

Kittitas County, WA

Risk-assessment baseline packet

County FIPS: 53037 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 2030-09-02. Plan: Kittitas County Hazard Mitigation Plan (2025) (FEMA plan 110579), approved 2025-09-03.

Since the plan was approved on 2025-09-03: 2 new hazard declarations (1 incident): EM-3629-WA (Severe Storms, Straight-Line Winds, Flooding, Landslides, and Mudslides), DR-4906-WA (Severe Storms, Straight-Line Winds, Flooding, Landslides, and Mudslides).

NOAA Storm Events records since that date: 5 records (data through 2026-06-30).

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Wildfire (\$41,947,343 a year), Inland Flooding (\$15,869,665) and Earthquake (\$10,840,456).

Repetitive-loss flood properties now: FMA RL 2, SRL 3 (44 CFR 77.2); any definition: 22.

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; 53037 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 2025-09-03), page 2
4. Supports FEMA checklist item B1-a: hazard identification, page 5
5. Supports FEMA checklist item B1-b: hazard location, page 7
6. Supports FEMA checklist item B1-c: hazard extent, page 7
7. Supports FEMA checklist item B1-d: previous occurrences, page 10
8. Supports FEMA checklist item B1-e: probability of future events, page 14
9. Supports FEMA checklist item B1-f: hazards that vary across jurisdictions, page 16
10. Supports FEMA checklist items B2-a and B2-b: vulnerability and potential impacts, page 18
11. Supports FEMA checklist item B2-a: vulnerability (county context), page 19
12. Supports FEMA checklist item B2-c: repetitive loss properties, page 20
13. Sources, what the plan adds, disclaimer and citation, page 21

Plan clock

Status:	Approved, expires 2030-09-02	Plan:	Kittitas County Hazard Mitigation Plan (2025) (FEMA plan 110579)
Approved:	2025-09-03	Days to expiry:	1,433

What changed since your last plan (approved 2025-09-03)

New federal declarations:	2 new hazard declarations (1 incident): EM-3629-WA (Severe Storms, Straight-Line Winds, Flooding, Landslides, and Mudslides), DR-4906-WA (Severe Storms, Straight-Line Winds, Flooding, Landslides, and Mudslides)	Storm Events records since approval:	5 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 2, SRL 3 (44 CFR 77.2); any definition: 22	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: 16 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" on the following pages.

