

Berlin town, VT

Risk-assessment baseline packet (county-level sections from Washington County)

Town FIPS: 5002305650 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: Expired on 2025-06-02. Plan: Town of Berlin All-Hazards Mitigation Plan Update (FEMA plan 106607), approved 2020-06-03. Sections B1-a, B1-b, B1-c, B1-d, B1-e, B2-a and B2-b use Washington County data (county FIPS 50023; each heading says so); the plan clock, B1-f and B2-c are for Berlin town.

Since the plan was approved on 2020-06-03: 6 new hazard declarations (5 incidents) and 123 NOAA Storm Events records (county-level); details under "What changed since your last plan".

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$17,631,361 a year), Cold Wave (\$1,020,212) and Lightning (\$679,616).

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; 5002305650 is this town.

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

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

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

CFR: Code of Federal Regulations.

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

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

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Plan clock

Status:	Expired on 2025-06-02	Plan:	Town of Berlin All-Hazards Mitigation Plan Update (FEMA plan 106607)
Approved:	2020-06-03	Days since expiry:	485
Update underway:	none recorded in FEMA's plan tracker		

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

What changed since your last plan (approved 2020-06-03)

New federal declarations:
6 new hazard declarations (5 incidents): EM-3567-VT (Tropical Storm Henri), DR-4695-VT (Severe Storm and Flooding), EM-3595-VT (Flooding), DR-4720-VT (Severe Storms, Flooding, Landslides, and Mudslides), EM-3609-VT (Tropical Depression Debby), DR-4810-VT (Severe Storm, Flooding, Landslides, and Mudslides)

Repetitive loss now (this town):
FMA RL 0, SRL 2 (44 CFR 77.2); any definition: 6

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

Storm Events records since approval (Washington County, county-level):
123 records (data through 2026-06-30)

Repeat-flood change:
this release sets the baseline count.

Plan status for this town

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>
Berlin town	Town	Expired on 2025-06-02	Town of Berlin All-Hazards Mitigation Plan Update (FEMA plan 106607)	2020-06-03	2025-06-02	-485

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

Supports FEMA checklist item B1-a: hazard identification

County-level: Washington County.

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 Moderate	\$17,072,085	\$81,512	\$477,764	\$17,631,361	84	
2	Cold Wave	Relatively Low	Relatively Moderate	\$385	\$15,338	\$1,004,489	\$1,020,212	30	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	Lightning	Relatively Moderate	Relatively Moderate	\$43,545	n/a	\$636,071	\$679,616	8	
4	Heat Wave	Relatively Low	Relatively Low	under \$1	\$50,249	\$586,578	\$636,827	8	
5	Hurricane	Relatively Low	Relatively Low	\$536,131	\$40,851	\$24,340	\$601,321	0	Declared 4 times; no Storm Events record of this type.
6	Earthquake	Very Low	Relatively Low	\$343,022	n/a	\$60,884	\$403,906		Storm Events does not record earthquakes.
7	Landslide	Relatively Moderate	Relatively Moderate	\$23,839	n/a	\$342,500	\$366,339	0	Declared 3 times; no Storm Events record of this type.
8	Strong Wind	Relatively Low	Relatively Low	\$139,150	\$2,334	\$144,246	\$285,730	205	Includes 16 High Wind and 34 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
9	Winter Weather	Relatively Moderate	Relatively High	\$130,541	\$66	\$144,853	\$275,460	317	
10	Tornado	Very Low	Very Low	\$30,416	\$122	\$127,612	\$158,150	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
11	Ice Storm	Relatively Low	Relatively Low	\$101,712	n/a	\$12,305	\$114,017	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
12	Hail	Very Low	Very Low	\$5,254	\$4,238	\$39,889	\$49,381	55	
13	Wildfire	Very Low	Very Low	\$8,414	\$3	\$788	\$9,205	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Avalanche	Very Low	Very Low	\$0	n/a	\$537	\$537	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
15	Drought	No Rating	No Expected Annual Losses	n/a	\$0	n/a	\$0	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).

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 and wildfire records (Storm Events records these hazards only in part).

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

County-level: Washington County.

