Adaptive Management Set-Up Phase Step 3: Management Actions







Characteristics of useful actions

- Span a sufficient range of system responses and produce different outcomes
- Feasible within legal, fiscal, and socio-political constraints
- Limited in number to:
 - Facilitate analysis
 - Enhance learning
 - Minimize costs
- Under reasonable control of the manager

Actions: take-home messages

- Objectives answer "Why?" Management actions answer "How?"
- A useful set of possible actions requires interaction among stakeholders, managers, and scientists
- Useful actions are limited in number, and span the range of desirable outcomes and maximize differences in system responses
- As with objectives, the set of actions may not be immediately obvious

Adaptive Management Alternatives and NEPA

Management Actions

- Management Actions are the NEPA Alternatives that must be developed
- The range of alternatives is limited by the purpose and need for action
- If the purpose and need statements are written too narrowly then they will constrain the number of alternatives that can be considered.

Actions and Alternatives

- Stand Alone Actions or Suites of Actions
- Suites of Actions:
 - Spatially Separated
 - Temporally Separated

Spatially Separated Actions

- Case Study 4:The Five Rivers Landscape Management Plan
- Used a suite of different prescriptions in different areas:
 - Passive Management
 - Light Touch Thinning
 - Heavy Thinning

Temporally Separated Actions

- Actions that take place in a sequential order based on monitoring results
- Deer/Forest Example
 - Reduce Deer Density (and monitor for results)
 - Reduce insect infestation (while maintaining deer)
 - Conduct timber thinning
 - Implement prescribed burns

Temporally Separated Actions

 Each action is testing the limiting factors of forest regeneration over time informed by monitoring.

NEPA Analysis

- Predict and analyze environmental impacts of all actions, including future actions that may be implemented based on monitoring data
- Thoroughly analyze any cumulative or synergistic effects
- Clearly articulate how and when changes to management actions will likely take place (i.e., develop a framework)