04-06	2028-04-05	553		this jurisdiction approved 2023-04-12
Dowell village	Village	Approved, expires 2028-04-05	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851)	2023-04-06	2028-04-05	553		this jurisdiction approved 2023-04-20
Elkville village	Village	Approved, expires 2028-04-05	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851)	2023-04-06	2028-04-05	553		this jurisdiction approved 2023-08-25
Gorham village	Village	Approved, expires 2028-04-05	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851)	2023-04-06	2028-04-05	553		this jurisdiction approved 2023-04-20
Grand Tower city	City	Approved, expires 2028-04-05	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851)	2023-04-06	2028-04-05	553		this jurisdiction approved 2023-04-20
Makanda village	Village	Approved, expires 2028-04-05	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851)	2023-04-06	2028-04-05	553		this jurisdiction approved 2023-08-25
Murphysboro city	City	Approved, expires 2028-04-05	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851)	2023-04-06	2028-04-05	553		this jurisdiction approved 2023-04-12
Vergennes village	Village	Approved, expires 2028-04-05	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851)	2023-04-06	2028-04-05	553		this jurisdiction approved 2023-05-18
Carbondale Community High School District 165	School/School District	Plan 108851 approved 2023-04-06, pending adoption here; not yet eligible	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851), pending adoption here	2023-04-06 by FEMA; not yet adopted here	2028-04-05 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Carbondale Elementary School District 95	School/School District	Plan 108851 approved 2023-04-06, pending adoption here; not yet eligible	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851), pending adoption here	2023-04-06 by FEMA; not yet adopted here	2028-04-05 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
De Soto Consolidated School District 86	School/School District	Plan 108851 approved 2023-04-06, pending adoption here; not yet eligible	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851), pending adoption here	2023-04-06 by FEMA; not yet adopted here	2028-04-05 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Du Quoin Community Unit School District 300	School/School District	Plan 108913 approved 2023-04-04, pending adoption here; not yet eligible	Perry County 2023 Hazard Mitigation Plan (FEMA plan 108913), pending adoption here	2023-04-04 by FEMA; not yet adopted here	2028-04-03 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Elverado Community Unit School District 196	School/School District	Plan 108851 approved 2023-04-06, pending adoption here; not yet eligible	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851), pending adoption here	2023-04-06 by FEMA; not yet adopted here	2028-04-05 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Giant City Community Consolidated School District 130	School/School District	Plan 108853 approved 2023-07-05, pending adoption here; not yet eligible	Williamson County 2023 Hazard Mitigation Plan (FEMA plan 108853), pending adoption here	2023-07-05 by FEMA; not yet adopted here	2028-07-04 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Murphysboro Community Unit School District 186	School/School District	Plan 108851 approved 2023-04-06, pending adoption here; not yet eligible	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851), pending adoption here	2023-04-06 by FEMA; not yet adopted here	2028-04-05 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Trico Community Unit School District 176	School/School District	Plan 108851 approved 2023-04-06, pending adoption here; not yet eligible	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851), pending adoption here	2023-04-06 by FEMA; not yet adopted here	2028-04-05 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Unity Point Community Consolidated School District 140	School/School District	Plan 108851 approved 2023-04-06, pending adoption here; not yet eligible	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851), pending adoption here	2023-04-06 by FEMA; not yet adopted here	2028-04-05 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Southern Illinois Airport Authority	Transit/Airport	Plan 108851 approved 2023-04-06, pending adoption here; not yet eligible	Jackson County 2023 Hazard Mitigation Plan (FEMA plan 108851), pending adoption here	2023-04-06 by FEMA; not yet adopted here	2028-04-05 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

