

VOLCANOES



By Barry Grainger

Positive and negative effects

Volcanoes have several

positive effects



That benefit humans and the environment these include:

Volcanoes, Dormant and Extinct attract large numbers of tourists. Employment is created in these areas to accommodate these sightseers. Areas around Mount Etna and Yellowstone National Park attract huge numbers of tourists.



Fertile Soils

Volcanic Soils are very fertile. These soils are rich in minerals. They are known as Terra Rossa and Laherite Soils. They are found in areas such as Brazil and Italy. Coffee, Fruit and Vegetables are grown in these areas.



Building Materials

Granite an important construction material is formed by volcanic activity.



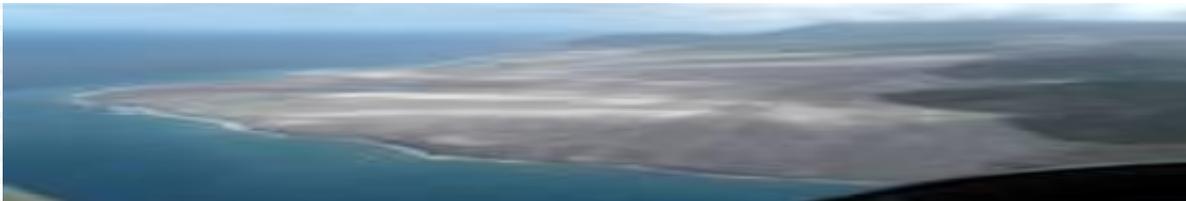
Geothermal Energy

This energy is harnessed in places where water is heated to temperatures in excess of 1000 degrees Celsius. No evaporation takes place and hot water and steam are pushed to the surface. Turbines harness this energy and turn it in to electricity



Creation of new land

Volcanoes create new land such as Hawaii and Iceland



Volcanoes have several negative effects



That have disastrous consequences for humans and the environment and cause great damage and destruction

Lahars



Lahars occur where ice and snow melt when there is a volcanic explosion. These become mud flows causing great damage. Rains wash damage down hill carrying the deposits of volcanoes such as at Mount Pinatubo in 1991



Nuée ardentes

These are hot ash and poison gas clouds that are released from a volcano. They travel at great speeds sometimes up to 200 km/h and over great distances



Loss of life



Many have died as a result of volcanic eruptions. In 79ad 2000 people were killed in Pompeii and Herculaneum when Mount Vesuvius erupted.



Damage to property

Lava causes extensive damage to property it burns through everything.



Effect on the environment

Substances ejected from volcanoes such as ash, dust and various gases help reduce global temperatures. Sulphur dioxide emitted from the volcano may cause acid rain. Some substances are harmful to humans such as carbon monoxide. Volcanoes producing CO₂ also contribute to greenhouse effect. Pyroclastic material from volcanoes also damages the environment.



THANKS FOR WATCHING

