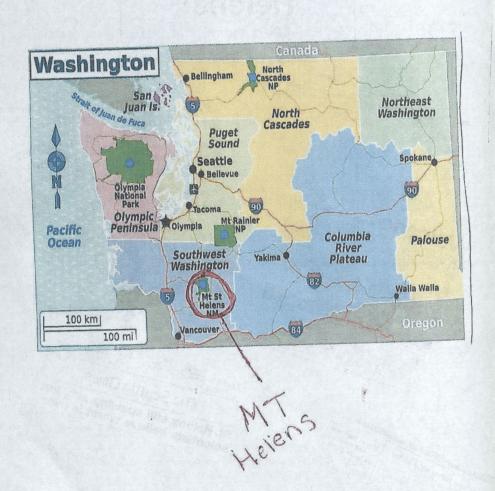


By: Pranav Dasan



Mount Helens is a huge part of Washington history because of its big eruption that happened on May 18, 1980 at 8:32 a.m. Pacific Time.



CROSS SECTION

The visible nortion of Mount St. Helens is built on top of the iseminate of an older volcans that formed between 2,500 and 40,000 years ago. The upper come of the volcano we see totally telless than 2,500 years old. The sammet of Mount St. Helens before the May 18th eruption was only 350 to 400 years old.

Modern Mount St. Helens

Chiefly workings and shorte and some bread tooks benefition 2.00 warmeds beposite counties of interface treat becamed two flows, pyto-kastic flows and dynamics, and taken. These are exposed in the upper contact walks.

eruptions interrupted by jornods of relative quiet. Exposed in the steep crater walls are layers of lave flows, psycolastic flows, madflows, and ash and pumico deposits. These layers are less than 2,500 years old.

The older remnants of the volcano (2,500 to 40,000 years old) are mostly covered by the upper cone. The lighter-colored rocks exposed in the lower crater walls are old.

clomes. Datic colored vertical dilease composed of younger ocks out historia the dorner. These dilease were the pathways through what magina nees to the surface. Deposits from this older period, each as ast and pannec layers, laws flows, and procedustic flows, are more receilly found beyond the uninectiate flamics of the volcano along mer valleys.

Early Mount St. Helens

Preparition of chiefly auchorate and divisiting periodication, driven inskill prunties and only list involvabless, must believe These one expressed in typescriptiviti Swar-auch to in South Crook willery and islang the Swarf. Crook Protections.

Class by disciss district listeness as 2,000 and 40,000 yours and South of the More time in the several content which is several modern with.

Early Volcanic Rocks

Smith Creek Butto

The Length:

Before the eruption, Mount Helens was 9,677 feet (2,950 meters) tall, and was the fifth tallest mountain in Washington. But now it's only 8,366 feet (2,549 meters). That means the eruption blew up 1,311 feet (399 meters) of land!



Before.

After.

After the eruption a crater was formed. It was 600 feet deep, 1.24 mile wide and 1.87 feet long.

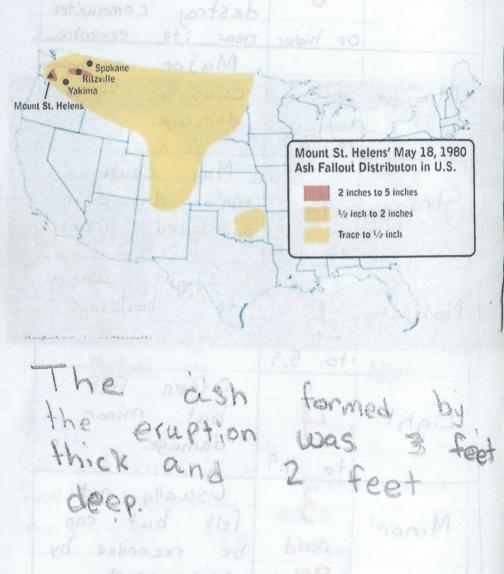
How:

The Mount Helens eruption was caused by an earthquake that occurred 1 mile (1.6 km) below the volcano. The magnitude of the earthquake was 5.1.

1000190103	ST SIMBLE (125 SE)	Great earthquake
Great	8	that can totally
	O	destroy communites
	or higher	near its epicentre.
Major		Major earthquak
	7	causing Serios
		damage.
	to 7.9	
Strong		May cause
	6	major damage in
		populated areas.
	to 6.9	
Moderate		Slight damage
	5	Slight damages to buildings.
	to 5.9	
4		Often felt
Light	14	but minor
		damage.
Commission of the commission o	to 4.9	
Minor	3	Usually not
	The second secon	felt but can
	and	be recorded by
	Below	seis mograph.

The Ash:

The ash plume of the eruption was big too. It spread across many states. By noon the ash plume was in Moscow, Idaho, and by 3:00 P.M the ash was near Missoula, Montana, and starting to spread south. At the end of the day (16 hours after eruption) the ash plume reached central Colorado. That's 1,305.4 miles away from Washington!

