

# Island County, WA

## Risk-assessment baseline packet

Unit **County area 53029** Release **2026-10** As of **2026-09-28** Storm Events data through **2026-06-30**

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

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.

### 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).

## Plan clock

|                 |                                     |         |                                                                              |
|-----------------|-------------------------------------|---------|------------------------------------------------------------------------------|
| Status          | Expired on 2025-09-02               | Plan    | Island County Multi-Jurisdictional Hazard Mitigation Plan (FEMA plan 106694) |
| Approved        | 2020-09-03                          | Expires | 2025-09-02                                                                   |
| As of           | 2026-09-28                          | Days    | 391 days since expiry                                                        |
| Update underway | FEMA tracker shows a plan in review |         |                                                                              |

Generally not eligible for FEMA mitigation project grants (HMGP, FMA) until a new plan is approved, barring a 44 CFR 201.6(a)(3) exception. Planning grants are not affected.

### What changed since your last plan (approved 2020-09-03)

|                          |                                                                                                      |                                     |                                             |
|--------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------|
| New federal declarations | DR-4593-WA, DR-4635-WA, DR-4682-WA, DR-4775-WA, DR-4906-WA (5 declaration rows; 5 counted incidents) | Storm Events records since approval | 19 (data through 2026-06-30)                |
| Repetitive loss now      | FMA RL 0, SRL 0 (44 CFR 77.2); any definition: 20                                                    | 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

| Jurisdiction    | Type   | Status                | Plan                                                                         | Approved   | Expires    | Days to expiry<br><i>negative = days since expiry</i> | Update underway                     | Notes |
|-----------------|--------|-----------------------|------------------------------------------------------------------------------|------------|------------|-------------------------------------------------------|-------------------------------------|-------|
| Island County   | County | Expired on 2025-09-02 | Island County Multi-Jurisdictional Hazard Mitigation Plan (FEMA plan 106694) | 2020-09-03 | 2025-09-02 | -391                                                  | FEMA tracker shows a plan in review |       |
| Coupeville town | Town   | Expired on 2025-09-02 | Island County Multi-Jurisdictional Hazard Mitigation Plan (FEMA plan 106694) | 2020-09-03 | 2025-09-02 | -391                                                  | FEMA tracker shows a plan in review |       |

| Jurisdiction                                           | Type                         | Status                        | Plan                                                                                   | Approved   | Expires    | Days to<br>expiry                               | Update<br>underway | Notes                                     |
|--------------------------------------------------------|------------------------------|-------------------------------|----------------------------------------------------------------------------------------|------------|------------|-------------------------------------------------|--------------------|-------------------------------------------|
|                                                        |                              |                               |                                                                                        |            |            | <i>negative<br/>= days<br/>since<br/>expiry</i> |                    |                                           |
| Langley city                                           | City                         | No approved<br>plan on record | none                                                                                   | none       | none       |                                                 |                    | FEMA tracker<br>shows a plan in<br>review |
| Oak Harbor city                                        | City                         | Expired on<br>2025-09-02      | Island County Multi-<br>Jurisdictional Hazard<br>Mitigation Plan<br>(FEMA plan 106694) | 2020-09-03 | 2025-09-02 | -391                                            |                    | FEMA tracker<br>shows a plan in<br>review |
| Camano Island<br>Fire and Rescue                       | Fire/EMS District            | Expired on<br>2025-09-02      | Island County Multi-<br>Jurisdictional Hazard<br>Mitigation Plan<br>(FEMA plan 106694) | 2020-09-03 | 2025-09-02 | -391                                            |                    | FEMA tracker<br>shows a plan in<br>review |
| Island County<br>Transit                               | Transit/Airport              | No approved<br>plan on record | none                                                                                   | none       | none       |                                                 |                    | FEMA tracker<br>shows a plan in<br>review |
| North Whidbey<br>Fire                                  | Fire/EMS District            | No approved<br>plan on record | none                                                                                   | none       | none       |                                                 |                    | FEMA tracker<br>shows a plan in<br>review |
| South Whidbey<br>Fire/EMS                              | Fire/EMS District            | No approved<br>plan on record | none                                                                                   | none       | none       |                                                 |                    | FEMA tracker<br>shows a plan in<br>review |
| Whidbey<br>General Hospital                            | Hospital/Medical<br>Facility | Expired on<br>2025-09-02      | Island County Multi-<br>Jurisdictional Hazard<br>Mitigation Plan<br>(FEMA plan 106694) | 2020-09-03 | 2025-09-02 | -391                                            |                    |                                           |
| Whidbey Health<br>- Island Public<br>Hospital District | Hospital/Medical<br>Facility | No approved<br>plan on record | none                                                                                   | none       | none       |                                                 |                    | FEMA tracker<br>shows a plan in<br>review |

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

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

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## 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<br>by<br>EAL | Hazard              | NRI risk<br>rating     | EAL rating             | EAL<br>buildings<br><i>modeled<br/>dollars per year</i> | EAL<br>agriculture<br><i>modeled<br/>dollars per<br/>year</i> | EAL population<br>equivalence<br><i>statistical value of life<br/>and injury, \$13.7M per<br/>life, not property<br/>damage</i> | EAL total<br>(see note)<br><i>modeled<br/>dollars per year</i> | Storm<br>Events<br>records<br>since 1996<br><i>count</i> | Evidence for an omission<br><i>NRI Not Applicable, no declaration and no<br/>Storm Events record since 1996</i> | Storm Events coverage note                                                                                                                                     |
|-------------------|---------------------|------------------------|------------------------|---------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                 | Earthquake          | Relatively<br>Moderate | Relatively<br>Moderate | \$16,982,458                                            |                                                               | \$5,293,410                                                                                                                     | \$22,275,868                                                   |                                                          |                                                                                                                 | Not in Storm Events. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.                                                     |
| 2                 | Inland<br>Flooding  | Relatively<br>Low      | Relatively<br>Low      | \$7,875,221                                             | \$64                                                          | \$247                                                                                                                           | \$7,875,532                                                    | 1                                                        |                                                                                                                 |                                                                                                                                                                |
| 3                 | Landslide           | Relatively<br>High     | Relatively<br>High     | \$84,708                                                |                                                               | \$5,626,786                                                                                                                     | \$5,711,493                                                    | 4                                                        |                                                                                                                 |                                                                                                                                                                |
| 4                 | Coastal<br>Flooding | Relatively<br>Moderate | Relatively<br>Moderate | \$1,320,649                                             |                                                               | \$103,828                                                                                                                       | \$1,424,476                                                    | 2                                                        |                                                                                                                 |                                                                                                                                                                |
| 5                 | Cold Wave           | Relatively<br>Low      | Relatively<br>Low      | \$1,349                                                 | \$1,453                                                       | \$885,984                                                                                                                       | \$888,785                                                      | 0                                                        |                                                                                                                 | No recorded events in Storm Events since 1996 (data through 2026-06-30).                                                                                       |
| 6                 | Tsunami             | Very Low               | Very Low               | \$159,918                                               |                                                               | \$241,675                                                                                                                       | \$401,593                                                      | 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. |
| 7                 | Ice Storm           | Relatively<br>Moderate | Relatively<br>Moderate | \$16,467                                                |                                                               | \$297,661                                                                                                                       | \$314,128                                                      | 0                                                        |                                                                                                                 | No recorded events in Storm Events since 1996 (data through 2026-06-30).                                                                                       |
| 8                 | Heat Wave           | Very Low               | Very Low               | \$36                                                    | \$218                                                         | \$136,369                                                                                                                       | \$136,623                                                      | 1                                                        |                                                                                                                 |                                                                                                                                                                |

