

**NWS Seattle Warning, Watch, Advisory Criteria**  
**Guidance for all WWA Products:**

Written instructions cannot address every operational situation. All NWS meteorologists exercise initiative and professional judgment to minimize risk to public safety and property in situations not explicitly covered by written instructions. Protection of life and property takes precedence in these decision making processes. As such, criteria for weather warnings are to be considered as guidance only, not strict thresholds. Meteorologists may issue warnings and advisories based upon lower criteria if the event in question poses a significant threat to life due to timing or other circumstances.

Watch Issuance when confidence is  $\geq 50\%$   
Warning Issuance when confidence is  $\geq 80\%$

Multi-Purpose Hazard	VTEC	PIL	Dir	Target Lead Time / Duration	Criteria (including IMPACTS)	NAWAS	EAS/SAME/ TONE	WEA
Special Weather Statement	---	SPS	<a href="#">10-517</a>	Varies	Strong, sub-severe convection or gust fronts. Could include gusts 40-57mph, hail < 1", frequent/continuous lightning, or funnel clouds not expected to become a tornado threat. OR Enhanced black ice risk. OR Enhanced landslide risk. Landslides SPS should be issued for the triggering rainfall event through approximately 24 hours after the rainfall ends. OR Other unique hazard not covered by an available product.  This product should always be paired with use of social media & weather stories			
Short Term Forecast	---	NOW	10-517	---	NOT ISSUED BY NWS SEATTLE Replaced with use of social media & weather stories			
Hazardous Weather Outlook	---	HWO	10-517	---	NOT ISSUED BY NWS SEATTLE Replaced with use of social media & weather stories			

Convective Hazard	VTEC	PIL	Dir	Target Lead Time / Duration	Criteria (including IMPACTS)	NAWAS	EAS/SAME/ TONE	WEA
Severe Weather Statement	SV.W TO.W	SVS	<a href="#">10-511</a>	--	Used to update, correct, expire, or cancel a TOR or SVR. An SVS should be issued at least once during the valid time of a SVR or TOR.		See TOR/SVR. NAWAS needed for increase in severity category.	
Severe Thunderstorm Watch	SV.A	WCN	<a href="#">10-511</a>	SPC-Driven	<b>Issued in coordination with SPC.</b> Observed and/or expected atmospheric conditions support the formation of severe thunderstorms.	YES MANUAL	YES Automatic	
Severe Thunderstorm Warning	SV.W	SVR	<a href="#">10-511</a>	Duration: 30-60 min	Impact criteria: Thunderstorms that are forecast to produce significant tree or structural damage, downed powerlines, flying debris, or threaten lives/property.  Gusts $\geq 58$ MPH OR Hail size $\geq 1"$ OR Potential tornado/landspout within thunderstorms that are also forecast to meet/exceed wind and/or hail criteria	YES MANUAL	YES Automatic	YES Automatic Destructive Tag Only
Tornado Watch	TO.A	SEL	<a href="#">10-511</a>	SPC-Driven	<b>Issued in coordination with SPC.</b> When there is a forecast of multiple weak tornadoes or any tornado which could produce EF2 or greater damage. The forecast event minimum thresholds should be at least 2 hours over an area at least 8,000 square miles. Below these thresholds, SPC in collaboration with affected WFOs and their CWAs may issue for smaller areas and for shorter periods of time when conditions warrant.	YES MANUAL	YES Automatic	
Tornado Warning	TO.W	TOR	<a href="#">10-511</a>	Duration: 15-45 min	Radar indication or reliable report of (developing) tornado	YES MANUAL	YES Automatic	YES Automatic
Tornado Emergency	TO.W	TOR	<a href="#">10-511</a>	Duration: 15-45 min	Exceedingly rare situations when: Severe threat to human life and catastrophic damage from a tornado is imminent or ongoing.  <b>Visual or radar sources confirm tornado. Radar imagery (e.g., debris ball signature) strongly suggests the existence of a damaging tornado.</b>	YES MANUAL	YES Automatic	YES Automatic
Special Marine Warning	MA.W	SMW	<a href="#">10-511</a>	Duration: 30-120 min	Convective, short-duration winds/frequent gusts $\geq 34$ knot OR Hail $\geq 3/4$ inch OR Waterspouts  Non-convective, short-duration winds/frequent gusts $\geq 34$ knot	YES MANUAL	YES Automatic (TONE Only)	