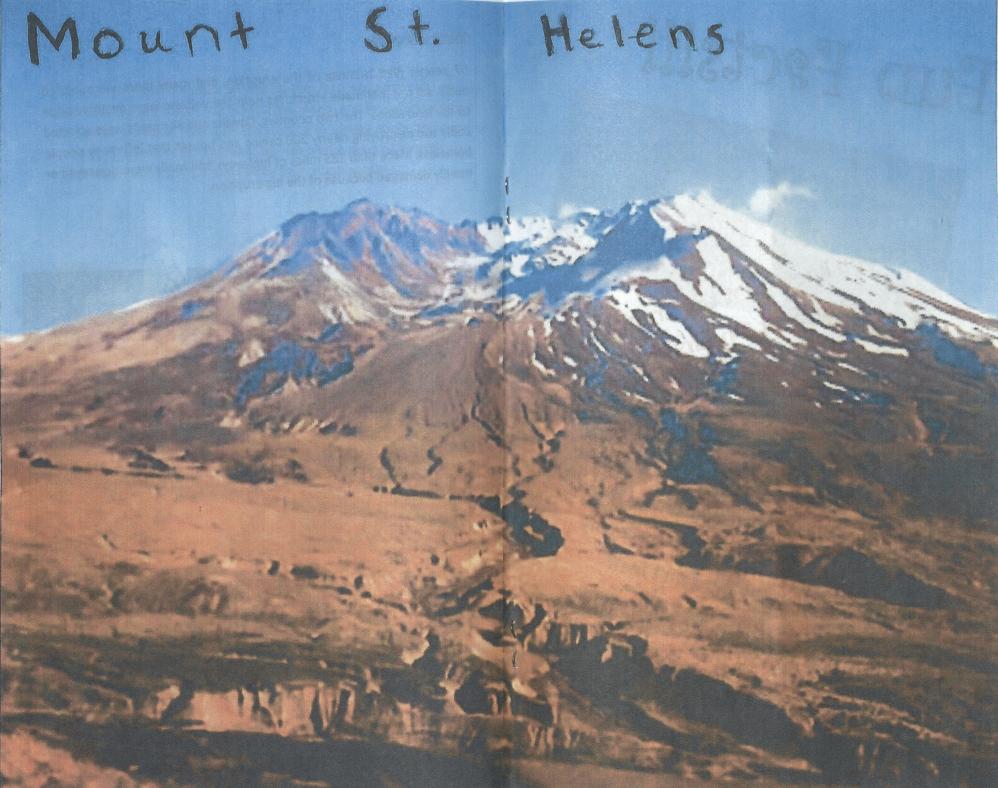


Effect on People:

57 people died because of the eruption, and many more were injured badly. All the manmade structures near the volcano were destroyed due to the land slides. The two counties, Cowlitz and Skamania were affected badly too destroying nearly 200 cabins and houses that left many people homeless. More than 185 miles of highways and roads were destroyed or heavily damaged because of the big eruption.



The death and damage caused by the Eruption was so bad that it became the most destructive volcano in U.S. history.



Fun Facts!!!

Did you know that the eruption lasted for 9 hours?

Did you know that Mount Helens has the most frequent eruptions of any volcano in the frequent eruptions is because it has many cascade range. This is because it has many small eruptions that we don't feel?

WOWI

Did you know that most of Mount Helens is younger than 3,000 years old? That's younger than than the pyramids of Egypt.



DID WOU?

Word Search!

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- 1. Helens
- 2. Ash
- 3. Plume
- 4. Lava
- 5. May
- 6. Washington
- 7. History
- 8. Volcano
- 9. Earthquake

Quiz Time!

- A) When did Mt. Helens erupt?
 - B) What was the magnitude of the earthquake that caused Mt. Helens to erupt?
 - C) What was the height of Mt. Helens before the eruption?
 - D) What is the height of Mt. Helens after the eruption?
 - E) How far did the ash plumes spread by the end of the day of the eruption?







MY VISIT TO MT. HELENS



I visted Mt. Helens National Volcanic monument on the Dec 23rd, 2018 to learn more about the volcano, its eruption and its scientific history. The documentary movie which was played at the Visitor Center Auditorium was very informative

and enlightening. There was a lot to cover; I have tried to give a brief photo journal here.



Fig. (a)

These are 7 layers of rocks and dirt found in Mt. Helens. [Fig. (a)]

- Double Soil and Pumice
- Pumice
- · Soil
- Dark Ash
- Rock and Ash
- · Soil
- Charcoal







Fig. (c)

Compared to the eruption in Mt. Mazama, Crater Lake, Oregon the eruption of Mt helens was very small. [Fig.(b) and Fig. (c)]



Fig. (d)



Fig. (e)

These two rocks, Breadcrust (left) Pumice(right), are two rocks found in Mt Helens. [Fig. (d) and Fig. (e)]

SAINT HELENS

With apocalyptic roar and the sound
Of the fifth angel's trumpet, this star's fall
From heaven collaps'd the volcanic north
Face, releasing in pyroclastic flow
Roiling, rumbling, demonic spirits,
Dwellers of the Abyss, vaporizing
Instantaneously man, deer and bird,
Blotting the sun, with roiling death's ash clouds.
Today, this scene, once hosting Cascadian
Armageddon, now quiet, as the new
Heaven and earth reclaim sanctuary
Where thrush and grouse hide, deer and elk wander
Feeding 'midst heather and lupine. Life does
Recover her tenuous hold on earth.

- Sonnet written by David Palmer

These two rocks, Breadcrust (left) Pumice(right), are two rocks found in Mt. Helens. IFIG. (d) and Fig. (e).