

Lab Report Template

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Project 2.2.2 Erosion investigation

Problem

What are possible ways to prevent excessive water erosion to soil?

Hypothesis

If cheese cloth is used to hold back soil, then the soil will erode less and water will still be able to move freely.

Materials

- Stream bed
- Catch Basin
- Stand
- Rainmaker
- 30ml graduated cup
- Cheese cloth

Procedures

1. Put on your safety glasses. Collect the streambed, catch basin, stand, rainmaker, 30 ml graduated cup, and a roll of plastic and bring these materials to your work area. Do not get any water yet.
2. Cover your work area with the plastic
3. With your group members, assemble the Stream Table
4. Fill 30 ml of water and start the control experiment
5. Complete 3 trials with the control
6. Remove the sand from the setup and replace it
7. Fold the cheese cloth into several layers and cut excess off from the edges
8. Begin the three trials
9. Clean up materials and analyze data

Data Collection



Pictures Top left to right: Trial 1 very little sand moved down the slope: trial 2 more sand has moved down slope: trial 3 this trial was skewed as the sand was too wet

Bottom pictures: These were the variable experiment as shown the cheese cloth stopped almost all of the sediment from landing in the basin.

Analysis of Results

While there was very little erosion to begin with the control and variable experiment had very different results. While the control had large sediment sitting at the bottom of the catch basin the cheese cloth was successful in blocking almost all of the sediment and all that was left in the catch basin was a small amount of sediment and the discolored water.

Conclusions

Based on the results of the experiment the hypothesis was supported, the cheese cloth prevented the excessive erosion of the soil but the water still moved freely.