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Permission date

Photo

Website

www.fsl.orst.edu/lulcd/ (Land Use and Land Cover Dynamics)

Research Fields

- Atmospheric chemistry
- Biogeochemistry
- Carbon Footprint Analysis
- Climatology
- Community & Disaster Planning
- Data Analysis & Statistical Modeling
- Ecology & Ecosystem Management
- Economics
- Energy policy & technology
- Ethics
- Fire
- Forestry & Forest Management
- Geographic Information Systems
- Horticulture
- Human Impacts - economics
- Human Impacts - health
- Human Impacts - policy
- Hydrology
- Impacts - agriculture & horticulture
- Impacts - ecosystems, populations
- Impacts - physical
- Instrumentation
- Mitigation Policy
- Modeling Climate
- Modeling Ecosystems
- Modeling Socioeconomic Processes
- Natural Resource Policy & Planning
- Outreach & Engagement
- Paleoclimatology
- Paleoecology
- Physical Ecology
- Physiological Ecology
- Urban Ecology
- Water Policy & Planning
- Other...

Land Use Changes

Specific Research Interests

Key determinants of land use changes at large scales, and methods for projecting changes in natural resource assessments; climate change adaptation and mitigation options in forestry, and linkage to other policy options for land conservation

Projects

Effects of climate variability and change on land use, and the potential feedbacks of changes in land use to climate, for use in regional and national analyses

Selected Recent Publications

Alig, R.; Adams, D.; Joyce, L.; Sohngen, B. 2004. Climate change impacts and adaptation in forestry: responses by trees and markets. *Choices*. Fall: 7-11.

Alig, R., O. Krankina, A. Yost, and J. Kuzminykh. 2006. Forest carbon dynamics in the Pacific Northwest (USA) and the St. Petersburg region of Russia: comparisons and policy implications. *Climate Change* 79: 335-360.

Alig, R.J. 2003. U.S. landowner behavior, land use and land cover changes, and climate change mitigation. *Silva Fennica*. 37(4): 511-527.

Alig, R., D. Adams, B. McCarl, J. Callaway, and S. Winnett. 1998. Assessing effects of mitigation strategies for global climate change with an intertemporal model of the U.S. forest and agricultural sectors. *Environmental and Resource Economics* 9: 259-274.

Alig, R., D. Adams, and B. McCarl. 2002. Projecting impacts of global climate change on the U.S. forest and agricultural sectors and carbon budgets. *Forest Ecology and Management* 169: 3-14.

Professional Activities