| Rank<br>by<br>EAL | Hazard               | NRI risk<br>rating | EAL rating                      | EAL<br>buildings<br>modeled<br>dollars per year | EAL<br>agriculture<br>modeled<br>dollars per<br>year | EAL population<br>equivalence<br>statistical value of life<br>and injury, \$13.7M per<br>life, not property<br>damage | EAL total<br>(see note)<br>modeled<br>dollars per year | Storm<br>Events<br>records<br>since 1996<br>count | Evidence for an omission<br><i>NRI Not Applicable, no declaration and no<br/>Storm Events record since 1996</i>                                                                           | Storm Events coverage note                                                                                                                                     |
|-------------------|----------------------|--------------------|---------------------------------|-------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9                 | Lightning            | Relatively<br>Low  | Relatively<br>Low               | \$3,128                                         |                                                      | \$85,246                                                                                                              | \$88,374                                               | 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. |
| 10                | Tornado              | Very Low           | Very Low                        | \$24,922                                        | \$13                                                 | \$60,430                                                                                                              | \$85,366                                               | 0                                                 |                                                                                                                                                                                           | Declared 1 time; no Storm Events record of this type.                                                                                                          |
| 11                | Winter<br>Weather    | Relatively<br>Low  | Relatively<br>Low               | \$2,811                                         | \$67                                                 | \$53,325                                                                                                              | \$56,202                                               | 18                                                |                                                                                                                                                                                           |                                                                                                                                                                |
| 12                | Wildfire             | Very Low           | Very Low                        | \$19,258                                        | under \$1                                            | \$913                                                                                                                 | \$20,172                                               | 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. |
| 13                | Strong<br>Wind       | Very Low           | Very Low                        | \$2,067                                         | \$2                                                  | \$4,125                                                                                                               | \$6,193                                                | 91                                                |                                                                                                                                                                                           | Includes 83 High Wind records and 8 Strong Wind records, event types the NRI definition of this hazard leaves out.                                             |
| 14                | Hail                 | Very Low           | Very Low                        | \$2,843                                         | \$148                                                | \$490                                                                                                                 | \$3,480                                                | 0                                                 |                                                                                                                                                                                           | No recorded events in Storm Events since 1996 (data through 2026-06-30).                                                                                       |
| 15                | Volcanic<br>Activity | Relatively<br>Low  | Relatively<br>Low               | \$1,093                                         |                                                      | \$1,613                                                                                                               | \$2,707                                                | 0                                                 |                                                                                                                                                                                           | Declared 1 time; no Storm Events record of this type. Storm Events coverage of this hazard is limited; absence is not evidence of low risk.                    |
| 16                | Avalanche            | Very Low           | Very Low                        | \$2                                             |                                                      | under \$1                                                                                                             | \$2                                                    | 0                                                 |                                                                                                                                                                                           | No recorded events in Storm Events since 1996 (data through 2026-06-30).                                                                                       |
| 17                | Drought              | No Rating          | No Expected<br>Annual<br>Losses |                                                 | \$0                                                  |                                                                                                                       | \$0                                                    | 0                                                 |                                                                                                                                                                                           | No recorded events in Storm Events since 1996 (data through 2026-06-30).                                                                                       |
|                   | Hurricane            | Not<br>Applicable  | Not<br>Applicable               |                                                 |                                                      |                                                                                                                       |                                                        | 0                                                 | NRI rates hurricane Not Applicable for this county, and no counted federal declaration for this county names it (EM-3227-WA names it but is not counted as a local occurrence; see B1-d). | No recorded events in Storm Events since 1996 (data through 2026-06-30).                                                                                       |

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

#### 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](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](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<br><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.                                                                        | 2 of 23                                           |
| Coastal Flooding  | The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center ( <a href="https://msc.fema.gov">https://msc.fema.gov</a> ) for this county. | 20 of 23                                          |
| Cold Wave         | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 23 of 23                                          |
| Drought           | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 0 of 23                                           |
| 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.                                                                        | 23 of 23                                          |
| Hail              | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 23 of 23                                          |
| Heat Wave         | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 23 of 23                                          |
| 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 23                                           |
| Ice Storm         | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 23 of 23                                          |
| Inland Flooding   | The FEMA Flood Insurance Rate Map (FIRM) is the required location source for flooding. See the FEMA Flood Map Service Center ( <a href="https://msc.fema.gov">https://msc.fema.gov</a> ) for this county. | 23 of 23                                          |
| 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.                                                                        | 23 of 23                                          |
| Lightning         | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 23 of 23                                          |
| Strong Wind       | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 23 of 23                                          |
| 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.                                                                        | 23 of 23                                          |
| 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.                                                                        | 20 of 23                                          |
| 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.                                                                        | 23 of 23                                          |
| 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.                                                                        | 21 of 23                                          |
| Winter Weather    | Affects the whole planning area; national data do not distinguish locations within the county. Confirm locally.                                                                                           | 23 of 23                                          |

