

EXPLANATION	
<ul> <li>This volcano-hazards-zonation map delineates the relative degree of hazard near Mount Hood from future eruptions and other hazardous geologic events. Eruptive events are characterized by extrusion of lava domes and, less likely, of lava flows. Collapse of growing lava domes generates pyroclastic flows that can melt snow and ice to produce lahars and floods. Landslides of altered rock from high on Mount Hood can be triggered by eruptions, but can also occur without eruptive activity. Such landslides, called debris avalanches, also produce lahars. Eruptions of Mount Hood, as well as other volcanoes in the Cascade Range, generate tephra clouds that are transported by wind and can affect areas hundreds of kilometers (hundreds of miles) away.</li> <li>Boundaries between hazard zones do not represent sharp changes in hazards. Rather, the degree of hazard decreases gradually in a down–valley direction and more rapidly as height above valley floors increases.</li> <li>Numerals in brackets refer to end notes in booklet.</li> <li>Proximal Hazard Zones</li> <li>Areas subject to rapidly moving, devastating pyroclastic flows and surges, lahars, and debris avalanches that can sweep out to the hazard boundary in less than 30 minutes. Also subject to ballistic projectiles and lava flows. Subdivided into two zones depending on vent location.</li> <li>Hazard zone PA — vent at or near Crater Rock, which is considered the most likely case during future eruptions. The 30–year probability of an eruption affecting a substantial portion of zone is estimated to be 1 in 15 to 1 in 30 [4]</li> </ul>	<ul> <li>Distal Hazard Zones</li> <li>Valleys heading on Mount Hood that are subject to Is Marks along the valley floor show the estimated travs size used to define zones DA and DB. Subdivided in of vent location, event magnitude, and probability of</li> <li>Hazard zone DA — Areas along Sandy River at that are subject to lahars generated by eruption Crater Rock and to debris avalanches and relate upper flanks on west and south sides of Mount of inundation of a substantial portion of zone is [4, 5]</li> <li>Hazard zone DB — Areas along Hood River at by eruptions at vents located on upper east or the valanches and related lahars of about 50 milli probability of inundation of a substantial portion of 200 [4, 6]</li> <li>Areas along Sandy and Hood Rivers subject to and lahar of about 500 million cubic meters, whe largest magnitude events possible at Moun probability of such an event is very low—less to compare the subject of such an event is very low—less to floods from Sandy and Hood Rivers during an analysis of such an event such and flooding induced floods from Sandy and Hood Rivers during an analysis of such an event such and such such and such such and such such an event is very low—less to compare the such and such and proven the largest magnitude events possible at Moun probability of such an event is very low—less to compare the largest magnitude events possible at Moun probability of such an event is very low—less to compare the largest magnitude events possible at Moun probability of such an event is very low—less to compare the largest magnitude events possible at Moun probability of such an event is very low—less to compare the such and the event is very low—less to compare the such and the possible at Moun probability of such an event is very low—less to compare the such and the possible at Moun probability of such an event is very low—less to compare the such and the possible at Moun probability of such an event is very low—less to compare the possible at Moun probability of such an event is very low</li></ul>
<ul> <li>Hazard zone PB — vent on east, north, or west flank, or the summit (a summit vent also would endanger zone PA). The 30–year probability of an eruption affecting a substantial portion of zone is estimated to be about 1 in 300 [4]</li> <li>Major valleys that pyroclastic flows and lahars would follow from lava–dome collapses on the upper flanks or summit. As an eruptive episode progresses, one or more of these valleys might become filled with debris, so that pyroclastic flows and lahars could then spill into adjacent valleys and affect a broader sector of a hazard zone. Also includes areas that are affected frequently (several times or more per century) by small lahars and debris avalanches generated by storms and rapid snowmelt</li> </ul>	1:30       Estimated travel time for lahars in hours:minut         Y       Diversion structure for irrigation or power can

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