

Ecosystem Management Elements Presentation 6/18/01



Inventory Understanding what we have

What are the existing conditions?

Is the site part of a larger system?

What are the natural resource functions and values associated with the site or system?

Research Site History Geology/ Soils Topography/ Aspect Land Use/ Easements Field Inventory (vegetation, condition, wildlife, uses) Site Mapping (GIS) Connectivity Analysis

Desired Future Condition Adopting a target community

What is the historic community type? Is the historic community viable? Should a modified community type be adopted? Historic Vegetation Communities Historic-current conditions (Have components been substantially altered? Can functional values be enhanced?)

Assessment: What are the significant gaps between the Current and Desired Future Condition?

What is stressing the site? What opportunities are available? What are the priorities for action?

Stresses (invasive plants, surrounding land uses, erosion, changes in hydrology, human uses – uncontrolled pets, bicycles off trail)
Opportunities (restoration, enhancement, acquisition)

Prescription: planning for Intervention

What should happen? (active intervention, policy change, monitoring)How should success be measured? (benefits, criteria for success, measuring and monitoring)What are the steps related to the action? (who-what-when, public involvement, inter-agency collaboration, consultants, permits, other requirements)

How could the action be funded?

Intervention Actually doing the project

Doing the project (e.g. ivy removal, native planting, acquisition) Maintaining a record

Monitoring: Recording change and looking for results

Establishing monitoring protocols Collecting and comparing data Interpreting results Loop back to assessment Example: in a riparian planting monitor for Plant survival Native species ratio Water temperature Sediment

Outputs

An up-to-date ecosystem inventory A description of desired ecological conditions A basis for decision making and budgeting A detailed record of our interventions A consistent way to evaluate our work