Creating an Effective & Efficient Conservation Strategy

Landscape Conservation Forecasting ™

Problem Statement

In a complex landscape, how do you choose the restoration strategy that provides the most benefit for the available budget?
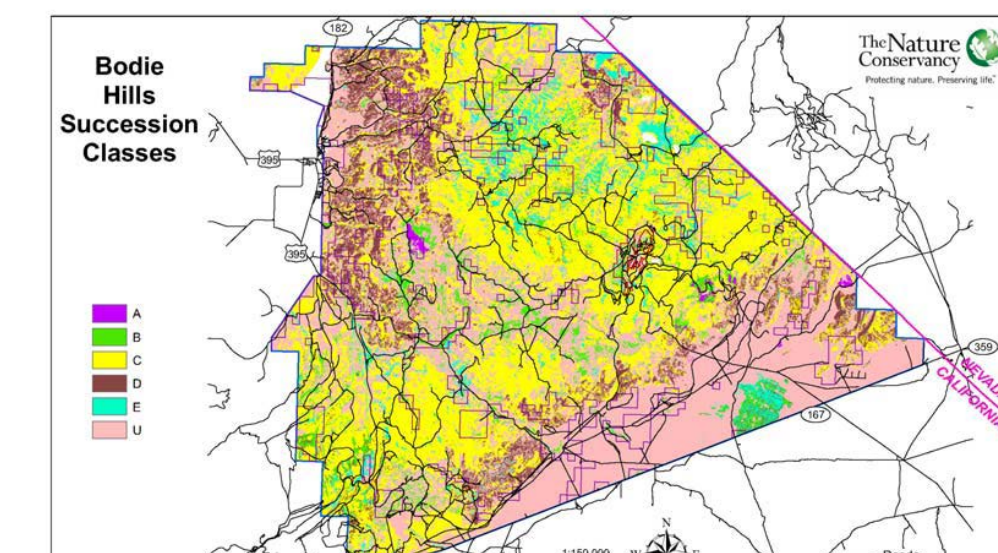
Landscape Conservation Forecasting ™

Landscape Conservation Forecasting (LCF) can help planners and stewards identify a set of restoration strategies that provides the most bang for the buck!
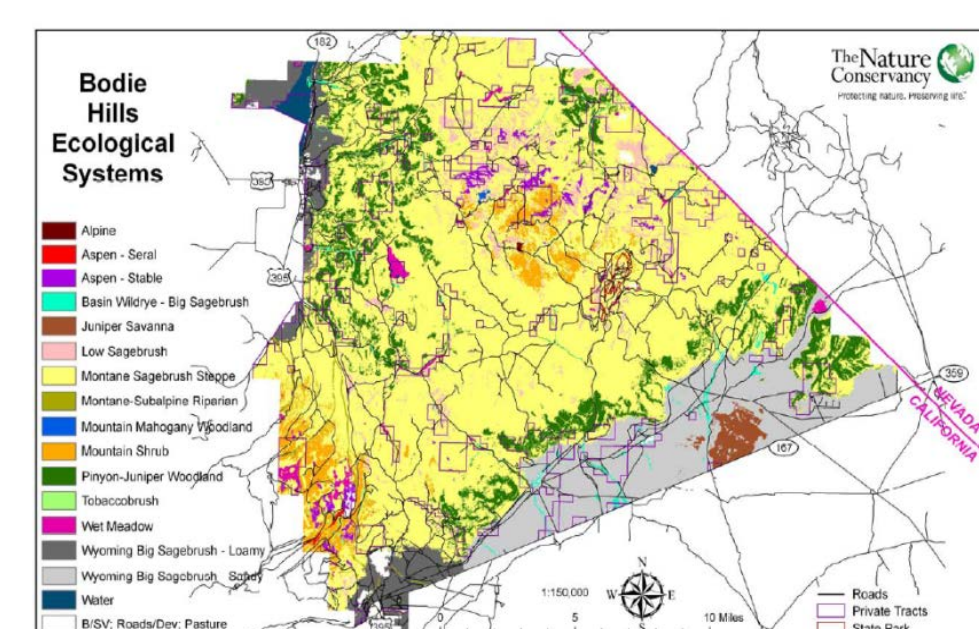
LCF was developed by the TNC Nevada Field Office (Louis Provencher, Greg Low and Susan Abele) with assistance from the TNC LANDFIRE Team

LCF works by using public domain tools to forecast how various activities and environmental changes impact the departure from desired future conditions for a series of restoration targets, with associated costs so funding needs and available budgets can be considered.

LCF Example-Bodie Hills

Map of Historic Conditions on the Bodie Hills Landscape

Identify targets, and assemble or create historic or desired conditions

Reference Condition Vegetation Model in VDDT/Path

Map of Current Vegetation Seral States
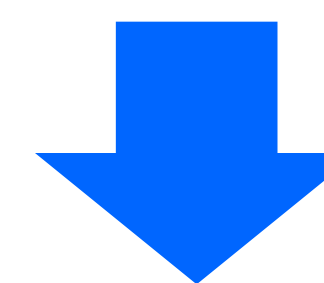
Assemble or create current landscape information, including potential management activities and costs