**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](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](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<br><i>count, years</i> | Observed range | Worst recorded event | Most damaging<br>(when different) | How it applies to members | Note                                                             |
|-----------|-------------------------|--------------------------------|----------------|----------------------|-----------------------------------|---------------------------|------------------------------------------------------------------|
| Avalanche | none (count and damage) | 0                              |                |                      |                                   |                           | Physical measure: in event narratives only; local data required. |

| Hazard                                          | Scale                          | Records<br><i>count, years</i> | Observed range                  | Worst recorded event                                                                                                                                                                          | Most damaging<br>(when different) | How it applies to members                                                                           | Note                                                                                                                                                                                                                                                      |
|-------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coastal Flood, Storm Surge/ Tide                | none in data (FIRM for depth)  | 2, 2012 to 2012 (2 zone-level) |                                 | Coastal Flood, 2012-12-17, \$250,000 property; \$0 crops, reported for the zone (2012 dollars); NWS zone WAZ510 (ADMIRALTY INLET AREA), zone-level: may include parts of neighboring counties |                                   | Zone-level records: applies countywide; national data do not locate these events within the county. | Flood depth: see the FEMA Flood Insurance Rate Map.                                                                                                                                                                                                       |
| Cold/Wind Chill, Extreme Cold/Wind Chill        | wind chill                     | 0                              |                                 |                                                                                                                                                                                               |                                   |                                                                                                     | Wind chill: in event narratives only; local data required.                                                                                                                                                                                                |
| Frost/Freeze (outside NRI Cold Wave definition) | crop damage                    | 0                              |                                 |                                                                                                                                                                                               |                                   |                                                                                                     | 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)             | 0                              |                                 |                                                                                                                                                                                               |                                   |                                                                                                     |                                                                                                                                                                                                                                                           |
| Excessive Heat, Heat                            | heat index (narratives)        | 1, 2023 to 2023 (1 zone-level) | 4 days; 1 with a recorded value | 4 consecutive days, 2023-05-13 to 2023-05-16, zone-level                                                                                                                                      |                                   | Zone-level records: applies countywide; national data do not locate these events within the county. | Heat index: in event narratives only; local data required.                                                                                                                                                                                                |
| 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)      | 0                              |                                 |                                                                                                                                                                                               |                                   |                                                                                                     | Ice thickness: in event narratives only; local data required.                                                                                                                                                                                             |

| Hazard                                                         | Scale                                                                              | Records<br><i>count, years</i>   | Observed range                                                                     | Worst recorded event                                                                                                                               | Most damaging<br>(when different)                                                                       | How it applies to members                                                                           | Note                                                                                                                                                                                                                            |
|----------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flash Flood, Flood, Lakeshore Flood                            | damage and flood days (FIRM for depth)                                             | 1, 2009 to 2009                  |                                                                                    | Flood, 2009-04-03, \$10,000 property; \$0 crops (2009 dollars)                                                                                     |                                                                                                         | No event record names a member place.                                                               | 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)                                                            | 4, 2011 to 2014 (2 zone-level)   |                                                                                    | Debris Flow, 2014-12-28, \$250,000 property; \$0 crops (2014 dollars)                                                                              |                                                                                                         | No event record names a member place. Zone-level records (2) apply countywide.                      | Physical measure: in event narratives only; local data required.                                                                                                                                                                |
| Lightning                                                      | annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names) | 0                                |                                                                                    |                                                                                                                                                    |                                                                                                         |                                                                                                     | Storm Events lists lightning with damage or casualties; physical measure in event narratives only; local data required.                                                                                                         |
| High Wind and Strong Wind (outside NRI Strong Wind definition) | wind speed (kt and mph)                                                            | 91, 2006 to 2025 (91 zone-level) | 35 kt (40 mph) to 68 kt (78 mph) (median 48 kt (55 mph)); 91 with a recorded value | 68 kt (78 mph) measured gust, High Wind, 2006-12-14; NWS zone WAZ510 (ADMIRALTY INLET AREA), zone-level: may include parts of neighboring counties | Strong Wind, 2020-12-30, \$5,000,000 property; crops not reported, 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)                                                            | 1, 1986 to 1986                  | 53 kt (61 mph); 1 with a recorded value                                            | 53 kt (61 mph), measurement type not recorded, Thunderstorm Wind, 1986-01-06                                                                       |                                                                                                         | No event record names a member place.                                                               |                                                                                                                                                                                                                                 |

| Hazard                                                                      | Scale                                     | Records<br><i>count, years</i>   | Observed range | Worst recorded event                                                                                                                                                                         | Most damaging<br>(when different) | How it applies to members                                                                           | Note                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------|-------------------------------------------|----------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tornado                                                                     | Enhanced<br>Fujita (F before<br>Feb 2007) | 0                                |                |                                                                                                                                                                                              |                                   |                                                                                                     | 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.                                                                                                                                                                                                                                                                                                                                                              |
| Wildfire                                                                    | acres burned (local data)                 | 0                                |                |                                                                                                                                                                                              |                                   |                                                                                                     | 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)             | 18, 2006 to 2024 (18 zone-level) |                | Heavy Snow, 2006-11-26, \$4,000,000 property; \$0 crops, reported for the zone (2006 dollars); NWS zone WAZ510 (ADMIRALTY INLET 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 rows

22

Counted incidents

19

### Federal disaster declarations for this county

| Declared   | Incident began | FEMA number | Type           | Title                                                                               | Mapped hazard                                                      | County Public Assistance<br><i>federal share obligated, nominal dollars</i> | Flags                                                        | Notes                    |
|------------|----------------|-------------|----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------|
| 2026-04-07 | 2025-12-05     | DR-4906-WA  | Major disaster | SEVERE STORMS, STRAIGHT-LINE WINDS, FLOODING, LANDSLIDES, AND MUDSLIDES             | Inland Flooding (primary); also designated: Landslide, Strong Wind | none found                                                                  | new since last plan; within last 5 years                     |                          |
| 2024-04-28 | 2024-01-05     | DR-4775-WA  | Major disaster | SEVERE WINTER STORMS, STRAIGHT-LINE WINDS, FLOODING, LANDSLIDES, AND MUDSLIDES      | Inland Flooding; Landslide; Strong Wind; Winter Weather            | none found                                                                  | new since last plan; within last 5 years                     |                          |
| 2023-01-12 | 2022-11-03     | DR-4682-WA  | Major disaster | SEVERE WINTER STORM, STRAIGHT-LINE WINDS, FLOODING, LANDSLIDES, AND MUDSLIDES       | Inland Flooding; Landslide; Strong Wind; Winter Weather            | \$107,431.45                                                                | new since last plan; within last 5 years                     |                          |
| 2022-01-05 | 2021-11-05     | DR-4635-WA  | Major disaster | SEVERE STORMS, STRAIGHT-LINE WINDS, FLOODING, LANDSLIDES, AND MUDSLIDES             | Inland Flooding (primary); also designated: Landslide, Strong Wind | \$385,424.34                                                                | new since last plan; within last 5 years                     |                          |
| 2021-04-08 | 2020-12-29     | DR-4593-WA  | Major disaster | SEVERE WINTER STORM, STRAIGHT-LINE WINDS, FLOODING, LANDSLIDES, AND MUDSLIDES       | Inland Flooding; Landslide; Strong Wind; Winter Weather            | none found                                                                  | new since last plan                                          |                          |
| 2020-04-23 | 2020-01-20     | DR-4539-WA  | Major disaster | SEVERE STORMS, FLOODING, LANDSLIDES, AND MUDSLIDES                                  | Inland Flooding (primary); also designated: Landslide              | \$337,110.14                                                                | during plan review, check whether your last plan included it |                          |
| 2020-03-22 | 2020-01-20     | DR-4481-WA  | Major disaster | COVID-19 PANDEMIC                                                                   | Non-natural, not counted                                           | \$169,320.34                                                                | during plan review, check whether your last plan included it |                          |
| 2020-03-13 | 2020-01-20     | EM-3427-WA  | Emergency      | COVID-19                                                                            | Non-natural, not counted                                           | none found                                                                  | during plan review, check whether your last plan included it | same incident as DR-4481 |
| 2019-03-04 | 2018-12-10     | DR-4418-WA  | Major disaster | SEVERE WINTER STORMS, STRAIGHT-LINE WINDS, FLOODING, LANDSLIDES, MUDSLIDES, TORNADO | Inland Flooding; Landslide; Strong Wind; Tornado; Winter Weather   | \$46,015.68                                                                 |                                                              |                          |
| 2016-01-15 | 2015-11-12     | DR-4249-WA  | Major disaster | SEVERE STORMS, STRAIGHT-LINE WINDS, FLOODING, LANDSLIDES, AND MUDSLIDES             | Inland Flooding; Landslide; Strong Wind                            | \$159,054.44                                                                |                                                              |                          |
| 2015-10-15 | 2015-08-29     | DR-4242-WA  | Major disaster | SEVERE WINDSTORM                                                                    | Strong Wind                                                        | \$14,345.28                                                                 |                                                              |                          |
| 2009-03-02 | 2008-12-12     | DR-1825-WA  | Major disaster | SEVERE WINTER STORM AND RECORD AND NEAR RECORD SNOW                                 | Winter Weather                                                     | \$71,596.45                                                                 |                                                              |                          |
| 2007-02-14 | 2006-12-14     | DR-1682-WA  | Major disaster | SEVERE WINTER STORM, LANDSLIDES, AND MUDSLIDES                                      | Landslide; Winter Weather                                          | \$47,666.25                                                                 |                                                              |                          |
| 2006-05-17 | 2006-01-27     | DR-1641-WA  | Major disaster | SEVERE STORMS, FLOODING, TIDAL SURGE, LANDSLIDES, AND MUDSLIDES                     | Inland Flooding; Landslide                                         | \$150,314.69                                                                |                                                              |                          |

