

Multnomah County, OR

Risk-assessment baseline packet

Unit **County area 41051** Release **2026-10** As of **2026-09-28** Storm Events data through **2026-06-30**

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A starting point for the plan's risk assessment (FEMA Local Mitigation Plan Review Tool, Element B). It does not replace local data or FEMA review. Section headings say which FEMA review item each table supports; whether an item is satisfied is decided by the plan and its reviewers.

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Plan clock

Status	Approved, expires 2028-10-31	Plan	Multnomah County Multi-jurisdictional Natural Hazards Mitigation Plan (FEMA plan 108723)
Approved	2023-11-01	Expires	2028-10-31
As of	2026-09-28	Days	764 days to expiry

What changed since your last plan (approved 2023-11-01)

New federal declarations	DR-4768-OR (1 declaration row; 1 counted incident)	Storm Events records since approval	40 (data through 2026-06-30)
Repetitive loss now	FMA RL 0, SRL 3 (44 CFR 77.2); any definition: 18	Repeat-flood change	First release: no prior release to compare.

SOURCES: FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API); FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API); NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>; FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

Plan status for every jurisdiction listed in this county: 15 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" after these cover pages.

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

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Plan clock

Plan status for every jurisdiction listed in this county

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Multnomah County	County	Approved, expires 2028-10-31	Multnomah County Multi-jurisdictional Natural Hazards Mitigation Plan (FEMA plan 108723)	2023-11-01	2028-10-31	764		
Fairview city	City	Plan 108723 approved 2023-11-01, pending adoption here; not yet eligible	Multnomah County Multi-jurisdictional Natural Hazards Mitigation Plan (FEMA plan 108723), pending adoption here	2023-11-01 by FEMA; not yet adopted here	2028-10-31 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Gresham city	City	Plan 108723 approved 2023-11-01, pending adoption here; not yet eligible	Multnomah County Multi-jurisdictional Natural Hazards Mitigation Plan (FEMA plan 108723), pending adoption here	2023-11-01 by FEMA; not yet adopted here	2028-10-31 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Portland city	City	Approved, expires 2027-12-11	City of Portland 2021 Natural Hazard Mitigation Plan (FEMA plan 108245)	2022-12-12	2027-12-11	439		
Troutdale city	City	Plan 108723 approved 2023-11-01, pending adoption here; not yet eligible	Multnomah County Multi-jurisdictional Natural Hazards Mitigation Plan (FEMA plan 108723), pending adoption here	2023-11-01 by FEMA; not yet adopted here	2028-10-31 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Wood Village city	City	Approved, expires 2028-10-31	Multnomah County Multi-jurisdictional Natural Hazards Mitigation Plan (FEMA plan 108723)	2023-11-01	2028-10-31	764		member approved 2023-11-06
David Douglas School District 40	School/School District	Approved, expires 2028-10-31	Multnomah County Multi-jurisdictional Natural Hazards Mitigation Plan (FEMA plan 108723)	2023-11-01	2028-10-31	764		member approved 2025-06-24
Columbia Corridor Drainage Districts Joint Contracting Authority	Flood Control District	Plan 108723 approved 2023-11-01, pending adoption here; not yet eligible	Multnomah County Multi-jurisdictional Natural Hazards Mitigation Plan (FEMA plan 108723), pending adoption here	2023-11-01 by FEMA; not yet adopted here	2028-10-31 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Multnomah County Drainage District	Flood Control District	Approved, expires 2028-10-31	Multnomah County Multi-jurisdictional Natural Hazards Mitigation Plan (FEMA plan 108723)	2023-11-01	2028-10-31	764		member approved 2023-10-10
PEN 1 Drainage District	Flood Control District	Approved, expires 2028-10-31	Multnomah County Multi-jurisdictional Natural Hazards Mitigation Plan (FEMA plan 108723)	2023-11-01	2028-10-31	764		

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
PEN 2 Drainage District	Flood Control District	Approved, expires 2028-10-31	Multnomah County Multi-jurisdictional Natural Hazards Mitigation Plan (FEMA plan 108723)	2023-11-01	2028-10-31	764		
Port of Portland	Highway/Port/Rail	Plan 108723 approved 2023-11-01, pending adoption here; not yet eligible	Multnomah County Multi-jurisdictional Natural Hazards Mitigation Plan (FEMA plan 108723), pending adoption here	2023-11-01 by FEMA; not yet adopted here	2028-10-31 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Sandy Drainage Investment Company	Flood Control District	Approved, expires 2028-10-31	Multnomah County Multi-jurisdictional Natural Hazards Mitigation Plan (FEMA plan 108723)	2023-11-01	2028-10-31	764		member approved 2023-11-06
TriMet	Transit/Airport	Approved, expires 2031-07-19	TriMet Hazard Mitigation Plan (FEMA plan 111627)	2026-07-20	2031-07-19	1,755		
Urban Flood Safety and Water Quality District	Flood Control District	Plan 108723 approved 2023-11-01, pending adoption here; not yet eligible	Multnomah County Multi-jurisdictional Natural Hazards Mitigation Plan (FEMA plan 108723), pending adoption here	2023-11-01 by FEMA; not yet adopted here	2028-10-31 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

SOURCE
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Supports B1-a: hazards

Hazards NRI does not cover: check locally

- 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)

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>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
1	Earthquake	Relatively High	Very High	\$184,656,099		\$141,527,687	\$326,183,786			Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
2	Inland Flooding	Relatively High	Relatively High	\$91,109,032	\$4,870	\$56,952	\$91,170,854	31		
3	Heat Wave	Relatively High	Relatively High	\$2,602	\$20,406	\$9,962,062	\$9,985,070	28		