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

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

Sources: 5, 6

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
1	Earthquake	Relatively Moderate	Relatively Moderate	\$10,840,083	n/a	\$9,243,382	\$20,083,464		Storm Events does not record earthquakes.
2	Inland Flooding	Relatively Moderate	Relatively Low	\$12,764,874	\$13,893	\$174,469	\$12,953,236	203	
3	Cold Wave	Relatively High	Relatively High	\$388	\$169,806	\$4,981,984	\$5,152,178	85	Includes 58 Frost/Freeze records (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
4	Strong Wind	Very High	Relatively High	\$3,943,169	\$151,803	\$880,716	\$4,975,688	267	Includes 12 High Wind and 102 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
5	Heat Wave	Relatively Moderate	Relatively Moderate	\$110	\$4	\$2,421,731	\$2,421,844	86	
6	Tornado	Relatively Moderate	Relatively Moderate	\$1,249,072	\$887	\$1,027,312	\$2,277,271	24	
7	Hail	Relatively Moderate	Relatively Low	\$580,651	\$1,322	\$19,056	\$601,029	119	
8	Lightning	Relatively Moderate	Relatively Moderate	\$13,100	n/a	\$538,214	\$551,315	3	
9	Winter Weather	Relatively High	Relatively High	\$261,420	\$298	\$66,778	\$328,496	111	
10	Ice Storm	Relatively Moderate	Relatively Moderate	\$248,216	n/a	\$41,702	\$289,918	6	
11	Drought	Relatively Low	Relatively Low	n/a	\$205,745	n/a	\$205,745	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
12	Landslide	Relatively Moderate	Relatively Low	\$4,637	n/a	\$87,743	\$92,379	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
13	Hurricane	Very Low	Very Low	\$23,035	\$7,198	\$169	\$30,402	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Wildfire	Very Low	Very Low	\$2,241	\$4	\$610	\$2,855	1	

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 records (Storm Events records this hazard only in part).

Not applicable to this county per NRI, with no federal declaration and no Storm Events record since 1996: avalanche, coastal flooding, tsunami and volcanic activity. That is the evidence for leaving them out of the plan.

The state hazard mitigation plan also lists hazards for this county; FEMA asks the plan to explain any hazard it leaves out.

Supports FEMA checklist item B1-b: hazard location

Affects the whole county (national data give no location within it): Cold Wave, Drought, Hail, Heat Wave, Ice Storm, Lightning, Strong Wind and Winter Weather.

Inland Flooding: The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center (<https://msc.fema.gov>) for this county.

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

Source: 5

Hazard	Highest-rated census tracts <i>NRI risk rating, score 0 to 100</i>
Earthquake	tract 117.02 (Very High, 98.6); tract 112 (Very High, 98.2); tract 110.02 (Relatively High, 96.6)
Hurricane	tract 101 (Very Low, 47.1); tract 117.02 (Very Low, 46.0); tract 112 (Very Low, 45.3)
Landslide	tract 103 (Relatively High, 99.5); tract 116 (Relatively Moderate, 98.1); tract 101 (Relatively Moderate, 97.3)
Tornado	tract 112 (Relatively High, 85.4); tract 117.02 (Relatively High, 80.7); tract 110.02 (Relatively High, 80.1)
Wildfire	tract 114 (Very Low, 66.6); tract 110.02 (Very Low, 55.4); tract 104 (Very Low, 54.8)

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 117.02 is Census Tract 117.02). FEMA's Resilience Analysis and Planning Tool maps the National Risk Index for every tract: <https://www.fema.gov/emergency-managers/practitioners/resilience-analysis-and-planning-tool>