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

Plan clock

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Kittitas County	County	Approved, expires 2030-09-02	Kittitas County Hazard Mitigation Plan (2025) (FEMA plan 110579)	2025-09-03	2030-09-02	1,433		this jurisdiction approved 2025-09-02
Cle Elum city	City	Approved, expires 2030-09-02	Kittitas County Hazard Mitigation Plan (2025) (FEMA plan 110579)	2025-09-03	2030-09-02	1,433		this jurisdiction approved 2025-09-02
Ellensburg city	City	Approved, expires 2030-09-02	Kittitas County Hazard Mitigation Plan (2025) (FEMA plan 110579)	2025-09-03	2030-09-02	1,433		this jurisdiction approved 2025-09-02
Roslyn city	City	Approved, expires 2030-09-02	Kittitas County Hazard Mitigation Plan (2025) (FEMA plan 110579)	2025-09-03	2030-09-02	1,433		this jurisdiction approved 2025-09-02
South Cle Elum town	Town	Approved, expires 2030-09-02	Kittitas County Hazard Mitigation Plan (2025) (FEMA plan 110579)	2025-09-03	2030-09-02	1,433		this jurisdiction approved 2025-09-02
Cle Elum-Roslyn School District	School/School District	Plan 110579 approved 2025-09-03, pending adoption here; not yet eligible	Kittitas County Hazard Mitigation Plan (2025) (FEMA plan 110579), pending adoption here	2025-09-03 by FEMA; not yet adopted here	2030-09-02 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Kittitas School District	School/School District	Approved, expires 2030-09-02	Kittitas County Hazard Mitigation Plan (2025) (FEMA plan 110579)	2025-09-03	2030-09-02	1,433		this jurisdiction approved 2025-09-02
Central Washington University	College/University	Plan 110579 approved 2025-09-03, pending adoption here; not yet eligible	Kittitas County Hazard Mitigation Plan (2025) (FEMA plan 110579), pending adoption here	2025-09-03 by FEMA; not yet adopted here	2030-09-02 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Kittitas County Conservation District	Conservation District	Approved, expires 2030-09-02	Kittitas County Hazard Mitigation Plan (2025) (FEMA plan 110579)	2025-09-03	2030-09-02	1,433		this jurisdiction approved 2025-09-02
Kittitas County Fire District #6	Fire/EMS District	Plan 110579 approved 2025-09-03, pending adoption here; not yet eligible	Kittitas County Hazard Mitigation Plan (2025) (FEMA plan 110579), pending adoption here	2025-09-03 by FEMA; not yet adopted here	2030-09-02 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Kittitas Valley Fire Rescue	Fire/EMS District	Plan 110579 approved 2025-09-03, pending adoption here; not yet eligible	Kittitas County Hazard Mitigation Plan (2025) (FEMA plan 110579), pending adoption here	2025-09-03 by FEMA; not yet adopted here	2030-09-02 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry	Update underway	Notes
						<i>negative = days since expiry</i>		
Other (Fire District #1)	Fire/EMS District	Approved, expires 2030-09-02	Kittitas County Hazard Mitigation Plan (2025) (FEMA plan 110579)	2025-09-03	2030-09-02	1,433		this jurisdiction approved 2025-09-02
Other (Fire District #7)	Fire/EMS District	Approved, expires 2030-09-02	Kittitas County Hazard Mitigation Plan (2025) (FEMA plan 110579)	2025-09-03	2030-09-02	1,433		this jurisdiction approved 2025-09-02
Other (Kittitas PUD)	Electric/Power Authority	Approved, expires 2030-09-02	Kittitas County Hazard Mitigation Plan (2025) (FEMA plan 110579)	2025-09-03	2030-09-02	1,433		this jurisdiction approved 2025-09-02
Other (Snoqualmie Pass Utility)	Electric/Power Authority	Approved, expires 2030-09-02	Kittitas County Hazard Mitigation Plan (2025) (FEMA plan 110579)	2025-09-03	2030-09-02	1,433		this jurisdiction approved 2025-09-02
Snoqualmie Pass Fire & Rescue	Fire/EMS District	Approved, expires 2030-09-02	Kittitas County Hazard Mitigation Plan (2025) (FEMA plan 110579)	2025-09-03	2030-09-02	1,433		this jurisdiction approved 2025-09-02

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	Wildfire	Relatively High	Relatively High	\$40,637,633	\$4,315	\$1,305,395	\$41,947,343	24		
2	Inland Flooding	Relatively Moderate	Relatively Moderate	\$15,864,915	\$19	\$4,731	\$15,869,665	21		
3	Earthquake	Relatively Moderate	Relatively Moderate	\$6,745,307	n/a	\$4,095,149	\$10,840,456			Storm Events does not record earthquakes.
4	Avalanche	Very High	Relatively High	\$23,931	n/a	\$5,308,750	\$5,332,681	1		
5	Cold Wave	Relatively Low	Relatively Moderate	\$90	\$52,753	\$1,672,097	\$1,724,940	19		Includes 14 Frost/Freeze records (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	\$259	\$17,822	\$749,572	\$767,653	10		
7	Landslide	Relatively High	Relatively Moderate	\$645,301	n/a	\$12,067	\$657,368	2		
8	Lightning	Relatively Low	Relatively Low	\$18,827	n/a	\$136,442	\$155,269	2		
9	Winter Weather	Relatively Low	Relatively Low	\$9,592	\$972	\$60,646	\$71,210	118		

