

Deschutes County, OR

Risk-assessment baseline packet

County FIPS: 41017 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 2026-10-27. Plan: Deschutes County Multi-Jurisdictional Natural Hazards Mitigation Plan (FEMA plan 107664), approved 2021-10-28.

Since the plan was approved on 2021-10-28: 4 new hazard declarations (4 incidents): FM-5500-OR (Darlene 3 Fire), FM-5527-OR (Mile Marker 132 Fire), FM-5610-OR (Flat Fire), FM-5647-OR (Akawa Butte Fire).

NOAA Storm Events records since that date: 60 records (data through 2026-06-30).

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$41,812,062 a year), Wildfire (\$13,011,174) and Earthquake (\$2,714,977).

Repetitive-loss flood properties now: FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 0.

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; 41017 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 2026-10-27	Plan:	Deschutes County Multi-Jurisdictional Natural Hazards Mitigation Plan (FEMA plan 107664)
Approved:	2021-10-28	Days to expiry:	27
Update underway:	none recorded in FEMA's plan tracker		

What changed since your last plan (approved 2021-10-28)

New federal declarations:	4 new hazard declarations (4 incidents): FM-5500-OR (Darlene 3 Fire), FM-5527-OR (Mile Marker 132 Fire), FM-5610-OR (Flat Fire), FM-5647-OR (Akawa Butte Fire)	Storm Events records since approval:	60 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 0	Repeat-flood change:	this release sets the baseline count.

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

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>
Deschutes County	County	Approved, expires 2026-10-27	Deschutes County Multi-Jurisdictional Natural Hazards Mitigation Plan (FEMA plan 107664)	2021-10-28	2026-10-27	27
Bend city	City	Approved, expires 2026-10-27	Deschutes County Multi-Jurisdictional Natural Hazards Mitigation Plan (FEMA plan 107664)	2021-10-28	2026-10-27	27
La Pine city	City	Approved, expires 2026-10-27	Deschutes County Multi-Jurisdictional Natural Hazards Mitigation Plan (FEMA plan 107664)	2021-10-28	2026-10-27	27
Redmond city	City	Approved, expires 2026-10-27	Deschutes County Multi-Jurisdictional Natural Hazards Mitigation Plan (FEMA plan 107664)	2021-10-28	2026-10-27	27
Sisters city	City	Approved, expires 2026-10-27	Deschutes County Multi-Jurisdictional Natural Hazards Mitigation Plan (FEMA plan 107664)	2021-10-28	2026-10-27	27

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

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

- dam failure (incl. upstream dams)
- levee failure
- flash flood as its own subtype
- ice jams
- debris flows
- erosion (riverine and coastal)
- land subsidence and sinkholes
- expansive soils

The 18 National Risk Index hazards, ranked by expected annual loss (EAL)

Sources: 5, 6

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings modeled dollars per year	EAL agriculture modeled dollars per year	Cost of expected deaths and injuries FEMA's dollar value per year, not property damage	EAL total (see note) modeled dollars per year	Storm Events records, 1996 to 2026-06-30 count	Why this hazard can be left out NRI Not Applicable, no declaration and no Storm Events record since 1996	Storm Events coverage note
1	Inland Flooding	Relatively Moderate	Relatively Moderate	\$41,809,299	\$459	\$2,305	\$41,812,062	16		
2	Wildfire	Relatively High	Relatively High	\$12,528,916	\$247	\$482,011	\$13,011,174	65		
3	Earthquake	Relatively Low	Relatively Low	\$2,080,519	n/a	\$634,458	\$2,714,977			Storm Events does not record earthquakes.
4	Cold Wave	Relatively Moderate	Relatively Moderate	\$6,701	\$5,701	\$2,154,825	\$2,167,227	8		Includes 3 Frost/Freeze records (outside NRI's Cold Wave definition; counted in this table and in B1-d, not in the B1-e descriptor).
5	Avalanche	Relatively High	Relatively Moderate	\$0	n/a	\$1,918,000	\$1,918,000	2		
6	Lightning	Relatively High	Relatively High	\$128,340	n/a	\$1,098,029	\$1,226,369	21		
7	Hail	Relatively Moderate	Relatively Moderate	\$968,891	\$4,096	\$55,919	\$1,028,906	154		
8	Volcanic Activity	Relatively Moderate	Relatively Moderate	\$237,855	n/a	\$316,112	\$553,968	0		No recorded events in Storm Events since 1996 (data through 2026-06-30).
9	Heat Wave	Relatively Low	Relatively Low	\$628	\$3,267	\$535,092	\$538,987	8		

