

Roane County, WV

Risk-assessment baseline packet

County FIPS: 54087 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 2028-01-12. Plan: RPDC 05 Hazard Mitigation Plan (FEMA plan 108733), approved 2023-01-13.

Since the plan was approved on 2023-01-13: 3 new hazard declarations (3 incidents) and 78 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): Inland Flooding (\$8,777,733 a year), Cold Wave (\$249,655) and Strong Wind (\$199,932).

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; 54087 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 2028-01-12	Plan:	RPDC 05 Hazard Mitigation Plan (FEMA plan 108733)
Approved:	2023-01-13	Days to expiry:	469

What changed since your last plan (approved 2023-01-13)

New federal declarations:	3 new hazard declarations (3 incidents): DR-4756-WV (Severe Storms, Flooding, Landslides, and Mudslides), DR-4787-WV (Severe Storms, Flooding, Landslides, and Mudslides), EM-3639-WV (Severe Winter Storm)	Storm Events records since approval:	78 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 1, SRL 3 (44 CFR 77.2); any definition: 21	Repeat-flood change:	this release sets the baseline count.

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

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Notes
Roane County	County	Approved, expires 2028-01-12	RPDC 05 Hazard Mitigation Plan (FEMA plan 108733)	2023-01-13	2028-01-12	469	this jurisdiction approved 2023-02-02
Reedy town	Town	Approved, expires 2028-01-12	RPDC 05 Hazard Mitigation Plan (FEMA plan 108733)	2023-01-13	2028-01-12	469	this jurisdiction approved 2023-02-02
Spencer city	City	Approved, expires 2028-01-12	RPDC 05 Hazard Mitigation Plan (FEMA plan 108733)	2023-01-13	2028-01-12	469	this jurisdiction approved 2023-02-02

Plan 108733 lists 27 other participants not on this page, 6 of them not covered by it yet (named in the Excel file).

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

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

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

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

Sources: 5, 6

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
1	Inland Flooding	Relatively Low	Relatively Low	\$7,935,916	\$9,704	\$832,113	\$8,777,733	77	
2	Cold Wave	Relatively Low	Relatively Low	\$2,983	\$342	\$246,330	\$249,655	32	Includes 3 Frost/Freeze records (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
3	Strong Wind	Relatively Low	Relatively Low	\$50,638	\$64	\$149,231	\$199,932	140	Includes 11 High Wind and 16 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
4	Heat Wave	Very Low	Very Low	\$57	\$8	\$146,928	\$146,993	20	
5	Ice Storm	Relatively Low	Relatively Low	\$80,256	n/a	\$5,382	\$85,638	1	
6	Landslide	Relatively Moderate	Relatively Low	\$4,557	n/a	\$71,486	\$76,043	0	Declared 13 times; no Storm Events record of this type.
7	Lightning	Relatively Low	Very Low	\$6,291	n/a	\$68,088	\$74,379	1	
8	Earthquake	Very Low	Very Low	\$43,708	n/a	\$15,277	\$58,985		Storm Events does not record earthquakes.
9	Drought	Relatively Low	Relatively Low	n/a	\$58,476	n/a	\$58,476	22	
10	Hurricane	Very Low	Very Low	\$53,633	\$3,018	\$1,761	\$58,411	0	Declared 1 time; no Storm Events record of this type.
11	Hail	Very Low	Very Low	\$38,558	\$1,264	\$2,745	\$42,568	27	
12	Tornado	Very Low	Very Low	\$20,887	\$118	\$13,397	\$34,401	0	Declared 1 time; no Storm Events record of this type.
13	Winter Weather	Relatively Low	Relatively Low	\$11,144	under \$1	\$8,416	\$19,559	71	

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
14	Wildfire	Very Low	Very Low	\$2,849	\$4	\$1,347	\$4,200	1	
15	Avalanche	Very Low	Very Low	\$0	n/a	\$3	\$3	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