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
10	Strong Wind	Very Low	Very Low	\$23,246	\$7,059	\$30,440	\$60,745	22		Includes 19 High Wind and 3 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
11	Hail	Very Low	Very Low	\$2,435	\$41,374	\$2,977	\$46,787	7		
12	Tornado	Very Low	Very Low	\$19,096	\$91	\$19,204	\$38,391	1		
13	Ice Storm	Very Low	Very Low	\$2,342	n/a	\$17,858	\$20,201	5		
14	Drought	Very Low	Very Low	n/a	\$1,415	n/a	\$1,415	0		Declared 1 time; no Storm Events record of this type.
15	Volcanic Activity	Very Low	Very Low	\$6	n/a	\$1,283	\$1,290	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 9752.01 (Relatively High, 97.0); tract 9757 (Relatively High, 96.3); tract 9753 (Relatively High, 95.0)
Earthquake	tract 9756 (Very High, 98.1); tract 9754.02 (Very High, 97.8); tract 9754.03 (Relatively High, 94.0)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 9751.01 (Relatively High, 99.9); tract 9752.01 (Relatively High, 99.8); tract 9753 (Relatively High, 99.5)
Tornado	tract 9757 (Very Low, 12.4); tract 9754.02 (Very Low, 12.2); tract 9751.01 (Very Low, 11.4)
Volcanic Activity	tract 9754.02 (Relatively Low, 96.8); tract 9755 (Relatively Low, 96.3); tract 9757 (Relatively Low, 96.2)
Wildfire	tract 9752.01 (Very High, 100.0); tract 9753 (Very High, 100.0); tract 9751.01 (Very High, 99.9)

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 9752.01 is Census Tract 9752.01). 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)	1 record, 2026 (1 zone-level)		No damage reported in 1 record.		Countywide (zone-level records).	Physical measure: in event narratives only (local data needed).
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	5 records, 2002 to 2022 (5 zone-level)	2 days to 6 days (median 2 days); 4 with a recorded value	6 consecutive days, 2002-10-30 to 2002-11-04, zone-level		Countywide (zone-level records).	Wind chill: in event narratives only (local data needed).
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	14 records, 2022 to 2025 (14 zone-level)		No crop damage reported in 14 records.		Countywide (zone-level records).	Temperature: in event narratives only (local data needed).

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)	7 records, 2006 to 2015	0.75 in to 1.5 in (median 1 in); 7 with a recorded value	1.5 in hail, 2006-07-05		Event records naming jurisdictions in the plan: Cle Elum city (2 records), Ellensburg city (1 record), Roslyn city (1 record).	
Excessive Heat, Heat	heat index (in event narratives)	10 records, 2002 to 2022 (10 zone-level)	1 day to 7 days (median 4 days); 8 with a recorded value	7 consecutive days, 2022-07-25 to 2022-07-31, zone-level		Countywide (zone-level records).	Heat index: in event narratives only (local data needed).
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)	5 records, 2004 to 2017 (5 zone-level)		No damage reported in 5 records.		Countywide (zone-level records).	Ice thickness: in event narratives only (local data needed).
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	21 records, 1997 to 2017 (4 zone-level)		Flood, 2009-01-07, \$10,000,000 property; \$0 crops (2009 dollars)		Event records naming jurisdictions in the plan: Cle Elum city (2 records), Ellensburg city (2 records). Zone-level records (4) 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)	2 records, 2011 to 2012 (2 zone-level)		No damage reported in 2 records.		Countywide (zone-level records).	Physical measure: in event narratives only (local data needed).
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	2 records, 2010 to 2011		Lightning, 2011-05-14, \$300,000 property; \$0 crops (2011 dollars)		Event records naming jurisdictions in the plan: Ellensburg city (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only (local data needed).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	22 records, 1999 to 2025 (22 zone-level)	36 kt (41 mph) to 70 kt (81 mph) (median 50 kt (58 mph)); 22 with a recorded value	70 kt (81 mph) measured gust, High Wind, 2011-11-14; NWS zone WAZ520	High Wind, 2010-11-15, \$100,000 property; \$0 crops, reported for the zone (2010 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	1 record, 1988	60 kt (69 mph); 1 with a recorded value	60 kt (69 mph), measurement type not recorded, Thunderstorm Wind, 1988-05-12		No event record names a jurisdiction in the plan.	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	1 record, 2024	F/EF0; 1 with a recorded value	EF0 tornado, 2024-05-01, 0.35 mi within this county, 1 yd wide, \$0 property; \$0 crops (2024 dollars)		No event record names a jurisdiction in the plan.	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only (local data needed).
Wildfire	acres burned (local data)	24 records, 2003 to 2018 (20 zone-level)		Wildfire, 2012-08-13, \$8,300,000 property; \$0 crops (2012 dollars); NWS zone WAZ520		Event records naming jurisdictions in the plan: Cle Elum city (2 records), Roslyn city (2 records). Zone-level records (20) apply countywide.	Acres burned: in event narratives only (local data needed).
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	118 records, 1996 to 2026 (118 zone-level)		No damage reported in 118 records.		Countywide (zone-level records).	Snow depth: in event narratives only (local data needed).