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>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records since 1996 <i>count</i>	Evidence for an omission <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
4	Cold Wave	Relatively High	Relatively High	\$22,420	\$9,059	\$8,508,732	\$8,540,210	10		Includes 3 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
5	Tornado	Relatively Low	Relatively Low	\$158,557	\$197	\$1,074,844	\$1,233,598	3		
6	Ice Storm	Relatively High	Relatively High	\$938,637		\$270,436	\$1,209,073	16		
7	Strong Wind	Relatively Moderate	Relatively Moderate	\$880,279	\$1	\$44,621	\$924,901	108		Includes 59 High Wind records and 39 Strong Wind records, event types the NRI definition of this hazard leaves out.
8	Winter Weather	Relatively High	Relatively High	\$21,429	\$1,243	\$285,905	\$308,577	322		
9	Landslide	Relatively Moderate	Relatively Moderate	\$9,520		\$286,135	\$295,655	15		
10	Lightning	Relatively Low	Relatively Low	\$16,854		\$202,594	\$219,448	5		
11	Volcanic Activity	Relatively Moderate	Relatively Moderate	\$95,607		\$63,417	\$159,024	0		No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.
12	Wildfire	Relatively Low	Relatively Low	\$147,462	\$2	\$7,219	\$154,683	24		
13	Coastal Flooding	Relatively Low	Relatively Low	\$38,948		\$3,880	\$42,828	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
14	Hail	Very Low	Very Low	\$526	\$1,309	\$1,069	\$2,904	6		
15	Avalanche	Very Low	Very Low	\$2		\$29	\$31	1		
16	Drought	Very Low	Very Low		\$4		\$4	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
	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-3228-OR 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).
	Tsunami	Not Applicable	Not Applicable					0	NRI rates tsunami Not Applicable for this county, and no federal declaration for this county names it.	No recorded events in Storm Events since 1996 (data through 2026-06-30). Storm Events coverage of this hazard is limited; absence is not evidence of low risk.

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

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Check your state hazard mitigation plan's hazard list for this county; explain any hazard you drop.

Supports B1-b: location

Where each hazard occurs

Hazard	Location	Census tracts rated <i>rated of all tracts</i>
Avalanche	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	6 of 197
Coastal 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.	26 of 197
Cold Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	197 of 197
Drought	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	1 of 197
Earthquake	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	197 of 197
Hail	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	197 of 197
Heat Wave	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	197 of 197
Hurricane	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 197
Ice Storm	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	197 of 197
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.	197 of 197
Landslide	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	187 of 197
Lightning	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	197 of 197
Strong Wind	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	197 of 197
Tornado	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	197 of 197
Tsunami	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	0 of 197
Volcanic Activity	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	197 of 197
Wildfire	Census tract rating counts from the National Risk Index tract table (see B1-f). Tract maps and place names are not in this packet.	106 of 197
Winter Weather	Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.	197 of 197

SOURCE
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)