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

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

Local data needed: state and local landslide 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: 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>
Avalanche	tract 9628 (Very Low, 2.5)
Earthquake	tract 9630 (Relatively Low, 61.2); tract 9631 (Very Low, 30.8); tract 9628 (Very Low, 24.9)
Hurricane	tract 9630 (Relatively Low, 59.6); tract 9631 (Relatively Low, 55.6); tract 9628 (Relatively Low, 55.0)
Landslide	tract 9631 (Relatively High, 99.3); tract 9628 (Relatively Moderate, 98.6); tract 9629.01 (Relatively Moderate, 98.4)
Tornado	tract 9630 (Very Low, 28.0); tract 9631 (Very Low, 23.7); tract 9628 (Very Low, 20.9)
Wildfire	tract 9631 (Relatively Low, 75.9); tract 9629.01 (Very Low, 66.4); tract 9629.02 (Very Low, 64.6)

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 9628 is Census Tract 9628). FEMA's Resilience Analysis and Planning Tool maps the National Risk Index for every tract: <https://www.fema.gov/emergency-managers/practitioners/resilience-analysis-and-planning-tool>

Supports FEMA checklist item B1-c: hazard extent

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

Sources: 6, 7

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Avalanche	none (count and damage only)	0					
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	29 records, 1996 to 2026 (29 zone-level)	1 day to 31 days (median 3.5 days); 24 with a recorded value	March 2001 (1 monthly summary record), zone-level	Extreme Cold/Wind Chill, 2022-12-23, \$25,000 property; \$0 crops (zone total, 2022 dollars)	Countywide (zone-level records).	Cold/Wind Chill records from May to September (a frost night, not a cold wave) are counted but not used for the longest run.
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	3 records, 2003 to 2004 (3 zone-level)		No crop damage reported in 3 records.		Countywide (zone-level records).	
Drought	U.S. Drought Monitor scale (D0 to D4)	22 records, 1997 to 2026 (22 zone-level)	25 days to 184 days (median 76 days); 8 with a recorded value	184 days (6 months), 1999-05-01 to 1999-10-31, a run of 6 consecutive Storm Events drought records, zone-level		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)	41 records, 1956 to 2026	0.75 in to 2.3 in (median 1 in); 41 with a recorded value	2.3 in hail, 2016-09-30	Hail, 1994-06-11, \$5,000 property; \$5,000 crops (1994 dollars)	Event records naming jurisdictions in the plan: Spencer city (8 records), Reedy town (1 record).	
Excessive Heat, Heat	heat index (in event narratives)	20 records, 1996 to 2011 (20 zone-level)	1 day to 4 days (median 2 days); 5 with a recorded value	4 consecutive days, 2011-07-20 to 2011-07-23, 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)	1 record, 2003 (1 zone-level)		Ice Storm, 2003-02-16, \$2,000,000 property; crops not reported (2003 dollars); NWS zone WVZ016		Countywide (zone-level records).	
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	77 records, 1996 to 2026 (11 zone-level)		Flash Flood, 2013-06-13, \$3,000,000 property; \$0 crops (2013 dollars)		Event records naming jurisdictions in the plan: Spencer city (11 records), Reedy town (4 records). Zone-level records (11) 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.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Debris Flow	none (count and damage only)	0					
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	1 record, 2012		Lightning, 2012-07-03, \$10,000 property; \$0 crops (2012 dollars)		No event record names a jurisdiction in the plan.	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	27 records, 1998 to 2026 (27 zone-level)	30 kt (35 mph) to 50 kt (58 mph) (median 41.5 kt (48 mph)); 16 with a recorded value	50 kt (58 mph) estimated gust, High Wind, 2023-04-01; same speed and measurement basis also recorded on 2023-03-25; NWS zone WVZ016	Strong Wind, 2019-02-24, \$50,000 property; \$0 crops (zone total, 2019 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	125 records, 1967 to 2026	45 kt (52 mph) to 96 kt (110 mph) (median 50 kt (58 mph)); 95 with a recorded value	96 kt (110 mph) estimated gust, Thunderstorm Wind, 2015-07-14	Thunderstorm Wind, 2012-06-29, \$2,000,000 property; \$0 crops (2012 dollars)	Event records naming jurisdictions in the plan: Spencer city (30 records), Reedy town (4 records).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	1 record, 1989	F/EF1; 1 with a recorded value	F1 tornado, 1989-06-12, 0.2 mi path length (whole path, pre-1996), 10 yd wide, damage not recorded (pre-1996 record)		No event record names a jurisdiction in the plan.	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).
Wildfire	acres burned (local data)	1 record, 2014 (1 zone-level)		No damage reported in 1 record.		Countywide (zone-level records).	
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	71 records, 1996 to 2026 (71 zone-level)		Heavy Snow, 2009-12-18, \$50,000 property; \$0 crops (2009 dollars); NWS zone WVZ016		Countywide (zone-level records).	