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records whose zone 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: 29 declarations covering 23 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
2026-04-07	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	\$660,585.12	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
2021-02-04	2020-09-01	DR-4584-WA	Major disaster	Wildfires and Straight-Line Winds	Wildfire	\$13,920.08		
2020-03-22	2020-01-20	DR-4481-WA	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$589,809.31		
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
2018-07-10	2018-07-09	FM-5253-WA	Fire management	Ryegrass Coulee Fire	Wildfire	no Public Assistance recorded		
2017-09-02	2017-09-02	FM-5200-WA	Fire management	Jolly Mountain 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	\$788,885.81		
2014-08-11	2014-07-09	DR-4188-WA	Major disaster	Wildfires	Wildfire	\$1,030,382.08		
2014-08-03	2014-08-02	FM-5071-WA	Fire management	Snag Canyon Fire	Wildfire	no Public Assistance recorded		same incident as DR-4188
2014-07-19	2014-07-19	FM-5064-WA	Fire management	Saddle Mountain Fire	Wildfire	no Public Assistance recorded		same incident as DR-4188
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		
2012-08-14	2012-08-13	FM-5005-WA	Fire management	Taylor Bridge Fire	Wildfire	no Public Assistance recorded		
2011-03-25	2011-01-11	DR-1963-WA	Major disaster	Severe Winter Storm, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide; Winter Weather	\$404,289.62		
2009-03-02	2008-12-12	DR-1825-WA	Major disaster	Severe Winter Storm and Record and Near Record Snow	Winter Weather	\$33,618.10		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
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	\$1,829,039.06		
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		
2004-07-30	2004-07-30	FM-2538-WA	Fire management	Elk Heights Fire	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		
1996-02-09	1996-01-26	DR-1100-WA	Major disaster	High Winds, Severe Storms and Flooding	Inland Flooding (primary); also designated: Strong Wind	no Public Assistance recorded		
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		
1977-12-10	1977-12-10	DR-545-WA	Major disaster	Severe Storms, Mudslides, & Flooding	Inland Flooding (primary); also designated: Landslide	no Public Assistance recorded		
1977-03-31	1977-03-31	EM-3037-WA	Emergency	Drought	Drought	no Public Assistance recorded		
1975-12-13	1975-12-13	DR-492-WA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1964-12-29	1964-12-29	DR-185-WA	Major disaster	Heavy Rains & Flooding	Inland Flooding	no Public Assistance recorded		

School districts and special districts in this county: \$2,652.56 (included in the county total above). Public Assistance matched by applicant name to the school districts and special districts FEMA lists as plan participants in this county. They have no row of their own in the jurisdiction table, so their total is listed here. These dollars are already included in the county PA column of the declarations table (the FEMA record places each applicant in this county), so this line is not added to it.

