

Lewis County, WA

Risk-assessment baseline packet

County FIPS: 53041 Release: 2026-10 Data as of: 2026-09-30 Storm Events data through: 2026-06-30

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Summary

Plan status as of 2026-09-30: Approved, expires 2030-05-29. Plan: Lewis County (2024) (FEMA plan 110051), approved 2025-05-30.

Since the plan was approved on 2025-05-30: 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: 0 records (data through 2026-06-30).

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$36,764,687 a year), Earthquake (\$30,437,475) and Avalanche (\$1,300,698).

Repetitive-loss flood properties now: FMA RL 42, SRL 67 (44 CFR 77.2); any definition: 181.

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; 53041 is this area.

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

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

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

CFR: Code of Federal Regulations.

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

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

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Plan clock

Status:	Approved, expires 2030-05-29	Plan:	Lewis County (2024) (FEMA plan 110051)
Approved:	2025-05-30	Days to expiry:	1,337

What changed since your last plan (approved 2025-05-30)

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:	0 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 42, SRL 67 (44 CFR 77.2); any definition: 181	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: 25 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
Lewis County	County	Approved, expires 2030-05-29	Lewis County (2024) (FEMA plan 110051)	2025-05-30	2030-05-29	1,337		
Centralia city	City	Approved, expires 2030-05-29	Lewis County (2024) (FEMA plan 110051)	2025-05-30	2030-05-29	1,337		
Chehalis city	City	Approved, expires 2030-05-29	Lewis County (2024) (FEMA plan 110051)	2025-05-30	2030-05-29	1,337		
Morton city	City	Plan 110051 approved 2025-05-30, pending adoption here; not yet eligible	Lewis County (2024) (FEMA plan 110051), pending adoption here	2025-05-30 by FEMA; not yet adopted here	2030-05-29 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Mossyrock city	City	Plan 110051 approved 2025-05-30, pending adoption here; not yet eligible	Lewis County (2024) (FEMA plan 110051), pending adoption here	2025-05-30 by FEMA; not yet adopted here	2030-05-29 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Napavine city	City	Approved, expires 2030-05-29	Lewis County (2024) (FEMA plan 110051)	2025-05-30	2030-05-29	1,337		
Vader city	City	Approved, expires 2030-05-29	Lewis County (2024) (FEMA plan 110051)	2025-05-30	2030-05-29	1,337		
Winlock city	City	Approved, expires 2030-05-29	Lewis County (2024) (FEMA plan 110051)	2025-05-30	2030-05-29	1,337		
Cemetery District 4	Special District	Plan 110051 approved 2025-05-30, pending adoption here; not yet eligible	Lewis County (2024) (FEMA plan 110051), pending adoption here	2025-05-30 by FEMA; not yet adopted here	2030-05-29 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Cowlitz-Lewis Fire District 20	Fire/EMS District	Plan 110051 approved 2025-05-30, pending adoption here; not yet eligible	Lewis County (2024) (FEMA plan 110051), pending adoption here	2025-05-30 by FEMA; not yet adopted here	2030-05-29 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Lewis Co. PUD #1	Special District	Approved, expires 2030-05-29	Lewis County (2024) (FEMA plan 110051)	2025-05-30	2030-05-29	1,337		
Lewis County Fire District #4	Fire/EMS District	Plan 110051 approved 2025-05-30, pending adoption here; not yet eligible	Lewis County (2024) (FEMA plan 110051), pending adoption here	2025-05-30 by FEMA; not yet adopted here	2030-05-29 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Lewis County Fire District #6	Fire/EMS District	Plan 110051 approved 2025-05-30, pending adoption here; not yet eligible	Lewis County (2024) (FEMA plan 110051), pending adoption here	2025-05-30 by FEMA; not yet adopted here	2030-05-29 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Lewis County Fire District 1	Fire/EMS District	Approved, expires 2030-05-29	Lewis County (2024) (FEMA plan 110051)	2025-05-30	2030-05-29	1,337		

