

Chelan County, WA

Risk-assessment baseline packet

County FIPS: 53007 Release: 2026-10 Data as of: 2026-09-30 Storm Events data through: 2026-06-30

Hazard Plain is an independent product built from public federal data. It is not a FEMA document and is not reviewed or endorsed by FEMA or any state agency.

Summary

Plan status as of 2026-09-30: Approved, expires 2029-12-05. Plan: Chelan County Hazard Mitigation Plan (2024) (FEMA plan 110286), approved 2024-12-06. Since the plan was approved on 2024-12-06: 4 new hazard declarations (3 incidents) and 36 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 (\$41,286,485 a year), Wildfire (\$34,925,041) and Earthquake (\$4,097,694).

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; 53007 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.

CONTENTS

- 1. Summary and terms used, page 1
- 2. Plan clock, page 2
- 3. What changed since your last plan (approved 2024-12-06), page 2
- 4. B1-a: hazard identification, page 4
- 5. B1-b: hazard location, page 6
- 6. B1-c: hazard extent, page 6
- 7. B1-d: previous occurrences, page 9
- 8. B1-e: probability of future events, page 15
- 9. B1-f: hazards that vary across jurisdictions, page 17
- 10. B2-a and B2-b: vulnerability and potential impacts, page 19
- 11. B2-a: vulnerability (county context), page 21
- 12. B2-c: repetitive loss properties, page 22
- 13. Sources, what the plan adds, disclaimer and citation, page 23

Plan clock

Status:	Approved, expires 2029-12-05	Plan:	Chelan County Hazard Mitigation Plan (2024) (FEMA plan 110286)
Approved:	2024-12-06	Days to expiry:	1,162

What changed since your last plan (approved 2024-12-06)

New federal declarations:	4 new hazard declarations (3 incidents): FM-5614-WA (Lower Sugarloaf Fire), EM-3629-WA (Severe Storms, Straight-Line Winds, Flooding, Landslides, and Mudslides), DR-4906-WA (Severe Storms, Straight-Line Winds, Flooding, Landslides, and Mudslides), EM-3650-WA (Wildfires)	Storm Events records since approval:	36 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 1, SRL 1 (44 CFR 77.2); any definition: 10	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>
Chelan County	County	Approved, expires 2029-12-05	Chelan County Hazard Mitigation Plan (2024) (FEMA plan 110286)	2024-12-06	2029-12-05	1,162
Cashmere city	City	Approved, expires 2029-12-05	Chelan County Hazard Mitigation Plan (2024) (FEMA plan 110286)	2024-12-06	2029-12-05	1,162
Chelan city	City	Approved, expires 2029-12-05	Chelan County Hazard Mitigation Plan (2024) (FEMA plan 110286)	2024-12-06	2029-12-05	1,162
Entiat city	City	Approved, expires 2029-12-05	Chelan County Hazard Mitigation Plan (2024) (FEMA plan 110286)	2024-12-06	2029-12-05	1,162
Leavenworth city	City	Approved, expires 2029-12-05	Chelan County Hazard Mitigation Plan (2024) (FEMA plan 110286)	2024-12-06	2029-12-05	1,162
Wenatchee city	City	Approved, expires 2029-12-05	Chelan County Hazard Mitigation Plan (2024) (FEMA plan 110286)	2024-12-06	2029-12-05	1,162
Cascadia Conservation District	Conservation District	Approved, expires 2029-12-05	Chelan County Hazard Mitigation Plan (2024) (FEMA plan 110286)	2024-12-06	2029-12-05	1,162
Chelan County Fire and Rescue #7	Fire/EMS District	Approved, expires 2029-12-05	Chelan County Hazard Mitigation Plan (2024) (FEMA plan 110286)	2024-12-06	2029-12-05	1,162
Chelan County Flood Control Zone District	Flood Control District	Approved, expires 2029-12-05	Chelan County Hazard Mitigation Plan (2024) (FEMA plan 110286)	2024-12-06	2029-12-05	1,162
Fire District #3	Fire/EMS District	Approved, expires 2029-12-05	Chelan County Hazard Mitigation Plan (2024) (FEMA plan 110286)	2024-12-06	2029-12-05	1,162
Lake Wenatchee Fire and Rescue #9	Fire/EMS District	Approved, expires 2029-12-05	Chelan County Hazard Mitigation Plan (2024) (FEMA plan 110286)	2024-12-06	2029-12-05	1,162
Wenatchee Valley Fire Department #1	Fire/EMS District	Approved, expires 2029-12-05	Chelan County Hazard Mitigation Plan (2024) (FEMA plan 110286)	2024-12-06	2029-12-05	1,162