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Why this hazard can be left out <i>NRI Not Applicable, no declaration and no Storm Events record since 1996</i>	Storm Events coverage note
10	Strong Wind	Relatively Low	Relatively Low	\$83,070	\$56	\$455,505	\$538,630	55		Includes 33 High Wind records (a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition).
11	Winter Weather	Relatively High	Relatively High	\$4,165	\$571	\$366,003	\$370,740	112		
12	Ice Storm	Relatively Low	Relatively Low	\$822	n/a	\$125,259	\$126,081	1		
13	Tornado	Very Low	Very Low	\$30,635	\$22	\$31,145	\$61,802	4		
14	Landslide	Relatively Low	Relatively Low	\$23,406	n/a	\$67	\$23,473	0		Declared 1 time; no Storm Events record of this type.
15	Drought	Very Low	Very Low	n/a	\$820	n/a	\$820	0		Declared 1 time; no Storm Events record of this type.
	Hurricane	Not Applicable	Not Applicable					0	NRI rates hurricane Not Applicable for this county, and no counted federal declaration for this county names it (EM-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).

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

Not applicable to this county per NRI, with no federal declaration and no Storm Events record since 1996: coastal flooding and tsunami. 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 2.02 (Relatively Moderate, 90.1); tract 6.01 (Relatively Moderate, 88.0); tract 1 (Relatively Moderate, 87.2)
Earthquake	tract 3.02 (Relatively Moderate, 86.1); tract 4.03 (Relatively Moderate, 82.6); tract 2.01 (Relatively Moderate, 82.4)
Hurricane	no tract has a National Risk Index rating for this hazard
Landslide	tract 1 (Relatively Moderate, 97.2); tract 5.02 (Relatively Moderate, 97.0); tract 5.01 (Relatively Moderate, 95.9)
Tornado	tract 5.01 (Very Low, 5.7); tract 12 (Very Low, 5.2); tract 11.01 (Very Low, 4.9)
Volcanic Activity	tract 3.01 (Relatively Moderate, 99.1); tract 5.02 (Relatively Moderate, 99.1); tract 4.03 (Relatively Moderate, 99.0)
Wildfire	tract 6.03 (Very High, 99.3); tract 6.02 (Very High, 99.2); tract 5.01 (Very High, 99.1)

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 2.02 is Census Tract 2.02). 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)	2 records, 1998 to 2014 (2 zone-level)		No damage reported in 2 records.		Countywide (zone-level records).	Physical measure: in event narratives only (local data needed).
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	5 records, 1999 to 2025 (5 zone-level)	1 day to 2 days (median 2 days); 3 with a recorded value	2 consecutive days, 2013-12-07 to 2013-12-08, 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	3 records, 2022 to 2024 (3 zone-level)		No crop damage reported in 3 records.		Countywide (zone-level records).	Temperature: in event narratives only (local data needed).
Drought	U.S. Drought Monitor scale (D0 to D4)	0					Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.
Earthquake	Modified Mercalli (local data)	0					Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	hail size (inches)	161 records, 1982 to 2025	0.75 in to 2 in (median 1 in); 161 with a recorded value	2 in hail, 2020-05-30; same size also recorded on 2006-06-12, 2014-07-22, 2014-08-02, 2017-05-04	Hail, 2006-06-12, \$7,000,000 property; crops not reported (2006 dollars)	Event records naming jurisdictions in the plan: Bend city (63 records), La Pine city (20 records), Sisters city (13 records), Redmond city (8 records).	
Excessive Heat, Heat	heat index (in event narratives)	8 records, 2006 to 2022 (8 zone-level)	2 days to 8 days (median 4 days); 6 with a recorded value	8 consecutive days, 2022-07-25 to 2022-08-01, zone-level		Countywide (zone-level records).	Heat index: in event narratives only (local data needed).