Supports FEMA checklist item B1-c: hazard extent

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

Sources: 6, 7

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	27 records, 1996 to 2026 (27 zone-level)	1 day to 24 days (median 1 day); 24 with a recorded value	2000-12-12 to 2001-01-04 (2 records, 1 of them a monthly summary record), zone-level	Cold/Wind Chill, 2015-02-19, \$8,000 property; \$0 crops (zone total, 2015 dollars)	Countywide (zone-level records).	
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	58 records, 1997 to 2024 (58 zone-level)		Frost/Freeze, 2007-04-08, \$3,000,000 crop damage (2007 dollars); NWS zone ILZ084		Countywide (zone-level records).	
Drought	U.S. Drought Monitor scale (D0 to D4)	30 records, 1998 to 2026 (30 zone-level)	17 days to 153 days (median 38.5 days); 14 with a recorded value	153 days (5 months), 1999-08-01 to 1999-12-31, a run of 5 consecutive Storm Events drought records, zone-level	Drought, 2007-09-01, \$0 property; \$3,450,000 crops (zone total, 2007 dollars)	Countywide (zone-level records).	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)	154 records, 1963 to 2026	0.75 in to 3 in (median 1 in); 154 with a recorded value	3 in hail, 1971-08-21	Hail, 2002-05-02, \$1,000,000 property; crops not reported (2002 dollars)	Event records naming jurisdictions in the plan: Carbondale city (37 records), Murphysboro city (30 records), Campbell Hill village (10 records), De Soto village (9 records), Ava city (5 records), Dowell village (5 records), Vergennes village (5 records), Elkhville village (4 records), Grand Tower city (4 records), Gorham village (3 records); and 1 more jurisdiction (see the Excel file).	
Excessive Heat, Heat	heat index (in event narratives)	86 records, 1997 to 2025 (86 zone-level)	1 day to 14 days (median 2 days); 74 with a recorded value	14 consecutive days, 1999-07-18 to 1999-07-31, zone-level		Countywide (zone-level records).	Heat records from November to March (unseasonable warmth, not a heat wave) are counted but not used for the longest run.
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's type; flooding from the storm is filed as Flood or Flash Flood records.
Ice Storm	Sperry-Piltz ice scale (local data)	6 records, 1997 to 2025 (6 zone-level)		Ice Storm, 2025-01-05, \$200,000 property; \$0 crops (2025 dollars); NWS zone ILZ084		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)	203 records, 1996 to 2024 (69 zone-level)		Flood, 2008-03-18, \$1,800,000 property; \$0 crops (2008 dollars)		Event records naming jurisdictions in the plan: Murphysboro city (54 records), Carbondale city (21 records), Grand Tower city (15 records), Gorham village (6 records), Ava city (4 records), Vergennes village (4 records), De Soto village (2 records), Makanda village (2 records), Campbell Hill village (1 record), Dowell village (1 record); and 1 more jurisdiction (see the Excel file). Zone-level records (69) apply countywide.	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)	3 records, 2000 to 2010		Lightning, 2007-03-29, \$0 property; \$0 crops (2007 dollars), 1 direct death	Lightning, 2000-08-07, \$10,000 property; crops not reported (2000 dollars)	Event records naming jurisdictions in the plan: Carbondale city (2 records), Murphysboro city (1 record).	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	114 records, 1996 to 2026 (114 zone-level)	29 kt (33 mph) to 57 kt (66 mph) (median 43 kt (49 mph)); 110 with a recorded value	57 kt (66 mph) measured gust, High Wind, 2025-03-19; NWS zone ILZ084	High Wind, 2008-09-14, \$1,500,000 property; \$0 crops (zone total, 2008 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	239 records, 1956 to 2026	50 kt (58 mph) to 100 kt (115 mph) (median 52 kt (60 mph)); 192 with a recorded value	100 kt (115 mph) estimated, Thunderstorm Wind, 2000-01-03	Thunderstorm Wind, 2009-05-08, \$100,000,000 property; \$0 crops (2009 dollars)	Event records naming jurisdictions in the plan: Murphysboro city (42 records), Carbondale city (37 records), Ava city (14 records), De Soto village (10 records), Grand Tower city (10 records), Makanda village (9 records), Vergennes village (9 records), Campbell Hill village (6 records), Gorham village (5 records), Elkhart village (4 records).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	39 records, 1951 to 2025	F/EF0 to F/EF4 (median F/EF1); 39 with a recorded value	F4 tornado, 1957-12-18, 19.5 mi path length (whole path, pre-1996), 300 yd wide, \$2,500,000 property; crops not recorded (1957 dollars), 11 direct deaths, 180 direct injuries	Tornado, 2017-02-28, \$6,000,000 property; \$0 crops (2017 dollars)	Event records naming jurisdictions in the plan: Murphysboro city (4 records), Dowell village (3 records), De Soto village (2 records), Elkhart village (2 records), Vergennes village (2 records), Ava city (1 record), Gorham village (1 record), Grand Tower city (1 record), Makanda village (1 record).	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).

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)	1 record, 2010 (1 zone-level)		Wildfire, 2010-11-08, \$75,000 property; \$0 crops (2010 dollars); NWS zone ILZ084		Countywide (zone-level records).	
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	111 records, 1996 to 2026 (111 zone- level)		Winter Storm, 2008-02-11, \$500,000 property; \$0 crops (2008 dollars); NWS zone ILZ084		Countywide (zone-level records).	

Where a hazard names more than 10 jurisdictions, the table lists the 10 with the most records; every one is in the Excel file, sheet "B1-c Extent".

In event narratives only (local data needed): wind chill, temperature, heat index, ice thickness, acres burned and snow depth; any physical measure of debris flow and lightning.