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Lewis County Fire District 10	Fire/EMS District	Approved, expires 2030-05-29	Lewis County (2024) (FEMA plan 110051)	2025-05-30	2030-05-29	1,337		
Lewis County Fire District 14	Fire/EMS District	Plan 110051 approved 2025-05-30, pending adoption here; not yet eligible	Lewis County (2024) (FEMA plan 110051), pending adoption here	2025-05-30 by FEMA; not yet adopted here	2030-05-29 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Lewis County Fire District 15	Fire/EMS District	Plan 110051 approved 2025-05-30, pending adoption here; not yet eligible	Lewis County (2024) (FEMA plan 110051), pending adoption here	2025-05-30 by FEMA; not yet adopted here	2030-05-29 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Lewis County Fire District 2	Fire/EMS District	Plan 110051 approved 2025-05-30, pending adoption here; not yet eligible	Lewis County (2024) (FEMA plan 110051), pending adoption here	2025-05-30 by FEMA; not yet adopted here	2030-05-29 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Lewis County Fire District 3	Fire/EMS District	Plan 110051 approved 2025-05-30, pending adoption here; not yet eligible	Lewis County (2024) (FEMA plan 110051), pending adoption here	2025-05-30 by FEMA; not yet adopted here	2030-05-29 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Lewis County Fire District 8	Fire/EMS District	Plan 110051 approved 2025-05-30, pending adoption here; not yet eligible	Lewis County (2024) (FEMA plan 110051), pending adoption here	2025-05-30 by FEMA; not yet adopted here	2030-05-29 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Lewis County Water District #2	Water/Sewer Authority	Plan 110051 approved 2025-05-30, pending adoption here; not yet eligible	Lewis County (2024) (FEMA plan 110051), pending adoption here	2025-05-30 by FEMA; not yet adopted here	2030-05-29 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Port of Chehalis	Highway/Port/Rail	Approved, expires 2030-05-29	Lewis County (2024) (FEMA plan 110051)	2025-05-30	2030-05-29	1,337		
Providence Hospital - Centralia	Hospital/Medical Facility	Plan 110051 approved 2025-05-30, pending adoption here; not yet eligible	Lewis County (2024) (FEMA plan 110051), pending adoption here	2025-05-30 by FEMA; not yet adopted here	2030-05-29 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Thurston Public Utility District	Special District	Approved, expires 2030-05-29	Lewis County (2024) (FEMA plan 110051)	2025-05-30	2030-05-29	1,337		
Timberland Regional Library	Special District	Approved, expires 2030-05-29	Lewis County (2024) (FEMA plan 110051)	2025-05-30	2030-05-29	1,337		

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	\$36,432,899	\$19,367	\$312,420	\$36,764,687	13		
2	Earthquake	Relatively Moderate	Relatively High	\$20,484,449	n/a	\$9,953,027	\$30,437,475			Storm Events does not record earthquakes.
3	Avalanche	Relatively High	Relatively Moderate	\$575	n/a	\$1,300,123	\$1,300,698	1		
4	Heat Wave	Relatively Low	Relatively Low	\$287	\$20,146	\$1,151,610	\$1,172,043	18		
5	Volcanic Activity	Relatively Moderate	Relatively Moderate	\$136,653	n/a	\$149,897	\$286,550	0		Declared 1 time; no Storm Events record of this type.
6	Wildfire	Relatively Low	Relatively Low	\$254,586	\$36	\$7,963	\$262,586	2		
7	Landslide	Relatively Moderate	Relatively Moderate	\$172,295	n/a	\$22,732	\$195,027	2		
8	Strong Wind	Relatively Low	Relatively Low	\$143,161	\$22	\$25,081	\$168,265	101		Includes 82 High Wind and 19 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
9	Tornado	Very Low	Very Low	\$68,137	\$648	\$93,353	\$162,138	2		
10	Lightning	Relatively Low	Relatively Low	\$4,894	n/a	\$97,857	\$102,751	3		

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	Winter Weather	Relatively Low	Relatively Low	\$12,365	\$2,110	\$25,134	\$39,608	101		
12	Ice Storm	Relatively Low	Relatively Low	\$17,355	n/a	\$20,016	\$37,372	3		
13	Hail	Very Low	Very Low	\$6,530	\$3,425	\$2,389	\$12,343	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Cold Wave	Very Low	Very Low	under \$1	under \$1	\$148	\$149	7		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).
15	Drought	Very Low	Very Low	n/a	\$46	n/a	\$46	2		
	Coastal Flooding	Not Applicable	Not Applicable					1		
	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: 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 9719 (Relatively Moderate, 87.0); tract 9716 (Relatively Moderate, 86.4); tract 9717 (Relatively Moderate, 85.2)
Coastal Flooding	no tract has a National Risk Index rating for this hazard
Earthquake	tract 9707 (Very High, 99.4); tract 9708 (Very High, 98.8); tract 9703 (Very High, 98.0)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 9720 (Relatively High, 99.6); tract 9718 (Relatively Moderate, 98.9); tract 9717 (Relatively Moderate, 98.7)
Tornado	tract 9703 (Relatively Low, 29.9); tract 9717 (Very Low, 25.9); tract 9713 (Very Low, 24.4)
Volcanic Activity	tract 9720 (Relatively High, 99.5); tract 9719 (Relatively Moderate, 98.7); tract 9718 (Relatively Moderate, 98.6)
Wildfire	tract 9720 (Relatively Moderate, 96.1); tract 9717 (Relatively Moderate, 92.1); tract 9718 (Relatively Moderate, 88.9)