| Declared   | Incident began | FEMA number | Type           | Title                                             | Mapped hazard                                                        | County Public Assistance                        |                                 | Flags | Notes |
|------------|----------------|-------------|----------------|---------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|---------------------------------|-------|-------|
|            |                |             |                |                                                   |                                                                      | <i>federal share obligated, nominal dollars</i> |                                 |       |       |
| 2005-09-07 | 2005-08-29     | EM-3227-WA  | Emergency      | HURRICANE KATRINA EVACUATION                      | Hurricane: evacuation support, not a local hazard event; not counted |                                                 | none found                      |       |       |
| 2003-11-07 | 2003-10-15     | DR-1499-WA  | Major disaster | SEVERE STORMS AND FLOODING                        | Inland Flooding                                                      |                                                 | PA not declared for this county |       |       |
| 2001-03-01 | 2001-02-28     | DR-1361-WA  | Major disaster | EARTHQUAKE                                        | Earthquake                                                           |                                                 | PA not declared for this county |       |       |
| 1997-01-17 | 1996-12-26     | DR-1159-WA  | Major disaster | SEVERE WINTER STORMS, LAND & MUDS SLIDES,FLOODING | Inland Flooding; Landslide; Winter Weather                           |                                                 | none found                      |       |       |
| 1996-01-03 | 1995-11-07     | DR-1079-WA  | Major disaster | SEVERE STORMS, HIGH WIND, AND FLOODING            | Inland Flooding; Strong Wind                                         |                                                 | none found                      |       |       |
| 1991-03-08 | 1990-12-20     | DR-896-WA   | Major disaster | SEVERE STORMS & HIGH TIDES                        | Inland Flooding (primary); also designated: Coastal Flooding         |                                                 | none found                      |       |       |
| 1990-11-26 | 1990-11-09     | DR-883-WA   | Major disaster | SEVERE STORMS & FLOODING                          | Inland Flooding                                                      |                                                 | none found                      |       |       |
| 1980-05-21 | 1980-05-21     | DR-623-WA   | Major disaster | VOLCANIC ERUPTION, MT. ST. HELENS                 | Volcanic Activity                                                    |                                                 | none found                      |       |       |

School districts and special districts in this county: \$8,270.20 (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 |
|------------|----------------|-------------|----------------|---------------|----------------------------------------------------------------------------|-------|-------|
| 1963-03-02 | 1963-03-02     | DR-146-WA   | Major disaster | FLOODS        | Inland Flooding                                                            |       |       |
| 1962-10-20 | 1962-10-20     | DR-137-WA   | Major disaster | SEVERE STORMS | Hazard not mapped (severe storm title names no single hazard); not counted |       |       |
| 1957-03-06 | 1957-03-06     | DR-70-WA    | Major disaster | FLOODS        | Inland Flooding                                                            |       |       |
| 1956-02-25 | 1956-02-25     | DR-50-WA    | Major disaster | FLOOD         | Inland Flooding                                                            |       |       |

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

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

#### SOURCE

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, \$248,381.20**

| Disaster number | Declared   | Applicant                                              | County field in FEMA data | PA obligated                                    | Why not placed                                                                                                    |
|-----------------|------------|--------------------------------------------------------|---------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
|                 |            |                                                        |                           | <i>federal share obligated, nominal dollars</i> |                                                                                                                   |
| 4539            | 2020-04-23 | Confederated Tribes of the Umatilla Indian Reservation | Umatilla County           | \$248,381.20                                    | 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 | Since plan approval records | During plan review records | Last 5 years records | Declared incidents        | Declared since approval   | Period             | Statement                                                                                                          |
|------------------|----------------------|-----------------------------|----------------------------|----------------------|---------------------------|---------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------|
|                  | <i>full period</i>   | <i>records</i>              | <i>records</i>             | <i>records</i>       | <i>distinct incidents</i> | <i>distinct incidents</i> |                    |                                                                                                                    |
| Avalanche        | 0                    | 0                           | 0                          | 0                    | 0                         | 0                         | 1996 to 2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                                                     |
| Coastal Flooding | 2                    | 0                           | 0                          | 0                    | 1                         | 0                         | 1996 to 2026-06-30 |                                                                                                                    |
| Cold Wave        | 0                    | 0                           | 0                          | 0                    | 0                         | 0                         | 1996 to 2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                                                     |
| 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                    | 1                         | 0                         |                    | No Storm Events record; local data required (e.g., USGS).                                                          |
| Hail             | 0                    | 0                           | 0                          | 0                    | 0                         | 0                         | 1955 to 2026-06-30 | No recorded events, 1955 to 2026-06-30, NOAA NCEI Storm Events                                                     |
| Heat Wave        | 1                    | 1                           | 0                          | 1                    | 0                         | 0                         | 1996 to 2026-06-30 |                                                                                                                    |
| Hurricane        | 0                    | 0                           | 0                          | 0                    | 0                         | 0                         | 1996 to 2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                                                     |
| Ice Storm        | 0                    | 0                           | 0                          | 0                    | 0                         | 0                         | 1996 to 2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                                                     |
| Inland Flooding  | 1                    | 0                           | 0                          | 0                    | 14                        | 5                         | 1996 to 2026-06-30 |                                                                                                                    |
| Landslide        | 4                    | 0                           | 0                          | 0                    | 11                        | 5                         | 1996 to 2026-06-30 |                                                                                                                    |
| Lightning        | 0                    | 0                           | 0                          | 0                    | 0                         | 0                         | 1996 to 2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                                                     |
| Strong Wind      | 92                   | 11                          | 1                          | 5                    | 9                         | 5                         | 1955 to 2026-06-30 | Includes 83 High Wind records and 8 Strong Wind records, event types the NRI definition of this hazard leaves out. |
| Tornado          | 0                    | 0                           | 0                          | 0                    | 1                         | 0                         | 1950 to 2026-06-30 | No Storm Events records of this type; 1 federal declared incident (see declarations table)                         |