Hydrology Hazard	VTEC	PIL	Dir	Target Lead Time / Duration	Criteria (including IMPACTS)	NAWAS	EAS/SAME/ TONE	WEA
Hydrologic Statement	---	RVS	<a href="#">10-922</a>	Varies	Information on significant hydrologic conditions that are not floods.			
Hydrologic Outlook (Flooding)	---	ESF	<a href="#">10-922</a>	Lead Time: 1-7 days	$>30\%$ chance of flooding.			
Flood Advisory	FA.Y	FLS	<a href="#">10-922</a>	Duration: 2-6 hrs	Nuisance flooding due to elevated stream flow or ponding of water is imminent or occurring which warrants public notification. Conditions could become life-threatening if improper actions are taken.			

Flood Watch	FA.A	FFA	<a href="#">10-922</a>	Lead Time: 12-48 hrs (can be longer for high-confidence events)	Chance of flooding. Can be issued when river forecasts are close to and have a chance to exceed flood stage.			
Flood Warning (river forecast point)	FL.W	FLW	<a href="#">10-922</a>	Lead Time: Up to 24 hrs Duration: until flooding is expected to end within the river reach of the warning (not just below flood stage/flow at forecast point)	Flooding (river to exceed flood stage/flow or flood inundation) occurring or imminent at a river forecast point OR When flooding has or will increase in category.	YES MANUAL Major Flood OR not preceded by a watch	YES MANUAL Major Flood OR onset w/in 6 hours and not preceded by a watch	
Flood Warning	FA.W	FLW	<a href="#">10-922</a>	Duration: 6-24 hrs	Flooding is occurring or imminent in areas that cannot be covered by a Flood Warning for a forecast point. Usually flooding begins more than 6 hours after the start of the causative event.	YES MANUAL Flooding impacting Urban Areas		
Flash Flood Statement	FF.W	FFS	<a href="#">10-922</a>	--	Used to update, correct, expire, or cancel a Flash Flood Warning.	See Flash Flood Warning. NAWAS needed for increase in severity category.		
Flash Flood Watch	FF.A	FFA	<a href="#">10-922</a>	Lead Time: 12-48 hrs (can be longer for high-confidence events)	Chance of flash flooding, dam or levee failure, debris flow, or lahar.	YES MANUAL	YES MANUAL Extreme Event Only AND w/in 6 hours	
Flash Flood Warning	FF.W	FFW	<a href="#">10-922</a>	Duration: 2-6 hrs	Flash flooding (requiring immediate actions to protect life and property) is imminent/occurring due to precipitation, dam or levee failure, sudden failure of natural stream obstruction; precipitation indicated capable of producing debris flows; indicated by modeling; or volcanic activity likely to produce a lahar (volcanic mudflow/debris flow). Usually flooding begins less than 6 hours after the start of the causative event.	YES MANUAL	YES Automatic	YES Automatic Considerable OR Catastrophic Tags
Flash Flood Emergency	FF.W	FFW	<a href="#">10-922</a>	Duration: 2-6 hrs	FFW criteria AND one of the following: - State of Emergency declared due to life-threatening rapidly rising water - Flash flood water rises to level rarely ever seen or much higher than typical flash floods; - Multiple swift water rescue teams required; - Total failure of high hazard dam with catastrophic impacts.	YES MANUAL	YES Automatic	YES Automatic

