**Soil**

**Abuses and Conservation**

**Marginal Lands**

* Soil ecosystems change through succession. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ contains a community of organisms that work to maintain functioning nutrient cycles and that are resistant to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Some soils, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, are never good for farming

* + Eg. \_\_\_\_\_\_\_\_\_\_\_\_\_\_

These types of soils are called \_\_\_\_\_\_\_\_\_
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Fertile soil may be located on slopes. This is also not prime arable land
	+ Also called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Abuses of Soil**

* There are 3 main ways that soil is degraded.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* ­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Abuse--Soil Erosion**

* There are 3 different kinds of erosion of soil.
* \_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Worldwide, erosion removes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of soil per year.
* Made worse by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Poor agricultural practices \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and lead to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| **Erosion Type** | **Cause** | **Examples** | **Result(s)** |
|  |  |  |  |
|  |  |  |  |

**Abuse—Soil Toxification**

|  |  |  |  |
| --- | --- | --- | --- |
| **Cause** | **Examples** | **Results** | **Consequences** |
|  |  |  |  |

**Abuse—Salinization**

|  |  |  |
| --- | --- | --- |
| **Cause** | **Results** | **Consequences** |
|  |  |  |

**Soil Conservation Practices**

* Agricultural Potential
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:
* 11% of land surface is suitable for crops (arable).
* An additional 24% is in permanent pasture.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:
* 20% land surface is arable.
* 25% in permanent pasture.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:
* 6% land surface suitable for crops.
* 29% can be used for pasture.
* When topsoil is lost, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, thus fertilizers must be used to restore fertility.
* This practice \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and increases sediment load in waterways.
* Fertilizers \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ which leads to a change in water ecosystems.
* Over \_\_\_\_\_\_\_\_\_ of U.S. land is suitable for agriculture, but only \_\_\_\_\_\_\_\_\_\_\_ does not require some form of soil conservation practice.

**Soil Quality Management Components:**

* Manage pests and nutrients efficiently.
* Prevents \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Prevent \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Plants don’t grow in compacted soil.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Keeps nutrients from being drawn out of the soil.

Fill in the chart below for ways to prevent soil degradation

|  |  |
| --- | --- |
| * Soil Degradation Type
 | * Ways to prevent degradation
 |
| * Erosion
 |  |
| * Toxification
 |  |
| * Salinization
 |  |

**Soil Conservation Practices—Cultivation—Draw an arrow to the picture that represents each type of alternative cultivation**

* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** is tilling at right angles to the slope of the land. Each ridge acts as a small dam.
* Useful on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* One of the simplest methods for preventing soil erosion.
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** is the practice of alternating strips of closely sown crops to slow water flow, and increase water absorption.
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** is the practice of constructing level areas at right angles to the slope to retain water.
* Good for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