Supports B1-c: extent

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

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Avalanche	none (count and damage)	1, 2008 to 2008 (1 zone-level)		No damage reported in 1 records.		Zone-level records: applies countywide; national data do not locate these events within the county.	Physical measure: in event narratives only; local data required.
Coastal Flood, Storm Surge/ Tide	none in data (FIRM for depth)	0					Flood depth: see the FEMA Flood Insurance Rate Map.
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	7, 1998 to 2025 (7 zone-level)	1 day to 11 days (median 2 days); 7 with a recorded value	11 consecutive days, 2017-01-01 to 2017-01-11, 4 direct deaths, zone-level		Zone-level records: applies countywide; national data do not locate these events within the county.	Wind chill: in event narratives only; local data required.
Frost/Freeze (outside NRI Cold Wave definition)	crop damage	3, 2014 to 2024 (3 zone-level)		No crop damage reported in 3 records.		Zone-level records: applies countywide; national data do not locate these events within the county.	Temperature: in event narratives only; local data required.
Drought	US Drought Monitor D-scale	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					No Storm Events record; local data required (e.g., USGS).
Hail	hail size (inches)	7, 1991 to 2008 (1 zone-level)	0.5 in to 1.5 in (median 0.75 in); 6 with a recorded value	1.5 in hail, 1991-07-31	Hail, 2007-09-28, \$5,000 property; \$0 crops (2007 dollars)	Event records naming member places: Portland city (2 records). Zone-level records (1) apply countywide.	
Excessive Heat, Heat	heat index (narratives)	28, 1998 to 2026 (28 zone-level)	1 day to 9 days (median 3 days); 25 with a recorded value	9 consecutive days, 2024-07-05 to 2024-07-13, 10 direct deaths, zone-level	Excessive Heat, 2021-06-26, \$50,000 property; \$50,000 crops, reported for the zone (2021 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	Heat index: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Hurricane, Tropical Storm, Tropical Depression	Saffir-Simpson	0					Storm Events files every zone of a storm's episode under the storm's event type and category, so a Hurricane (Typhoon) record, especially an inland or remnant one, does not by itself mean hurricane-force winds here; read the damage and wind columns.
Ice Storm	Sperry-Piltz (local data)	16, 1996 to 2024 (16 zone- level)		Ice Storm, 2021-02-14, \$5,000,000 property; \$0 crops, reported for the zone (2021 dollars); NWS zone ORZ006 (GREATER PORTLAND METRO AREA), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Ice thickness: in event narratives only; local data required.
Flash Flood, Flood, Lakeshore Flood	damage and flood days (FIRM for depth)	31, 1996 to 2022 (18 zone- level)		Flood, 1996-11-18, \$3,200,000 property; crops not reported, reported for the zone (1996 dollars); NWS zone ORZ006 (GREATER PORTLAND METRO AREA), zone-level: may include parts of neighboring counties		Event records naming member places: Gresham city (2 records), Portland city (1 record). Zone-level records (18) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage can be \$0 or blank even for a major flood, so the worst record here may not be the worst flood; compare FEMA Public Assistance by declaration in B1-d.
Debris Flow	none (count and damage)	15, 1996 to 2022 (10 zone- level)		Debris Flow, 2009-01-02, \$500,000 property; \$0 crops, reported for the zone (2009 dollars); NWS zone ORZ010 (NORTH OREGON CASCADES FOOTHILLS), zone-level: may include parts of neighboring counties		No event record names a member place. Zone-level records (10) apply countywide.	Physical measure: in event narratives only; local data required.
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	5, 1999 to 2008		Lightning, 2005-06-19, \$50,000 property; crops not reported (2005 dollars)		Event records naming member places: Gresham city (2 records), Fairview city (1 record), Portland city (1 record).	Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
High Wind and Strong Wind (outside NRI Strong Wind definition)	wind speed (kt and mph)	98, 1996 to 2025 (98 zone-level)	25 kt (29 mph) to 104 kt (120 mph) (median 50 kt (58 mph)); 97 with a recorded value	104 kt (120 mph), measurement type not recorded, High Wind, 1999-02-05; Storm Events area SE MULTNOMAH/C & S HOOD RIVER/E CLAKAMAS/E MARION/E LINN/E LANE (legacy zone code ORZ011), zone-level: may include parts of neighboring counties	High Wind, 2020-09-07, \$2,000,000,000 property; \$0 crops, reported for the zone (2020 dollars)	Zone-level records: applies countywide; national data do not locate these events within the county.	
Thunderstorm Wind	wind speed (kt and mph)	16, 1957 to 2025	35 kt (40 mph) to 84 kt (97 mph) (median 52 kt (60 mph)); 13 with a recorded value	84 kt (97 mph), measurement type not recorded, Thunderstorm Wind, 1995-03-09	Thunderstorm Wind, 2014-05-18, \$11,000 property; \$0 crops (2014 dollars)	Event records naming member places: Portland city (5 records).	
Tornado	Enhanced Fujita (F before Feb 2007)	6, 1972 to 2019	F/EF0 to F/EF3 (median F/EF0); 6 with a recorded value	F3 tornado, 1972-04-05, 50 yd wide, \$250,000 property; crops not recorded (1972 dollars)		Event records naming member places: Portland city (1 record).	From 1996 on, tornado records are per-county segments and length is the path length within this county (NWS Instruction 10-1605); records before 1996 may give the whole path length, including the path outside this county, and before 1996 a tornado is listed once, under the county where it began, with the whole path's rating; counties farther along the path may not list it. Length is not used to rank tornadoes.
Tsunami	none (count and damage)	0					Physical measure: in event narratives only; local data required.
Volcanic Ash, Volcanic Ashfall	Volcanic Explosivity Index (local data)	0					Physical measure: in event narratives only; local data required.

Hazard	Scale	Records <i>count, years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to members	Note
Wildfire	acres burned (local data)	24, 2008 to 2022 (24 zone- level)		Wildfire, 2022-09-09, \$500,000 property; \$0 crops, reported for the zone (2022 dollars); NWS zone ORZ006 (GREATER PORTLAND METRO AREA), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Acres burned: in event narratives only; local data required.
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall local)	322, 1996 to 2026 (322 zone-level)		Winter Storm, 2008-12-20, \$9,000,000 property; \$11,600,000 crops, reported for the zone (2008 dollars); NWS zone ORZ006 (GREATER PORTLAND METRO AREA), zone-level: may include parts of neighboring counties		Zone-level records: applies countywide; national data do not locate these events within the county.	Snow depth: in event narratives only; local data required.

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records are placed with NWS zone-county files, which exist from 2020 on; an earlier record is placed by its zone number in the nearest later file only when its zone name matches that file, records from zones NWS renumbered are placed by name or left out, and a record whose zone is in no known file is left out of every count, so counts before 2020 can be low. Some current zones are also missing from the NWS files, so recent counts can be low too.

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

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

Supports B1-d: previous occurrences

Declaration rows12Counted incidents9

Federal disaster declarations for this county

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2024-04-13	2024-01-10	DR-4768-OR	Major disaster	SEVERE WINTER STORMS, STRAIGHT-LINE WINDS, LANDSLIDES, AND MUDSLIDES	Landslide; Strong Wind; Winter Weather	\$4,978,746.88	new since last plan; within last 5 years	
2020-09-15	2020-09-07	DR-4562-OR	Major disaster	WILDFIRES AND STRAIGHT-LINE WINDS	Wildfire	none found		
2020-03-28	2020-01-20	DR-4499-OR	Major disaster	COVID-19 PANDEMIC	Non-natural, not counted	\$259,251,516.72		
2020-03-13	2020-01-20	EM-3429-OR	Emergency	COVID-19	Non-natural, not counted	none found		same incident as DR-4499
2017-09-03	2017-09-02	FM-5203-OR	Fire management	EAGLE CREEK FIRE	Wildfire	none found		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2016-02-17	2015-12-06	DR-4258-OR	Major disaster	SEVERE WINTER STORMS, STRAIGHT-LINE WINDS, FLOODING, LANDSLIDES, AND MUDSLIDES	Inland Flooding; Landslide; Strong Wind; Winter Weather	\$4,647,643.65		
2009-03-02	2008-12-13	DR-1824-OR	Major disaster	SEVERE WINTER STORM, RECORD AND NEAR RECORD SNOW	Winter Weather	\$4,118,319.08		
2005-09-07	2005-08-29	EM-3228-OR	Emergency	HURRICANE KATRINA EVACUATION	Hurricane: evacuation support, not a local hazard event; not counted	\$837,106.84		
2004-02-19	2003-12-26	DR-1510-OR	Major disaster	SEVERE WINTER STORMS	Winter Weather	\$4,031,806.39		
1996-02-09	1996-02-04	DR-1099-OR	Major disaster	HIGH WINDS, SEVERE STORMS AND FLOODING	Inland Flooding (primary); also designated: Strong Wind	none found		
1972-01-21	1972-01-21	DR-319-OR	Major disaster	SEVERE STORMS & FLOODING	Inland Flooding	none found		
1964-12-24	1964-12-24	DR-184-OR	Major disaster	HEAVY RAINS & FLOODING	Inland Flooding	none found		