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: 15 declarations covering 12 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>	Notes
2020-03-26	2020-01-20	DR-4489-IL	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$4,785,969.42	
2020-03-13	2020-01-20	EM-3435-IL	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded	same incident as DR-4489
2019-09-19	2019-02-24	DR-4461-IL	Major disaster	Severe Storms and Flooding	Inland Flooding	\$1,580,747.02	
2011-06-07	2011-04-19	DR-1991-IL	Major disaster	Severe Storms and Flooding	Inland Flooding	\$1,027,301.47	
2009-07-02	2009-05-08	DR-1850-IL	Major disaster	Severe Storms, Flooding, and Tornadoes	Inland Flooding; Tornado	\$7,432,362.48	
2005-09-07	2005-08-29	EM-3230-IL	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded	
2005-02-01	2004-12-21	EM-3199-IL	Emergency	Record/Near Record Snow	Winter Weather	\$75,018.12	
2002-05-21	2002-04-21	DR-1416-IL	Major disaster	Severe Storms, Tornadoes and Flooding	Tornado (primary); also designated: Inland Flooding	\$95,857.24	

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Notes
						<i>federal share obligated, nominal dollars</i>	
1996-05-06	1996-04-28	DR-1112-IL	Major disaster	Severe Storms and Flooding	Inland Flooding	no Public Assistance recorded	
1995-05-30	1995-05-15	DR-1053-IL	Major disaster	Severe Storms and Flooding	Inland Flooding	no Public Assistance recorded	
1993-07-09	1993-04-13	DR-997-IL	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded	
1983-06-06	1983-06-06	DR-684-IL	Major disaster	Severe Storms, Tornadoes & Flooding	Inland Flooding; Tornado	no Public Assistance recorded	
1979-04-30	1979-04-30	DR-583-IL	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded	
1973-04-26	1973-04-26	DR-373-IL	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded	
1969-08-30	1969-08-30	DR-276-IL	Major disaster	Heavy Rains & Flooding	Inland Flooding	no Public Assistance recorded	

School districts and special districts in this county: \$32,503.30 (included in the county total above). Public Assistance matched by applicant name to the school districts and special districts FEMA lists as plan participants in this county. They have no row of their own in the jurisdiction table, 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), so this line is not added to it.

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
1961-05-27	1961-05-27	DR-115-IL	Major disaster	Floods & Tornadoes	Inland Flooding (primary); also designated: Tornado
1957-06-22	1957-06-22	DR-78-IL	Major disaster	Floods	Inland Flooding

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.

Public Assistance filed under this county for declarations that do not list it: 2 rows, \$125,666.93

Sources: 2, 3

FEMA number	Declared	Title	Applicant	PA obligated
				<i>federal share obligated, nominal dollars</i>
DR-1681-IL	2007-02-09	Severe Winter Storm	Egyptian Electric Cooperative Association	\$18,777.56
DR-1633-IL	2006-03-28	Tornadoes and Severe Storms	Egyptian Electric Cooperative Association	\$106,889.37

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

Public Assistance not placed in any Illinois county: 1 row, \$797,909.42; listed on the Illinois state page.