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 modeled dollars per year	EAL agriculture modeled dollars per year	Cost of expected deaths and injuries FEMA's dollar value per year, not property damage	EAL total (see note) modeled dollars per year	Storm Events records, 1996 to 2026-06-30 count	Why this hazard can be left out NRI Not Applicable, no declaration and no Storm Events record since 1996	Storm Events coverage note
1	Inland Flooding	Relatively Moderate	Relatively Moderate	\$41,276,565	\$34	\$9,885	\$41,286,485	81		
2	Wildfire	Relatively High	Relatively High	\$33,529,170	\$12,938	\$1,382,932	\$34,925,041	117		
3	Earthquake	Relatively Low	Relatively Moderate	\$3,070,512	n/a	\$1,027,182	\$4,097,694			Storm Events does not record earthquakes.
4	Avalanche	Very High	Relatively High	\$26,136	n/a	\$3,495,588	\$3,521,724	6		
5	Cold Wave	Relatively Moderate	Relatively Moderate	\$1,807	\$749,097	\$934,117	\$1,685,021	2		Includes 1 Frost/Freeze record (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
6	Heat Wave	Relatively Low	Relatively Low	\$370	\$43,127	\$1,174,158	\$1,217,655	2		
7	Lightning	Relatively High	Relatively Moderate	\$8,748	n/a	\$831,786	\$840,533	5		
8	Hail	Relatively Low	Relatively Low	\$4,752	\$456,643	\$4,699	\$466,094	16		
9	Winter Weather	Relatively Moderate	Relatively Moderate	\$24,345	\$4,078	\$135,125	\$163,548	239		
10	Landslide	Relatively Moderate	Relatively Low	\$102,223	n/a	\$39,859	\$142,082	50		

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>	Why this hazard can be left out <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
11	Strong Wind	Very Low	Very Low	\$26,633	\$3,902	\$43,849	\$74,384	69		Includes 39 High Wind and 18 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
12	Tornado	Very Low	Very Low	\$26,239	\$296	\$25,943	\$52,478	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
13	Ice Storm	Very Low	Very Low	\$1,254	n/a	\$16,210	\$17,463	3		
14	Volcanic Activity	Relatively Low	Relatively Low	\$8,760	n/a	\$6,293	\$15,053	0		Declared 1 time; no Storm Events record of this type.
15	Drought	Very Low	Very Low	n/a	\$1,985	n/a	\$1,985	0		Declared 1 time; no Storm Events record of this type.
	Hurricane	Not Applicable	Not Applicable					0	NRI rates hurricane Not Applicable for this county, and no counted federal declaration for this county names it (EM-3227-WA names it but is not counted as a local occurrence; see B1-d).	No recorded events in Storm Events since 1996 (data through 2026-06-30).

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 volcanic activity 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 and tsunamis. 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 9604 (Relatively High, 94.7); tract 9603.01 (Relatively High, 94.1); tract 9601 (Relatively High, 93.6)
Earthquake	tract 9610.02 (Relatively Moderate, 86.4); tract 9602.01 (Relatively Moderate, 85.1); tract 9608.04 (Relatively Moderate, 84.4)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 9601 (Relatively High, 99.5); tract 9602.03 (Relatively Moderate, 99.0); tract 9605.02 (Relatively Moderate, 98.5)
Tornado	tract 9603.01 (Very Low, 9.2); tract 9604 (Very Low, 9.0); tract 9612 (Very Low, 8.3)
Volcanic Activity	tract 9602.03 (Relatively Moderate, 98.0); tract 9601 (Relatively Moderate, 97.9); tract 9611.01 (Relatively Low, 96.4)
Wildfire	tract 9612 (Very High, 100.0); tract 9602.02 (Very High, 99.9); tract 9605.02 (Very High, 99.8)

Up to 3 census tracts per hazard, highest National Risk Index rating first, then highest score; a tract number is the Census tract number (for example 9604 is Census Tract 9604). 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)	6 records, 2001 to 2023 (6 zone-level)		Avalanche, 2008-02-07, \$1,100,000 property; \$0 crops (2008 dollars); NWS zone WAZ042		Countywide (zone-level records).	
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	1 record, 2004 (1 zone-level)	3 days; 1 with a recorded value	3 consecutive days, 2004-01-04 to 2004-01-06, zone-level		Countywide (zone-level records).	
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	1 record, 2008 (1 zone-level)		Frost/Freeze, 2008-04-19, \$105,000,000 crop damage (2008 dollars); NWS zone WAZ041		Countywide (zone-level records).	