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 9719 is Census Tract 9719). 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, 2021 (1 zone-level)		No damage reported in 1 record.		Countywide (zone-level records).	Physical measure: in event narratives only (local data needed).
Coastal Flood, Storm Surge/ Tide	none in data (flood depth: FIRM)	1 record, 2022 (1 zone-level)		No damage reported in 1 record.		Countywide (zone-level records).	Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	6 records, 1998 to 2024 (6 zone-level)	1 day to 7 days (median 2 days); 4 with a recorded value	7 consecutive days, 1998-12-18 to 1998-12-24, zone-level		Countywide (zone-level records).	Wind chill: in event narratives only (local data needed). Cold/ Wind Chill records from May to September (a frost night, not a cold wave) are counted but not used for the longest run.
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	1 record, 2024 (1 zone-level)		No crop damage reported in 1 record.		Countywide (zone-level records).	Temperature: in event narratives only (local data needed).
Drought	U.S. Drought Monitor scale (D0 to D4)	2 records, 2001 to 2005 (2 zone-level)	1 day to 21 days (median 11 days); 2 with a recorded value	21 days, 2005-03-10 to 2005-03-30, zone-level		Countywide (zone-level records).	Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	hail size (inches)	0					
Excessive Heat, Heat	heat index (in event narratives)	18 records, 2006 to 2024 (18 zone-level)	1 day to 5 days (median 1 day); 14 with a recorded value	5 consecutive days, 2023-05-12 to 2023-05-16, zone-level		Countywide (zone-level records).	Heat index: in event narratives only (local data needed). Heat records from November to March (unseasonable warmth, not a heat wave) are counted but not used for the longest run.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
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, 2012 to 2022 (3 zone-level)		Ice Storm, 2012-01-19, \$1,100,000 property; \$0 crops (2012 dollars); NWS zone WAZ504		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)	13 records, 1996 to 2021 (5 zone-level)		Flood, 2007-12-02, \$50,000,000 property; \$0 crops (2007 dollars), 1 direct death		Event records naming jurisdictions in the plan: Centralia city (1 record). Zone-level records (5) 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, 1997 to 2007 (2 zone-level)		Debris Flow, 2007-12-03, \$750,000 property; \$0 crops (2007 dollars); NWS zone WAZ504		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)	3 records, 2002 to 2013		Lightning, 2002-08-05, \$2,000 property; crops not reported (2002 dollars)		Event records naming jurisdictions in the plan: Chehalis city (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only (local data needed).
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	101 records, 1999 to 2025 (101 zone-level)	26 kt (30 mph) to 79 kt (91 mph) (median 56 kt (64 mph)); 101 with a recorded value	79 kt (91 mph) measured gust, High Wind, 2014-02-16; Storm Events area SOUTHWEST INTERIOR (legacy zone code WAZ020)	High Wind, 2015-12-08, \$6,000,000 property; \$0 crops, reported for the zone (2015 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	0					