Source: 3

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Cold Wave	85	14	3	18	0	0	1996 to 2026-06-30	Includes 58 Frost/Freeze records.
Drought	30	6	3	9	0	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	154	24	1	25	0	0	1955 to 2026-06-30	
Heat Wave	86	17	6	23	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
Ice Storm	6	1	0	1	0	0	1996 to 2026-06-30	
Inland Flooding	203	7	5	14	11	0	1996 to 2026-06-30	
Landslide	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Lightning	3	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	353	36	22	69	0	0	1955 to 2026-06-30	Includes 12 High Wind and 102 Strong Wind records.
Tornado	39	4	0	4	3	0	1950 to 2026-06-30	
Wildfire	1	0	0	0	0	0	1996 to 2026-06-30	
Winter Weather	111	6	6	16	1	0	1996 to 2026-06-30	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Flags	Why listed
2025-03-19	High Wind	57 kt (66 mph) measured gust	\$1,000 property; \$0 crops (zone total, 2025 dollars)	0, 0	NWS zone ILZ084 (JACKSON), zone-level	new since last plan; within last 5 years	B1-c worst recorded: High Wind and Strong Wind
2014-02-13	Cold/Wind Chill		\$0 property; \$0 crops (zone total, 2014 dollars)	1, 0	NWS zone ILZ084 (JACKSON), zone-level		deaths or injuries recorded
2009-05-08	Thunderstorm Wind	92 kt (106 mph) estimated gust	\$100,000,000 property; \$0 crops (2009 dollars)	1, 6	NEUNERT to REEDS		deaths or injuries recorded
2008-03-18	Flood		\$1,800,000 property; \$0 crops (2008 dollars)	0, 0	AVA to GORHAM		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2008-02-11	Winter Storm		\$500,000 property; \$0 crops (zone total, 2008 dollars)	0, 0	NWS zone ILZ084 (JACKSON), zone-level		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2007-04-08	Frost/Freeze		\$0 property; \$3,000,000 crops (zone total, 2007 dollars)	0, 0	NWS zone ILZ084 (JACKSON), zone-level		B1-c worst recorded: Frost/Freeze
2007-03-29	Lightning		\$0 property; \$0 crops (2007 dollars)	1, 0	CARBONDALE		B1-c worst recorded: Lightning
2000-12-12	Extreme Cold/ Wind Chill		damage not reported	0, 0	NWS zone ILZ084 (JACKSON), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2000-01-03	Thunderstorm Wind	100 kt (115 mph) estimated	\$150,000 property; crops not reported (2000 dollars)	0, 0	CARBONDALE		B1-c worst recorded: Thunderstorm Wind
1999-07-18	Heat		damage not reported	0, 0	NWS zone ILZ084 (JACKSON), zone-level		B1-c worst recorded: Excessive Heat, Heat
1971-08-21	Hail	3 in	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Hail
1957-12-18	Tornado	F4, 19.5 mi path length (whole path, pre-1996), 300 yd wide	\$2,500,000 property; crops not recorded (1957 dollars)	11, 180	location not recorded		deaths or injuries recorded

The full list is in the Excel file, sheet "B1-d Storm Events history" (1,071 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).

FEMA's declaration data list no tribal or special-area declarations for this state.

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
Cold Wave	1.21	event-days per year	about 1.21 days per year	Likely	Storm Events event- days in 16 of 30 years, 1996 to 2025 (53.3%)	23	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	4.14	event-days per year	about 4.14 days per year	Likely	Storm Events event- days in 11 of 30 years, 1996 to 2025 (36.7%)	119	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.00824	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.824%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	3.82	events per year	about 3.82 per year	Highly likely	FEMA annualized frequency (modeled)	145.1 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	10.6	event-days per year	about 10.6 days per year	Likely	Storm Events event- days in 26 of 30 years, 1996 to 2025 (86.7%)	147	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.0152	events per year	about 1 in 66 years	Possible	FEMA annualized frequency (modeled)	4	1851 to 2024 (Atlantic)	see B1-f	NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are in B1-d.
Ice Storm	0.671	event-days per year	about 0.671 days per year	Likely	Storm Events event- days in 5 of 30 years, 1996 to 2025 (16.7%)	46	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	6.07	event-days per year	about 6.07 days per year	Highly likely	Storm Events event- days in 29 of 30 years, 1996 to 2025 (96.7%)	170	1996 to 2023 (28 years)	see B1-f	
Landslide	1.12	events per year (modeled)	about 1.12 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	53.7	days per year with a strike	about 53.7 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Strong Wind	4.56	events per year	about 4.56 per year	Highly likely	FEMA annualized frequency (modeled)	173	1986 to 2023 (38 years)	countywide	
Tornado	0.509	events per year	about 0.51 per year	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Wildfire	0.000133	annual probability at a location	chance a given location in the county burns in a year: 0.0133%	Possible	Storm Events records in 1 of 30 years, 1996 to 2025 (3.33%)	not shown	modeled	see B1-f	
Winter Weather	8.05	event-days per year	about 8.05 days per year	Highly likely	Storm Events event- days in 29 of 30 years, 1996 to 2025 (96.7%)	153	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	66	30	2.2
Hail	2.00 in+	1996 to 2025	3	30	0.1
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	135	30	4.5
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	13	30	0.433
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	2	30	0.0667
Tornado	EF0-1	1996 to 2025	21	30	0.7
Tornado	EF2-3	1996 to 2025	3	30	0.1
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	
Cold Wave	17 of 17	76.9	91.6	97.5	Very High 4, Relatively High 12, Relatively Moderate 1
Drought	16 of 17	70.3	80.7	95.3	Relatively Moderate 3, Relatively Low 8, Very Low 5, No Rating 1
Earthquake	17 of 17	84.1	93.4	98.6	Very High 2, Relatively High 10, Relatively Moderate 5
Hail	17 of 17	60.9	79.8	88.6	Relatively Moderate 15, Relatively Low 2
Heat Wave	17 of 17	70.6	89.1	95.3	Relatively High 13, Relatively Moderate 4
Hurricane	17 of 17	27.4	39.5	47.1	Very Low 17
Ice Storm	17 of 17	55.7	82.4	92.6	Relatively High 2, Relatively Moderate 13, Relatively Low 2
Inland Flooding	17 of 17	10.4	69.1	93.9	Relatively High 6, Relatively Moderate 7, Relatively Low 3, Very Low 1
Landslide	17 of 17	35.7	72.3	99.5	Relatively High 1, Relatively Moderate 3, Relatively Low 2, Very Low 11
Lightning	17 of 17	61.4	86.8	96.6	Very High 1, Relatively High 12, Relatively Moderate 4
Strong Wind	17 of 17	91.9	99.0	99.8	Very High 15, Relatively High 2