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
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)	22 records, 1963 to 2023	0.75 in to 2 in (median 1 in); 21 with a recorded value	2 in hail, 1995-07-09	Hail, 1994-05-16, property not recorded; \$50,000,000 crops (1994 dollars)	Event records naming jurisdictions in the plan: Chelan city (10 records), Entiat city (3 records).	
Excessive Heat, Heat	heat index (in event narratives)	2 records, 2021 to 2022 (2 zone-level)	1 day to 5 days (median 3 days); 2 with a recorded value	5 consecutive days, 2021-06-26 to 2021-06-30, zone-level		Countywide (zone-level records).	
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)	3 records, 2005 to 2017 (3 zone-level)		No damage reported in 3 records.		Countywide (zone-level records).	
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	81 records, 1997 to 2026 (2 zone-level)		Flood, 2003-10-20, \$1,600,000 property; crops not reported (2003 dollars); NWS zone WAZ042		Event records naming jurisdictions in the plan: Entiat city (6 records), Leavenworth city (6 records), Chelan city (3 records), Cashmere city (2 records), Wenatchee city (1 record). Zone-level records (2) 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)	50 records, 2003 to 2023 (14 zone-level)		Debris Flow, 2008-05-18, \$1,040,000 property; \$0 crops (2008 dollars); NWS zone WAZ042		Event records naming jurisdictions in the plan: Entiat city (4 records), Leavenworth city (2 records), Cashmere city (1 record), Wenatchee city (1 record). Zone-level records (14) apply countywide.	
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	5 records, 1996 to 2006		Lightning, 1996-04-16, damage not reported, 1 direct death	Lightning, 2006-06-12, \$5,000 property; crops not reported (2006 dollars)	Event records naming jurisdictions in the plan: Wenatchee city (3 records), Chelan city (1 record).	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	57 records, 1997 to 2026 (56 zone-level)	27 kt (31 mph) to 94 kt (108 mph) (median 52.5 kt (60 mph)); 56 with a recorded value	94 kt (108 mph) measured sustained, High Wind, 2003-03-05; NWS zone WAZ042	High Wind, 2007-01-07, \$10,000,000 property; \$18,000 crops (zone total, 2007 dollars)	No event record names a jurisdiction in the plan. Zone-level records (56) apply countywide.	

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Thunderstorm Wind	wind speed (kt and mph)	13 records, 1956 to 2024	35 kt (40 mph) to 78 kt (90 mph) (median 51.5 kt (59 mph)); 12 with a recorded value	78 kt (90 mph), measurement type not recorded, Thunderstorm Wind, 1997-08-26		Event records naming jurisdictions in the plan: Entiat city (4 records), Chelan city (1 record).	
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).
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					
Wildfire	acres burned (local data)	117 records, 1998 to 2025 (114 zone- level)		Wildfire, 2022-10-01, \$115,000,000 property; \$0 crops (2022 dollars); NWS zone WAZ047		Event records naming jurisdictions in the plan: Chelan city (3 records). Zone-level records (114) apply countywide.	
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	239 records, 1998 to 2026 (239 zone- level)		Winter Weather, 2012-12-17, \$5,600,000 property; \$0 crops (2012 dollars); NWS zone WAZ042		Countywide (zone-level records).	

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

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records from zones that no NWS zone-county file places in this county (mostly before 2020) are not counted here (the Methods page explains the zone matching).