Winter Hazard	VTEC	PIL	Dir	Target Lead Time / Duration	Criteria (including IMPACTS)	NAWAS	EAS/SAME/ TONE	WEA
Winter Weather Advisory	WW.Y	WSW	<a href="#">10-513</a>	Lead Time: >24 hours	Impact criteria: Winter weather conditions will not reach the below accumulation thresholds but could cause nuisance impacts to travel (e.g. rapid accumulations (1-2"+ per hour), snowfall during commute hours, holiday travel, early/late season snow, after a long dry spell).  Mountain Snow (usually below 5500'): >=8" event total  Cascade Foothill/Valley Zones above 500' >=2" event total  Lowland Snow (below 1500'): >=1" event total  Freezing rain: 0.05-0.25" ice accumulation in 24 hours			
Winter Storm Watch	WS.A	WSW	<a href="#">10-513</a>	Lead Time: >36 hours	See Winter Storm Warning. Do not issue within 12 hours of event start time.			
Winter Storm Warning	WS.W	WSW	<a href="#">10-513</a>	Lead Time: >24 hours	Impact criteria: Winter weather conditions will not reach the below thresholds but could cause major impacts to travel (e.g. rapid accumulations (1-2"+ per hour), snowfall during commute hours, holiday travel, early/late season snow, after a long dry spell).  Mountain Snow (usually below 5500'): >=12" event total  Cascade Foothill/Valley Zones above 500' >=6" event total  Lowland Snow (below 1500'): >=4" event total	YES MANUAL Onset within 6 hours AND not preceded by Watch	YES MANUAL Extreme Event Only AND w/in 6 hours	
Snow Squall Warning	SQ.W	SQW	<a href="#">10-513</a>	Duration: 30-60 min	Impact criteria: Dangerous, life-threatening, short-duration travel conditions over a small area due to intense winter conditions. Could cause major pile-ups on roadways.  White out conditions due to heavy snow and gusty wind.	YES MANUAL	YES Automatic (SAME Only)	YES Automatic Significant Tag Only
Ice Storm Warning	IS.W	WSW	<a href="#">10-513</a>	Lead Time: >24 hours	Impact criteria: Dangerous, life-threatening, or impossible travel conditions due to widespread ice accumulation. Significant power outages, tree damage, etc.  >=0.25" ice accumulation in 24 hours.	YES MANUAL Onset within 6 hours		

Blizzard Warning	BZ.W	WSW	<a href="#">10-513</a>	Lead Time: >24 hours	Impact criteria: Dangerous, life-threatening, long-duration travel conditions due to strong winds and blowing snow. Could cause major pile-ups on roadways.  Winds and/or frequent gusts $\geq$ 35 MPH AND Falling and/or blowing snow AND Frequent visibility $<$ ¼ mile AND Lasting $\geq$ 3 hours	YES MANUAL Onset within 6 hours	YES MANUAL Extreme Event Only AND w/in 6 hours
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Non-Precipitation Hazard	VTEC	PIL	Dir	Target Lead Time / Duration	Criteria (including IMPACTS)	NAWAS	EAS/SAME/TONE	WEA
Wind Advisory	WI.Y	NPW	<a href="#">10-515</a>	Lead Time: >24 hours	Impacts criteria: Windy conditions that will not reach the below thresholds but could cause impacts to life/commerce/travel (e.g. widespread power outages, impacts to a large outdoor event).  <b>Non-Mountain Zones:</b> Wind 30-39 mph (26-34 kt) and/or gusts of 45-57 mph (39-49 kt) OR when deciduous trees still have considerable foliage, gusts 35-57 mph (30-49 kt). AND Lasting $\geq$ 1 hour			
High Wind Watch	HW.A	NPW	<a href="#">10-515</a>	Lead Time: >36 hours	See High Wind Warning. Do not issue within 12 hours of event start time.			
High Wind Warning	HW.W	NPW	<a href="#">10-515</a>	Lead Time: >24 hours	Impacts criteria: Strong winds that will not reach the below thresholds but could cause life-threatening impacts or major impacts to commerce/travel.  <b>Non-Mountain Zones:</b> Wind $\geq$ 40 mph (35 knots) and/or gusts $\geq$ 58 mph (50 knots) AND Lasting $\geq$ 1 hour  <b>Mountains:</b> Wind $\geq$ 50 mph (44knots) and/or gusts $\geq$ 75 mph (65 knots) AND Lasting $\geq$ 1 hour	YES MANUAL Onset within 6 hours AND not preceded by Watch	YES MANUAL Coast: >60 G90mph OR Inland: >50 G75mph AND w/in 6 hours (excludes mtn zones)	
Heat Advisory	HT.Y	NPW	<a href="#">WR Supp</a>	Lead Time: >24 hours	Impacts criteria: Hot conditions that are not expected to reach warning threshold but can cause impacts to life, infrastructure, commerce, travel, etc. (e.g. impacts to vulnerable populations, large outdoor event, etc.).  <b>Use HeatRiskWWA Grids</b> Should be issued for values of HeatRisk in the low end of the Red level and high end of the Orange level, except in the case of a mixture of periods of recommended Warnings and Advisories, where forecaster discretion and coordination with surrounding offices should determine the appropriate Legacy Product and messaging strategy.			
Excessive Heat Watch (March 2025: Extreme Heat Watch)	EH.A XH.A (2025)	NPW	<a href="#">WR Supp</a>	Lead Time: >36 hours	See Excessive Heat Warning. Do not issue within 12 hours of event start time.			
Excessive Heat Warning (March 2025: Extreme Heat Warning)	EH.W XH.W (2025)	NPW	<a href="#">WR Supp</a>	Lead Time: >24 hours	Impacts criteria: Very hot conditions that are likely to result life-threatening illness for those unable to escape the heat or significant impacts to infrastructure, commerce, travel, etc. (e.g. road/bridge expansion damage, railway impacts, etc.).  <b>Use HeatRiskWWA Grids</b> Will be issued for Magenta and the mid/high range of the Red level HeatRisk thresholds. An exception would be in the case of a mixture of periods of recommended Warnings and Advisories, where forecaster discretion and coordination with surrounding offices should determine the appropriate Legacy Product and messaging strategy.	YES MANUAL Onset within 6 hours AND not preceded by Watch		
Cold Weather Advisory	CW.Y	NPW	<a href="#">10-515</a>	Lead Time: >24 hours	Apparent temperatures equal to or below: +25°F for zones 507, 509, 556, 558, 559 ( <i>new zones: 312, 313, 314, 315, 316, 323</i> ) +20°F for other non-mountain zones -5°F for mountain zones  Impacts criteria: Cold conditions that are not expected to reach warning threshold but can cause impacts to life, infrastructure, commerce, travel, etc. (e.g. impacts to vulnerable populations, burst pipes, large outdoor event, etc.). If cold occurs when there are significant power outages, higher apparent temperature thresholds should be considered. <b>In this case, it is recommended to coordinate with EMs/PIOs in affected jurisdictions to get locally relevant CTAs into the product.</b>			
Extreme Cold Watch	EC.A	NPW	<a href="#">10-515</a>	Lead Time: >36 hours	See Extreme Cold Warning. Do not issue within 12 hours of event start time.			