In event narratives only (local data needed): wind chill, temperature, heat index, ice thickness, acres burned and snow depth; any physical measure of avalanche, debris flow 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: 26 declarations covering 21 separate hazard incidents counted in this packet (declarations for the same incident count once; non-natural and evacuation-only declarations are not counted).

Federal disaster declarations for this county

Sources: 1, 2, 3

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2026-01-24	2026-01-23	EM-3639-WV	Emergency	Severe Winter Storm	Winter Weather	no Public Assistance recorded	new since last plan; within last 5 years	
2024-05-24	2024-04-11	DR-4787-WV	Major disaster	Severe Storms, Flooding, Landslides, and Mudslides	Inland Flooding (primary); also designated: Landslide	PA not declared for this county	new since last plan; within last 5 years	
2024-01-30	2023-08-28	DR-4756-WV	Major disaster	Severe Storms, Flooding, Landslides, and Mudslides	Inland Flooding (primary); also designated: Landslide	no Public Assistance recorded	new since last plan; within last 5 years	
2020-04-03	2020-01-20	DR-4517-WV	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$78,229.91		
2020-03-13	2020-01-20	EM-3450-WV	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4517
2016-06-25	2016-06-22	DR-4273-WV	Major disaster	Severe Storms, Flooding, Landslides, and Mudslides	Inland Flooding (primary); also designated: Landslide	\$522,695.63		
2015-08-07	2015-07-10	DR-4236-WV	Major disaster	Severe Storms, Straight-Line Winds, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide; Strong Wind	no Public Assistance recorded		
2015-05-21	2015-04-13	DR-4221-WV	Major disaster	Severe Storms, Flooding, Landslides, and Mudslides	Inland Flooding (primary); also designated: Landslide	no Public Assistance recorded		
2015-03-31	2015-03-03	DR-4210-WV	Major disaster	Severe Winter Storm, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide; Winter Weather	no Public Assistance recorded		
2014-01-10	2014-01-09	EM-3366-WV	Emergency	Chemical Spill	Non-natural, not counted	no Public Assistance recorded		
2013-07-26	2013-06-13	DR-4132-WV	Major disaster	Severe Storms and Flooding	Inland Flooding	\$1,523,012.39		
2012-10-29	2012-10-29	EM-3358-WV	Emergency	Hurricane Sandy	Hurricane	no Public Assistance recorded		
2012-07-23	2012-06-29	DR-4071-WV	Major disaster	Severe Storms and Straight-Line Winds	Strong Wind	\$50,181.41		
2012-06-30	2012-06-29	EM-3345-WV	Emergency	Severe Storms	Hazard not mapped (severe storm title names no single hazard); not counted	no Public Assistance recorded		same incident as DR-4071
2012-03-16	2012-02-29	DR-4059-WV	Major disaster	Severe Storms, Tornadoes, Flooding, Mudslides, and Landslides	Inland Flooding; Landslide; Tornado	\$50,044.72		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2010-03-02	2009-12-18	DR-1881-WV	Major disaster	Severe Winter Storm and Snowstorm	Winter Weather	\$9,012.86		
2009-05-15	2009-05-03	DR-1838-WV	Major disaster	Severe Storms, Flooding, Mudslides, and Landslides	Inland Flooding; Landslide	\$24,902.64		
2005-09-05	2005-08-29	EM-3221-WV	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded		
2004-06-07	2004-05-27	DR-1522-WV	Major disaster	Severe Storms, Flooding, and Landslides	Inland Flooding; Landslide	\$6,185.74		
2003-03-14	2003-02-16	DR-1455-WV	Major disaster	Severe Winter Storm, Record/Near Record Snow, Heavy Rains, Flooding and Landslides	Inland Flooding; Landslide; Winter Weather	\$32,990.78		
2001-06-03	2001-05-15	DR-1378-WV	Major disaster	Severe Storms, Flooding and Landslides	Inland Flooding; Landslide	PA not declared for this county		
2000-02-28	2000-02-18	DR-1319-WV	Major disaster	Flooding, Severe Storms, and Landslides	Inland Flooding (primary); also designated: Landslide	\$69,382.64		
1998-07-01	1998-06-26	DR-1229-WV	Major disaster	Severe Storms and Flooding	Inland Flooding; Winter Weather	no Public Assistance recorded		
1997-03-07	1997-02-28	DR-1168-WV	Major disaster	Heavy & Wind Driven Rain, High Winds,Flooding,Slides	Inland Flooding (primary); also designated: Landslide	no Public Assistance recorded		
1996-01-13	1996-01-06	DR-1084-WV	Major disaster	Blizzard of 96 (Severe Snow Storm)	Winter Weather	no Public Assistance recorded		
1993-03-17	1993-03-13	EM-3109-WV	Emergency	Severe Snowfall & Winter Storm	Winter Weather	no Public Assistance recorded		

