

Your team has been brought in to develop hazard and risk assessments for the Mount Pyroclast region.

A team of geologists and volcanologists has been working to come up with the following regional eruption history for the big stratovolcano and the group of cinder (scoria) cones.

Volcano	Typical Composition	Age	Frequency of Eruptions	Further information
Mt Pyroclast	Andesite-Rhyolite (Intermediate-Felsic)	200,000 y	Frequent VEI 2-3 eruptions (typically every 20-100 years)	4 known VEI 4 eruptions; 2 known VEI 5 eruptions. The most recent eruption was 75 years ago (VEI 2). The last VEI 4 eruption was 75,000 years ago.
Mystic Cinder (Scoria) Cones	Basaltic (mafic)	> 1,000 y	unknown, but very frequent	Last known eruptions were 57 and 132 years ago

General volcanic hazards (not all may apply here):

Lava flows | Ballistics/bombs | Pyroclastic (ash) fall | Pyroclastic flows | Lahars/Debris flows | Lateral blasts
Caldera formation | Toxic gas | Atmospheric effects (acid rain, no sun)

Questions will be provided on the screen.

If you aren't sure, that is fine! Just discuss and make your best guess

Hazard and Risk Assessment

Location	Main Hazards	Overall Hazard Rating <i>Low-Moderate-High</i>	Overall Vulnerability (Exposure, Likelihood, Consequences) <i>Low-Moderate-High</i>	Risk Assessment <i>Low-Moderate-High</i>
Placid				
Mystic				
Big Smoke				

Volcanic Hazards Map

