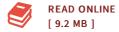# Simulating Historical Landscape Dynamics Using the Landscape Fire Succession Model Landsum Version 4.0 (Paperback)

By United States Department of Agriculture

Createspace, United States, 2015. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.The range and variation of historical landscape dynamics could provide a useful reference for designing fuel treatments on today s landscapes. Simulation modeling is a vehicle that can be used to estimate the range of conditions experienced on historical landscapes. A landscape fire succession model called LANDSUMv4 (LANDscape SUccession Model version 4.0) is presented here as a tool for estimating historical range and variation (HRV) of landscape characteristics. The model simulates fire and succession on fine scale landscapes for land management applications. It simulates vegetation development as a deterministic process by changing the species composition and stand structure assigned to a polygon. Disturbance initiation is modeled stochastically and disturbance effects are based on the current vegetation conditions of the polygon. Details of all model algorithms are discussed and the model is demonstrated for two applications. Results of an extensive sensitivity and model behavior analysis are also presented.

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