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

Statewide declarations

Source: 2

Declared	Incident began	FEMA number	Type	Title	Mapped hazard
1964-03-20	1964-03-20	DR-165-WV	Major disaster	Severe Storms & Flooding	Inland Flooding
1963-03-13	1963-03-13	DR-147-WV	Major disaster	Severe Storms & Flooding	Inland Flooding
1962-03-09	1962-03-09	DR-125-WV	Major disaster	Severe Storm, High Tides & Flooding	Inland Flooding (primary); also designated: Coastal Flooding
1961-07-23	1961-07-23	DR-117-WV	Major disaster	Floods	Inland Flooding
1957-01-31	1957-01-31	DR-67-WV	Major disaster	Flood	Inland Flooding
1954-08-04	1954-08-04	DR-21-WV	Major disaster	Flood	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.

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Avalanche	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	32	2	1	3	0	0	1996 to 2026-06-30	Includes 3 Frost/Freeze records.
Drought	22	10	0	10	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	41	2	0	2	0	0	1955 to 2026-06-30	
Heat Wave	20	0	0	0	0	0	1996 to 2026-06-30	
Hurricane	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)
Ice Storm	1	0	0	0	0	0	1996 to 2026-06-30	
Inland Flooding	77	15	7	22	15	2	1996 to 2026-06-30	
Landslide	0	0	0	0	13	2	1996 to 2026-06-30	No Storm Events records of this type; 13 federal declared incidents (see declarations table)
Lightning	1	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	152	32	3	35	2	0	1955 to 2026-06-30	Includes 11 High Wind and 16 Strong Wind records.
Tornado	1	0	0	0	1	0	1950 to 2026-06-30	
Wildfire	1	0	0	0	0	0	1996 to 2026-06-30	
Winter Weather	71	17	5	23	7	1	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
2024-02-13	Flood		\$0 property; \$0 crops (2024 dollars)	1, 0	SPENCER to NANCY RUN	new since last plan; within last 5 years	deaths or injuries recorded
2023-04-01	High Wind	50 kt (58 mph) estimated gust	\$0 property; \$0 crops (zone total, 2023 dollars)	0, 0	NWS zone WVZ016 (ROANE), zone-level	new since last plan; within last 5 years	B1-c worst recorded: High Wind and Strong Wind
2019-05-29	Thunderstorm Wind	50 kt (58 mph) estimated gust	\$500 property; \$0 crops (2019 dollars)	1, 0	WELLINGTON		deaths or injuries recorded
2016-09-30	Hail	2.3 in	\$0 property; \$0 crops (2016 dollars)	0, 0	KYGER		B1-c worst recorded: Hail
2015-07-14	Thunderstorm Wind	96 kt (110 mph) estimated gust	\$3,000 property; \$0 crops (2015 dollars)	0, 0	GANDEEVILLE to ROXALANA		B1-c worst recorded: Thunderstorm Wind
2013-06-13	Flash Flood		\$3,000,000 property; \$0 crops (2013 dollars)	0, 0	PENIEL to HARMONY		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2012-07-03	Lightning		\$10,000 property; \$0 crops (2012 dollars)	0, 0	TRIPLET		B1-c worst recorded: Lightning
2011-07-20	Heat		\$0 property; \$0 crops (zone total, 2011 dollars)	0, 0	NWS zone WVZ016 (ROANE), zone-level		B1-c worst recorded: Excessive Heat, Heat
2003-02-16	Ice Storm		\$2,000,000 property; crops not reported (zone total, 2003 dollars)	0, 0	NWS zone WVZ016 (ROANE), zone-level		B1-c worst recorded: Ice Storm
2001-05-22	Flash Flood		\$35,000 property; crops not reported (2001 dollars)	1, 0	COUNTYWIDE		deaths or injuries recorded