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

Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 53 declarations covering 44 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
2026-08-03	2026-08-01	EM-3650-WA	Emergency	Wildfires	Wildfire	not yet in FEMA's PA summaries (they cover declarations through 2026-06-30)	new since last plan; within last 5 years	
2026-04-07	2025-12-05	DR-4906-WA	Major disaster	Severe Storms, Straight-Line Winds, Flooding, Landslides, and Mudslides	Inland Flooding (primary); also designated: Landslide, Strong Wind	\$186,340.68	new since last plan; within last 5 years	
2025-12-12	2025-12-09	EM-3629-WA	Emergency	Severe Storms, Straight-Line Winds, Flooding, Landslides, and Mudslides	Inland Flooding (primary); also designated: Landslide, Strong Wind	no Public Assistance recorded	new since last plan; within last 5 years	same incident as DR-4906
2025-09-26	2025-09-25	FM-5614-WA	Fire management	Lower Sugarloaf Fire	Wildfire	no Public Assistance recorded	new since last plan; within last 5 years	
2022-03-29	2021-12-26	DR-4650-WA	Major disaster	Severe Winter Storms, Snowstorms, Straight-Line Winds, Flooding	Inland Flooding (primary); also designated: Strong Wind, Winter Weather	\$512,628.35	within last 5 years	
2021-08-18	2021-08-17	FM-5414-WA	Fire management	Twentyfive Mile Fire	Wildfire	no Public Assistance recorded		
2021-07-14	2021-07-13	FM-5398-WA	Fire management	Red Apple Fire	Wildfire	no Public Assistance recorded		
2020-09-07	2020-09-07	FM-5352-WA	Fire management	Apple Acres Fire	Wildfire	no Public Assistance recorded		
2020-03-22	2020-01-20	DR-4481-WA	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$1,163,955.93		
2020-03-13	2020-01-20	EM-3427-WA	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4481
2018-08-11	2018-08-10	FM-5270-WA	Fire management	Cougar Creek Fire	Wildfire	no Public Assistance recorded		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2017-05-23	2017-05-23	FM-5182-WA	Fire management	Spromberg Fire	Wildfire	no Public Assistance recorded		
2016-08-28	2016-08-27	FM-5152-WA	Fire management	Suncrest Fire	Wildfire	no Public Assistance recorded		
2016-01-15	2015-11-12	DR-4249-WA	Major disaster	Severe Storms, Straight-Line Winds, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide; Strong Wind	\$1,050,414.91		
2015-10-20	2015-08-09	DR-4243-WA	Major disaster	Wildfires and Mudslides	Wildfire	\$2,639,993.39		
2015-08-21	2015-08-13	EM-3372-WA	Emergency	Wildfires	Wildfire	no Public Assistance recorded		same incident as DR-4243
2015-08-14	2015-08-14	FM-5100-WA	Fire management	Chelan Fire Complex	Wildfire	no Public Assistance recorded		same incident as DR-4243
2015-06-29	2015-06-28	FM-5087-WA	Fire management	Sleepy Hollow Fire	Wildfire	no Public Assistance recorded		
2014-08-06	2014-08-05	FM-5072-WA	Fire management	Hansel Fire	Wildfire	no Public Assistance recorded		same incident as EM-3371
2014-07-23	2014-07-09	EM-3371-WA	Emergency	Wildfires	Wildfire	no Public Assistance recorded		
2014-07-17	2014-07-15	FM-5061-WA	Fire management	Chiwaukum Fire	Wildfire	no Public Assistance recorded		same incident as EM-3371
2014-07-10	2014-07-10	FM-5059-WA	Fire management	Mills Canyon Fire	Wildfire	no Public Assistance recorded		same incident as EM-3371
2013-08-21	2013-08-20	FM-5048-WA	Fire management	Eagle Fire	Wildfire	no Public Assistance recorded		
2013-08-10	2013-08-10	FM-5042-WA	Fire management	Mile Post 10 Fire	Wildfire	no Public Assistance recorded		