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

Statewide declarations

Source: 2

Declared	Incident began	FEMA number	Type	Title	Mapped hazard
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	1	1	0	1	0	0	1996 to 2026-06-30	
Cold Wave	19	0	3	15	0	0	1996 to 2026-06-30	Includes 14 Frost/Freeze records.
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	7	0	0	0	0	0	1955 to 2026-06-30	
Heat Wave	10	0	0	2	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	5	0	0	0	0	0	1996 to 2026-06-30	
Inland Flooding	21	0	0	0	11	1	1996 to 2026-06-30	
Landslide	2	0	0	0	6	1	1996 to 2026-06-30	
Lightning	2	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	23	0	1	1	4	1	1955 to 2026-06-30	Includes 19 High Wind and 3 Strong Wind records.
Tornado	1	0	0	1	0	0	1950 to 2026-06-30	
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	24	0	0	0	8	0	1996 to 2026-06-30	
Winter Weather	118	4	3	25	4	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
2026-01-09	Avalanche		\$0 property; \$0 crops, reported for the zone (2026 dollars)	2, 1	NWS zone WAZ522 (UPPER SLOPES OF THE EST WASHINGTON CASCADE CREST), zone-level	new since last plan; within last 5 years	deaths or injuries recorded
2024-05-01	Tornado	EF0, 0.35 mi within this county, 1 yd wide	\$0 property; \$0 crops (2024 dollars)	0, 0	VANTAGE	within last 5 years	B1-c worst recorded: Tornado
2022-07-25	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2022 dollars)	0, 0	NWS zone WAZ520 (EAST SLOPES OF THE WASHINGTON CASCADES), zone-level	within last 5 years	B1-c worst recorded: Excessive Heat, Heat
2012-08-13	Wildfire		\$8,300,000 property; \$0 crops, reported for the zone (2012 dollars)	0, 0	NWS zone WAZ520 (EAST SLOPES OF THE WASHINGTON CASCADES), zone-level		B1-c worst recorded: Wildfire
2011-11-14	High Wind	70 kt (81 mph) measured gust	\$1,000 property; \$0 crops, reported for the zone (2011 dollars)	0, 0	NWS zone WAZ520 (EAST SLOPES OF THE WASHINGTON CASCADES), zone-level		B1-c worst recorded: High Wind and Strong Wind
2011-05-14	Lightning		\$300,000 property; \$0 crops (2011 dollars)	0, 0	(ELN)BOWERS FLD ELLE		B1-c worst recorded: Lightning
2010-11-15	High Wind	50 kt (58 mph) estimated gust	\$100,000 property; \$0 crops, reported for the zone (2010 dollars)	0, 0	NWS zone WAZ520 (EAST SLOPES OF THE WASHINGTON CASCADES), zone-level		B1-c most damaging: High Wind and Strong Wind
2009-01-07	Flood		\$10,000,000 property; \$0 crops (2009 dollars)	0, 0	EASTON to HILLSIDE		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2006-07-05	Hail	1.5 in	damage not reported	0, 0	CLE ELUM		B1-c worst recorded: Hail
2002-10-30	Extreme Cold/ Wind Chill		damage not reported	0, 0	NWS zone WAZ026 (KITTTITAS VALLEY), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
1996-12-27	Heavy Snow		damage not reported	0, 1	NWS zone WAZ026 (KITTTITAS VALLEY), zone-level		deaths or injuries recorded
1988-05-12	Thunderstorm Wind	60 kt (69 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	location not recorded		B1-c worst recorded: Thunderstorm Wind