School districts and special districts in this county: \$3,151,832.68 (included in the county total above). Public Assistance matched by applicant name to the school districts and special districts FEMA lists as plan members in this county. They are not shown as member blocks, 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); do not add this line to the county total.

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.

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

SOURCES

FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Statewide declarations

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	Flags	Notes
1963-02-25	1963-02-25	DR-144-OR	Major disaster	FLOODS	Inland Flooding		
1962-10-16	1962-10-16	DR-136-OR	Major disaster	SEVERE STORMS	Hazard not mapped (severe storm title names no single hazard); not counted		
1957-03-01	1957-03-01	DR-69-OR	Major disaster	FLOOD	Inland Flooding		
1956-07-20	1956-07-20	DR-60-OR	Major disaster	STORM & FLOOD	Inland Flooding		
1955-12-29	1955-12-29	DR-49-OR	Major disaster	FLOOD	Inland Flooding		

FEMA recorded these with designated area Statewide and no county. Listed on every county page in the state; not counted with county rows.

27 Fire Management declarations (1973-08-17 to 2001-08-17) FEMA filed as Statewide with no county; each names one local fire. Listed on the state page.

SOURCE

FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

Public Assistance filed under this county for declarations that do not list it: 1 row, \$7,575.45

FEMA number	Declared	Title	Applicant	PA obligated <i>federal share obligated, nominal dollars</i>
DR-1632-OR	2006-03-20	SEVERE STORMS, FLOODING, LANDSLIDES, AND MUDSLIDES	North Clackamas County Water Commission	\$7,575.45

FEMA's Public Assistance summaries file these applicants under this county, but FEMA's declaration rows for these disasters do not designate it (an electric cooperative or district serving several counties, for example). Not in any declaration row above and not counted.

SOURCES

FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)

FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)

Public Assistance not placed in a county in this state: 1 row, \$479,867.27

Disaster number	Declared	Applicant	County field in FEMA data	PA obligated <i>federal share obligated, nominal dollars</i>	Why not placed
4519	2020-04-03	City of Walla Walla	Walla Walla County	\$479,867.27	county field is a county of another state and the applicant name does not identify a place in the declaring state

FEMA's Public Assistance summaries file these applicants under a county field that is not a county of this state (an Alaska school area, the former Valdez-Cordova Census Area, or another state's county), and the applicant name does not identify one place here. They are listed for the whole state and are not in any county total. Check whether any of them worked in your county.

SOURCE

FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)

Previous occurrences by hazard, with explicit no-event rows

Hazard	Storm Events records <i>full period</i>	Since plan approval records	During plan review records	Last 5 years records	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Avalanche	1	0	0	0	0	0	1996 to 2026-06-30	
Coastal Flooding	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	10	3	1	4	0	0	1996 to 2026-06-30	Includes 3 Frost/Freeze records, event types the NRI definition of this hazard leaves out.
Drought	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Earthquake	0	0	0	0	0	0		No Storm Events record; local data required (e.g., USGS).
Hail	7	0	0	0	0	0	1955 to 2026-06-30	
Heat Wave	28	5	1	9	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	16	3	0	3	0	0	1996 to 2026-06-30	
Inland Flooding	31	0	0	2	4	0	1996 to 2026-06-30	
Landslide	15	0	0	1	2	1	1996 to 2026-06-30	
Lightning	5	0	0	0	0	0	1996 to 2026-06-30	

Hazard	Storm Events records <i>full period</i>	Since plan approval <i>records</i>	During plan review <i>records</i>	Last 5 years <i>records</i>	Declared incidents <i>distinct incidents</i>	Declared since approval <i>distinct incidents</i>	Period	Statement
Strong Wind	114	7	7	20	3	1	1955 to 2026-06-30	Includes 59 High Wind records and 39 Strong Wind records, event types the NRI definition of this hazard leaves out.
Tornado	6	0	0	0	0	0	1950 to 2026-06-30	
Tsunami	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Volcanic Activity	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Wildfire	24	0	0	1	2	0	1996 to 2026-06-30	
Winter Weather	322	22	8	40	4	1	1996 to 2026-06-30	

