

Testing the Effect of a Microbial-Based Soil Amendment on Aggregate Stability and Erodibility

Introduction	Met
 Soil erosion by water is a common soil degradation problem in the world. 	• Wa
 Minimizing soil erosion is essential for maintaining proper soil quality. 	•
• The erodibility of the soil is closely linked to its structural stability as well as its infiltrability.	• Cla
 Different amendment practices can be used to control soil degradation induced by water erosion 	
 Objectives To test the effect of a microbial-based soil amendment on soil aggregate stability and erodibility. To test the effect of the microbial agent's 	• Soi et a
carrier solution as well as a commercial gypsum amendment product.	1
Materials • Investigated agricultural soils Denmark • Flakkebjerg • Sandy loam (11% clay) • 2% organic matter • Risø • Sandy loam (14% clay) • 2% organic matter Tanzania • Mwanza region • Sandy loam (6% clay)	
 O.7% organic matter Soil treatments 	Res Wa
 Novozyme microbial-based soil improver (MICRO) 	80 -
 22.5 L/m³ dry soil 	60 -
 Microbial agent carrier solution (CAR) 	(%)
 22.5 L/m³ dry soil 	4 0 - S
 Gypsum powder from Yara A/S (GYPS) 	20 -
 1.5 g/kg dry soil (corresponding to 5 tons/ha) 	
 Untreated control soil (CON) 	



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