The full list is in the Excel file, sheet "B1-d Storm Events history" (233 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	0.333	events per year	about 1 in 3 years	Likely	FEMA annualized frequency (modeled)	10	1994 to 2023 (30 years)	see B1-f	
Cold Wave	0.245	event-days per year	about 0.245 days per year	Likely (from Storm Events: 4 of 30 years)	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	4.67	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	15.8	event-days per year	about 15.8 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	770	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No Storm Events drought record, 1996 to 2025
Earthquake	0.0135	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 1.35%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.0836	events per year	about 1 in 12 years	Possible	FEMA annualized frequency (modeled)	3.2 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	3.62	event-days per year	about 3.62 days per year	Likely (from Storm Events: 6 of 30 years)	event-days in 6 of 30 years, 1996 to 2025 (20%)	38.8	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	0.188	event-days per year	about 0.188 days per year	Likely (from Storm Events: 4 of 30 years)	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	13	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	0.607	event-days per year	about 0.607 days per year	Likely (from Storm Events: 12 of 30 years)	event-days in 12 of 30 years, 1996 to 2025 (40%)	17	1996 to 2023 (28 years)	see B1-f	
Landslide	2.34	events per year (modeled)	about 2.34 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	8.78	days per year with a strike	about 8.78 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.0776	events per year	about 1 in 13 years	Possible	FEMA annualized frequency (modeled)	3	1986 to 2023 (38 years)	countywide	
Tornado	0.0609	events per year	about 1 in 16 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) <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
Volcanic Activity	0.0134	annual probability	about 1 in 75 years	Possible	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Wildfire	0.0272	annual probability at a location	chance a given location in the county burns in a year: 2.72%	Likely (from Storm Events: 8 of 30 years)	Storm Events records in 8 of 30 years, 1996 to 2025 (26.7%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI.
Winter Weather	22	event-days per year	about 22 days per year	Highly likely (from Storm Events: 29 of 30 years)	event-days in 29 of 30 years, 1996 to 2025 (96.7%)	418	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	4	30	0.133
Hail	2.00 in+	1996 to 2025	0	30	0
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	0	30	0
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	0	30	0
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	0	30	0
Tornado	EF0-1	1996 to 2025	1	30	0.0333
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	6 of 14	93.6	95.0	97.0	Relatively High 6, Not Applicable 8
Cold Wave	14 of 14	25.6	54.6	91.1	Relatively High 5, Relatively Moderate 5, Relatively Low 4
Drought	9 of 14	67.5	70.1	80.9	Relatively Low 1, Very Low 8, No Rating 5
Earthquake	14 of 14	65.7	84.1	98.1	Very High 2, Relatively High 2, Relatively Moderate 7, Relatively Low 3
Hail	14 of 14	3.7	17.7	78.6	Relatively Moderate 1, Relatively Low 1, Very Low 12
Heat Wave	14 of 14	15.9	43.0	85.8	Relatively High 2, Relatively Moderate 4, Relatively Low 7, Very Low 1
Hurricane	0 of 14				Not Applicable 14
Ice Storm	14 of 14	1.9	5.9	59.0	Relatively Low 3, Very Low 11
Inland Flooding	14 of 14	24.6	69.0	98.8	Very High 2, Relatively High 4, Relatively Moderate 5, Relatively Low 3
Landslide	14 of 14	16.8	72.0	99.9	Relatively High 3, Relatively Moderate 1, Relatively Low 3, Very Low 7
Lightning	14 of 14	24.7	48.0	73.5	Relatively Moderate 7, Relatively Low 7

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Strong Wind	14 of 14	9.5	17.8	48.7	Relatively Low 6, Very Low 8
Tornado	14 of 14	2.7	6.3	12.4	Very Low 14
Volcanic Activity	14 of 14	86.9	90.0	96.8	Relatively Low 14
Wildfire	14 of 14	93.9	98.8	100.0	Very High 6, Relatively High 5, Relatively Moderate 3
Winter Weather	14 of 14	40.8	65.5	83.0	Relatively High 2, Relatively Moderate 9, Relatively Low 3

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 88% 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
Kittitas County	County	Approved, expires 2030-09-02	FMA RL 2, SRL 3; any 20	\$2,921,076.72	0 total; 0 since its plan	Includes \$385,706.10 for declarations not counted as hazard incidents (DR-4481-WA).
Cle Elum city	City	Approved, expires 2030-09-02	FMA RL 0, SRL 0; any 1	\$110,883.80	6 total; 0 since its plan	Includes \$6,350.02 for declarations not counted as hazard incidents (DR-4481-WA).
Ellensburg city	City	Approved, expires 2030-09-02	FMA RL 0, SRL 0; any 0	\$149,664.42	4 total; 0 since its plan	
Roslyn city	City	Approved, expires 2030-09-02	FMA RL 0, SRL 0; any 0	\$594,157.78	3 total; 0 since its plan	
South Cle Elum town	Town	Approved, expires 2030-09-02	FMA RL 0, SRL 0; any 0	\$53,751.36	0 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 2025-09-03 <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	\$59,129,279	n/a	10	\$23,931	n/a	\$5,308,750	0.0405%		\$0		
Cold Wave	\$14,407,366,836	\$106,895,353	44,271	\$90	\$52,753	\$1,672,097	under 0.0001%				
Drought	n/a	\$54,865,666	n/a	n/a	\$1,415	n/a	0.00258% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$25,876,760,947	n/a	44,337	\$6,745,307	n/a	\$4,095,149	0.0261%				
Hail	\$14,407,366,836	\$106,895,353	44,271	\$2,435	\$41,374	\$2,977	under 0.0001%				
Heat Wave	\$14,407,366,836	\$106,895,353	44,271	\$259	\$17,822	\$749,572	under 0.0001%				
Hurricane											Not Applicable in NRI for this county
Ice Storm	\$14,394,520,741	n/a	44,211	\$2,342	n/a	\$17,858	under 0.0001%				
Inland Flooding	\$14,393,515,847	\$11,166,809	3,309	\$15,864,915	\$19	\$4,731	n/a (see note)			\$660,585.12	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	\$1,005,982,405	n/a	1,250	\$645,301	n/a	\$12,067	0.0641%			\$660,585.12	
Lightning	\$14,407,366,836	n/a	44,271	\$18,827	n/a	\$136,442	0.000131%				
Strong Wind	\$14,407,366,836	\$106,895,353	44,271	\$23,246	\$7,059	\$30,440	0.000161%			\$660,585.12	
Tornado	\$14,407,366,836	\$106,895,353	44,271	\$19,096	\$91	\$19,204	0.000133%				