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Tornado	Enhanced Fujita (Fujita before Feb 2007)	3 records, 1965 to 2011	F/EF0 to F/EF2 (median F/EF0); 3 with a recorded value	F2 tornado, 1965-11-10, 1.5 mi path length (whole path, pre-1996), 23 yd wide, \$25,000 property; crops not recorded (1965 dollars)		Event records naming jurisdictions in the plan: Napavine city (1 record).	Before 1996 a tornado is listed once, under the county where it began, with its whole path's rating and length; from 1996 on, each county lists its own segment. Length is not used to rank tornadoes (see Methods).
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only (local data needed).
Wildfire	acres burned (local data)	2 records, 2017 to 2020 (2 zone-level)		Wildfire, 2017-08-22, \$4,000,000 property; \$0 crops (2017 dollars); NWS zone WAZ504		Countywide (zone-level records).	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)	101 records, 1997 to 2025 (101 zone-level)		Winter Storm, 2008-12-20, \$691,000 property; \$0 crops (2008 dollars); Storm Events area SOUTHWEST INTERIOR (legacy zone code WAZ020)		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: 37 declarations covering 33 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	\$462,992.27	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
2024-04-28	2024-01-05	DR-4775-WA	Major disaster	Severe Winter Storms, Straight-Line Winds, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide; Strong Wind; Winter Weather	\$630,572.25	within last 5 years	
2023-01-12	2022-11-03	DR-4682-WA	Major disaster	Severe Winter Storm, Straight-Line Winds, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide; Strong Wind; Winter Weather	\$271,712.24	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	\$10,817,371.46	within last 5 years	
2022-01-05	2021-11-05	DR-4635-WA	Major disaster	Severe Storms, Straight-Line Winds, Flooding, Landslides, and Mudslides	Inland Flooding (primary); also designated: Landslide, Strong Wind	\$1,046,899.40	within last 5 years	
2021-04-08	2020-12-29	DR-4593-WA	Major disaster	Severe Winter Storm, Straight-Line Winds, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide; Strong Wind; Winter Weather	\$7,569,942.69		
2020-04-23	2020-01-20	DR-4539-WA	Major disaster	Severe Storms, Flooding, Landslides, and Mudslides	Inland Flooding (primary); also designated: Landslide	\$3,209,151.81		
2020-03-22	2020-01-20	DR-4481-WA	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$784,720.55		
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
2017-04-21	2017-01-30	DR-4309-WA	Major disaster	Severe Winter Storms, Flooding, Landslides, Mudslides	Inland Flooding (primary); also designated: Landslide, Winter Weather	\$3,018,656.54		
2016-02-02	2015-12-01	DR-4253-WA	Major disaster	Severe Winter Storm, Straight-Line Winds, Flooding, Landslides, Mudslides, and a T	Inland Flooding (primary); also designated: Landslide, Strong Wind, Winter Weather	\$2,919,113.24		
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	\$295,746.88		
2012-03-05	2012-01-14	DR-4056-WA	Major disaster	Severe Winter Storm, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide; Winter Weather	\$734,076.76		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance		Flags	Notes
						federal share obligated,	nominal dollars		
2011-03-25	2011-01-11	DR-1963-WA	Major disaster	Severe Winter Storm, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide; Winter Weather	\$896,543.62			
2009-03-02	2008-12-12	DR-1825-WA	Major disaster	Severe Winter Storm and Record and Near Record Snow	Winter Weather	\$430,900.27			
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	\$3,319,636.22			
2007-12-08	2007-12-01	DR-1734-WA	Major disaster	Severe Storms, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide	\$19,227,779.28			
2007-02-14	2006-12-14	DR-1682-WA	Major disaster	Severe Winter Storm, Landslides, and Mudslides	Landslide; Winter Weather	\$487,677.35			
2006-12-12	2006-11-02	DR-1671-WA	Major disaster	Severe Storms, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide	\$3,768,970.90			
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			
2001-03-01	2001-02-28	DR-1361-WA	Major disaster	Earthquake	Earthquake	\$455,754.65			
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			
1993-03-04	1993-01-20	DR-981-WA	Major disaster	Severe Storms & High Wind	Strong Wind	no Public Assistance recorded			
1991-03-08	1990-12-20	DR-896-WA	Major disaster	Severe Storms & High Tides	Inland Flooding (primary); also designated: Coastal Flooding	no Public Assistance recorded			
1990-11-26	1990-11-09	DR-883-WA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded			
1990-01-18	1990-01-06	DR-852-WA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded			
1986-12-15	1986-11-22	DR-784-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			
1975-12-13	1975-12-13	DR-492-WA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded			
1974-01-25	1974-01-25	DR-414-WA	Major disaster	Severe Storms, Snowmelt & Flooding	Inland Flooding	no Public Assistance recorded			
1972-02-01	1972-02-01	DR-322-WA	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded			

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
1971-02-09	1971-02-09	DR-300-WA	Major disaster	Heavy Rains, Melting Snows & 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: \$1,226,424.99 (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	0	0	1	0	0	1996 to 2026-06-30	
Coastal Flooding	1	0	0	1	1	0	1996 to 2026-06-30	
Cold Wave	7	0	0	4	0	0	1996 to 2026-06-30	Includes 1 Frost/Freeze record.
Drought	2	0	0	0	0	0	1996 to 2026-06-30	
Earthquake	0	0	0	0	1	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.