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
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)	1 record, 2017 (1 zone-level)		No damage reported in 1 record.		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)	16 records, 1997 to 2021 (2 zone-level)		Flash Flood, 2000-07-17, \$10,000 property; \$0 crops (2000 dollars)		Event records naming jurisdictions in the plan: Bend city (4 records), Redmond city (2 records), La Pine city (1 record), Sisters city (1 record). Zone-level records (2) apply countywide.	Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most.
Debris Flow	none (count and damage only)	0					Physical measure: in event narratives only (local data needed).
Lightning	annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names)	21 records, 1997 to 2019		Lightning, 1997-06-29, \$1,500,000 property; crops not reported (1997 dollars)		Event records naming jurisdictions in the plan: Bend city (10 records), Sisters city (5 records), La Pine city (3 records), Redmond city (2 records).	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)	33 records, 1997 to 2022 (33 zone-level)	35 kt (40 mph) to 74 kt (85 mph) (median 52.5 kt (60 mph)); 32 with a recorded value	74 kt (85 mph), measurement type not recorded, High Wind, 1999-09-25; Storm Events area CENTRAL OREGON (legacy zone code ORZ014)	High Wind, 2012-11-19, \$120,000 property; \$0 crops, reported for the zone (2012 dollars)	Countywide (zone-level records).	
Thunderstorm Wind	wind speed (kt and mph)	29 records, 1969 to 2025	50 kt (58 mph) to 76 kt (87 mph) (median 52 kt (60 mph)); 24 with a recorded value	76 kt (87 mph) estimated gust, Thunderstorm Wind, 2022-08-09	Thunderstorm Wind, 1998-07-29, \$200,000 property; crops not reported (1998 dollars)	Event records naming jurisdictions in the plan: Bend city (6 records), La Pine city (3 records), Redmond city (2 records), Sisters city (1 record).	

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)	6 records, 1983 to 2017	F/EF0 to F/EF1 (median F/EF0); 6 with a recorded value	F1 tornado, 1989-08-22, 1 mi path length (whole path, pre-1996), 10 yd wide, \$25,000 property; crops not recorded (1989 dollars)		Event records naming jurisdictions in the plan: Bend 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)	65 records, 1997 to 2020 (62 zone-level)		Wildfire, 2019-05-08, \$300,000 property; crops not reported (2019 dollars); NWS zone ORZ509		Event records naming jurisdictions in the plan: Sisters city (3 records). Zone-level records (62) apply countywide.	Acres burned: in event narratives only (local data needed).
Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	112 records, 1998 to 2026 (112 zone-level)		Heavy Snow, 2019-02-23, \$1,500,000 property; crops not reported (2019 dollars); NWS zone ORZ511		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: 20 declarations covering 17 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
2026-07-23	2026-07-23	FM-5647-OR	Fire management	Akawa Butte Fire	Wildfire	not yet in FEMA's PA summaries (they cover declarations through 2026-06-30)	new since last plan; within last 5 years	
2025-08-23	2025-08-22	FM-5610-OR	Fire management	Flat Fire	Wildfire	no Public Assistance recorded	new since last plan; within last 5 years	
2024-08-02	2024-08-02	FM-5527-OR	Fire management	Mile Marker 132 Fire	Wildfire	no Public Assistance recorded	new since last plan; within last 5 years	
2024-06-25	2024-06-25	FM-5500-OR	Fire management	Darlene 3 Fire	Wildfire	no Public Assistance recorded	new since last plan; within last 5 years	
2021-06-30	2021-06-29	FM-5394-OR	Fire management	0419 Fire	Wildfire	no Public Assistance recorded	in the 12 months before plan approval	
2020-09-15	2020-09-07	DR-4562-OR	Major disaster	Wildfires and Straight-Line Winds	Wildfire	\$76,093.39		
2020-03-28	2020-01-20	DR-4499-OR	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$25,182,838.95		
2020-03-13	2020-01-20	EM-3429-OR	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4499
2017-08-17	2017-08-16	FM-5196-OR	Fire management	Milli 0843 Cs Fire	Wildfire	no Public Assistance recorded		
2017-08-08	2017-01-07	DR-4328-OR	Major disaster	Severe Winter Storms, Flooding, Landslides, and Mudslides	Inland Flooding; Landslide; Winter Weather	\$1,853,349.14		
2014-06-08	2014-06-07	FM-5056-OR	Fire management	Two Bulls Fire	Wildfire	no Public Assistance recorded		
2007-09-03	2007-09-02	FM-2727-OR	Fire management	Gw Fire	Wildfire	no Public Assistance recorded		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance <i>federal share obligated, nominal dollars</i>	Flags	Notes
2006-07-27	2006-07-27	FM-2659-OR	Fire management	Black Crater Fire	Wildfire	no Public Assistance recorded		
2005-09-07	2005-08-29	EM-3228-OR	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	\$9,734.18		
2004-02-19	2003-12-26	DR-1510-OR	Major disaster	Severe Winter Storms	Winter Weather	\$65,394.75		
2003-08-20	2003-08-20	FM-2493-OR	Fire management	Or-Booth Fire-8-19-2003	Wildfire	no Public Assistance recorded		
2002-07-29	2002-07-28	FM-2455-OR	Fire management	Or - Cache Mountain Fire - 07/28/02	Wildfire	no Public Assistance recorded		
1996-02-09	1996-02-04	DR-1099-OR	Major disaster	High Winds, Severe Storms and Flooding	Inland Flooding (primary); also designated: Strong Wind	PA not declared for this county		
1977-04-29	1977-04-29	EM-3039-OR	Emergency	Drought	Drought	no Public Assistance recorded		
1964-12-24	1964-12-24	DR-184-OR	Major disaster	Heavy Rains & Flooding	Inland Flooding	no Public Assistance recorded		