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>

Notable Storm Events records

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2024-01-12	Winter Storm		\$10,250,000 property; \$0 crops, reported for the zone (2024 dollars)	9, 12	NWS zone ORZ006 (GREATER PORTLAND METRO AREA), zone-level: may include parts of neighboring counties	new since last plan; within last 5 years	deaths or injuries recorded
2022-07-25	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2022 dollars)	9, 0	NWS zone ORZ006 (GREATER PORTLAND METRO AREA), zone-level: may include parts of neighboring counties	within last 5 years	deaths or injuries recorded
2021-06-26	Excessive Heat		\$50,000 property; \$50,000 crops, reported for the zone (2021 dollars)	93, 0	NWS zone ORZ006 (GREATER PORTLAND METRO AREA), zone-level: may include parts of neighboring counties		deaths or injuries recorded
2021-02-14	Ice Storm		\$5,000,000 property; \$0 crops, reported for the zone (2021 dollars)	0, 0	NWS zone ORZ006 (GREATER PORTLAND METRO AREA), zone-level: may include parts of neighboring counties		B1-c worst recorded: Ice Storm
2017-01-01	Cold/Wind Chill		\$0 property; \$0 crops, reported for the zone (2017 dollars)	4, 0	NWS zone ORZ006 (GREATER PORTLAND METRO AREA), zone-level: may include parts of neighboring counties		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2009-01-02	Debris Flow		\$500,000 property; \$0 crops, reported for the zone (2009 dollars)	0, 0	NWS zone ORZ010 (NORTH OREGON CASCADES FOOTHILLS), zone-level: may include parts of neighboring counties		B1-c worst recorded: Debris Flow
2008-12-20	Winter Storm		\$9,000,000 property; \$11,600,000 crops, reported for the zone (2008 dollars)	0, 0	NWS zone ORZ006 (GREATER PORTLAND METRO AREA), zone-level: may include parts of neighboring counties		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Direct deaths, injuries <i>indirect not counted</i>	Location	Flags	Why listed
2005-06-19	Lightning		\$50,000 property; crops not reported (2005 dollars)	0, 0	GRESHAM		B1-c worst recorded: Lightning
1999-02-05	High Wind	104 kt (120 mph), measurement type not recorded	\$10,000 property; crops not reported, reported for the zone (1999 dollars)	0, 0	Storm Events area SE MULTNOMAH/C & S HOOD RIVER/ E CLAKAMAS/E MARION/E LINN/E LANE (legacy zone code ORZ011), zone-level: may include parts of neighboring counties		B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)
1996-11-18	Flood		\$3,200,000 property; crops not reported, reported for the zone (1996 dollars)	0, 0	NWS zone ORZ006 (GREATER PORTLAND METRO AREA), zone-level: may include parts of neighboring counties		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
1995-03-09	Thunderstorm Wind	84 kt (97 mph), measurement type not recorded	damage not recorded (pre-1996 record)	0, 0	Mt. Tabor		B1-c worst recorded: Thunderstorm Wind
1972-04-05	Tornado	F3, 50 yd wide	\$250,000 property; crops not recorded (1972 dollars)	0, 0	location not recorded		B1-c worst recorded: Tornado

The full list is in the XLSX file, sheet "B1-d Storm Events history" (579 rows).

Storm Events records are more complete after 1996; before 1996 only Tornado (from 1950), Hail and Thunderstorm Wind (from 1955) exist. Zone-level records are placed with NWS zone-county files, which exist from 2020 on; an earlier record is placed by its zone number in the nearest later file only when its zone name matches that file, records from zones NWS renumbered are placed by name or left out, and a record whose zone is in no known file is left out of every count, so counts before 2020 can be low. Some current zones are also missing from the NWS files, so recent counts can be low too.

SOURCES

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

State-declared emergencies are not in federal data. Add them from your state emergency management agency.

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

Supports B1-e: probability

Probability: FEMA annualized frequency and descriptor per hazard

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Avalanche	0.01	events per year	about 1 in 100 years	Possible	FEMA annualized frequency (modeled)	0	1994 to 2023 (30 years)	see B1-f	0.01 is NRI's minimum avalanche frequency for a county in an avalanche susceptibility zone; NRI records no avalanche here, so the descriptor reflects the floor, not local events.

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
Coastal Flooding	0.287	events per year at a location (modeled)	about 0.29 per year at a given location in the county		Storm Events records in 0 of 30 years, 1996 to 2025 (0%)	not shown	modeled	see B1-f	No Storm Events record of this hazard, 1996 to 2025; descriptor not assigned (the NRI value is the chance at a location in the county, not how often the hazard affects the county)
Cold Wave	0.324	event-days per year	about 0.324 days per year	Likely	event-days in 6 of 30 years, 1996 to 2025 (20%)	6.07	2005-11-12 to 2024-11-12 (19 years)	countywide	Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves.
Drought	1.87	event-days per year	about 1.87 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	112	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No recorded event-days, 1996 to 2025; descriptor not assigned
Earthquake	0.0213	annual probability at a location	chance a given location in the county has at least minor- damage shaking in a year: 2.13%			not shown	modeled	see B1-f	Descriptor not assigned: the NRI value is the chance at a location in the county, not how often the hazard affects the county, and Storm Events does not record earthquakes.
Hail	0.0779	events per year	about 1 in 13 years	Possible	FEMA annualized frequency (modeled)	2.9 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	6.34	event-days per year	about 6.34 days per year	Likely	event-days in 12 of 30 years, 1996 to 2025 (40%)	97.7	2005-11-12 to 2024-11-12 (19 years)	countywide	NRI gives about 6.34 heat wave event-days a year here (its annualized frequency over 19 years; not its event count divided by the years), but Storm Events has a record in only 12 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
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	1.61	event-days per year	about 1.61 days per year	Likely	event-days in 9 of 30 years, 1996 to 2025 (30%)	109	1946-12-31 to 2014-02-12 (67 years)	countywide	NRI gives about 1.61 ice storm event-days a year here (its annualized frequency over 67 years; not its event count divided by the years), but Storm Events has a record in only 9 of 30 years. NRI counts from a different source that records far more events than Storm Events, so this descriptor reads much lower than NRI's frequency; read the two together.
Inland Flooding	0.393	event-days per year	about 0.393 days per year	Likely	event-days in 15 of 30 years, 1996 to 2025 (50%)	11	1996 to 2023 (28 years)	see B1-f	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Landslide	2.05	events per year (modeled)	about 2.05 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	7.96	days per year with a strike	about 7.96 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.0667	events per year	about 1 in 15 years	Possible	FEMA annualized frequency (modeled)	3	1986 to 2023 (38 years)	countywide	
Tornado	0.0384	events per year	about 1 in 26 years	Possible	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Tsunami		annual probability at the most exposed location (used in place of a county value)				not shown	modeled	see B1-f	Not Applicable in NRI for this county; no descriptor.
Volcanic Activity	0.0119	annual probability	about 1 in 84 years	Possible	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Wildfire	0.000281	annual probability at a location	chance a given location in the county burns in a year: 0.0281%	Likely	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: the NRI value is the chance at a location in the county, not how often the hazard affects the county.
Winter Weather	16.4	event-days per year	about 16.4 days per year	Highly likely	event-days in 30 of 30 years, 1996 to 2025 (100%)	302	2005-11-12 to 2024-11-12 (19 years)	countywide	