| <b>Hazard</b>     | <b>Storm Events records</b><br><i>full period</i> | <b>Since plan approval</b><br><i>records</i> | <b>During plan review</b><br><i>records</i> | <b>Last 5 years</b><br><i>records</i> | <b>Declared incidents</b><br><i>distinct incidents</i> | <b>Declared since approval</b><br><i>distinct incidents</i> | <b>Period</b>      | <b>Statement</b>                                                                           |
|-------------------|---------------------------------------------------|----------------------------------------------|---------------------------------------------|---------------------------------------|--------------------------------------------------------|-------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------|
| 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                                     | 1                                                      | 0                                                           | 1996 to 2026-06-30 | No Storm Events records of this type; 1 federal declared incident (see declarations table) |
| Wildfire          | 0                                                 | 0                                            | 0                                           | 0                                     | 0                                                      | 0                                                           | 1996 to 2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                             |
| Winter Weather    | 18                                                | 7                                            | 1                                           | 6                                     | 7                                                      | 3                                                           | 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**

| <b>Date</b> | <b>Event type</b> | <b>Magnitude or extent</b>         | <b>Damage</b><br><i>nominal dollars</i>                                        | <b>Direct deaths, injuries</b><br><i>indirect not counted</i> | <b>Location</b>                                                                               | <b>Flags</b>                             | <b>Why listed</b>                                                                                |
|-------------|-------------------|------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------|
| 2023-05-13  | Heat              |                                    | \$0 property; \$0 crops, reported for the zone (2023 dollars)                  | 0, 0                                                          | NWS zone WAZ510 (ADMIRALTY INLET AREA), zone-level: may include parts of neighboring counties | new since last plan; within last 5 years | B1-c worst recorded: Excessive Heat, Heat                                                        |
| 2020-12-30  | Strong Wind       | 43 kt (49 mph) estimated gust      | \$5,000,000 property; crops not reported, reported for the zone (2020 dollars) | 0, 0                                                          | NWS zone WAZ510 (ADMIRALTY INLET AREA), zone-level: may include parts of neighboring counties | new since last plan                      | B1-c most damaging: High Wind and Strong Wind (outside NRI Strong Wind definition)               |
| 2014-12-28  | Debris Flow       |                                    | \$250,000 property; \$0 crops (2014 dollars)                                   | 0, 0                                                          | CLINTON                                                                                       |                                          | B1-c worst recorded: Debris Flow                                                                 |
| 2013-01-31  | Debris Flow       |                                    | \$250,000 property; \$0 crops (2013 dollars)                                   | 0, 0                                                          | CLINTON                                                                                       |                                          | large reported damage                                                                            |
| 2012-12-17  | Coastal Flood     |                                    | \$250,000 property; \$0 crops, reported for the zone (2012 dollars)            | 0, 0                                                          | NWS zone WAZ510 (ADMIRALTY INLET AREA), zone-level: may include parts of neighboring counties |                                          | B1-c worst recorded: Coastal Flood, Storm Surge/Tide                                             |
| 2011-12-25  | High Wind         | 43 kt (49 mph) estimated sustained | \$0 property; \$0 crops, reported for the zone (2011 dollars)                  | 1, 1                                                          | NWS zone WAZ510 (ADMIRALTY INLET AREA), zone-level: may include parts of neighboring counties |                                          | deaths or injuries recorded                                                                      |
| 2009-04-03  | Flood             |                                    | \$10,000 property; \$0 crops (2009 dollars)                                    | 0, 0                                                          | GLENDAL                                                                                       |                                          | B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood                                         |
| 2006-12-14  | High Wind         | 68 kt (78 mph) measured gust       | \$500,000 property; \$0 crops, reported for the zone (2006 dollars)            | 0, 0                                                          | NWS zone WAZ510 (ADMIRALTY INLET AREA), zone-level: may include parts of neighboring counties |                                          | B1-c worst recorded: High Wind and Strong Wind (outside NRI Strong Wind definition)              |
| 2006-11-26  | Heavy Snow        |                                    | \$4,000,000 property; \$0 crops, reported for the zone (2006 dollars)          | 0, 0                                                          | NWS zone WAZ510 (ADMIRALTY INLET 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<br><i>nominal dollars</i>      | Direct deaths,<br>injuries<br><i>indirect not counted</i> | Location              | Flags | Why listed                             |
|------------|-------------------|-----------------------------------------------|---------------------------------------|-----------------------------------------------------------|-----------------------|-------|----------------------------------------|
|            |                   |                                               |                                       |                                                           |                       |       |                                        |
| 1986-01-06 | Thunderstorm Wind | 53 kt (61 mph), measurement type not recorded | damage not recorded (pre-1996 record) | 0, 0                                                      | location not recorded |       | B1-c worst recorded: Thunderstorm Wind |