2001-03-01	Cold/Wind Chill		damage not reported	0, 0	NWS zone WVZ016 (ROANE), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
1999-05-01	Drought		damage not reported	0, 0	NWS zone WVZ016 (ROANE), zone-level		B1-c worst recorded: Drought

The full list is in the Excel file, sheet "B1-d Storm Events history" (419 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
Avalanche	0.01	events per year	about 1 in 100 years	Possible	FEMA annualized frequency (modeled)	0	1994 to 2023 (30 years)	see B1-f	0.01 is NRI's minimum avalanche frequency for a county in an avalanche susceptibility zone; NRI records no avalanche here, so the descriptor reflects the floor, not local events.
Cold Wave	0.842	event-days per year	about 0.842 days per year	Likely	Storm Events event-days in 11 of 30 years, 1996 to 2025 (36.7%)	16	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	5.71	event-days per year	about 5.71 days per year	Likely	Storm Events event-days in 7 of 30 years, 1996 to 2025 (23.3%)	175	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.000991	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.0991%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	2.65	events per year	about 2.65 per year	Highly likely	FEMA annualized frequency (modeled)	100.5 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	3.68	event-days per year	about 3.68 days per year	Likely	Storm Events event-days in 9 of 30 years, 1996 to 2025 (30%)	65	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.028	events per year	about 1 in 36 years	Possible	FEMA annualized frequency (modeled)	8	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	0.198	event-days per year	about 0.198 days per year	Possible	Storm Events event-days in 1 of 30 years, 1996 to 2025 (3.33%)	14	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	2.25	event-days per year	about 2.25 days per year	Likely	Storm Events event-days in 25 of 30 years, 1996 to 2025 (83.3%)	63	1996 to 2023 (28 years)	see B1-f	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Landslide	1.4	events per year (modeled)	about 1.4 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	47.2	days per year with a strike	about 47.2 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.662	events per year	about 0.66 per year	Likely	FEMA annualized frequency (modeled)	26	1986 to 2023 (38 years)	countywide	
Tornado	0.0538	events per year	about 1 in 19 years	Possible	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Wildfire	0.000522	annual probability at a location	chance a given location in the county burns in a year: 0.0522%	Possible	Storm Events records in 1 of 30 years, 1996 to 2025 (3.33%)	not shown	modeled	see B1-f	
Winter Weather	8.84	event-days per year	about 8.84 days per year	Likely	Storm Events event-days in 23 of 30 years, 1996 to 2025 (76.7%)	168	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	13	30	0.433
Hail	2.00 in+	1996 to 2025	1	30	0.0333
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	79	30	2.63
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	1	30	0.0333
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	25	30	0.833
Tornado	EF0-1	1996 to 2025	0	30	0
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0