2013-07-30	2013-07-27	FM-5038-WA	Fire management	Colockum Tarps Fire	Wildfire	no Public Assistance recorded		
2012-09-20	2012-09-19	FM-5020-WA	Fire management	Table Mountain Fire	Wildfire	no Public Assistance recorded		
2012-09-13	2012-09-12	FM-5018-WA	Fire management	Peavine Fire	Wildfire	no Public Assistance recorded		
2012-09-12	2012-09-12	FM-5017-WA	Fire management	Poison Fire	Wildfire	no Public Assistance recorded		
2012-09-10	2012-09-10	FM-5015-WA	Fire management	Byrd Canyon Fire	Wildfire	no Public Assistance recorded		
2012-09-09	2012-09-09	FM-5012-WA	Fire management	1st Canyon Fire	Wildfire	no Public Assistance recorded		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2009-07-29	2009-07-28	FM-2823-WA	Fire management	Union Valley Fire	Wildfire	no Public Assistance recorded		
2009-03-02	2008-12-12	DR-1825-WA	Major disaster	Severe Winter Storm and Record and Near Record Snow	Winter Weather	\$63,836.64		
2009-01-30	2009-01-06	DR-1817-WA	Major disaster	Severe Winter Storm, Landslides, Mudslides, and Flooding	Inland Flooding (primary); also designated: Landslide, Winter Weather	\$397,159.51		
2007-07-08	2007-07-08	FM-2711-WA	Fire management	Easy Street Fire	Wildfire	no Public Assistance recorded		
2007-02-14	2006-12-14	DR-1682-WA	Major disaster	Severe Winter Storm, Landslides, and Mudslides	Landslide; Winter Weather	\$449,003.86		
2006-12-12	2006-11-02	DR-1671-WA	Major disaster	Severe Storms, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide	\$216,109.15		
2006-09-11	2006-09-09	FM-2674-WA	Fire management	Flick Creek Fire	Wildfire	no Public Assistance recorded		
2005-09-07	2005-08-29	EM-3227-WA	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	no Public Assistance recorded		
2005-08-01	2005-07-31	FM-2572-WA	Fire management	Dirty Face Fire	Wildfire	no Public Assistance recorded		
2004-08-11	2004-08-11	FM-2543-WA	Fire management	Wa-Fischer Wildfire-08-11-2004	Wildfire	no Public Assistance recorded		
2004-07-30	2004-07-30	FM-2537-WA	Fire management	Deep Harbor Fire	Wildfire	no Public Assistance recorded		
2003-11-07	2003-10-15	DR-1499-WA	Major disaster	Severe Storms and Flooding	Inland Flooding	PA not declared for this county		
2002-07-20	2002-07-20	FM-2449-WA	Fire management	Wa - Deer Point Fire - 07/20/02	Wildfire	no Public Assistance recorded		
2001-08-17	2001-08-13	FM-2379-WA	Fire management	Wa - Rex Creek Fire Complex - 2379	Wildfire	no Public Assistance recorded		
2001-08-14	2001-08-14	FM-2374-WA	Fire management	Wa - Icicle Fire Complex - 2374	Wildfire	no Public Assistance recorded		
2001-07-28	2001-07-28	FM-2368-WA	Fire management	Wa - Union Valley Fire - 07/28/01	Wildfire	no Public Assistance recorded		
2001-03-01	2001-02-28	DR-1361-WA	Major disaster	Earthquake	Earthquake	PA not declared for this county		
1997-01-17	1996-12-26	DR-1159-WA	Major disaster	Severe Winter Storms, Land & Muds Slides,Flooding	Inland Flooding; Landslide; Winter Weather	no Public Assistance recorded		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
1996-01-03	1995-11-07	DR-1079-WA	Major disaster	Severe Storms, High Wind, and Flooding	Inland Flooding; Strong Wind	no Public Assistance recorded		
1990-11-26	1990-11-09	DR-883-WA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1980-05-21	1980-05-21	DR-623-WA	Major disaster	Volcanic Eruption, Mt. St. Helens	Volcanic Activity	no Public Assistance recorded		
1977-03-31	1977-03-31	EM-3037-WA	Emergency	Drought	Drought	no Public Assistance recorded		
1972-06-10	1972-06-10	DR-334-WA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		