Extreme Cold Warning	EC.W	NPW	<a href="#">10-515</a>	Lead Time: >24 hours	Apparent temperatures equal to or below: 0°F for Western Whatcom County & San Juan Islands +10°F for other non-mountain zones -20°F for mountain zones  Impacts criteria: Extreme cold conditions that are likely to result life-threatening illness for those unable to escape the cold or significant impacts to infrastructure, commerce, travel, etc.	YES MANUAL <i>Onset within 6 hours AND not preceded by Watch</i>		
Frost Advisory	FR.Y	NPW	<a href="#">10-515</a>	Lead Time: >24 hours	<b>End of Growing Season &amp; Early Growing Season Only (APR-OCT)</b> <b>Non-Mountain Zones Only:</b> Widespread minimum temperatures of 32-36°F, with frost likely. - Issue no more than once per zone at end of growing season. - Issue for each event at the beginning of the growing season (starting April 1).			
Freeze Watch	FZ.A	NPW	<a href="#">10-515</a>	Lead Time: >36 hours	See Freeze Warning. Do not issue within 12 hours of event start time.			
Freeze Warning	FZ.W	NPW	<a href="#">10-515</a>	Lead Time: >24 hours	<b>End of Growing Season &amp; Early Growing Season Only (APR-OCT)</b> <b>Non-Mountain Zones Only:</b> <b>Freeze:</b> Widespread temperatures <= 32°F for a significant period of time "Hard Freeze" wording should be used for widespread high temperatures < 32°F OR Widespread low temperatures <20°F  - Issue no more than once per zone at end of growing season. - Issue for each event at the beginning of the growing season (starting April 1).			
Dust Advisory (polygon-based)	DS.Y	DSW	<a href="#">10-515</a>	Duration: 30-120 min	Widespread or localized blowing dust reducing visibilities to one mile or less, but greater than 1/4 mile.			
Dust Storm Warning (polygon-based)	DS.W	DSW	<a href="#">10-515</a>	Duration: 30-120 min	Widespread or localized blowing dust reducing visibilities to 1/4 mile or less. Winds greater than 25 MPH.	YES MANUAL	YES MANUAL <i>Extreme Event Only</i>	YES Automatic
Blowing Dust Advisory (zone-based)	DU.Y	NPW	<a href="#">10-515</a>	Duration: >3 hrs	Long duration (>3hr) widespread or localized blowing dust reducing visibilities to one mile or less, but greater than 1/4 mile.			
Blowing Dust Warning (zone-based)	DU.W	NPW	<a href="#">10-515</a>	Duration: >3 hrs	Long duration (>3hr) widespread or localized blowing dust reducing visibilities to 1/4 mile or less. Winds greater than 25 MPH.	YES MANUAL <i>Onset within 6 hours</i>		
Dense Fog Advisory	FG.Y	NPW	<a href="#">10-515</a>	Lead Time: Up to 24 hrs	Widespread or localized fog with < ¼ mile visibility			
Freezing Fog Advisory	ZF.Y	NPW	<a href="#">10-515</a>	Lead Time: Up to 24 hrs	Very light ice accumulation from freezing fog			
Dense Smoke Advisory	SM.Y	NPW	<a href="#">10-515</a>	Lead Time: Up to 24 hrs	Widespread smoke with < ¼ mile visibility			
Air Stagnation Advisory	AS.Y	NPW	<a href="#">10-515</a>	Lead Time: >24 hours	<b>Typically issued in coordination with EPA, state, and/or local air quality agencies.</b> Atmospheric conditions stable enough to cause air pollutants to accumulate in a given area. Stagnant conditions have developed AND Stagnant conditions are forecast to persist for at least 72 hours AND 24 hour pollution levels are rising over a wide area			

