Soil-Loss Equation:

1. Using the “4d. Soil Erosion Introduction PPT” Complete the following descriptions:

Soil Degradation IS:

DESCRIBE the four types of WATER EROSION:

1. Rill Erosion:
2. Sheet Erosion:
3. Tunnel Erosion:
4. Gulley Erosion:

‘Salt Affected Soils’ are a form of *chemical degradation* that means:

1. Using “4c. The Human and Natural Causes of Soil Degradation,” choose and rank order in importance (and impact), the 8 most important causes of soil degradation.

|  |  |  |  |
| --- | --- | --- | --- |
| Rank | CAUSE | Description | Natural or Human? |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |
| 5 |  |  |  |
| 6 |  |  |  |
| 7 |  |  |  |
| 8 |  |  |  |

1. Summarize the factors in the ‘Soil-Loss’ Equation in the table below:

*(Use the 5a. Soil-Loss Factsheet, 5b. Textbook, and WATCH 5c. ‘The Soil-Loss Equation’)*

|  |  |
| --- | --- |
| Factor | Description |
| Ecological Conditions | |
| R = Erosivity of Soil |  |
| K = Erodability |  |
| LS = Length/Slope Factor |  |
| Land Use Type | |
| C = Crop Management |  |
| P = Soil Conservation |  |

1. Answer the following questions:

*What is the soil-loss equation?*

*Why is it important for those working in soil conservation?*

*What is the most fragile component of this equation?*