

Monitoring Definitions

- * Inventory a detailed list of natural resources.
- Survey a sampling of facts, figures or opinions taken & used to indicate what a complete collection & analysis might reveal
- Sample a small part of or a selection from something, intended to show the nature of the
- Census an enumeration of the whole population. CSS 496

Monitoring Definitions

- * <u>Surveillance</u> a continuous watch kept over someone or something, without their knowledge
- * Baseline a "mythical" standard or level or value that serves as a comparison or control (Often erroneously assumed to be the true natural condition)
- Pulse a single, multifaceted assessment of
- Keystone Species a species typically at the top of the trophic level which is thought to be adversely

Definitions

- * Indicator Things which we can measure that tell us if desired resource & social conditions are changing because of human use.
- Indicator Species -- a plant or animal that indicates by its presence in a given area the existence of certain environmental conditions.
- Monitoring the systematic observation of indicators to assess whether desired conditions are being attained. (Webster's -- to watch, keep track of, or check usually for a special purpose)

prevailing natural conditions, attitudes or sentiment affected by a variety of impacts in its environment CSS 496

Long-term vs Short-term Monitoring

- * Short-term monitoring is done to assess the consequence of managment actions & determine if objectives are being met.
- * Management oriented
- * Site specific
- Quick detection

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Short-term Monitoring Purposes

- * To satisfy legal mandates & directives
- * Determine if mgmt. actions are achieving objectives.
- * Identify unintended consequences of mgm
- * Provide information to justify corrective mgmt. actions
- * Evaluate effects of activities on specific resource conditions

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Long-term Monitoring

- Long-term monitoring normally extends more than 10 or 15 years.
- Is done to provide information on overall ecosystem health and trends.
- * Science oriented in purpose.
- * Also done to characterize an entire area.



Long-term Monitoring Purposes

- Identify long-term unidirectional or cyclic changes in ecosystems or ecosystem variables
- Collect info on functional relationships between ecosystem components
- Determine assimilative capacity of habitats (e.g. how much impact can be absorbed?)
- Establish "baseline" information to compare against unforeseen new impacts

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Why Monitoring Programs Fail

- * Unclear Purposes
- * **Abandonment** initial measurements never repeated.
- * Sloppy Field Techniques poor initial documentation of sites, inadequate protocols, lost sites, untrained staff, boredom.

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Why Monitoring Programs Fail

- * Complicated or Specialized
 Equipment Technical expertise or
 documentation lacking, equipment
 breakdown & obsolescence.
- * **Data Pile-Up** accumulates with no analyses.
- No Action Taken data never used in decision making.

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