



## **Cumulative Landscape Assessment & Restoration Planning Using the Landscape Toolbox**

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Protecting or improving rangeland condition requires comprehensive landscape management strategies. The Nature Conservancy - Idaho is working with private and public land management partners to develop a set of tools, the Landscape Toolbox, which will enable better rangeland management by integrating existing and emerging methods to address challenges land managers face working at landscape scales. The Landscape Toolbox consists of 3 major components: Multi-scale Landscape Assessments, Cumulative Landscape Assessment & Restoration Prioritization, and Landscape Visualization. Specifically, the Cumulative Landscape Assessment & Restoration Planning component provides tools for managers, biologists, and planners to use dynamic models to investigate how landscapes may change over time in response to different management or disturbance scenarios. Ecological site-based State and transition models are used to characterize vegetation communities. These models are then examined via non-spatial and spatial analyses to provide information on a suite of rangeland management questions. We present preliminary results for two case studies currently underway in Idaho. Management implications and future planning applications will also be discussed.

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