FEMA annualized frequency (modeled) comes from the National Risk Index v1.20 (December 2025). It is not recorded events divided by years, and what it measures depends on the hazard. For most hazards it estimates how often the hazard affects this county each year: it counts events or event-days (drought, heat wave, cold wave, winter weather, ice storm and inland flooding are in days per year; lightning is the number of days per year with a recorded cloud-to-ground strike, from the NOAA Storm Prediction Center daily lightning climatology); it may count events in the surrounding area (hail, strong wind, tornado, hurricane and ice storm use a 49 km grid and buffers) and is averaged over the county's area; and some hazards use a minimum value for places with no recorded event. Earthquake, wildfire and coastal flooding are different: FEMA computes them for each census block and averages them over the county, so the value is the chance (for coastal flooding, the modeled number of floods per year) at a location in the county, which is lower than the chance that the hazard strikes somewhere in the county. Earthquake is the chance of at least minor-damage shaking (U.S. Geological Survey model); wildfire is the chance that a location burns in a large fire (U.S. Forest Service burn probability); coastal flooding comes from FEMA flood zones and NOAA high-tide flooding, so it can be above 1 where high-tide flooding is frequent. Tsunami is the value at the county's most exposed location, from recorded events and modeled return periods. For these four hazards the packet gives no "1 in N years" and takes the descriptor from Storm Events (none for earthquake) unless the value is 1 or more a year. Landslide is a U.S. Geological Survey modeled county rate spread by slope susceptibility. Volcanic activity is the chance that a volcano affecting the county erupts in a year. Drought counts only extreme and exceptional drought (D3 and D4). Source: FEMA, National Risk Index Technical Documentation v1.20, sections 5.2.2 (Table 5), 5.2.3, 7.4, 10.4, 16.5, 17.1, 17.3.1, 17.5, 20.3.1, 21.4, 22.4 and 6 to 23.

SOURCES

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Descriptor scale used in this packet (defined per unit)

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

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Intensity bands: historical frequency (Storm Events)

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
Strong Wind (Thunderstorm Wind records)	50-64 kt	1996 to 2025	6	30	0.2
Strong Wind (Thunderstorm Wind records)	65 kt+	1996 to 2025	0	30	0
Strong Wind (Thunderstorm Wind records)	unmeasured or below 50 kt	1996 to 2025	4	30	0.133
Tornado	EF0-1	1996 to 2025	3	30	0.1
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

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.

SOURCE
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

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.

Supports B1-f: variation across the planning area

Range of census tract risk within the county

Hazard	Tracts rated of all	Risk score min NRI score, 0 to 100	Median	Max	Tracts by rating	Note
Avalanche	6 of 197	6.1	6.8	7.7	Very Low 6, Not Applicable 191	
Coastal Flooding	26 of 197	69.6	77.5	86.4	Relatively Low 14, Very Low 12, No Rating 171	
Cold Wave	197 of 197	16.5	42.0	72.9	Relatively Moderate 66, Relatively Low 130, Very Low 1	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Drought	1 of 197	68.3	68.3	68.3	Very Low 1, No Rating 196	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. Agriculture is all of NRI's expected annual loss for this hazard in the county, so the tract range above mostly reflects where crop and livestock value is, not where buildings and people are. Confirm locally.
Earthquake	197 of 197	75.8	91.0	99.9	Very High 29, Relatively High 107, Relatively Moderate 57, Relatively Low 4	
Hail	197 of 197	0.4	0.9	17.2	Very Low 197	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Heat Wave	197 of 197	2.1	53.5	87.0	Relatively High 1, Relatively Moderate 83, Relatively Low 107, Very Low 6	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Hurricane	0 of 197				Not Applicable 197	
Ice Storm	197 of 197	10.5	50.4	90.2	Relatively High 1, Relatively Moderate 13, Relatively Low 153, Very Low 30	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Inland Flooding	197 of 197	1.0	22.3	96.0	Very High 1, Relatively High 6, Relatively Moderate 31, Relatively Low 96, Very Low 63	
Landslide	187 of 197	8.8	41.9	99.7	Relatively High 1, Relatively Moderate 5, Relatively Low 28, Very Low 153, No Rating 10	
Lightning	197 of 197	0.5	5.5	20.5	Relatively Low 1, Very Low 196	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Strong Wind	197 of 197	9.7	18.1	63.1	Relatively Moderate 2, Relatively Low 80, Very Low 115	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.
Tornado	197 of 197	2.5	12.9	29.6	Relatively Low 1, Very Low 196	
Tsunami	0 of 197				Not Applicable 197	
Volcanic Activity	197 of 197	74.2	91.1	99.0	Relatively Moderate 3, Relatively Low 189, Very Low 5	
Wildfire	106 of 197	18.9	38.5	94.5	Relatively Moderate 1, Relatively Low 6, Very Low 99, No Rating 91	