Coastal Hazard	VTEC	PIL	Dir	Target Lead Time / Duration	Criteria (including IMPACTS)	NAWAS	EAS/SAME/TONE	WEA
Beach Hazards Statement	BH.S	CFW	<a href="#">10-320</a>	Varies	Beach hazards that do not meet advisory or warning criteria. Examples: - Rip currents or other currents within the surf zone - Seiche (standing wave caused by an earthquake in a lake/reservoir which poses a threat to life and property.) - Unusual surge or wave conditions that do not meet advisory criteria - Significant riverine flood debris - Unusually cold water temperature  This product may also be used to relay environmental hazard statements from partner agencies: - Dangerous marine debris, including tsunami debris - Harmful algal blooms (i.e. Red Tide) - High bacteria levels in the water - Chemical spills - Hazardous marine life (e.g. sharks, jellyfish, etc.)			

Coastal Flood Advisory	CF.Y	CFW	<a href="#">10-320</a>	Lead Time: >24 hours	<p>Impacts criteria: Minor flooding (e.g. minor tidal overflow) along the coast that can cause impacts to roadways, buildings, etc.</p> <p>Minor flood level. See <a href="#">Coastal Flood Threshold Chart</a>. - Other factors such as winds and wave run-up will also be considered. - For example, if water levels are expected to be just slightly below threshold but there will be significant wave activity, an advisory may be needed for areas like Westport but not Aberdeen/Hoquiam (new zones).</p> <p>If High Surf Advisory conditions are forecast to occur at the same time as Coastal Flood Advisory conditions, a single Coastal Hazards Message (CFWSEW) can be issued addressing both hazards. Both the CF.Y and SU.Y hazard grids still need to be created.</p>		
Coastal Flood Watch	CF.A	CFW	<a href="#">10-320</a>	Lead Time: >36 hours	See Coastal Flood Warning. Do not issue within 12 hours of event start time.		
Coastal Flood Warning	CF.W	CFW	<a href="#">10-320</a>	Lead Time: >24 hours	<p>Impacts criteria: Moderate to severe coastal flooding that poses a serious threat to life and property, including beach erosion, damage to homes/businesses/roads, etc.</p> <p>Moderate or major flood level. See <a href="#">Coastal Flood Threshold Chart</a>. - Other factors such as winds and wave run-up will also be considered. - For example, water approaching moderate flood level with seas &gt;=25' along the outer coast or &gt;8' for the inner coast. - Another example, if water levels are expected to be just slightly below threshold but there will be significant wave activity, a warning may be needed for areas like Westport but not Aberdeen/Hoquiam (new zones).</p> <p>A single Coastal Hazards Message (CFWSEW) can combine any combination of High Surf and Coastal Flood hazards occurring at the same time/location. Both types of hazard grids still need to be created.</p>	YES MANUAL Onset within 6 hours AND not preceded by Watch	YES MANUAL Extreme Event Only AND w/in 6 hours
High Surf Advisory	SU.Y	CFW	<a href="#">10-320</a>	Lead Time: >24 hours	<p>Impacts criteria: Hazardous surf with waves running up higher on beaches. Waves can sweep people off jetties and breakwaters. Beach erosion possible.</p> <p><u>October 1 - March 31</u> Seas &gt;=20' and &lt;25' OR Criteria meeting the yellow area of the <a href="#">High Surf - Winter Chart</a>.</p> <p><u>April 1 - September 30</u> Seas &gt;=15' and &lt;25' OR Criteria meeting the yellow area of the <a href="#">High Surf - Summer Chart</a>.</p>		
High Surf Warning	SU.W	CFW	<a href="#">10-320</a>	Lead Time: >24 hours	<p>Impacts criteria: Hazardous surf that pose a serious threat to life and property. Waves running up higher on beaches. Waves can sweep people off jetties and breakwaters. Beach erosion likely.</p> <p>Seas &gt;=25' OR <u>October 1 - March 31</u> Criteria meeting the red area of the <a href="#">High Surf - Winter Chart</a>.</p> <p><u>April 1 - September 30</u> Criteria meeting the red area of the <a href="#">High Surf - Summer Chart</a>.</p>	YES MANUAL Onset within 6 hours	

