



Mount St. Helens 2004-2008 Eruption Statistics

2004-08 eruption dates	October 1, 2004 to early January, 2008 (approximately 36 months).
Eruption style	Sporadic steam and ash explosions in 2004-2005 followed by approximately 36 months of continuous extrusion of semi-solid lava.
Volume of 2004-2008 lava dome	124 million cubic yards (95 million cubic meters; 6.3 million large dump trucks).
Average extrusion rate October-December 2006	0.88 cubic yards (0.67 cubic meters) per second (equivalent to filling 25 Olympic swimming pools every day).
Maximum height of lava dome above 1986 crater floor	1076 feet.
Current reduced height of lava dome	Approximately 1,000 feet (Seattle Space Needle 605 feet, Empire State Building 1,250 feet), reduction in height due to sagging and spreading.
Area footprint of lava dome on crater floor	Approximately 127 acres (0.5 square kilometers).

Mount St. Helens Since 1980 Statistics

Eruption dates	March 27, 1980 – October, 1986.
Catastrophic eruption on May 18, 1980	Elevation of summit 9,677 feet before; 8,363 feet after; 1,314 feet removed. Volume removed 0.67 cubic miles (3.7 billion cubic yards). Crater dimensions 1.2 miles (east-west); 1.8 miles (north-south); 2,084 feet deep. Crater floor elevation 6,279 feet.
1980-86 eruption style	Seismic reawakening on March 20, 1980. Minor steam and ash eruptions begin March 27, culminating in a catastrophic landslide and eruption on May 18, 1980. Six explosive steam and ash eruptions 1980-1986, intermittent with extrusion of the lava dome.
Volume of 1980-86 lava dome	120 million cubic yards (92 million cubic meters; 6.1 million large dump trucks).
Hydrothermal explosions 1981-2001	Between August 1989 and October 1991, at least six small ash-producing explosions from the dome complex inside the crater.
Portion of volume removed on May 18, 1980, that has been replaced by growth of the lava domes	6 Percent.
Average advance rate of Crater Glacier during 2004–2008 dome building eruption.	5 feet (1.5 meters) per day. Advance prior to 2004 was about 1 foot (0.3 meters) per day.
Portion of 1980 eruptive material eroded and transported downstream as valley-filling sediment of 2012	8 Percent.