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

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

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

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

Range of census tract risk within the county

Source: 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Avalanche	1 of 5	2.5	2.5	2.5	Very Low 1, Not Applicable 4
Cold Wave	5 of 5	43.7	56.1	67.0	Relatively Moderate 3, Relatively Low 2
Drought	1 of 5	94.8	94.8	94.8	Relatively Moderate 1, No Rating 4
Earthquake	5 of 5	20.9	24.9	61.2	Relatively Low 1, Very Low 4
Hail	5 of 5	49.1	58.0	68.1	Relatively Low 5
Heat Wave	5 of 5	33.3	49.5	63.6	Relatively Moderate 2, Relatively Low 3
Hurricane	5 of 5	51.6	55.0	59.6	Relatively Low 5
Ice Storm	5 of 5	77.0	85.5	92.0	Relatively High 1, Relatively Moderate 4
Inland Flooding	5 of 5	87.8	96.3	98.5	Very High 3, Relatively High 2
Landslide	5 of 5	95.4	98.4	99.3	Relatively High 1, Relatively Moderate 3, Relatively Low 1
Lightning	5 of 5	50.5	66.4	80.0	Relatively High 1, Relatively Moderate 4
Strong Wind	5 of 5	67.8	79.5	88.0	Relatively High 2, Relatively Moderate 3
Tornado	5 of 5	13.5	20.9	28.0	Very Low 5
Wildfire	5 of 5	27.5	64.6	75.9	Relatively Low 1, Very Low 4
Winter Weather	5 of 5	54.2	65.9	78.3	Relatively Moderate 5

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
Roane County	County	Approved, expires 2028-01-12	FMA RL 1, SRL 2; any 7	\$350,887.37	0 total; 0 since its plan	Includes \$78,229.91 for declarations not counted as hazard incidents (DR-4517-WV).
Reedy town	Town	Approved, expires 2028-01-12	FMA RL 0, SRL 1; any 10	\$19,143.45	9 total; 0 since its plan	
Spencer city	City	Approved, expires 2028-01-12	FMA RL 0, SRL 0; any 4	\$611,736.40	49 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).

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 2023-01-13 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Avalanche	\$0	n/a	under 1	\$0	n/a	\$3					building exposure is 0 in NRI
Cold Wave	\$2,612,086,096	\$8,304,962	14,013	\$2,983	\$342	\$246,330	0.000114%		\$0		
Drought	n/a	\$2,689,441	n/a	n/a	\$58,476	n/a	2.17% (agriculture)		\$0		NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$4,213,879,273	n/a	14,028	\$43,708	n/a	\$15,277	0.00104%				
Hail	\$2,612,086,096	\$8,304,962	14,013	\$38,558	\$1,264	\$2,745	0.00148%	\$0			
Heat Wave	\$2,612,086,096	\$8,304,962	14,013	\$57	\$8	\$146,928	under 0.0001%				
Hurricane	\$2,602,858,015	\$8,287,047	13,964	\$53,633	\$3,018	\$1,761	0.00206%				
Ice Storm	\$2,612,086,096	n/a	14,013	\$80,256	n/a	\$5,382	0.00307%				
Inland Flooding	\$2,609,950,163	\$716,292	1,411	\$7,935,916	\$9,704	\$832,113	n/a (see note)	\$2,400	no Public Assistance recorded (2 declarations)		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.