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

Statewide declarations

Source: 2

Declared	Incident began	FEMA number	Type	Title	Mapped hazard
1963-03-02	1963-03-02	DR-146-WA	Major disaster	Floods	Inland Flooding
1962-10-20	1962-10-20	DR-137-WA	Major disaster	Severe Storms	Hazard not mapped (severe storm title names no single hazard); not counted
1957-03-06	1957-03-06	DR-70-WA	Major disaster	Floods	Inland Flooding
1956-02-25	1956-02-25	DR-50-WA	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.

16 Fire Management declarations (1970-07-18 to 1998-09-25) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

Public Assistance not placed in any Washington county: 1 row, \$248,381.20; listed on the Washington state page.

Source: 3

Previous occurrences by hazard, with explicit no-event rows

Sources: 2, 6, 7

Hazard	Storm Events records, all years on file <i>(years in the Period column)</i>	Since plan approval <i>records</i>	In the 12 months before plan approval <i>records</i>	Last 5 years <i>records</i>	Declared incidents, all years <i>separate disasters</i>	Declared since approval <i>separate disasters</i>	Period	Statement
Avalanche	6	0	0	1	0	0	1996 to 2026-06-30	
Cold Wave	2	0	0	0	0	0	1996 to 2026-06-30	Includes 1 Frost/Freeze record.
Drought	0	0	0	0	1	0	1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Earthquake	0	0	0	0	1	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	22	0	0	1	0	0	1955 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
Heat Wave	2	0	0	1	0	0	1996 to 2026-06-30	
Hurricane	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Ice Storm	3	0	0	0	0	0	1996 to 2026-06-30	
Inland Flooding	81	7	1	21	10	1	1996 to 2026-06-30	
Landslide	50	0	0	5	6	1	1996 to 2026-06-30	
Lightning	5	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	70	5	2	15	4	1	1955 to 2026-06-30	Includes 39 High Wind and 18 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
Volcanic Activity	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)
Wildfire	117	13	9	35	29	2	1996 to 2026-06-30	
Winter Weather	239	11	9	50	5	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
2023-02-19	Avalanche		\$0 property; \$0 crops (zone total, 2023 dollars)	3, 1	NWS zone WAZ048 (WESTERN CHELAN COUNTY), zone-level	within last 5 years	deaths or injuries recorded
2022-10-01	Wildfire		\$115,000,000 property; \$0 crops (zone total, 2022 dollars)	0, 0	NWS zone WAZ047 (CENTRAL CHELAN COUNTY), zone-level	within last 5 years	B1-c worst recorded: Wildfire
2021-06-26	Excessive Heat		\$0 property; \$0 crops (zone total, 2021 dollars)	0, 0	NWS zone WAZ041 (WENATCHEE AREA), zone-level		B1-c worst recorded: Excessive Heat, Heat
2012-12-17	Winter Weather		\$5,600,000 property; \$0 crops (zone total, 2012 dollars)	0, 0	NWS zone WAZ042 (EAST SLOPES NORTHERN CASCADES), zone-level		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2008-04-19	Frost/Freeze		\$0 property; \$105,000,000 crops (zone total, 2008 dollars)	0, 0	NWS zone WAZ041 (WENATCHEE AREA), zone-level		B1-c worst recorded: Frost/Freeze
2008-02-07	Avalanche		\$1,100,000 property; \$0 crops (zone total, 2008 dollars)	0, 0	NWS zone WAZ042 (EAST SLOPES NORTHERN CASCADES), zone-level		B1-c worst recorded: Avalanche
2006-03-19	Avalanche		damage not reported	1, 1	NWS zone WAZ042 (EAST SLOPES NORTHERN CASCADES), zone-level		deaths or injuries recorded
2004-01-04	Cold/Wind Chill		damage not reported	0, 0	NWS zone WAZ041 (WENATCHEE AREA), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2003-10-20	Flood		\$1,600,000 property; crops not reported (zone total, 2003 dollars)	0, 0	NWS zone WAZ042 (EAST SLOPES NORTHERN CASCADES), zone-level		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
1998-01-06	Heavy Snow		\$100,000 property; \$0 crops (zone total, 1998 dollars)	1, 7	Storm Events area DOUGLAS/SE CHELAN (legacy zone code WAZ037), zone-level		deaths or injuries recorded
1996-04-16	Lightning		damage not reported	1, 0	DEER PARK		B1-c worst recorded: Lightning
1995-07-09	Hail	2 in	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Hail

The full list is in the Excel file, sheet "B1-d Storm Events history" (597 rows).

Location is the place NOAA recorded, as written in its data; it need not be a jurisdiction in this plan.

Local data needed: state-declared emergencies, from your state emergency management agency (federal data do not include them).

Tribal and special-area declarations in this state are listed on the state page.

Supports FEMA checklist item B1-e: probability of future events

Probability: FEMA annualized frequency and descriptor per hazard

Sources: 5, 6

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Avalanche	0.267	events per year	about 1 in 4 years	Likely	FEMA annualized frequency (modeled)	8	1994 to 2023 (30 years)	see B1-f	
Cold Wave	0.1	event-days per year	about 0.1 days per year	Possible	Storm Events event-days in 1 of 30 years, 1996 to 2025 (3.33%)	1.92	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	7.83	event-days per year	about 7.83 days per year		Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)	357	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No Storm Events drought record, 1996 to 2025
Earthquake	0.00657	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.657%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.0736	events per year	about 1 in 14 years	Possible	FEMA annualized frequency (modeled)	2.8 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	3.66	event-days per year	about 3.66 days per year	Possible	Storm Events event-days in 2 of 30 years, 1996 to 2025 (6.67%)	37.9	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane		events per year					1851 to 2024 (Atlantic); 1949 to 2024 (Pacific)	see B1-f	Not Applicable in NRI for this county; no descriptor.
Ice Storm	0.0746	event-days per year	about 0.0746 days per year	Likely	Storm Events event-days in 3 of 30 years, 1996 to 2025 (10%)	5	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	1.46	event-days per year	about 1.46 days per year	Likely	Storm Events event-days in 19 of 30 years, 1996 to 2025 (63.3%)	41	1996 to 2023 (28 years)	see B1-f	
Landslide	3.98	events per year (modeled)	about 3.98 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	9.93	days per year with a strike	about 9.93 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.0582	events per year	about 1 in 17 years	Possible	FEMA annualized frequency (modeled)	3	1986 to 2023 (38 years)	countywide	
Tornado	0.0492	events per year	about 1 in 20 years	Possible	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	