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 9541 (Very Low, 38.4); tract 9540 (Very Low, 38.3); tract 9543 (Very Low, 37.4)
Earthquake	tract 9545 (Relatively Low, 59.1); tract 9543 (Relatively Low, 57.3); tract 9552 (Relatively Low, 53.5)
Hurricane	tract 9545 (Relatively Low, 68.5); tract 9552 (Relatively Low, 67.4); tract 9543 (Relatively Low, 67.1)
Landslide	tract 9544 (Relatively High, 99.4); tract 9555.02 (Relatively High, 99.3); tract 9542 (Relatively Moderate, 99.2)
Tornado	tract 9552 (Very Low, 26.4); tract 9543 (Very Low, 24.5); tract 9555.02 (Very Low, 24.2)
Wildfire	tract 9540 (Very Low, 68.5); tract 9543 (Very Low, 68.1); tract 9541 (Very Low, 61.9)

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 9541 is Census Tract 9541). 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

County-level: Washington County.

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)	Where in the county	Note
Avalanche	none (count and damage only)	0					
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	27 records, 1996 to 2026 (27 zone-level)	1 day to 28 days (median 2 days); 26 with a recorded value	February 2015 (1 monthly summary record), zone-level		Countywide (zone-level records).	
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	3 records, 2005 to 2023 (3 zone-level)		Frost/Freeze, 2023-05-18, \$300,000 crop damage (2023 dollars); NWS zone VTZ008		Countywide (zone-level records).	
Drought	U.S. Drought Monitor scale (D0 to D4)	0					Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	hail size (inches)	64 records, 1961 to 2025	0.25 in to 2.75 in (median 1 in); 63 with a recorded value	2.75 in hail, 2007-07-09	Hail, 2010-07-21, \$20,000 property; \$0 crops (2010 dollars)	Event records naming places in the county: Northfield town (7 records), East Montpelier town (4 records), Fayston town (4 records), Waitsfield town (4 records), Warren town (4 records), Duxbury town (3 records), Waterbury town (3 records), Barre town (2 records), Berlin town (2 records), Cabot town (2 records); and 8 more places (see the Excel file).	
Excessive Heat, Heat	heat index (in event narratives)	8 records, 1998 to 2025 (8 zone-level)	1 day to 6 days (median 2 days); 4 with a recorded value	6 consecutive days, 2018-07-01 to 2018-07-06, 1 direct death, zone-level	Heat, 2012-03-17, \$0 property; \$1,000,000 crops (zone total, 2012 dollars)	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)	0					

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	Where in the county	Note
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	84 records, 1996 to 2025 (9 zone-level)		Flash Flood, 2023-07-11, \$100,000,000 property; \$0 crops (2023 dollars), 1 direct death		Event records naming places in the county: Middlesex town (9 records), Barre town (7 records), Duxbury town (6 records), Fayston town (6 records), Montpelier city (6 records), Northfield town (6 records), Warren town (4 records), Woodbury town (4 records), Roxbury town (3 records), Waitsfield town (3 records); and 9 more places (see the Excel file). Zone-level records (9) 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)	8 records, 1996 to 2013		Lightning, 1996-06-12, damage not reported, 1 direct death, 1 direct injury	Lightning, 2012-05-29, \$150,000 property; \$0 crops (2012 dollars)	Event records naming places in the county: Barre city (3 records), Barre town (3 records), Montpelier city (2 records), Cabot town (1 record), Marshfield town (1 record), Marshfield village (1 record), Waitsfield town (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)	50 records, 1996 to 2026 (49 zone-level)	35 kt (40 mph) to 52 kt (60 mph) (median 41.5 kt (48 mph)); 42 with a recorded value	52 kt (60 mph) estimated gust, High Wind, 2022-12-23; NWS zone VTZ008		Event records naming places in the county: Worcester town (1 record). Zone-level records (49) apply countywide.	
Thunderstorm Wind	wind speed (kt and mph)	179 records, 1964 to 2026	40 kt (46 mph) to 85 kt (98 mph) (median 50 kt (58 mph)); 135 with a recorded value	85 kt (98 mph) estimated gust, Thunderstorm Wind, 2004-11-25, 1 direct injury	Thunderstorm Wind, 2018-06-18, \$100,000 property; \$0 crops (2018 dollars)	Event records naming places in the county: Barre town (14 records), Duxbury town (13 records), Northfield town (13 records), Barre city (12 records), Plainfield town (9 records), Berlin town (8 records), Warren town (8 records), Woodbury town (8 records), Calais town (7 records), Marshfield town (7 records); and 10 more places (see the Excel file).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	0					Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	Where in the county	Note
Wildfire	acres burned (local data)	0					
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	317 records, 1996 to 2026 (317 zone- level)		Heavy Snow, 2007-02-14, \$300,000 property; \$0 crops (2007 dollars); NWS zone VTZ008		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 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

County-level: Washington County (federal declarations, statewide declarations and Storm Events history).