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
Hail	0	0	0	0	0	0	1955 to 2026-06-30	No recorded events, 1955 to 2026-06-30, NOAA NCEI Storm Events
Heat Wave	18	0	2	14	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	1	0	0	1996 to 2026-06-30	
Inland Flooding	13	0	0	1	28	1	1996 to 2026-06-30	
Landslide	2	0	0	0	17	1	1996 to 2026-06-30	
Lightning	3	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	101	0	1	9	11	1	1955 to 2026-06-30	Includes 82 High Wind and 19 Strong Wind records.
Tornado	3	0	0	0	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	2	0	0	0	0	0	1996 to 2026-06-30	
Winter Weather	101	0	1	34	12	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
2023-05-12	Heat		\$0 property; \$0 crops, reported for the zone (2023 dollars)	0, 0	NWS zone WAZ504 (SOUTHWEST INTERIOR), zone-level	within last 5 years	B1-c worst recorded: Excessive Heat, Heat
2021-12-11	Avalanche		damage not reported	1, 0	NWS zone WAZ569 (CASCADES OF PIERCE AND LEWIS COUNTIES), zone-level	within last 5 years	deaths or injuries recorded
2017-08-22	Wildfire		\$4,000,000 property; \$0 crops, reported for the zone (2017 dollars)	0, 0	NWS zone WAZ504 (SOUTHWEST INTERIOR), zone-level		B1-c worst recorded: Wildfire
2016-03-26	Cold/Wind Chill		\$0 property; \$0 crops, reported for the zone (2016 dollars)	1, 2	NWS zone WAZ569 (CASCADES OF PIERCE AND LEWIS COUNTIES), zone-level		deaths or injuries recorded
2014-02-16	High Wind	79 kt (91 mph) measured gust	\$0 property; \$0 crops, reported for the zone (2014 dollars)	0, 0	Storm Events area SOUTHWEST INTERIOR (legacy zone code WAZ020), zone-level		B1-c worst recorded: High Wind and Strong Wind
2012-01-19	Ice Storm		\$1,100,000 property; \$0 crops, reported for the zone (2012 dollars)	0, 0	NWS zone WAZ504 (SOUTHWEST INTERIOR), zone-level		B1-c worst recorded: Ice Storm
2008-12-20	Winter Storm		\$691,000 property; \$0 crops, reported for the zone (2008 dollars)	0, 0	Storm Events area SOUTHWEST INTERIOR (legacy zone code WAZ020), zone-level		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2007-12-03	Debris Flow		\$750,000 property; \$0 crops, reported for the zone (2007 dollars)	0, 0	NWS zone WAZ504 (SOUTHWEST INTERIOR), zone-level		B1-c worst recorded: Debris Flow
2007-12-02	Flood		\$50,000,000 property; \$0 crops (2007 dollars)	1, 0	DOTY to CENTRALIA		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2006-11-04	Flood		\$8,800,000 property; \$0 crops (2006 dollars)	2, 0	PACKWOOD to RANDLE		deaths or injuries recorded
2002-08-05	Lightning		\$2,000 property; crops not reported (2002 dollars)	0, 0	TOLEDO		B1-c worst recorded: Lightning
1965-11-10	Tornado	F2, 1.5 mi path length (whole path, pre-1996), 23 yd wide	\$25,000 property; crops not recorded (1965 dollars)	0, 0	location not recorded		B1-c worst recorded: Tornado