Hazard	FEMA annualized frequency (modeled)	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
	<i>unit per row</i>								
Volcanic Activity	0.0125	annual probability	about 1 in 80 years	Possible	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Wildfire	0.0234	annual probability at a location	chance a given location in the county burns in a year: 2.34%	Likely	Storm Events records in 23 of 30 years, 1996 to 2025 (76.7%)	not shown	modeled	see B1-f	
Winter Weather	26.4	event-days per year	about 26.4 days per year	Highly likely	Storm Events event-days in 28 of 30 years, 1996 to 2025 (93.3%)	500	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	9	30	0.3
Hail	2.00 in+	1996 to 2025	0	30	0
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	7	30	0.233
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	2	30	0.0667
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	3	30	0.1
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	0	30	0
Tornado	EF0-1	1996 to 2025	0	30	0
Tornado	EF2-3	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	16 of 23	89.9	92.5	94.7	Relatively High 14, Relatively Moderate 2, Not Applicable 7
Cold Wave	23 of 23	21.8	53.4	88.6	Relatively High 3, Relatively Moderate 12, Relatively Low 8
Drought	18 of 23	67.4	71.6	77.8	Very Low 18, No Rating 5
Earthquake	23 of 23	54.0	78.3	86.4	Relatively Moderate 14, Relatively Low 9
Hail	23 of 23	8.1	41.2	93.4	Relatively High 3, Relatively Moderate 4, Relatively Low 5, Very Low 11
Heat Wave	23 of 23	15.9	64.1	79.9	Relatively Moderate 16, Relatively Low 6, Very Low 1
Hurricane	0 of 23				Not Applicable 23
Ice Storm	23 of 23	3.5	10.9	17.5	Very Low 23
Inland Flooding	23 of 23	67.6	92.0	99.4	Very High 6, Relatively High 13, Relatively Moderate 4
Landslide	23 of 23	12.3	85.3	99.5	Relatively High 1, Relatively Moderate 8, Relatively Low 4, Very Low 10
Lightning	23 of 23	46.4	89.1	96.8	Very High 1, Relatively High 16, Relatively Moderate 5, Relatively Low 1

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Strong Wind	23 of 23	10.6	18.5	35.9	Relatively Low 7, Very Low 16
Tornado	23 of 23	2.8	6.1	9.2	Very Low 23
Volcanic Activity	23 of 23	87.2	93.5	98.0	Relatively Moderate 2, Relatively Low 21
Wildfire	22 of 23	32.6	98.7	100.0	Very High 10, Relatively High 5, Relatively Moderate 2, Relatively Low 3, Very Low 2, No Rating 1
Winter Weather	23 of 23	50.5	76.0	90.9	Relatively High 6, Relatively Moderate 17

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.

Hail: Agriculture is 98% 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
Chelan County	County	Approved, expires 2029-12-05	FMA RL 1, SRL 1; any 7	\$1,717,383.45	0 total; 0 since its plan	Includes \$14,407.64 for declarations not counted as hazard incidents (DR-4481-WA).
Cashmere city	City	Approved, expires 2029-12-05	FMA RL 0, SRL 0; any 0	\$41,393.39	3 total; 1 since its plan	
Chelan city	City	Approved, expires 2029-12-05	FMA RL 0, SRL 0; any 0	\$118,764.55	18 total; 0 since its plan	Includes \$23,673.53 for declarations not counted as hazard incidents (DR-4481-WA).
Entiat city	City	Approved, expires 2029-12-05	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	17 total; 0 since its plan	
Leavenworth city	City	Approved, expires 2029-12-05	FMA RL 0, SRL 0; any 0	\$310,104.32	8 total; 0 since its plan	Includes \$56,859.31 for declarations not counted as hazard incidents (DR-4481-WA).
Wenatchee city	City	Approved, expires 2029-12-05	FMA RL 0, SRL 0; any 3	\$79,779.11	5 total; 0 since its plan	

