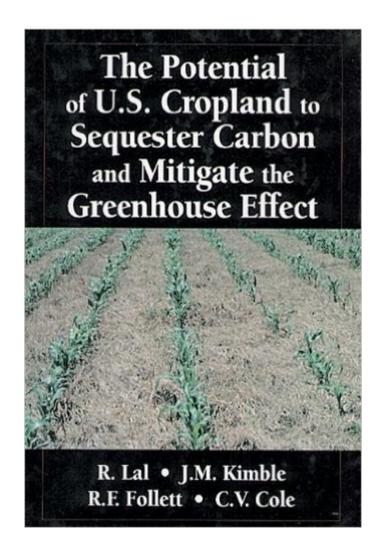
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The Potential Of U.S. Cropland To Sequester Carbon And Mitigate The Greenhouse Effect





Synopsis

This report assesses the potential of U.S. cropland to sequester carbon, concluding that properly applied soil restorative processes and best management practices can help mitigate the greenhouse effect by decreasing the emissions of greenhouse gases from U.S. agricultural activities and by making U.S. cropland a major sink for carbon sequestration. Topics include:Describe the greenhouse processes and global tends in emissions as well as the three principal components of anthropogenic global warming potential Present data on U.S. emissions and agriculture's related roleExamines the soil organic carbon (SOC) pool in soils of the U.S. and its loss due to cultivationProvides a reference for the magnitude of carbon sequestration potentialAnalyzes the primary processes governing greenhouse gas emission from the pedosphereEstablishes a link between SOC content and soil qualityOutlines strategies for mitigating emissions from U.S. croplandDiscusses soil erosion managementAssesses the potential of using cropland to create biomass for direct fuel to produce powerDetails the potential for sequestering carbon by intensifying prime agricultural landThe Potential of U.S. Cropland to Sequester Carbon and Mitigate the Greenhouse Effect provides an exceptional framework for the adoption of science-based management methods on U.S. cropland, encouraging appropriate agricultural practices for the sustainable use of our natural resources and the improvement of our nation's environment.

Book Information

Hardcover: 144 pages

Publisher: CRC Press; 1st edition (August 1, 1998)

Language: English

ISBN-10: 157504112X

ISBN-13: 978-1575041124

Product Dimensions: 6.9 x 0.5 x 10.5 inches

Shipping Weight: 15 ounces (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars Â See all reviews (1 customer review)

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