

## Agricultural Land Use, Economics and Climate Change

Guest Editors:

**Prof. Dr. Bruce A. McCarl**

Department of Agricultural  
Economics, Texas A&M  
University, College Station, TX  
77843, USA

**Dr. Chengcheng Fei**

Department of Agricultural  
Economics, Texas A&M  
University, College Station, TX  
77843, USA

**Dr. Jianhong Mu**

Texas A&M Transportation  
Research Institute, Texas A&M  
University, College Station, TX  
77843, USA

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### Message from the Guest Editors

Land use and climate change are complexly intertwined. Land provides food, fiber, timber, energy, ecosystem services, and biodiversity. Land productivity and processes are highly influenced by the climate, which is undergoing change due to factors including greenhouse gas fluxes. On the other hand, land is also involved with greenhouse gas fluxes, sequestering carbon, emitting gasses, and producing products that can replace commodities which are intensive in greenhouse gas emission. Thus, land is both influential in the drivers of climate change and is affected by the changing climate—a complex interrelationship. Land management can influence the interrelationship in two ways: it can reduce greenhouse gas net emissions, mitigating climate change; it also alters the practices or susceptibility of production systems to adapt to climate change, limiting the effects of climate change.

Research is needed in the domain of land use, land productivity, land-based greenhouse gas flux, climate change, and land management, because both future land use/productivity and the extent of climate change depend on land management and climate change interactions.



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Institute for Geosciences and  
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Sustainable Landscape  
Development, University of Halle,  
Von-Seckendorff-Platz 4, 06120  
Halle, Germany

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Land Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/land  
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