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

Statewide declarations

Source: 2

Declared	Incident began	FEMA number	Type	Title	Mapped hazard
1963-02-25	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, 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.

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.

Public Assistance not placed in any Oregon county: 1 row, \$479,867.27; listed on the Oregon 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	2	0	0	0	0	0	1996 to 2026-06-30	
Cold Wave	8	4	0	4	0	0	1996 to 2026-06-30	Includes 3 Frost/Freeze records.
Drought	0	0	0	0	1	0	1996 to 2026-06-30	No Storm Events records of this type; 1 federal declared incident (see declarations table)
Earthquake	0	0	0	0	0	0		Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	161	7	2	7	0	0	1955 to 2026-06-30	
Heat Wave	8	3	2	3	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	1	0	0	0	0	0	1996 to 2026-06-30	
Inland Flooding	16	0	1	0	3	0	1996 to 2026-06-30	
Landslide	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)
Lightning	21	0	0	0	0	0	1996 to 2026-06-30	
Strong Wind	62	4	1	4	1	0	1955 to 2026-06-30	Includes 33 High Wind records.
Tornado	6	0	0	0	0	0	1950 to 2026-06-30	
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	65	0	0	0	12	4	1996 to 2026-06-30	
Winter Weather	112	42	2	42	2	0	1996 to 2026-06-30	

Notable Storm Events records

Sources: 1, 6, 7

Date	Event type	Magnitude or extent	Damage <i>nominal dollars</i>	Deaths, injuries <i>direct only</i>	Location	Flags	Why listed
2022-08-09	Thunderstorm Wind	76 kt (87 mph) estimated gust	\$0 property; \$0 crops (2022 dollars)	0, 0	STEARNS	new since last plan; within last 5 years	B1-c worst recorded: Thunderstorm Wind
2022-07-25	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2022 dollars)	0, 0	NWS zone ORZ506 (OCHOCO-JOHN DAY HIGHLANDS), zone-level	new since last plan; within last 5 years	B1-c worst recorded: Excessive Heat, Heat
2021-06-27	Excessive Heat		\$0 property; \$0 crops, reported for the zone (2021 dollars)	2, 0	NWS zone ORZ511 (CENTRAL OREGON), zone-level	in the 12 months before plan approval	deaths or injuries recorded
2020-09-07	High Wind	52 kt (60 mph) estimated gust	\$0 property; \$0 crops, reported for the zone (2020 dollars)	1, 0	NWS zone ORZ506 (OCHOCO-JOHN DAY HIGHLANDS), zone-level		deaths or injuries recorded
2020-05-30	Hail	2 in	\$0 property; \$0 crops (2020 dollars)	0, 0	SISTERS		B1-c worst recorded: Hail
2019-05-08	Wildfire		\$300,000 property; crops not reported, reported for the zone (2019 dollars)	0, 0	NWS zone ORZ509 (EAST SLOPES OF THE OREGON CASCADES), zone-level		B1-c worst recorded: Wildfire
2019-02-23	Heavy Snow		\$1,500,000 property; crops not reported, reported for the zone (2019 dollars)	0, 0	NWS zone ORZ511 (CENTRAL OREGON), zone-level		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2014-03-30	Avalanche		\$0 property; \$0 crops, reported for the zone (2014 dollars)	1, 1	NWS zone ORZ509 (EAST SLOPES OF THE OREGON CASCADES), zone-level		deaths or injuries recorded
2013-12-07	Extreme Cold/ Wind Chill		\$0 property; \$0 crops, reported for the zone (2013 dollars)	0, 0	NWS zone ORZ509 (EAST SLOPES OF THE OREGON CASCADES), zone-level		B1-c worst recorded: Cold/Wind Chill, Extreme Cold/Wind Chill
2000-07-17	Flash Flood		\$10,000 property; \$0 crops (2000 dollars)	0, 0	REDMOND		B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
1999-09-25	High Wind	74 kt (85 mph), measurement type not recorded	damage not reported	0, 0	Storm Events area CENTRAL OREGON (legacy zone code ORZ014), zone-level		B1-c worst recorded: High Wind and Strong Wind
1997-06-29	Lightning		\$1,500,000 property; crops not reported (1997 dollars)	0, 0	BEND		B1-c worst recorded: Lightning