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

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

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

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

Local data needed

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

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

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

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

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2024-12-06 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>
Avalanche	\$148,109,127	n/a	10	\$26,136	n/a	\$3,495,588	0.0176%		
Cold Wave	\$21,289,865,257	\$332,652,928	78,679	\$1,807	\$749,097	\$934,117	under 0.0001%		
Drought	n/a	\$229,542,779	n/a	n/a	\$1,985	n/a	0.000865% (agriculture)		
Earthquake	\$38,805,432,415	n/a	79,074	\$3,070,512	n/a	\$1,027,182	0.00791%		
Hail	\$21,508,890,969	\$332,752,437	78,989	\$4,752	\$456,643	\$4,699	under 0.0001%		
Heat Wave	\$21,508,890,969	\$332,752,437	78,989	\$370	\$43,127	\$1,174,158	under 0.0001%		
Hurricane									
Ice Storm	\$21,508,890,969	n/a	78,989	\$1,254	n/a	\$16,210	under 0.0001%		

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2024-12-06 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>
Inland Flooding	\$21,454,864,042	\$9,976,406	3,086	\$41,276,565	\$34	\$9,885	n/a (see note)	\$514,000	
Landslide	\$2,578,844,889	n/a	6,874	\$102,223	n/a	\$39,859	0.00396%		
Lightning	\$21,508,890,969	n/a	78,989	\$8,748	n/a	\$831,786	under 0.0001%		
Strong Wind	\$21,508,890,969	\$332,752,437	78,989	\$26,633	\$3,902	\$43,849	0.000124%		\$25,000
Tornado	\$21,508,890,969	\$332,752,437	78,989	\$26,239	\$296	\$25,943	0.000122%		
Volcanic Activity	\$21,508,890,969	n/a	78,989	\$8,760	n/a	\$6,293	under 0.0001%		

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2024-12-06 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>
Wildfire	\$4,432,178,744	\$217,105,073	22,241	\$33,529,170	\$12,938	\$1,382,932	0.756%	\$287,020,000	no Public Assistance recorded (1 declaration); 1 declaration not yet in FEMA's PA summaries (they cover declarations through 2026-06-30).
Winter Weather	\$21,508,890,969	\$332,752,437	78,989	\$24,345	\$4,078	\$135,125	0.000113%	\$43,000	

Totals since 2024-12-06 (Storm Events through 2026-06-30): 7 county-coded records, 7 with a damage value recorded (including \$0), \$514,000; 29 zone-level records, 29 with a damage value recorded (including \$0), \$287,088,000 reported for the zone; Public Assistance: \$186,340.68 on 4 counted declarations, 1 of them with Public Assistance; 1 not yet in FEMA's PA summaries (they cover declarations through 2026-06-30).

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	78,989
Building value (total, not at risk)	\$21,508,890,969
Agriculture value (total, not at risk)	\$332,752,437
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$79,379,614
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)	\$9,127,626
Social vulnerability rating	Relatively Moderate
Community resilience rating	Relatively High
NRI version	December 2025

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

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

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	1	Severe repetitive loss, FMA definition (44 CFR 77.2)	1
Repetitive loss, NFIP insurance definition	9	Severe repetitive loss, NFIP insurance definition	0

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

Repeat-flood properties: county and state-level rows

Sources: 1, 4

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	1	1	9	0	10	1	1
of which: Chelan County (unincorporated area)	1	1	6	0	7	1	1
of which: Wenatchee city	0	0	3	0	3	0	0
Statewide, no county in FEMA's file	0	0	2	0	2	0	0

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

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

Sources: 1, 4

Jurisdiction	NFIP community ID	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
Chelan County	530015	1	1	6	0	7	1	1
Cashmere city	530016	0	0	0	0	0	0	0
Chelan city	530017	0	0	0	0	0	0	0
Entiat city	530018	0	0	0	0	0	0	0
Leavenworth city	530019	0	0	0	0	0	0	0
Wenatchee city	530020	0	0	3	0	3	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	1	8	0	9	1	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	1	0	1	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 1 property is FMA repetitive loss but not NFIP repetitive loss, and 9 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_Gazetteer/2024_Gaz_cousubs_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_Gazetteer/2024_Gaz_place_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_Gazetteer/2024_Gaz_unsd_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_Gazetteer/2024_Gaz_elsd_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_Gazetteer/2024_Gaz_scsd_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.

OpenFEMA disclaimer

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

Reuse, citation and corrections

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Cite this: Hazard Plain (2026). Chelan County, WA: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 53007). Automated baseline. <https://hazardplain.org/wa/53007/> 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