The full list is in the Excel file, sheet "B1-d Storm Events history" (257 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	0.7	events per year	about 0.7 per year	Likely	FEMA annualized frequency (modeled)	21	1994 to 2023 (30 years)	see B1-f	
Coastal Flooding		events per year at a location (modeled)		Possible		not shown	modeled	see B1-f	Not Applicable in NRI for this county; the descriptor comes from Storm Events, not NRI: Storm Events records in 1 of 30 years, 1996 to 2025.
Cold Wave	0.00012	event-days per year	about 0.00012 days per year	Likely (from Storm Events: 5 of 30 years)	event-days in 5 of 30 years, 1996 to 2025 (16.7%)	0.00225	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	2.62	event-days per year	about 2.62 days per year	Possible (from Storm Events: 2 of 30 years)	event-days in 2 of 30 years, 1996 to 2025 (6.67%)	147	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	
Earthquake	0.0194	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 1.94%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.0296	events per year	about 1 in 34 years	Possible	FEMA annualized frequency (modeled)	1.1 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	3.24	event-days per year	about 3.24 days per year	Likely (from Storm Events: 6 of 30 years)	event-days in 6 of 30 years, 1996 to 2025 (20%)	46.4	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	0.511	event-days per year	about 0.511 days per year	Likely (from Storm Events: 3 of 30 years)	event-days in 3 of 30 years, 1996 to 2025 (10%)	35	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	0.286	event-days per year	about 0.286 days per year	Likely (from Storm Events: 9 of 30 years)	event-days in 9 of 30 years, 1996 to 2025 (30%)	8	1996 to 2023 (28 years)	see B1-f	
Landslide	5.75	events per year (modeled)	about 5.75 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	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>								
Lightning	6.58	days per year with a strike	about 6.58 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.0233	events per year	about 1 in 43 years	Possible	FEMA annualized frequency (modeled)	1	1986 to 2023 (38 years)	countywide	
Tornado	0.142	events per year	about 1 in 7 years	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Volcanic Activity	0.0125	annual probability	about 1 in 80 years	Possible	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Wildfire	0.00014	annual probability at a location	chance a given location in the county burns in a year: 0.014%	Possible (from Storm Events: 2 of 30 years)	Storm Events records in 2 of 30 years, 1996 to 2025 (6.67%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI.
Winter Weather	29.3	event-days per year	about 29.3 days per year	Likely (from Storm Events: 20 of 30 years)	event-days in 20 of 30 years, 1996 to 2025 (66.7%)	558	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 tsunامي 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	0	30	0
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	2	30	0.0667
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	9 of 21	81.2	83.6	87.0	Relatively Moderate 9, Not Applicable 12
Coastal Flooding	0 of 21				Not Applicable 21
Cold Wave	6 of 21	15.4	15.6	15.9	Very Low 6, No Rating 15
Drought	4 of 21	67.3	68.4	71.1	Very Low 4, No Rating 17
Earthquake	21 of 21	86.5	92.4	99.4	Very High 3, Relatively High 15, Relatively Moderate 3
Hail	21 of 21	3.1	16.7	32.4	Very Low 21
Heat Wave	21 of 21	31.1	65.5	83.4	Relatively Moderate 16, Relatively Low 5
Hurricane	0 of 21				Not Applicable 21
Ice Storm	21 of 21	7.5	29.0	44.2	Relatively Low 3, Very Low 18
Inland Flooding	21 of 21	35.2	90.6	99.7	Very High 7, Relatively High 10, Relatively Moderate 2, Relatively Low 2
Landslide	21 of 21	11.6	89.9	99.6	Relatively High 1, Relatively Moderate 6, Relatively Low 5, Very Low 9

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Lightning	21 of 21	12.5	29.9	48.4	Relatively Low 17, Very Low 4
Strong Wind	21 of 21	16.4	35.6	51.6	Relatively Low 19, Very Low 2
Tornado	21 of 21	6.7	21.9	29.9	Relatively Low 1, Very Low 20
Volcanic Activity	21 of 21	87.0	94.3	99.5	Relatively High 1, Relatively Moderate 2, Relatively Low 18
Wildfire	21 of 21	24.7	75.2	96.1	Relatively Moderate 3, Relatively Low 11, Very Low 7
Winter Weather	21 of 21	22.3	37.5	81.4	Relatively High 2, Relatively Moderate 2, Relatively Low 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.