The full list is in the Excel file, sheet "B1-d Storm Events history" (462 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	0.2	events per year	about 1 in 5 years	Likely	FEMA annualized frequency (modeled)	6	1994 to 2023 (30 years)	see B1-f	
Cold Wave	0.146	event-days per year	about 0.146 days per year	Likely (from Storm Events: 4 of 30 years)	event-days in 4 of 30 years, 1996 to 2025 (13.3%)	2.76	2005-11-12 to 2024-11-12 (19 years)	countywide	
Drought	68.8	event-days per year	about 68.8 days per year		event-days in 0 of 30 years, 1996 to 2025 (0%)	2,737	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No Storm Events drought record, 1996 to 2025
Earthquake	0.0045	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 0.45%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.389	events per year	about 1 in 3 years	Likely	FEMA annualized frequency (modeled)	14.8 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	2.41	event-days per year	about 2.41 days per year	Likely (from Storm Events: 5 of 30 years)	event-days in 5 of 30 years, 1996 to 2025 (16.7%)	26.8	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane		events per year					1851 to 2024 (Atlantic); 1949 to 2024 (Pacific)	see B1-f	Not Applicable in NRI for this county; no descriptor.
Ice Storm	0.0176	event-days per year	about 0.0176 days per year	Possible (from Storm Events: 1 of 30 years)	event-days in 1 of 30 years, 1996 to 2025 (3.33%)	1	1946-12-31 to 2014-02-12 (67 years)	countywide	
Inland Flooding	0.5	event-days per year	about 0.5 days per year	Likely (from Storm Events: 12 of 30 years)	event-days in 12 of 30 years, 1996 to 2025 (40%)	14	1996 to 2023 (28 years)	see B1-f	
Landslide	0.486	events per year (modeled)	about 1 in 2 years	Likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	13.7	days per year with a strike	about 13.7 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	countywide	
Strong Wind	0.0579	events per year	about 1 in 17 years	Possible	FEMA annualized frequency (modeled)	3	1986 to 2023 (38 years)	countywide	
Tornado	0.0492	events per year	about 1 in 20 years	Possible	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	

Hazard	FEMA annualized frequency (modeled) <i>unit per row</i>	Unit	In plain terms	Descriptor	Descriptor basis	NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional)	NRI period	Location	Note
Volcanic Activity	0.0015	annual probability	about 1 in 667 years	Unlikely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Wildfire	0.00346	annual probability at a location	chance a given location in the county burns in a year: 0.346%	Likely (from Storm Events: 17 of 30 years)	Storm Events records in 17 of 30 years, 1996 to 2025 (56.7%)	not shown	modeled	see B1-f	Descriptor from Storm Events, not NRI.
Winter Weather	19.8	event-days per year	about 19.8 days per year	Likely (from Storm Events: 23 of 30 years)	event-days in 23 of 30 years, 1996 to 2025 (76.7%)	377	2005-11-12 to 2024-11-12 (19 years)	countywide	

FEMA annualized frequency (modeled) is the National Risk Index v1.20 (December 2025) estimate of how often a hazard affects this county in a year; it is not recorded events divided by years, and its unit differs by hazard (events, event-days, or days with a lightning strike per year). For earthquake, wildfire, coastal flooding and tsunami the value is the chance (or number of events) at a location in the county, not across the county, so no "1 in N years" is given and the descriptor comes from Storm Events where it has a record (none for earthquake). The Methods page gives each hazard's method, from FEMA's National Risk Index Technical Documentation v1.20.