Federal declarations for this county: 33 declarations covering 29 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
2024-08-20	2024-07-09	DR-4810-VT	Major disaster	Severe Storm, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide	\$27,686,889.61	new since last plan; within last 5 years	
2024-08-08	2024-08-08	EM-3609-VT	Emergency	Tropical Depression Debby	Hurricane	no Public Assistance recorded	new since last plan; within last 5 years	
2023-07-14	2023-07-07	DR-4720-VT	Major disaster	Severe Storms, Flooding, Landslides, and Mudslides	Inland Flooding (primary); also designated: Landslide	\$133,022,376.46	new since last plan; within last 5 years	
2023-07-10	2023-07-09	EM-3595-VT	Emergency	Flooding	Inland Flooding	no Public Assistance recorded	new since last plan; within last 5 years	same incident as DR-4720
2023-03-20	2022-12-22	DR-4695-VT	Major disaster	Severe Storm and Flooding	Inland Flooding	\$1,404,124.35	new since last plan; within last 5 years	
2021-08-22	2021-08-22	EM-3567-VT	Emergency	Tropical Storm Henri	Hurricane	no Public Assistance recorded	new since last plan	
2020-04-08	2020-01-20	DR-4532-VT	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$344,375,933.51	in the 12 months before plan approval	
2020-03-13	2020-01-20	EM-3437-VT	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded	in the 12 months before plan approval	same incident as DR-4532

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance		Flags	Notes
						federal share obligated, nominal dollars			
2020-01-17	2019-10-31	DR-4474-VT	Major disaster	Severe Storm and Flooding	Inland Flooding	\$1,856,573.71		in the 12 months before plan approval	
2019-06-14	2019-04-15	DR-4445-VT	Major disaster	Severe Storms and Flooding	Inland Flooding	\$2,886,301.79		in the 12 months before plan approval	
2018-01-02	2017-10-29	DR-4356-VT	Major disaster	Severe Storm and Flooding	Inland Flooding	\$797,556.42			
2017-08-16	2017-06-29	DR-4330-VT	Major disaster	Severe Storms and Flooding	Inland Flooding	\$5,315,972.38			
2015-02-03	2014-12-09	DR-4207-VT	Major disaster	Severe Winter Storm	Winter Weather	\$683,998.41			
2014-06-11	2014-04-15	DR-4178-VT	Major disaster	Severe Storms and Flooding	Inland Flooding	\$740,567.97			
2013-08-02	2013-06-25	DR-4140-VT	Major disaster	Severe Storms and Flooding	Inland Flooding	\$2,113,577.50			
2011-11-08	2011-05-20	DR-4043-VT	Major disaster	Severe Storms and Flooding	Inland Flooding	\$241,066.93			
2011-09-01	2011-08-27	DR-4022-VT	Major disaster	Tropical Storm Irene	Hurricane	\$39,503,827.61			
2011-08-29	2011-08-26	EM-3338-VT	Emergency	Hurricane Irene	Hurricane	no Public Assistance recorded			same incident as DR-4022
2011-07-08	2011-05-26	DR-4001-VT	Major disaster	Severe Storms and Flooding	Inland Flooding	\$5,634,948.61			
2011-06-15	2011-04-23	DR-1995-VT	Major disaster	Severe Storms and Flooding	Inland Flooding	\$7,837,564.51			
2008-09-12	2008-07-21	DR-1790-VT	Major disaster	Severe Storms and Flooding	Inland Flooding	\$741,767.08			
2007-08-03	2007-07-09	DR-1715-VT	Major disaster	Severe Storms and Flooding	Inland Flooding	\$1,097,752.82			
1999-11-10	1999-09-16	DR-1307-VT	Major disaster	Tropical Storm Floyd	Hurricane; Inland Flooding	\$111,969.48			
1998-06-30	1998-06-17	DR-1228-VT	Major disaster	Severe Storms and Flooding	Inland Flooding	no Public Assistance recorded			
1997-07-25	1997-07-15	DR-1184-VT	Major disaster	Excessive Rainfall, High Winds, and Flooding	Inland Flooding	no Public Assistance recorded			
1996-02-13	1996-01-19	DR-1101-VT	Major disaster	Ice Jams and Flooding	Inland Flooding (primary); also designated: Winter Weather	no Public Assistance recorded			
1995-08-16	1995-08-04	DR-1063-VT	Major disaster	Excessive Rainfall, Flooding	Inland Flooding	no Public Assistance recorded			
1992-03-18	1992-03-11	DR-938-VT	Major disaster	Heavy Rains, Ice Jams & Flooding	Inland Flooding	no Public Assistance recorded			
1990-07-25	1990-07-04	DR-875-VT	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded			