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 2023-01-13 <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
Landslide	\$1,071,136,412	n/a	6,001	\$4,557	n/a	\$71,486	0.000425%			no Public Assistance recorded (2 declarations)	
Lightning	\$2,612,086,096	n/a	14,013	\$6,291	n/a	\$68,088	0.000241%				
Strong Wind	\$2,612,086,096	\$8,304,962	14,013	\$50,638	\$64	\$149,231	0.00194%	\$16,600	\$49,000		Storm Events damage since the plan includes 1 zone-level High Wind record (\$30,000) and 7 zone-level Strong Wind records (\$19,000): NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition.
Tornado	\$2,612,086,096	\$8,304,962	14,013	\$20,887	\$118	\$13,397	0.0008%				
Wildfire	\$53,949,708	\$1,462,886	1,297	\$2,849	\$4	\$1,347	0.00528%				
Winter Weather	\$2,612,086,096	\$8,304,962	14,013	\$11,144	under \$1	\$8,416	0.000427%		\$1,500	no Public Assistance recorded (1 declaration)	

Totals since 2023-01-13 (Storm Events through 2026-06-30): 40 county-coded records, 40 with a damage value recorded (including \$0), \$19,000; 38 zone-level records, 38 with a damage value recorded (including \$0), \$50,500 reported for the zone; Public Assistance: none recorded on the 3 counted declarations.

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

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

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

County context

Source: 5

Measure	Value
Population	14,013
Building value (total, not at risk)	\$2,612,086,096
Agriculture value (total, not at risk)	\$8,304,962
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$8,324,474
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)	\$1,562,503
Social vulnerability rating	Very High
Community resilience rating	Relatively Low
NRI version	December 2025

FEMA's all-hazard expected annual loss adds buildings, agriculture and population equivalence; this table gives the property part and the population-equivalence part as separate rows.

Social vulnerability: higher means people are more likely to be harmed and slower to recover. Community resilience: lower means the community is less able to recover. High social vulnerability and low resilience both raise the NRI risk rating.

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	1	Severe repetitive loss, FMA definition (44 CFR 77.2)	3
Repetitive loss, NFIP insurance definition	21	Severe repetitive loss, NFIP insurance definition	3

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

Repeat-flood properties: county total and NFIP communities

Sources: 1, 4

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	1	3	21	3	21	0	1
of which: Roane County (unincorporated area)	1	2	7	2	7	0	1
of which: Reedy town	0	1	10	1	10	0	0
of which: Spencer city	0	0	4	0	4	0	0

Repeat-flood properties by jurisdiction in the plan (NFIP community)

Sources: 1, 4

Jurisdiction	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
Roane County	540183	1	2	7	2	7	0	1
Reedy town	540184	0	1	10	1	10	0	0
Spencer city	540185	0	0	4	0	4	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	1	3	19	3	19	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	0	2	0	2	0	0
not reported	0	0	0	0	0	0	0

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

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

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

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 20 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

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

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-29T134039Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-29T162832Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-29T150754Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-30, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

5. FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-30, https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_Counties.zip (download, 25 MB), https://www.fema.gov/about/reports-and-data/openfema/nri/v120/NRI_Table_CensusTracts.zip (download, 635 MB)
6. NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-30, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
7. NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-30, <https://www.weather.gov/gis/ZoneCounty>
8. U.S. Census Bureau, Census 2024 Gazetteer, 2020 place by county, CT county-to-cousub crosswalk, version 2024-gazetteer, pulled 2026-09-30, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gazetteer/2024_Gaz_counties_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_cousubs_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip, https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scsd_national.zip, https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt, https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx (used to match place names and codes; no table prints its values)

What this packet is and what the plan adds

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

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

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

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