Where NRI gives event-days, the descriptor comes from the share of years with a Storm Events record; NRI's source records more events, so the two differ.

Descriptor scale used in this packet (defined per unit)

Sources: 5, 6

Unit	Descriptor	Definition
events per year	Highly likely	1 or more per year
events per year	Likely	about once in 1 to 10 years
events per year	Possible	about once in 10 to 100 years
events per year	Unlikely	less than once in 100 years
annual probability	Likely	10% to under 100% chance in a given year
annual probability	Possible	1% to under 10% chance in a given year
annual probability	Unlikely	under 1% chance in a given year
event-days (share of years)	Highly likely	event-days recorded in 90% or more of years
event-days (share of years)	Likely	event-days recorded in 10% to under 90% of years
event-days (share of years)	Possible	event-days recorded in some years but under 10% of years
lightning strike-days	Highly likely	cloud-to-ground strikes on 1 or more days per year

Intensity bands: historical frequency (Storm Events)

Source: 6

Hazard	Band	Years	Events <i>county-coded records</i>	Years in period	Events per year <i>events / years</i>
Hail	1.00-1.99 in	1996 to 2025	85	30	2.83
Hail	2.00 in+	1996 to 2025	6	30	0.2
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	18	30	0.6
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	2	30	0.0667
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	2	30	0.0667
Tornado	EF0-1	1996 to 2025	4	30	0.133
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	7 of 45	83.9	86.9	90.1	Relatively Moderate 7, Not Applicable 38
Cold Wave	45 of 45	21.9	45.3	69.3	Relatively Moderate 21, Relatively Low 24
Drought	16 of 45	67.2	68.1	77.5	Very Low 16, No Rating 29
Earthquake	45 of 45	20.5	54.4	86.1	Relatively Moderate 4, Relatively Low 30, Very Low 11
Hail	45 of 45	46.7	69.4	81.1	Relatively Moderate 22, Relatively Low 23
Heat Wave	45 of 45	3.3	14.7	35.2	Relatively Low 16, Very Low 29
Hurricane	0 of 45				Not Applicable 45
Ice Storm	45 of 45	6.6	34.2	51.4	Relatively Low 23, Very Low 22
Inland Flooding	45 of 45	7.2	61.0	99.4	Very High 2, Relatively High 9, Relatively Moderate 17, Relatively Low 13, Very Low 4
Landslide	45 of 45	31.8	61.2	97.2	Relatively Moderate 3, Relatively Low 9, Very Low 33
Lightning	45 of 45	33.1	75.8	90.9	Relatively High 20, Relatively Moderate 20, Relatively Low 5

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Strong Wind	45 of 45	17.1	38.0	56.4	Relatively Moderate 3, Relatively Low 39, Very Low 3
Tornado	45 of 45	1.8	3.6	5.7	Very Low 45
Volcanic Activity	45 of 45	78.4	86.6	99.1	Relatively Moderate 16, Relatively Low 6, Very Low 23
Wildfire	45 of 45	30.6	93.9	99.3	Very High 3, Relatively High 13, Relatively Moderate 15, Relatively Low 5, Very Low 9
Winter Weather	45 of 45	39.2	75.4	90.6	Relatively High 17, Relatively Moderate 27, Relatively Low 1

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	Public Assistance to this jurisdiction	Event records naming this place	Notes
			<i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i>	<i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i>	<i>all years; since its plan</i>	
Deschutes County	County	Approved, expires 2026-10-27	FMA RL 0, SRL 0; any 0	\$78,491.27	0 total; 0 since its plan	
Bend city	City	Approved, expires 2026-10-27	FMA RL 0, SRL 0; any 0	\$321,271.18	84 total; 4 since its plan	Includes \$9,734.18 for declarations not counted as hazard incidents (EM-3228-OR).
La Pine city	City	Approved, expires 2026-10-27	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	27 total; 1 since its plan	
Redmond city	City	Approved, expires 2026-10-27	FMA RL 0, SRL 0; any 0	\$55,222.97	14 total; 1 since its plan	Includes \$55,222.97 for declarations not counted as hazard incidents (DR-4499-OR).
Sisters city	City	Approved, expires 2026-10-27	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	23 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).