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
Lewis County	County	Approved, expires 2030-05-29	FMA RL 15, SRL 29; any 72	\$45,230,407.27	0 total; 0 since its plan	Includes \$529,402.44 for declarations not counted as hazard incidents (DR-4481-WA).
Centralia city	City	Approved, expires 2030-05-29	FMA RL 10, SRL 13; any 48	\$2,063,663.89	1 total; 0 since its plan	
Chehalis city	City	Approved, expires 2030-05-29	FMA RL 17, SRL 25; any 61	\$1,316,545.08	1 total; 0 since its plan	
Morton city	City	Plan 110051 approved 2025-05-30, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$886,013.99	0 total; no approved plan	
Mossyrock city	City	Plan 110051 approved 2025-05-30, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$47,850.95	0 total; no approved plan	
Napavine city	City	Approved, expires 2030-05-29	FMA RL 0, SRL 0; any 0	\$22,661.66	1 total; 0 since its plan	
Vader city	City	Approved, expires 2030-05-29	FMA RL 0, SRL 0; any 0	\$39,936.53	0 total; 0 since its plan	
Winlock city	City	Approved, expires 2030-05-29	FMA RL 0, SRL 0; any 0	\$452,037.04	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 2025-05-30 <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	\$7,826,799	n/a	10	\$575	n/a	\$1,300,123	0.00735%				
Coastal Flooding											Not Applicable in NRI for this county
Cold Wave	\$94,158,526	\$1,434,764	296	under \$1	under \$1	\$148	under 0.0001%				
Drought	n/a	\$9,247,572	n/a	n/a	\$46	n/a	0.0005% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$34,154,918,404	n/a	82,149	\$20,484,449	n/a	\$9,953,027	0.06%				
Hail	\$18,782,527,540	\$175,542,427	82,036	\$6,530	\$3,425	\$2,389	under 0.0001%				
Heat Wave	\$18,782,527,540	\$175,542,427	82,036	\$287	\$20,146	\$1,151,610	under 0.0001%				
Hurricane											Not Applicable in NRI for this county
Ice Storm	\$18,742,009,329	n/a	81,770	\$17,355	n/a	\$20,016	under 0.0001%				
Inland Flooding	\$18,772,231,829	\$38,209,517	6,437	\$36,432,899	\$19,367	\$312,420	n/a (see note)			\$462,992.27	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	\$703,242,101	n/a	3,505	\$172,295	n/a	\$22,732	0.0245%			\$462,992.27	
Lightning	\$18,782,527,540	n/a	82,036	\$4,894	n/a	\$97,857	under 0.0001%				
Strong Wind	\$18,782,527,540	\$175,542,427	82,036	\$143,161	\$22	\$25,081	0.000762%			\$462,992.27	

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 2025-05-30 <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
Tornado	\$18,782,527,540	\$175,542,427	82,036	\$68,137	\$648	\$93,353	0.000363%				
Volcanic Activity	\$18,782,527,540	n/a	82,036	\$136,653	n/a	\$149,897	0.000728%				
Wildfire	\$6,035,175,537	\$93,869,472	30,435	\$254,586	\$36	\$7,963	0.00422%				
Winter Weather	\$18,782,527,540	\$175,542,427	82,036	\$12,365	\$2,110	\$25,134	under 0.0001%				

Totals since 2025-05-30 (Storm Events through 2026-06-30): 0 county-coded records, 0 with a damage value recorded (including \$0), \$0; 0 zone-level records, 0 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance: \$462,992.27 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	82,036
Building value (total, not at risk)	\$18,782,527,540
Agriculture value (total, not at risk)	\$175,542,427
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$57,779,986
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)	\$13,161,751
Social vulnerability rating	Relatively Moderate
Community resilience rating	Relatively Moderate
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)	42	Severe repetitive loss, FMA definition (44 CFR 77.2)	67
Repetitive loss, NFIP insurance definition	135	Severe repetitive loss, NFIP insurance definition	42

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	42	67	135	42	181	36	53
of which: Lewis County (unincorporated area)	15	29	52	16	72	10	21
of which: Centralia city	10	13	38	9	48	8	12
of which: Chehalis city	17	25	45	17	61	18	20
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>
Lewis County	530102	15	29	52	16	72	10	21
Centralia city	530103	10	13	38	9	48	8	12
Chehalis city	530104	17	25	45	17	61	18	20
Morton city	530105	0	0	0	0	0	0	0
Mossyrock city	530253	0	0	0	0	0	0	0
Napavine city	530254	0	0	0	0	0	0	0
Vader city	530266	0	0	0	0	0	0	0
Winlock city	530306	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	35	40	84	20	126	35	40
2 to 4 unit residential	1	1	4	0	5	1	4
other residential	2	10	14	10	16	0	4
non-residential	4	16	33	12	34	0	5
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 31 properties are FMA repetitive loss but not NFIP repetitive loss, and 124 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

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Cite this: Hazard Plain (2026). Lewis County, WA: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 53041). Automated baseline. <https://hazardplain.org/wa/53041/> 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.