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
1989-09-11	1989-08-04	DR-840-VT	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1984-06-18	1984-06-06	DR-712-VT	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1976-08-05	1976-08-05	DR-518-VT	Major disaster	Severe Storms, High Winds & Flooding	Inland Flooding (primary); also designated: Strong Wind	no Public Assistance recorded		
1973-07-06	1973-07-06	DR-397-VT	Major disaster	Severe Storms, Flooding, & Landslides	Inland Flooding (primary); also designated: Landslide	no Public Assistance recorded		

County Public Assistance: the whole county's applicants, including state agencies FEMA files there (federal share obligated, nominal dollars); statewide rows are on the state page; this town's own matched Public Assistance is in B1-f.

Statewide declarations

Source: 2

Declared	Incident began	FEMA number	Type	Title	Mapped hazard
1964-03-17	1964-03-17	DR-164-VT	Major disaster	Flooding	Inland Flooding
1963-11-27	1963-11-27	DR-160-VT	Major disaster	Drought & Impending Freeze	Drought

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: 23 rows, \$2,494,258.50

Sources: 2, 3

FEMA number	Declared	Title	Applicant	PA obligated
				<i>federal share obligated, nominal dollars</i>
DR-4826-VT	2024-09-26	Severe Storms, Flooding, Landslides, and Mudslides	Vermont Agency of Transportation	\$368,977.97
DR-4770-VT	2024-04-19	Severe Winter Storm	Vermont Agency of Transportation	\$40,319.07
DR-4762-VT	2024-03-02	Severe Storm and Flooding	Washington Electric COOP INC	\$19,411.08
DR-4762-VT	2024-03-02	Severe Storm and Flooding	Vermont Agency of Transportation	\$149,740.79
DR-4744-VT	2023-10-06	Severe Storms and Flooding	Vermont Agency of Transportation	\$52,535.65
DR-4621-VT	2021-09-29	Severe Storm and Flooding	Vermont Agency of Transportation	\$226,075.16
DR-4380-VT	2018-07-30	Severe Storm and Flooding	Washington Electric COOP INC	\$115,962.72
DR-4232-VT	2015-07-29	Severe Storm and Flooding	BOLTON (TOWN OF)	\$201,355.07
DR-4163-VT	2014-01-29	Severe Winter Storms	Vermont Agency of Transportation	\$717,163.88
DR-4120-VT	2013-06-13	Severe Storms and Flooding	Vermont Agency of Transportation	\$44,018.30
DR-4066-VT	2012-06-22	Severe Storm, Tornado, and Flooding	Vermont Agency of Transportation	\$22,132.80
DR-1951-VT	2010-12-22	Severe Storm	Vermont Agency of Transportation	\$28,204.83
DR-1816-VT	2009-01-14	Severe Winter Storm	Vermont Agency of Transportation	\$34,846.03
DR-1784-VT	2008-08-15	Severe Storms, a Tornado, and Flooding	Vermont Agency of Transportation	\$14,170.83

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-1778-VT	2008-07-15	Severe Storms and Flooding	Vermont Agency of Transportation	\$5,924.02
DR-1698-VT	2007-05-04	Severe Storms and Flooding	WASHINGTON ELECTRIC COOPERATIVE	\$78,936.49
DR-1698-VT	2007-05-04	Severe Storms and Flooding	Vermont Agency of Transportation	-\$4,117.42 (net of deobligations)
DR-1559-VT	2004-09-23	Severe Storms and Flooding	Vermont Agency of Transportation	-\$8,785.87 (net of deobligations)
DR-1488-VT	2003-09-12	Severe Storms and Flooding	Vermont Agency of Transportation	-\$3,807.77 (net of deobligations)
DR-1428-VT	2002-07-12	Severe Storms and Flooding	Vermont Agency of Transportation	\$15,114.34
EM-3167-VT	2001-04-10	Snow	Vermont Agency of Transportation	\$328,114.37
DR-1358-VT	2001-01-18	Severe Storms and Flooding	Vermont Agency of Transportation	\$28,452.60
DR-1336-VT	2000-07-27	Severe Storms and Flooding	Vermont Agency of Transportation	\$19,513.56

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.