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 2025-09-03 <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
Volcanic Activity	\$14,407,366,836	n/a	44,271	\$6	n/a	\$1,283	under 0.0001%				
Wildfire	\$4,510,399,995	\$78,382,384	18,119	\$40,637,633	\$4,315	\$1,305,395	0.901%				
Winter Weather	\$14,407,366,836	\$106,895,353	44,271	\$9,592	\$972	\$60,646	under 0.0001%		\$0		

Totals since 2025-09-03 (Storm Events through 2026-06-30): 0 county-coded records, 0 with a damage value recorded (including \$0), \$0; 5 zone-level records, 5 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance: \$660,585.12 on 2 counted declarations, 1 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 context

Source: 5

Measure	Value
Population	44,271
Building value (total, not at risk)	\$14,407,366,836
Agriculture value (total, not at risk)	\$106,895,353
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$64,118,800
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)	\$13,416,611
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)	2	Severe repetitive loss, FMA definition (44 CFR 77.2)	3
Repetitive loss, NFIP insurance definition	18	Severe repetitive loss, NFIP insurance definition	1

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

Repeat-flood properties: county and state-level rows

Sources: 1, 4

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	2	3	18	1	22	3	6
of which: Kittitas County (unincorporated area)	2	3	16	1	20	3	6
of which: Cle Elum city	0	0	1	0	1	0	0
of which: Kittitas city (community ID not in plan data)	0	0	1	0	1	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>
Kittitas County	530095	2	3	16	1	20	3	6
Cle Elum city	530096	0	0	1	0	1	0	0
Ellensburg city	530234	0	0	0	0	0	0	0
Roslyn city	530299	0	0	0	0	0	0	0
South Cle Elum town	530263	0	0	0	0	0	0	0

Counts by occupancy group for each jurisdiction are in the Excel file, sheet "B2-c Jurisdictions".

Jurisdiction rows are whole NFIP communities and need not add up to the county total: a community that extends into another county is counted in full on each jurisdiction row, while the county table counts only its part in this county.

County repeat-flood properties by occupancy group

Sources: 1, 4

Occupancy group	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
single-family residential	1	3	18	1	21	3	5
2 to 4 unit residential	0	0	0	0	0	0	0
other residential	0	0	0	0	0	0	0
non-residential	1	0	0	0	1	0	1
not reported	0	0	0	0	0	0	0

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

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

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

In this county 2 properties are FMA repetitive loss but not NFIP repetitive loss, and 18 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, organized by the items of FEMA's Local Mitigation Plan Review Tool, Element B. Each section heading names the item its tables support; the plan and FEMA's review decide whether the 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

Reuse and citation: Hazard Plain text and tables are licensed under Creative Commons Attribution 4.0 International (CC BY 4.0, <https://creativecommons.org/licenses/by/4.0/>); credit Hazard Plain and the release. The underlying federal data are public domain; OpenFEMA data are also subject to the OpenFEMA terms and conditions.

Cite this: Hazard Plain (2026). Kittitas County, WA: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 53037). Automated baseline. <https://hazardplain.org/wa/53037/> 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

Hazard Plain release 2026-10. As of 2026-09-30; Storm Events data through 2026-06-30. Automated baseline.