The full list is in the XLSX file, sheet "B1-d Storm Events history" (118 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)<br><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. |
| Coastal Flooding | 3.2                                                        | events per year at a location (modeled) | about 3.2 per year at a given location in the county | Highly likely | FEMA annualized frequency (modeled)            | not shown                                                                                                | modeled                                    | see B1-f   | Descriptor from NRI: the rate at a location is 1 or more a year, so the county rate is at least that.                                                                              |
| Cold Wave        | 0.157                                                      | event-days per year                     | about 0.157 days per year                            |               | event-days in 0 of 30 years, 1996 to 2025 (0%) | 1.22                                                                                                     | 2005-11-12 to 2024-11-12 (19 years)        | countywide | No recorded event-days, 1996 to 2025; descriptor not assigned. Frost/Freeze records are not counted in this descriptor: they record crop freezes, not cold waves.                  |
| Drought          | 0                                                          | event-days per year                     | none modeled                                         |               | event-days in 0 of 30 years, 1996 to 2025 (0%) | 0                                                                                                        | 2000 to 2025 (25.25 years; D3 and D4 only) | countywide | No recorded event-days, 1996 to 2025; descriptor not assigned                                                                                                                      |

| Hazard             | FEMA<br>annualized<br>frequency<br>(modeled)<br><i>unit per row</i> | Unit                                | In plain terms                                                                                         | Descriptor       | Descriptor<br>basis                                        | NRI events or days in<br>its record period (hail,<br>wind and tornado are<br>area-weighted, so can<br>be fractional) | NRI period                                               | Location   | Note                                                                                                                                                                                  |
|--------------------|---------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Earthquake         | 0.026                                                               | annual probability<br>at a location | chance a given<br>location in the<br>county has at least<br>minor-damage<br>shaking in a year:<br>2.6% |                  |                                                            | not shown                                                                                                            | modeled                                                  | see B1-f   | Descriptor not assigned: the NRI value is the chance<br>at a location in the county, not how often the hazard<br>affects the county, and Storm Events does not<br>record earthquakes. |
| Hail               | 0.00825                                                             | events per year                     | about 1 in 121<br>years                                                                                | Unlikely         | FEMA<br>annualized<br>frequency<br>(modeled)               | 0.4 (modeled)                                                                                                        | 1986 to 2023<br>(38 years)                               | countywide |                                                                                                                                                                                       |
| Heat Wave          | 0.479                                                               | event-days per<br>year              | about 0.479 days<br>per year                                                                           | Possible         | event-days in 1<br>of 30 years,<br>1996 to 2025<br>(3.33%) | 1.66                                                                                                                 | 2005-11-12 to<br>2024-11-12 (19<br>years)                | countywide |                                                                                                                                                                                       |
| Hurricane          |                                                                     | events per year                     |                                                                                                        |                  |                                                            |                                                                                                                      | 1851 to 2024<br>(Atlantic); 1949<br>to 2024<br>(Pacific) | see B1-f   | Not Applicable in NRI for this county; no descriptor.                                                                                                                                 |
| Ice Storm          | 0.336                                                               | event-days per<br>year              | about 0.336 days<br>per year                                                                           |                  | event-days in 0<br>of 30 years,<br>1996 to 2025<br>(0%)    | 13                                                                                                                   | 1946-12-31 to<br>2014-02-12 (67<br>years)                | countywide | No recorded event-days, 1996 to 2025; descriptor<br>not assigned                                                                                                                      |
| Inland<br>Flooding | 0.0357                                                              | event-days per<br>year              | about 0.0357 days<br>per year                                                                          | Possible         | event-days in 1<br>of 30 years,<br>1996 to 2025<br>(3.33%) | 1                                                                                                                    | 1996 to 2023<br>(28 years)                               | see B1-f   |                                                                                                                                                                                       |
| Landslide          | 0.402                                                               | events per year<br>(modeled)        | about 1 in 2 years                                                                                     | Likely           | FEMA<br>annualized<br>frequency<br>(modeled)               | not shown                                                                                                            | modeled                                                  | see B1-f   |                                                                                                                                                                                       |
| Lightning          | 4.83                                                                | days per year with<br>a strike      | about 4.83 days<br>per year                                                                            | Highly<br>likely | FEMA<br>annualized<br>frequency<br>(modeled)               | not shown                                                                                                            | 1995 to 2023<br>(29 years;<br>CONUS)                     | countywide |                                                                                                                                                                                       |
| Strong<br>Wind     | 0.00584                                                             | events per year                     | about 1 in 171<br>years                                                                                | Unlikely         | FEMA<br>annualized<br>frequency<br>(modeled)               | 1                                                                                                                    | 1986 to 2023<br>(38 years)                               | countywide |                                                                                                                                                                                       |
| Tornado            | 0.0119                                                              | events per year                     | about 1 in 84 years                                                                                    | Possible         | FEMA<br>annualized<br>frequency<br>(modeled)               | not shown                                                                                                            | 1950 to 2023<br>(EF2+); 1986 to<br>2023 (EF0-1)          | see B1-f   |                                                                                                                                                                                       |

| Hazard               | FEMA<br>annualized<br>frequency<br>(modeled)<br><i>unit per row</i> | Unit                                                                                          | In plain terms                                                           | Descriptor | Descriptor<br>basis                                               | NRI events or days in<br>its record period (hail,<br>wind and tornado are<br>area-weighted, so can<br>be fractional) | NRI period                                | Location   | Note                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tsunami              | 0.0553                                                              | annual probability<br>at the most<br>exposed location<br>(used in place of a<br>county value) | chance at the<br>county's most<br>exposed location<br>in a year: 5.53%   |            | Storm Events<br>records in 0 of<br>30 years, 1996<br>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)                                                                                                                                                                                      |
| Volcanic<br>Activity | 0.0011                                                              | annual probability                                                                            | about 1 in 909<br>years                                                  | Unlikely   | FEMA<br>annualized<br>frequency<br>(modeled)                      | not shown                                                                                                            | modeled                                   | see B1-f   |                                                                                                                                                                                                                                                                                                                                                                          |
| Wildfire             | 0.0000205                                                           | annual probability<br>at a location                                                           | chance a given<br>location in the<br>county burns in a<br>year: 0.00205% |            | Storm Events<br>records in 0 of<br>30 years, 1996<br>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)                                                                                                                                                                                      |
| Winter<br>Weather    | 5.71                                                                | event-days per<br>year                                                                        | about 5.71 days<br>per year                                              | Likely     | event-days in<br>10 of 30 years,<br>1996 to 2025<br>(33.3%)       | 44.2                                                                                                                 | 2005-11-12 to<br>2024-11-12 (19<br>years) | countywide | NRI gives about 5.71 winter weather 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 10 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. |