Hazard	Tracts <i>rated of all</i>	Risk score min <i>NRI score, 0 to 100</i>	Median	Max	Tracts by rating	Note
Winter Weather	197 of 197	18.0	36.1	63.1	Relatively Moderate 19, Relatively Low 176, Very Low 2	National data give a county-wide or coarse (49 km grid or NWS zone) frequency for this hazard, so they cannot show members' hazard differing. The tract range above mostly reflects where buildings and people are. Confirm locally.

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.

SOURCE

FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)

Per-member block (Starter, confirm locally)

Member	Type	Plan status	Repetitive loss <i>FMA RL and SRL (44 CFR 77.2); repeat- flood, any definition</i>	Public Assistance matched <i>federal share obligated, nominal dollars</i>	Event records naming this place <i>all years; since the member's plan</i>	Notes
Multnomah County	County	Approved, expires 2028-10-31	FMA RL 0, SRL 0; any 2	\$17,379,263.57	0; 0	Includes \$16,533,272.50 for declarations not counted as hazard incidents (DR-4499-OR, EM-3228-OR).
Fairview city	City	Plan 108723 approved 2023-11-01, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$99,953.03	1; no approved plan	Includes \$59,824 for declarations not counted as hazard incidents (DR-4499-OR).
Gresham city	City	Plan 108723 approved 2023-11-01, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 0	\$1,537,409.09	4; no approved plan	Includes \$124,830.59 for declarations not counted as hazard incidents (DR-4499-OR).
Portland city	City	Approved, expires 2027-12-11	FMA RL 0, SRL 3; any 16	\$11,800,233.83	10; 0	Whole community, including the part in Washington County; in-county portion (county table): FMA RL 0, FMA SRL 3, NFIP RL 14, NFIP SRL 2, any category 15. Includes \$5,281,018.53 for declarations not counted as hazard incidents (DR-4499-OR, EM-3228-OR).
Troutdale city	City	Plan 108723 approved 2023-11-01, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 1	\$19,153.84	0; no approved plan	
Wood Village city	City	Approved, expires 2028-10-31	FMA RL 0, SRL 0; any 0	\$7,610.86	0; 0	

Member 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 member row, while the county table counts only its part in this county.

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

SOURCES

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)

NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>

Supports B2-a and B2-b: assets and impacts

Local data required

County-level starter. The plan must describe impacts for each participant and its own assets.

- Critical facilities and lifelines per hazard
- A problem statement per participant 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

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>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2023-11-01 <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	\$1,959,986		under 1	\$2		\$29	0.000105%				
Coastal Flooding	\$54,219,379		143	\$38,948		\$3,880	0.0718%				
Cold Wave	\$182,658,183,498	\$96,027,041	814,167	\$22,420	\$9,059	\$8,508,732	under 0.0001%		\$0		
Drought		\$848,043			\$4		0.000474% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$320,193,224,377		815,428	\$184,656,099		\$141,527,687	0.0577%				
Hail	\$182,658,183,498	\$96,027,041	814,167	\$526	\$1,309	\$1,069	under 0.0001%				
Heat Wave	\$182,658,183,498	\$96,027,041	814,167	\$2,602	\$20,406	\$9,962,062	under 0.0001%		\$0		
Hurricane											Not Applicable in NRI for this county
Ice Storm	\$182,389,105,662		812,948	\$938,637		\$270,436	0.000515%		\$0		
Inland Flooding	\$182,460,979,244	\$6,987,922	8,078	\$91,109,032	\$4,870	\$56,952	n/a (see note)				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. EAL as % of exposure: n/a.
Landslide	\$8,172,977,840		27,824	\$9,520		\$286,135	0.000116%			\$4,978,746.88	
Lightning	\$182,658,183,498		814,167	\$16,854		\$202,594	under 0.0001%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	EAL population equivalence <i>statistical value of life and injury, \$13.7M per life, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2023-11-01 <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
Strong Wind	\$182,658,183,498	\$96,027,041	814,167	\$880,279	\$1	\$44,621	0.000482%	\$1,000	\$53,000	\$4,978,746.88	Storm Events damage since the plan includes 2 zone-level Strong Wind records (\$53,000), an event type the NRI definition of this hazard leaves out.
Tornado	\$182,658,183,498	\$96,027,041	814,167	\$158,557	\$197	\$1,074,844	under 0.0001%				
Tsunami											Not Applicable in NRI for this county
Volcanic Activity	\$182,658,183,498		814,167	\$95,607		\$63,417	under 0.0001%				
Wildfire	\$5,336,820,014	\$13,148,432	22,308	\$147,462	\$2	\$7,219	0.00276%				
Winter Weather	\$182,658,183,498	\$96,027,041	814,167	\$21,429	\$1,243	\$285,905	under 0.0001%		\$10,360,000	\$4,978,746.88	

Totals since 2023-11-01 (Storm Events through 2026-06-30): 1 county-coded records, 1 with a damage value recorded (including \$0), \$1,000; 39 zone-level records, 37 with a damage value recorded (including \$0), \$10,413,000 reported for the zone; Public Assistance on counted declarations \$4,978,746.88 (1 declaration, 1 with PA).