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	17 of 17	48.6	67.2	85.4	Relatively High 5, Relatively Moderate 10, Relatively Low 2
Wildfire	17 of 17	23.8	46.0	66.6	Very Low 17
Winter Weather	17 of 17	75.2	93.9	97.8	Very High 5, Relatively High 11, Relatively Moderate 1

Drought: Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range mostly reflects where crop and livestock value is.

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, drought, hail, heat wave, ice storm, lightning, strong wind and winter weather are county-wide or coarse (49 km grid or NWS zone), the same for every jurisdiction; the tract range mostly reflects where buildings and people are (crop and livestock value where a line above names agriculture).

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
Jackson County	County	Approved, expires 2028-04-05	FMA RL 0, SRL 0; any 1	no Public Assistance recorded	0 total; 0 since its plan	
Ava city	City	Approved, expires 2028-04-05	FMA RL 0, SRL 0; any 0	\$19,211.37	24 total; 2 since its plan	
Campbell Hill village	Village	Approved, expires 2028-04-05	FMA RL 0, SRL 0; any 0	\$7,737	17 total; 1 since its plan	
Carbondale city	City	Approved, expires 2028-04-05	FMA RL 0, SRL 1; any 4	\$1,306,240.55	97 total; 9 since its plan	Includes \$27,189.68 for declarations not counted as hazard incidents (DR-4489-IL).
De Soto village	Village	Approved, expires 2028-04-05	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	23 total; 4 since its plan	
Dowell village	Village	Approved, expires 2028-04-05	FMA RL 0, SRL 0; any 1	no Public Assistance recorded	9 total; 1 since its plan	
Elkville village	Village	Approved, expires 2028-04-05	FMA RL 0, SRL 0; any 0	\$41,246.72	11 total; 0 since its plan	
Gorham village	Village	Approved, expires 2028-04-05	FMA RL 0, SRL 0; any 0	\$13,411.71	15 total; 4 since its plan	
Grand Tower city	City	Approved, expires 2028-04-05	FMA RL 0, SRL 0; any 0	\$1,020,307.25	30 total; 3 since its plan	
Makanda village	Village	Approved, expires 2028-04-05	FMA RL 0, SRL 0; any 1	\$16,354.94	14 total; 2 since its plan	
Murphysboro city	City	Approved, expires 2028-04-05	FMA RL 0, SRL 0; any 1	\$351,018.26	131 total; 6 since its plan	
Vergennes village	Village	Approved, expires 2028-04-05	FMA RL 0, SRL 0; any 0	\$2,534.14	20 total; 5 since its plan	