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](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](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   |

| Unit                        | Descriptor    | Definition                                               |
|-----------------------------|---------------|----------------------------------------------------------|
| 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](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](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<br><i>county-coded records</i> | Years in period | Events per year<br><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 | 0                                     | 30              | 0                                        |
| 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 | 0                                     | 30              | 0                                        |
| Tornado                                 | EF0-1                     | 1996 to 2025 | 0                                     | 30              | 0                                        |
| 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<br><i>rated of<br/>all</i> | Risk<br>score min<br><i>NRI score, 0<br/>to 100</i> | Median | Max   | Tracts by rating                                                                        | Note                                                                                                                                                                                                                                 |
|----------------------|-----------------------------------|-----------------------------------------------------|--------|-------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Avalanche            | 2 of 23                           | 0.6                                                 | 0.9    | 1.1   | Very Low 2, Not Applicable 21                                                           |                                                                                                                                                                                                                                      |
| Coastal<br>Flooding  | 20 of 23                          | 72.7                                                | 92.7   | 98.7  | Relatively High 4, Relatively Moderate 10,<br>Relatively Low 4, Very Low 2, No Rating 3 |                                                                                                                                                                                                                                      |
| Cold Wave            | 23 of 23                          | 25.6                                                | 42.0   | 59.6  | Relatively Moderate 6, Relatively Low 17                                                | 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              | 0 of 23                           |                                                     |        |       | No Rating 23                                                                            | 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. |
| Earthquake           | 23 of 23                          | 84.7                                                | 90.1   | 94.6  | Relatively High 19, Relatively Moderate 4                                               |                                                                                                                                                                                                                                      |
| Hail                 | 23 of 23                          | 1.3                                                 | 3.7    | 8.5   | Very Low 23                                                                             | 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            | 23 of 23                          | 3.0                                                 | 6.8    | 15.3  | Very Low 23                                                                             | 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 23                           |                                                     |        |       | Not Applicable 23                                                                       |                                                                                                                                                                                                                                      |
| Ice Storm            | 23 of 23                          | 2.8                                                 | 83.0   | 90.5  | Relatively High 1, Relatively Moderate 12,<br>Relatively Low 2, Very Low 8              | 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<br>Flooding   | 23 of 23                          | 1.7                                                 | 30.5   | 53.7  | Relatively Moderate 3, Relatively Low 13,<br>Very Low 7                                 |                                                                                                                                                                                                                                      |
| Landslide            | 23 of 23                          | 72.9                                                | 99.7   | 100.0 | Very High 5, Relatively High 9, Relatively<br>Moderate 2, Relatively Low 4, Very Low 3  |                                                                                                                                                                                                                                      |
| Lightning            | 23 of 23                          | 6.4                                                 | 22.3   | 36.7  | Relatively Low 12, Very Low 11                                                          | 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          | 23 of 23                          | 0.7                                                 | 4.5    | 6.6   | Very Low 23                                                                             | 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              | 23 of 23                          | 2.5                                                 | 10.4   | 17.0  | Very Low 23                                                                             |                                                                                                                                                                                                                                      |
| Tsunami              | 20 of 23                          | 19.9                                                | 44.7   | 82.2  | Relatively Moderate 1, Relatively Low 3,<br>Very Low 16, No Rating 1, Not Applicable 2  |                                                                                                                                                                                                                                      |
| Volcanic<br>Activity | 23 of 23                          | 41.8                                                | 61.4   | 97.7  | Relatively Low 1, Very Low 22                                                           |                                                                                                                                                                                                                                      |
| Wildfire             | 21 of 23                          | 29.7                                                | 67.7   | 75.3  | Relatively Low 10, Very Low 11, No Rating 2                                             |                                                                                                                                                                                                                                      |

| Hazard         | Tracts          | Risk                                | Median | Max  | Tracts by rating                          | Note                                                                                                                                                                                                                                 |
|----------------|-----------------|-------------------------------------|--------|------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                | rated of<br>all | score min<br>NRI score, 0<br>to 100 |        |      |                                           |                                                                                                                                                                                                                                      |
| Winter Weather | 23 of 23        | 28.6                                | 48.1   | 63.8 | Relatively Moderate 11, Relatively Low 12 | 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](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](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                                            | Public Assistance matched                | Event records naming this place    | Notes |
|-----------------|--------|----------------------------|------------------------------------------------------------|------------------------------------------|------------------------------------|-------|
|                 |        |                            | FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition | federal share obligated, nominal dollars | all years; since the member's plan |       |
| Island County   | County | Expired on 2025-09-02      | FMA RL 0, SRL 0; any 20                                    | \$987,314.80                             | 0; 0                               |       |
| Coupeville town | Town   | Expired on 2025-09-02      | FMA RL 0, SRL 0; any 0                                     | \$139,970.23                             | 0; 0                               |       |
| Langley city    | City   | No approved plan on record | FMA RL 0, SRL 0; any 0                                     | none found                               | 0; no approved plan                |       |
| Oak Harbor city | City   | Expired on 2025-09-02      | FMA RL 0, SRL 0; any 0                                     | \$88,348.46                              | 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<br><i>modeled dollars</i> | Agriculture exposure<br><i>modeled dollars</i> | Population exposed<br><i>people</i> | EAL buildings<br><i>modeled dollars per year</i> | EAL agriculture<br><i>modeled dollars per year</i> | EAL population equivalence<br><i>statistical value of life and injury, \$13.7M per life, not property damage</i> | EAL as % of exposure<br><i>buildings; agriculture where noted</i> | Storm Events damage since 2020-09-03<br><i>county-coded records, property plus crops, nominal dollars</i> | Zone-level damage since plan<br><i>property plus crops, reported for the zone</i> | Public Assistance since plan<br><i>nominal dollars; see note</i> | Note                                                                                                                                                                                                 |
|-------------------|---------------------------------------------|------------------------------------------------|-------------------------------------|--------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Avalanche         | \$1,456,940                                 |                                                | under 1                             | \$2                                              |                                                    | under \$1                                                                                                        | 0.000105%                                                         |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Coastal Flooding  | \$873,396,654                               |                                                | 2,376                               | \$1,320,649                                      |                                                    | \$103,828                                                                                                        | 0.151%                                                            |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Cold Wave         | \$19,753,603,095                            | \$15,455,673                                   | 86,855                              | \$1,349                                          | \$1,453                                            | \$885,984                                                                                                        | under 0.0001%                                                     |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Drought           |                                             | \$0                                            |                                     |                                                  | \$0                                                |                                                                                                                  |                                                                   |                                                                                                           |                                                                                   |                                                                  | agriculture exposure is 0 in NRI                                                                                                                                                                     |
| Earthquake        | \$32,612,828,738                            |                                                | 86,857                              | \$16,982,458                                     |                                                    | \$5,293,410                                                                                                      | 0.0521%                                                           |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Hail              | \$19,753,603,095                            | \$15,455,673                                   | 86,855                              | \$2,843                                          | \$148                                              | \$490                                                                                                            | under 0.0001%                                                     |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Heat Wave         | \$19,753,603,095                            | \$15,455,673                                   | 86,855                              | \$36                                             | \$218                                              | \$136,369                                                                                                        | under 0.0001%                                                     |                                                                                                           | \$0                                                                               |                                                                  |                                                                                                                                                                                                      |
| Hurricane         |                                             |                                                |                                     |                                                  |                                                    |                                                                                                                  |                                                                   |                                                                                                           |                                                                                   |                                                                  | Not Applicable in NRI for this county                                                                                                                                                                |
| Ice Storm         | \$19,753,603,095                            |                                                | 86,855                              | \$16,467                                         |                                                    | \$297,661                                                                                                        | under 0.0001%                                                     |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Inland Flooding   | \$19,626,390,051                            | \$1,006,931                                    | 2,323                               | \$7,875,221                                      | \$64                                               | \$247                                                                                                            | n/a (see note)                                                    |                                                                                                           |                                                                                   | \$492,855.79                                                     | 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         | \$1,340,332,612                             |                                                | 4,888                               | \$84,708                                         |                                                    | \$5,626,786                                                                                                      | 0.00632%                                                          |                                                                                                           |                                                                                   | \$492,855.79                                                     |                                                                                                                                                                                                      |
| Lightning         | \$19,753,603,095                            |                                                | 86,855                              | \$3,128                                          |                                                    | \$85,246                                                                                                         | under 0.0001%                                                     |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Strong Wind       | \$19,753,603,095                            | \$15,455,673                                   | 86,855                              | \$2,067                                          | \$2                                                | \$4,125                                                                                                          | under 0.0001%                                                     |                                                                                                           | \$5,000,000                                                                       | \$492,855.79                                                     | Storm Events damage since the plan includes 1 zone-level Strong Wind record (\$5,000,000), an event type the NRI definition of this hazard leaves out.                                               |
| Tornado           | \$19,753,603,095                            | \$15,455,673                                   | 86,855                              | \$24,922                                         | \$13                                               | \$60,430                                                                                                         | 0.000126%                                                         |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Tsunami           | \$6,825,799,985                             |                                                | 2,731                               | \$159,918                                        |                                                    | \$241,675                                                                                                        | 0.00234%                                                          |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Volcanic Activity | \$19,753,603,095                            |                                                | 86,855                              | \$1,093                                          |                                                    | \$1,613                                                                                                          | under 0.0001%                                                     |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Wildfire          | \$3,965,263,608                             | \$4,272,052                                    | 17,948                              | \$19,258                                         | under \$1                                          | \$913                                                                                                            | 0.000486%                                                         |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                                                      |
| Winter Weather    | \$19,753,603,095                            | \$15,455,673                                   | 86,855                              | \$2,811                                          | \$67                                               | \$53,325                                                                                                         | under 0.0001%                                                     |                                                                                                           | \$0                                                                               | \$107,431.45                                                     |                                                                                                                                                                                                      |