Marine Hazard	VTEC	PIL	Dir	Target Lead Time / Duration	Criteria (including IMPACTS)	NAWAS	EAS/SAME/TONE	WEA
Marine Weather Statement	---	MWS	<a href="#">10-314</a>	Varies	<p>Non-severe events such as dense fog, hazardous materials spills, volcanic impacts, tsunami currents, funnel clouds, or marine debris.</p> <p>Follow-up/expiration/cancellation of SMW (MA.W)</p>			
Dense Fog Advisory	MF.Y	MWW	<a href="#">10-315</a>	Lead Time: Up to 24 hrs	<p>Impacts criteria: Fog conditions that could impact inexperienced mariners.</p> <p>Widespread or localized fog reducing visibility to &lt; 1 nautical mile</p>			
Dense Smoke Advisory	MS.Y	MWW	<a href="#">10-315</a>	Lead Time: Up to 24 hrs	Widespread smoke with < 1 nautical mile visibility			
Freezing Spray Advisory	ZY.Y	MWW	<a href="#">10-315</a>	Lead Time: >24 hours	Light to moderate ice accumulation on vessels			
Heavy Freezing Spray Watch	UP.A	MWW	<a href="#">10-315</a>	Lead Time: >36 hrs	See Heavy Freezing Spray Warning. Do not issue within 12 hours of event start time.			
Heavy Freezing Spray Warning	UP.W	MWW	<a href="#">10-315</a>	Lead Time: >24 hours	Accumulation of freezing water droplets on a vessel at a rate of 2 cm per hour or greater	YES MANUAL Onset within 6 hours AND not preceded by Watch		

Small Craft Advisory	SC.Y	MWW	<a href="#">10-315</a>	Lead Time: Up to 36 hrs	Impacts criteria: Hazardous wave conditions expected for small craft over a significant portion of a marine zone. Inexperienced mariners, especially those operating smaller vessels should avoid navigating in these conditions.  Winds: 21-33 knot (sustained or in frequent gusts) OR Seas: 10ft or greater OR 7-9 ft with period < wave height OR Rough or Severe Bar Conditions			
Gale Watch	GL.A	MWW	<a href="#">10-315</a>	Lead Time: 12-48 hrs (can be longer for high-confidence events)	See Gale Warning. Do not issue within 12 hours of event start time.			
Gale Warning	GL.W	MWW	<a href="#">10-315</a>	Lead Time: Up to 24 hrs	Impacts criteria: Hazardous wave conditions expected for all craft over a significant portion of a marine zone.  34-47 knot wind (sustained or in frequent gusts)			
Storm Watch	SR.A	MWW	<a href="#">10-315</a>	Lead Time: 12-48 hrs (can be longer for high-confidence events)	See Storm Warning. Do not issue within 12 hours of event start time.			
Storm Warning	SR.W	MWW	<a href="#">10-315</a>	Lead Time: Up to 24 hrs	48-63 knot wind (sustained or in frequent gusts)	YES MANUAL Onset within 6 hours AND not preceded by Watch		
Hurricane Force Wind Watch	HFA	MWW	<a href="#">10-315</a>	Lead Time: 12-48 hrs (can be longer for high-confidence events)	See Hurricane Force Wind Warning. Do not issue within 12 hours of event start time.			
Hurricane Force Wind Warning	HF.W	MWW	<a href="#">10-315</a>	Lead Time: Up to 24 hrs	>=64 knot wind (sustained or in frequent gusts)	YES MANUAL Onset within 6 hours AND not preceded by Watch		

