

The Effect of Cover Crops on Soil Erosion

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Previous studies have shown that cover crops can have a positive effect on farmland such as fixing nitrogen to the soil and reducing soil erosion. (REF) The objective of this study was to see what would happen to a field with cover vs a field with no cover crop under 7 inches of rain water. My hypothesis is if soil with cover crops is exposed to water runoff it will reduce the mass of eroded soil because of the cover the leaves the plants will provide and the soil structure they provide. This was researched by growing a tub full of soil and growing cover crops in it and using a homemade drip line to pour water over it. The data suggests that cover crops will reduce soil erosion from rain.

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1. As a part of this research project, the student directly handled, manipulated, or interacted with (check all that apply):
 - human participants potentially hazardous biological agents
 - vertebrate animals microorganisms rDNA tissue

2. This abstract describes only procedures performed by me/us, reflects my/our own independent research, and represents one year’s work only.
 - yes no

3. I/We worked or used equipment in a regulated research institution or industrial setting.
 - yes no

4. This project is a continuation of previous research.
 - yes no

5. My display board includes non-published photographs/visual depictions of humans (other than myself)
 - yes no

6. I/We hereby certify that the abstract and responses to the above statements are correct and properly reflect my/our own work.
 - yes no