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

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 must not be added up; the unit total counts each declaration once.

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

SOURCES
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)
NOAA NCEI, NOAA NCEI Storm Events Database, details files (csvfiles v1.0), version c20260918, pulled 2026-09-28, <https://www.ncei.noaa.gov/pub/data/swdi/stormevents/csvfiles/>
NOAA National Weather Service, NWS county-public forecast zones correlation file, version bp03mr20 to bp16ap26 (11 files; newest bp16ap26), pulled 2026-09-28, <https://www.weather.gov/gis/ZoneCounty>
FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Supports B2-a: context

County context

Measure	Value
Population	814,167
Building value (total, not at risk)	\$182,658,183,498
Agriculture value (total, not at risk)	\$96,027,041

Measure	Value
NRI risk rating (all hazards)	Relatively High
Expected annual loss, buildings and agriculture, all hazards	\$278,135,065
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)	\$162,295,580
Social vulnerability rating	Relatively Low
Community resilience rating	Very High
NRI version	December 2025

FEMA's all-hazard expected annual loss total adds buildings, agriculture and population equivalence; the two parts are shown separately so the property figure is not read as including the statistical value of life.

SOURCE
FEMA, FEMA National Risk Index 1.20.0 (December 2025), county and census tract tables, version 1.20.0, pulled 2026-09-28, 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)

Supports B2-c: repetitive loss

Repetitive loss in this county, both definitions

Definition	Properties	Severe repetitive loss	Properties
Repetitive loss, FMA definition (44 CFR 77.2)	0	Severe repetitive loss, FMA definition (44 CFR 77.2)	3
Repetitive loss, NFIP insurance definition	17	Severe repetitive loss, NFIP insurance definition	2

Your state NFIP coordinator's list may use the NFIP insurance definition, so its counts can be higher.

SOURCES
FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Repeat-flood properties: county and state-level rows

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	0	3	17	2	18	2	7
MULTNOMAH COUNTY*	0	0	2	0	2	0	1
PORTLAND, CITY OF	0	3	14	2	15	2	5
TROUTDALE, CITY OF	0	0	1	0	1	0	1
State level, not in this county: county not reported	0	0	1	0	1	0	0

SOURCES
FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)
FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

Repeat-flood properties by plan member (NFIP community)

Member	NFIP community ID	RL, FMA properties	SRL, FMA properties	RL, NFIP properties	SRL, NFIP properties	Any category properties	Mitigated properties	Currently insured properties	Note
Multnomah County	410179	0	0	2	0	2	0	1	
Fairview city	410180	0	0	0	0	0	0	0	
Gresham city	410181	0	0	0	0	0	0	0	
Portland city	410183	0	3	15	2	16	2	5	Whole community, including the part in Washington County; in-county portion (county table): FMA RL 0, FMA SRL 3, NFIP RL 14, NFIP SRL 2, any category 15.
Troutdale city	410184	0	0	1	0	1	0	1	
Wood Village city	410185	0	0	0	0	0	0	0	

Per-member types: XLSX sheet 'B2-c Members'.

Member 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 member row, while the county table counts only its part in this county.

SOURCES

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

County repeat-flood properties by occupancy group

Occupancy group	RL, FMA properties	SRL, FMA properties	RL, NFIP properties	SRL, NFIP properties	Any category properties	Mitigated properties	Currently insured properties
single-family residential	0	1	12	0	13	2	6
2 to 4 unit residential	0	1	1	1	1	0	0
other residential	0	0	0	0	0	0	0
non-residential	0	1	4	1	4	0	1
not reported	0	0	0	0	0	0	0

Institutional properties cannot be separated in this data: FEMA's occupancy groups have no institutional class, so they fall in non-residential or other residential in the table by occupancy group.

SOURCES

FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/NfipMultipleLossProperties> (API)

FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)

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; OpenFEMA's fmaRI field description omits the Increased Cost of Compliance clause of 44 CFR 77.2(i). NFIP repetitive loss (FEMA insurance definition, nfipRI) is 2 or more claims over \$1,000 in 10 years and can drop to false when a property is mitigated. Also shown: NFIP severe repetitive loss, any category, mitigated and currently insured.

Your state NFIP coordinator's list may use the NFIP insurance definition, so its counts can be higher.

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

Counts may differ from your state NFIP coordinator's list, which is the source the Handbook names.

In this county 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 17 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

Sources

Every table above lists its own sources. The full list, for the plan's bibliography (FEMA review item A4-a):

1. FEMA, OpenFEMA HazardMitigationPlanStatuses v1, version 2026-09-26T121003Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/HazardMitigationPlanStatuses> (API)
 2. FEMA, OpenFEMA DisasterDeclarationsSummaries v2, version 2026-09-27T010817Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v2/DisasterDeclarationsSummaries> (API)
 3. FEMA, OpenFEMA PublicAssistanceFundedProjectsSummaries v1, version 2026-09-26T151157Z, pulled 2026-09-28, <https://www.fema.gov/api/open/v1/PublicAssistanceFundedProjectsSummaries> (API)
 4. FEMA, OpenFEMA NfipMultipleLossProperties v1, version 2026-08-04T164045Z, pulled 2026-09-28, <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 2026-09-28, 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 2026-09-28, <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 2026-09-28, <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 2026-09-28, 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_scscd_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scscd_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
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Cite this: Hazard Plain (2026). Multnomah County, OR: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 41051). Preview: automated baseline. 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: to be added

Hazard Plain release 2026-10. As of 2026-09-28; Storm Events data through 2026-06-30. File hazard-plain_2026-10_OR_41051. Preview: automated baseline.