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 2021-10-28 <i>county-coded records, property plus crops, nominal dollars</i>	Zone-level damage since plan <i>property plus crops, reported for the zone</i>	Public Assistance since plan <i>nominal dollars; see note</i>	Note
Avalanche	\$0	n/a	5	\$0	n/a	\$1,918,000					building exposure is 0 in NRI
Cold Wave	\$52,969,956,901	\$37,044,385	197,964	\$6,701	\$5,701	\$2,154,825	under 0.0001%		\$0		
Drought	n/a	\$10,113,384	n/a	n/a	\$820	n/a	0.00811% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$89,196,389,767	n/a	198,253	\$2,080,519	n/a	\$634,458	0.00233%				
Hail	\$52,969,956,901	\$37,044,385	197,964	\$968,891	\$4,096	\$55,919	0.00183%	\$0			
Heat Wave	\$52,969,956,901	\$37,044,385	197,964	\$628	\$3,267	\$535,092	under 0.0001%		\$0		
Hurricane											Not Applicable in NRI for this county
Ice Storm	\$52,969,956,901	n/a	197,964	\$822	n/a	\$125,259	under 0.0001%				

Hazard	Building exposure <i>modeled dollars</i>	Agriculture exposure <i>modeled dollars</i>	Population exposed <i>people</i>	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL as % of exposure <i>buildings; agriculture where noted</i>	Storm Events damage since 2021-10-28 <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
Inland Flooding	\$52,938,000,194	\$414,261	515	\$41,809,299	\$459	\$2,305	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.
Landslide	\$989,505,712	n/a	3,204	\$23,406	n/a	\$67	0.00237%				
Lightning	\$52,969,956,901	n/a	197,964	\$128,340	n/a	\$1,098,029	0.000242%				
Strong Wind	\$52,969,956,901	\$37,044,385	197,964	\$83,070	\$56	\$455,505	0.000157%	\$0	\$0		
Tornado	\$52,969,956,901	\$37,044,385	197,964	\$30,635	\$22	\$31,145	under 0.0001%				
Volcanic Activity	\$52,969,956,901	n/a	197,964	\$237,855	n/a	\$316,112	0.000449%				
Wildfire	\$18,091,378,819	\$21,402,023	77,368	\$12,528,916	\$247	\$482,011	0.0693%			no Public Assistance recorded (4 declarations)	
Winter Weather	\$52,969,956,901	\$37,044,385	197,964	\$4,165	\$571	\$366,003	under 0.0001%		\$0		

Totals since 2021-10-28 (Storm Events through 2026-06-30): 10 county-coded records, 10 with a damage value recorded (including \$0), \$0; 50 zone-level records, 50 with a damage value recorded (including \$0), \$0 reported for the zone; Public Assistance: none recorded on the 4 counted declarations.

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	197,964
Building value (total, not at risk)	\$52,969,956,901
Agriculture value (total, not at risk)	\$37,044,385
NRI risk rating (all hazards)	Relatively Moderate
Expected annual loss, buildings and agriculture, all hazards	\$57,918,486
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)	\$8,174,730
Social vulnerability rating	Very Low
Community resilience rating	Relatively High
NRI version	December 2025

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

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

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

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

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

Repeat-flood properties: county and state-level rows

Sources: 1, 4

Scope	RL, FMA <i>properties</i>	SRL, FMA <i>properties</i>	RL, NFIP <i>properties</i>	SRL, NFIP <i>properties</i>	Any category <i>properties</i>	Mitigated <i>properties</i>	Currently insured <i>properties</i>
County total	0	0	0	0	0	0	0
Statewide, no county in FEMA's file	0	0	1	0	1	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>
Deschutes County	410055	0	0	0	0	0	0	0
Bend city	410056	0	0	0	0	0	0	0
La Pine city	410057	0	0	0	0	0	0	0
Redmond city	410015	0	0	0	0	0	0	0
Sisters city	410058	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: 0 in every occupancy group.

Sources: 1, 4

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 0 properties are FMA repetitive loss but not NFIP repetitive loss, and 0 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/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). Deschutes County, OR: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 41017). Automated baseline. <https://hazardplain.org/or/41017/> 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.