Totals since 2020-09-03 (Storm Events through 2026-06-30): 0 county-coded records, 0 with a damage value recorded (including \$0), \$0; 19 zone-level records, 7 with a damage value recorded (including \$0), \$5,000,000 reported for the zone; Public Assistance on counted declarations \$492,855.79 (5 declarations, 2 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](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](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)  
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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                                                                                                                                                                    | 86,855           |
| Building value (total, not at risk)                                                                                                                                           | \$19,753,603,095 |
| Agriculture value (total, not at risk)                                                                                                                                        | \$15,455,673     |
| NRI risk rating (all hazards)                                                                                                                                                 | Relatively Low   |
| Expected annual loss, buildings and agriculture, all hazards                                                                                                                  | \$26,498,893     |
| 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) | \$12,792,102     |
| 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](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](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) | 0          |
| Repetitive loss, NFIP insurance definition    | 20         | Severe repetitive loss, NFIP insurance definition    | 0          |

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<br><i>properties</i> | SRL, FMA<br><i>properties</i> | RL, NFIP<br><i>properties</i> | SRL, NFIP<br><i>properties</i> | Any category<br><i>properties</i> | Mitigated<br><i>properties</i> | Currently insured<br><i>properties</i> |
|------------------------------------------------------|------------------------------|-------------------------------|-------------------------------|--------------------------------|-----------------------------------|--------------------------------|----------------------------------------|
| County total                                         | 0                            | 0                             | 20                            | 0                              | 20                                | 0                              | 8                                      |
| ISLAND COUNTY *                                      | 0                            | 0                             | 20                            | 0                              | 20                                | 0                              | 8                                      |
| State level, not in this county: county not reported | 0                            | 0                             | 2                             | 0                              | 2                                 | 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<br><i>properties</i> | SRL, FMA<br><i>properties</i> | RL, NFIP<br><i>properties</i> | SRL, NFIP<br><i>properties</i> | Any category<br><i>properties</i> | Mitigated<br><i>properties</i> | Currently insured<br><i>properties</i> | Note |
|-----------------|-------------------|------------------------------|-------------------------------|-------------------------------|--------------------------------|-----------------------------------|--------------------------------|----------------------------------------|------|
| Island County   | 530312            | 0                            | 0                             | 20                            | 0                              | 20                                | 0                              | 8                                      |      |
| Coupeville town | 530281            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Langley city    | 530292            | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |      |
| Oak Harbor city | 530068            | 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<br><i>properties</i> | SRL, FMA<br><i>properties</i> | RL, NFIP<br><i>properties</i> | SRL, NFIP<br><i>properties</i> | Any category<br><i>properties</i> | Mitigated<br><i>properties</i> | Currently insured<br><i>properties</i> |
|---------------------------|------------------------------|-------------------------------|-------------------------------|--------------------------------|-----------------------------------|--------------------------------|----------------------------------------|
| single-family residential | 0                            | 0                             | 20                            | 0                              | 20                                | 0                              | 8                                      |
| 2 to 4 unit residential   | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |
| other residential         | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |
| non-residential           | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |
| 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 20 properties are NFIP repetitive loss but not FMA repetitive loss.

Exact counts; no count suppression.

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## 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)
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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_counties_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024\\_Gazetteer/2024\\_Gaz\\_cousubs\\_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_cousubs_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024\\_Gazetteer/2024\\_Gaz\\_place\\_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_place_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024\\_Gazetteer/2024\\_Gaz\\_unsd\\_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_unsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024\\_Gazetteer/2024\\_Gaz\\_elsd\\_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_elsd_national.zip), [https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024\\_Gazetteer/2024\\_Gaz\\_scsd\\_national.zip](https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2024_Gaz_scsd_national.zip), [https://www2.census.gov/geo/docs/reference/codes2020/national\\_place\\_by\\_county2020.txt](https://www2.census.gov/geo/docs/reference/codes2020/national_place_by_county2020.txt), [https://www2.census.gov/geo/docs/reference/ct\\_change/ct\\_cou\\_to\\_cousub\\_crosswalk.xlsx](https://www2.census.gov/geo/docs/reference/ct_change/ct_cou_to_cousub_crosswalk.xlsx)

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Cite this: Hazard Plain (2026). Island County, WA: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-28; County area 53029). 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\_WA\_53029. Preview: automated baseline.