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

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

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 2023-04-06 <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
Cold Wave	\$13,407,445,236	\$112,236,944	52,912	\$388	\$169,806	\$4,981,984	under 0.0001%		\$0		
Drought	n/a	\$55,501,787	n/a	n/a	\$205,745	n/a	0.371% (agriculture)		\$0		NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$24,378,493,709	n/a	52,974	\$10,840,083	n/a	\$9,243,382	0.0445%				
Hail	\$13,407,445,498	\$112,236,944	52,912	\$580,651	\$1,322	\$19,056	0.00433%	\$0			
Heat Wave	\$13,407,445,236	\$112,236,944	52,912	\$110	\$4	\$2,421,731	under 0.0001%		\$0		
Hurricane	\$13,407,445,236	\$110,903,673	52,912	\$23,035	\$7,198	\$169	0.000172%				
Ice Storm	\$13,407,445,236	n/a	52,912	\$248,216	n/a	\$41,702	0.00185%		\$200,000		
Inland Flooding	\$13,397,919,122	\$41,314,863	1,834	\$12,764,874	\$13,893	\$174,469	n/a (see note)	\$55,000			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	\$261,355,142	n/a	1,104	\$4,637	n/a	\$87,743	0.00177%				
Lightning	\$13,407,445,498	n/a	52,912	\$13,100	n/a	\$538,214	under 0.0001%				
Strong Wind	\$13,407,445,498	\$112,236,944	52,912	\$3,943,169	\$151,803	\$880,716	0.0294%	\$262,100	\$18,000		Storm Events damage since the plan includes 2 zone-level High Wind records (\$2,000) and 16 zone-level Strong Wind records (\$16,000): NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition.
Tornado	\$13,407,445,498	\$112,236,944	52,912	\$1,249,072	\$887	\$1,027,312	0.00932%	\$377,000			

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 2023-04-06 <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	\$419,377,104	\$4,749,816	2,945	\$2,241	\$4	\$610	0.000534%				
Winter Weather	\$13,407,445,236	\$112,236,944	52,912	\$261,420	\$298	\$66,778	0.00195%		\$0		

Totals since 2023-04-06 (Storm Events through 2026-06-30): 53 county-coded records, 53 with a damage value recorded (including \$0), \$694,100; 62 zone-level records, 62 with a damage value recorded (including \$0), \$218,000 reported for the zone; Public Assistance: no counted declaration since the plan.

FEMA does not split Public Assistance by hazard. A declaration mapped to several hazards is listed under each of them with its full amount, so the per-hazard column does not add up to the total; the unit total counts each declaration once.

NRI computes earthquake exposure on its own basis, so it exceeds the county building value in B2-a.

Supports FEMA checklist item B2-a: vulnerability (county context)

County context

Source: 5

Measure	Value
Population	52,912
Building value (total, not at risk)	\$13,407,445,498
Agriculture value (total, not at risk)	\$112,236,944
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$30,481,956
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)	\$19,483,866
Social vulnerability rating	Relatively High
Community resilience rating	Relatively High
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)	1
Repetitive loss, NFIP insurance definition	8	Severe repetitive loss, NFIP insurance definition	1

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

Repeat-flood properties: county and state-level rows

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	1	8	1	8	0	2
of which: Carbondale city	0	1	4	1	4	0	1
of which: Makanda village	0	0	1	0	1	0	1
of which: Murphysboro city	0	0	1	0	1	0	0
of which: Dowell village	0	0	1	0	1	0	0
of which: Jackson County (unincorporated area)	0	0	1	0	1	0	0
Statewide, no county in FEMA's file	0	0	5	0	5	0	0

The statewide row counts properties FEMA's file gives with no county in this state; they are listed for reference and are not in this county's counts.

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>
Jackson County	170927	0	0	1	0	1	0	0
Ava city	171161	0	0	0	0	0	0	0
Campbell Hill village	171162	0	0	0	0	0	0	0
Carbondale city	170298	0	1	4	1	4	0	1
De Soto village	170751	0	0	0	0	0	0	0
Dowell village	170875	0	0	1	0	1	0	0
Elkville village	170876	0	0	0	0	0	0	0
Gorham village	170954	0	0	0	0	0	0	0
Grand Tower city	170300	0	0	0	0	0	0	0
Makanda village	170301	0	0	1	0	1	0	1
Murphysboro city	170302	0	0	1	0	1	0	0
Vergennes village	170973	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	1
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	0	0	0	0	0	0
non-residential	0	1	4	1	4	0	1
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 8 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-29T134039Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
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3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
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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/>
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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.

OpenFEMA disclaimer

This product uses the Federal Emergency Management Agency's OpenFEMA API, but is not endorsed by FEMA. The Federal Government or FEMA cannot vouch for the data or analyses derived from these data after the data have been retrieved from the Agency's website(s).

Reuse, citation and corrections

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Cite this: Hazard Plain (2026). Jackson County, IL: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 17077). Automated baseline. <https://hazardplain.org/il/17077/> Built from FEMA OpenFEMA, the FEMA National Risk Index and NOAA NCEI Storm Events; source versions in the packet's Sources list.

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