Fire Weather Hazard	VTEC	PIL	Dir	Target Lead Time / Duration	Criteria (including IMPACTS)	NAWAS	EAS/SAME/TONE	WEA
Fire Weather Watch	FW.A	RFW	<a href="#">10-401</a>	Lead Time: 24-96 hrs (can be longer for high-confidence events) Do not issue within 12 hours of event start time.	See <a href="#">RFW Criteria</a>			
Red Flag Warning	FW.W	RFW	<a href="#">10-401</a>	Lead Time: Up to 96 hrs (Issue one RFW to cover multiple days with gaps)	See <a href="#">RFW Criteria</a>	YES MANUAL Onset within 6 hours AND not preceded by Watch		

Geologic Hazard	VTEC	PIL	Dir	Target Lead Time / Duration	Criteria (including IMPACTS)	NAWAS	EAS/SAME/TONE	WEA
Tsunami Advisory	TS.Y	TSU WCA	<a href="#">10-701</a>	NTWC-Driven	<b>Relayed via NWR in coordination with NTWC</b> Tsunami is imminent, expected, or occurring with the potential to generate strong currents or waves dangerous to those in or very near the water.  Wave heights 1-3'	YES Done by NTWC		
Tsunami Watch	TS.A	TSU WCA	<a href="#">10-701</a>	Lead Time: >3 hrs	<b>Relayed via NWR in coordination with NTWC</b> Tsunami possible. Alert level may change once more information is known.	YES Done by NTWC		
Tsunami Warning	TS.W	TSU WCA	<a href="#">10-701</a>	NTWC-Driven	<b>Relayed via NWR in coordination with NTWC</b> Tsunami imminent with dangerous coastal flooding and/or powerful currents.  Wave heights > 3' or unknown	YES Done by NTWC	YES Manual via Tsunami GUI	YES Automatic
Ashfall Advisory (Land)	AF.Y	NPW	<a href="#">10-515</a>	Coordination with VAAC & CVO	<b>Coordination with Volcanic Ash Advisory Center (VAAC) and USGS Cascades Volcano Observatory (CVO) required</b> Issued for a volcano undergoing a minor eruption where the public will be affected by a limited hazard extent such as <1/4" of ashfall accumulation			
Ashfall Warning (Land)	AF.W	NPW	<a href="#">10-515</a>	Coordination with VAAC & CVO	<b>Coordination with Volcanic Ash Advisory Center (VAAC) and USGS Cascades Volcano Observatory (CVO) required</b> Issued for a volcano undergoing a major eruption where the public will be affected to a significant extent, such as >=1/4" of ashfall accumulation, significant debris, lava or lahar flows.	YES MANUAL Onset within 6 hours		
Ashfall Advisory (Marine)	MH.Y	MWW	<a href="#">10-303</a>	Coordination with VAAC & CVO	<b>Coordination with Volcanic Ash Advisory Center (VAAC) and USGS Cascades Volcano Observatory (CVO) required</b> <1/4" of ashfall accumulation, pumice rafts, or some floating debris.			
Ashfall Warning (Marine)	MH.W	MWW	<a href="#">10-303</a>	Coordination with VAAC & CVO	<b>Coordination with Volcanic Ash Advisory Center (VAAC) and USGS Cascades Volcano Observatory (CVO) required</b> >=1/4" of ashfall accumulation, significant debris, lava, or lahar flows.	YES MANUAL Onset within 6 hours		

3rd Party Hazard	VTEC	PIL	Dir	Target Lead Time / Duration	Criteria (including IMPACTS)	NAWAS	EAS/SAME/TONE	WEA
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Air Quality Alert	---	AQA	<a href="#">10-519</a>	Partner-Driven	<b>To relay non-routine air quality alerts and information compiled by state and local air quality agencies.</b> The function of initiating and issuing air quality messages is performed by state and local air quality forecasters. The NWS' sole function in this process is providing, on request, a means of disseminating these state and locally issued air quality messages.		
Special Avalanche Bulletin	---	SAB SEW	--	Partner-Driven	Requested by NWAC		
Avalanche Watch	---	AVA	<a href="#">10-518</a>	Partner-Driven	Requested by NWAC		
Avalanche Warning	---	AVW	<a href="#">10-518</a>	Partner-Driven	Requested by NWAC	YES MANUAL <i>Extreme Events Only</i>	YES MANUAL <i>Extreme Events Only</i>