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	30	9	0	9	0	0	1996 to 2026-06-30	Includes 3 Frost/Freeze records.
Drought	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	64	1	0	1	0	0	1955 to 2026-06-30	
Heat Wave	8	1	0	1	0	0	1996 to 2026-06-30	
Hurricane	0	0	0	0	4	2	1996 to 2026-06-30	No Storm Events records of this type; 4 federal declared incidents (see declarations table)
Ice Storm	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Inland Flooding	84	15	4	13	25	3	1996 to 2026-06-30	
Landslide	0	0	0	0	3	2	1996 to 2026-06-30	No Storm Events records of this type; 3 federal declared incidents (see declarations table)
Lightning	8	0	0	0	0	0	1996 to 2026-06-30	

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Strong Wind	229	45	8	27	1	0	1955 to 2026-06-30	Includes 16 High Wind and 34 Strong Wind records.
Tornado	0	0	0	0	0	0	1950 to 2026-06-30	No recorded events, 1950 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Winter Weather	317	52	7	45	2	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
2023-07-11	Flash Flood		\$100,000,000 property; \$0 crops (2023 dollars)	1, 0	MONTPELIER JCT to SOUTH BARRE	new since last plan; within last 5 years	deaths or injuries recorded
2023-05-18	Frost/Freeze		\$0 property; \$300,000 crops (zone total, 2023 dollars)	0, 0	NWS zone VTZ008 (WASHINGTON), zone-level	new since last plan; within last 5 years	B1-c worst recorded: Frost/Freeze
2022-12-23	High Wind	52 kt (60 mph) estimated gust	\$450,000 property; \$0 crops (zone total, 2022 dollars)	0, 0	NWS zone VTZ008 (WASHINGTON), zone-level	new since last plan; within last 5 years	B1-c worst recorded: High Wind and Strong Wind
2018-07-01	Heat		\$0 property; \$0 crops (zone total, 2018 dollars)	1, 0	NWS zone VTZ008 (WASHINGTON), zone-level		deaths or injuries recorded
2018-06-18	Thunderstorm Wind	70 kt (81 mph) estimated gust	\$100,000 property; \$0 crops (2018 dollars)	0, 0	WAITSFIELD		B1-c most damaging: Thunderstorm Wind
2015-02-01	Cold/Wind Chill		\$0 property; \$0 crops (zone total, 2015 dollars)	0, 0	NWS zone VTZ008 (WASHINGTON), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2012-05-29	Lightning		\$150,000 property; \$0 crops (2012 dollars)	0, 0	CABOT		B1-c most damaging: Lightning
2012-03-17	Heat		\$0 property; \$1,000,000 crops (zone total, 2012 dollars)	0, 0	NWS zone VTZ008 (WASHINGTON), zone-level		B1-c most damaging: Excessive Heat, Heat
2007-07-09	Hail	2.75 in	\$20,000 property; \$0 crops (2007 dollars)	0, 0	DUXBURY		B1-c worst recorded: Hail
2007-02-14	Heavy Snow		\$300,000 property; \$0 crops (zone total, 2007 dollars)	0, 0	NWS zone VTZ008 (WASHINGTON), zone-level		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2004-11-25	Thunderstorm Wind	85 kt (98 mph) estimated gust	\$20,000 property; crops not reported (2004 dollars)	0, 1	MARSHFIELD		B1-c worst recorded: Thunderstorm Wind
1996-06-12	Lightning		damage not reported	1, 1	BARRE		deaths or injuries recorded

The full list is in the Excel file, sheet "B1-d Storm Events history" (740 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

County-level: Washington County.