Local Experts Discussing Current Conditions, Management Options and costs

Current Departure From the Desired Condition
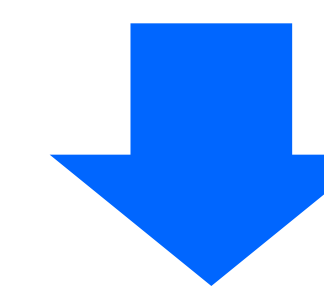
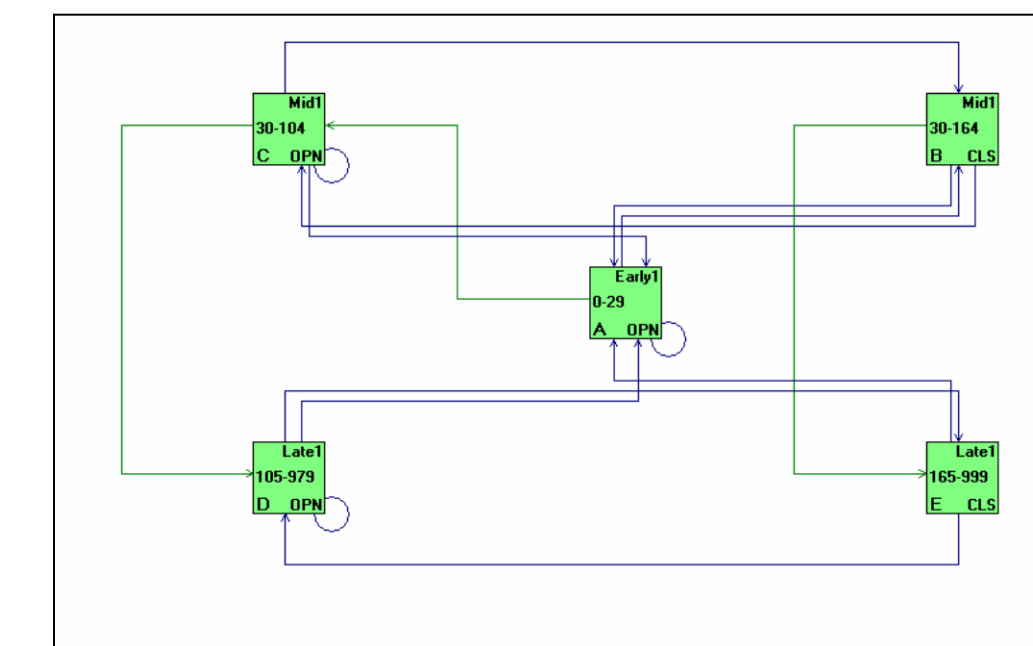Compute current departure from historic or desired conditions

Current degraded condition on the landscape

Map of Historic Conditions
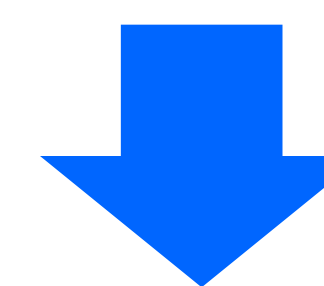
Revise models to incorporate potential management activities and costs, and rerun them for a planning period

VDDT/Path Model Modified to Include invasive species and potential management options

Restoration Benefits for the Focal Targets

Recalculate departure for the various strategies with their associated costs, compare and identify the most effective and efficient suite of actions
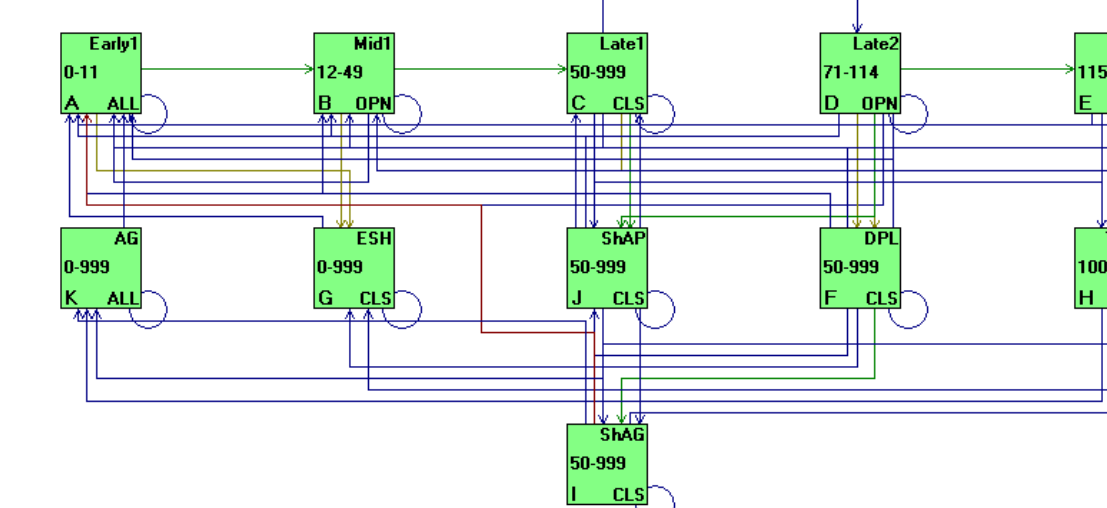

Final Set of Effective Restoration Strategies

Who Has Used LCF?

- Bodie Hills BLM
- Great Basin National Park
- Dixie-Fishlake National Forest
  - Fremont Ranger District
  - Powell River Ranger District
- Cherokee National Forest
- Nevada Field Office/TNC
- Tennessee Field Office/TNC

Questions?
Comments?
Suggestions?
Follow-up Contact?

Please let us know with a Post-It or a comment here!

The Nature Conservancy — Protecting nature. Preserving life.™

LANDFIRE