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	4.26	event-days per year	about 4.26 days per year	Likely	Storm Events event-days in 12 of 30 years, 1996 to 2025 (40%)	81	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	0	event-days per year	none modeled		Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)	0	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No Storm Events drought record, 1996 to 2025
Earthquake	0.00133	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.133%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	1.35	events per year	about 1.35 per year	Highly likely	FEMA annualized frequency (modeled)	51.2 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	0.737	event-days per year	about 0.737 days per year	Likely	Storm Events event-days in 6 of 30 years, 1996 to 2025 (20%)	14	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.0434	events per year	about 1 in 23 years	Possible	FEMA annualized frequency (modeled)	14	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	0.246	event-days per year	about 0.246 days per year		Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)	17	1946-12-31 to 2014-02-12 (67 years)	countywide	No Storm Events ice storm record, 1996 to 2025
Inland Flooding	2.25	event-days per year	about 2.25 days per year	Likely	Storm Events event-days in 26 of 30 years, 1996 to 2025 (86.7%)	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	1.54	events per year (modeled)	about 1.54 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	21.8	days per year with a strike	about 21.8 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.876	events per year	about 0.88 per year	Likely	FEMA annualized frequency (modeled)	34	1986 to 2023 (38 years)	countywide	
Tornado	0.0425	events per year	about 1 in 24 years	Possible	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Wildfire	0.000014	annual probability at a location	chance a given location in the county burns in a year: 0.0014%		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No descriptor: no Storm Events record 1996 to 2025
Winter Weather	22	event-days per year	about 22 days per year	Highly likely	Storm Events event-days in 30 of 30 years, 1996 to 2025 (100%)	419	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	34	30	1.13
Hail	2.00 in+	1996 to 2025	3	30	0.1
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	128	30	4.27
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	3	30	0.1
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	22	30	0.733
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	8 of 20	29.1	34.0	38.4	Very Low 8, Not Applicable 12
Cold Wave	20 of 20	26.6	45.0	65.5	Relatively Moderate 8, Relatively Low 12
Drought	0 of 20				No Rating 20
Earthquake	20 of 20	18.8	32.6	59.1	Relatively Low 7, Very Low 13
Hail	20 of 20	17.5	30.1	39.6	Relatively Low 3, Very Low 17
Heat Wave	20 of 20	10.3	37.6	63.0	Relatively Moderate 3, Relatively Low 16, Very Low 1
Hurricane	20 of 20	53.2	58.5	68.5	Relatively Low 20
Ice Storm	20 of 20	26.4	45.5	74.3	Relatively Moderate 2, Relatively Low 16, Very Low 2
Inland Flooding	20 of 20	17.6	55.0	94.5	Relatively High 6, Relatively Moderate 6, Relatively Low 8
Landslide	20 of 20	73.5	96.8	99.4	Relatively High 2, Relatively Moderate 9, Relatively Low 8, Very Low 1
Lightning	20 of 20	44.4	79.0	95.3	Relatively High 11, Relatively Moderate 8, Relatively Low 1
Strong Wind	20 of 20	22.1	38.7	61.0	Relatively Moderate 2, Relatively Low 18
Tornado	20 of 20	5.6	15.4	26.4	Very Low 20
Wildfire	20 of 20	32.3	55.5	68.5	Very Low 20
Winter Weather	20 of 20	62.4	83.9	95.4	Relatively High 15, Relatively Moderate 5

Washington County's 20 census tracts; NRI rates census tracts, not towns.

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

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

Frequency data for cold wave, hail, 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.

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

Jurisdiction	Type	Plan status	Repetitive loss	Public Assistance to this jurisdiction	Event records naming this place
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	<i>all years; since its plan</i>
Berlin town	Town	Expired on 2025-06-02	FMA RL 0, SRL 2; any 6	\$3,617,795.90	10 total; 2 since its plan

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

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

County-level: Washington County (National Risk Index exposure and expected annual loss; since-plan counts use Berlin town's approval date).

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
- Vermont Flood Ready Atlas and Agency of Natural Resources (ANR) river corridors for town flood and erosion locations.
- The Emergency Relief and Assistance Fund (ERAF) Flood Hazard Summary gives E911 building counts in the Special Flood Hazard Area (SFHA) per town.
- Vermont Dam Inventory for dams in and upstream of the town.
- Vermont Emergency Management (VEM) hazard mitigation planning resources and the 2023 Vermont State Hazard Mitigation Plan. <https://vem.vermont.gov/hm-planning-resources>

County-level starter: exposure, expected annual loss and damage since the plan (Washington County, county-level)

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 2020-06-03 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Avalanche	\$0	n/a	under 1	\$0	n/a	\$537					building exposure is 0 in NRI
Cold Wave	\$14,489,142,091	\$39,567,442	59,777	\$385	\$15,338	\$1,004,489	under 0.0001%		\$300,000		Storm Events damage since the plan includes 1 zone-level Frost/Freeze record (\$300,000): outside NRI's Cold Wave definition.
Drought	n/a	\$0	n/a	n/a	\$0	n/a					agriculture exposure is 0 in NRI
Earthquake	\$25,275,543,458	n/a	59,807	\$343,022	n/a	\$60,884	0.00136%				
Hail	\$14,489,142,091	\$39,567,442	59,777	\$5,254	\$4,238	\$39,889	under 0.0001%	\$0			

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 2020-06-03 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Heat Wave	\$14,489,142,091	\$39,567,442	59,777	under \$1	\$50,249	\$586,578	under 0.0001%		\$0		
Hurricane	\$14,383,850,127	\$39,317,280	59,403	\$536,131	\$40,851	\$24,340	0.00373%			no Public Assistance recorded (2 declarations)	
Ice Storm	\$14,489,142,091	n/a	59,777	\$101,712	n/a	\$12,305	0.000702%				
Inland Flooding	\$14,417,227,305	\$4,708,714	3,818	\$17,072,085	\$81,512	\$477,764	n/a (see note)	\$117,980,000		\$162,113,390.42	NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b.
Landslide	\$1,425,563,349	n/a	6,160	\$23,839	n/a	\$342,500	0.00167%			\$160,709,266.07	
Lightning	\$14,489,142,091	n/a	59,777	\$43,545	n/a	\$636,071	0.000301%				
Strong Wind	\$14,489,142,091	\$39,567,442	59,777	\$139,150	\$2,334	\$144,246	0.00096%	\$466,000	\$580,000		Storm Events damage since the plan includes 1 zone-level High Wind record (\$450,000) and 6 zone-level Strong Wind records (\$130,000): NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition.
Tornado	\$14,489,142,091	\$39,567,442	59,777	\$30,416	\$122	\$127,612	0.00021%				
Wildfire	\$7,761,152,489	\$28,327,979	32,741	\$8,414	\$3	\$788	0.000108%				
Winter Weather	\$14,489,142,091	\$39,567,442	59,777	\$130,541	\$66	\$144,853	0.000901%		\$150,000		

Totals since 2020-06-03 (Storm Events through 2026-06-30): 51 county-coded records, 51 with a damage value recorded (including \$0), \$118,446,000; 72 zone-level records, 72 with a damage value recorded (including \$0), \$1,030,000 reported for the zone; Public Assistance: \$162,113,390.42 on 6 counted declarations, 3 of them with Public Assistance.

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-level: Washington County.

County context

Source: 5

Measure	Value
Population	59,777
Building value (total, not at risk)	\$14,489,142,091
Agriculture value (total, not at risk)	\$39,567,442
NRI risk rating (all hazards)	Relatively Low
Expected annual loss, buildings and agriculture, all hazards	\$18,629,208
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)	\$3,602,856
Social vulnerability rating	Very Low
Community resilience rating	Very 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 Washington County, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	7	Severe repetitive loss, FMA definition (44 CFR 77.2)	20
Repetitive loss, NFIP insurance definition	116	Severe repetitive loss, NFIP insurance definition	20

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	7	20	116	20	119	15	74
of which: Barre city	2	4	58	4	60	0	32
of which: Berlin town	0	2	6	2	6	0	3
of which: Marshfield village	0	0	1	0	1	0	1
of which: Middlesex town	0	0	4	0	4	0	1
of which: Moretown town	1	0	0	0	1	0	0
of which: Northfield town	0	0	2	0	2	0	1
of which: Warren town	0	0	1	0	1	0	1
of which: Waterbury village (community ID not in plan data)	1	1	4	1	4	0	2
of which: Waterbury town	2	5	12	5	12	0	10
of which: Plainfield town	1	0	5	0	5	0	3
of which: Montpelier city	0	8	23	8	23	15	20

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>
Berlin town	500106	0	2	6	2	6	0	3

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	6	4	37	4	40	1	19
2 to 4 unit residential	1	4	30	4	30	0	21
other residential	0	1	6	1	6	1	3
non-residential	0	11	43	11	43	13	31
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 3 properties are FMA repetitive loss but not NFIP repetitive loss, and 112 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)
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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).

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Cite this: Hazard Plain (2026). Berlin town, VT: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; Town FIPS 5002305650). Automated baseline. <https://hazardplain.org/vt/5002305650/> 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