







Coping with uncertainty

- Soulé (1990) identified 3 key issues for conservation
 - 1. Effects of predictable & various chance events
 - 2. Time frame used in planning
 - 3. Degree of security sought
- First requires scientific solution, 2 & 3 are society value judgments (cultural, socio- economic & political dimensions)















STEP 2

Clearly define the problem

- Develop a conceptual model to identify the ecological issues and hazards.
- Identify assessment (objective) and measurement (performance) endpoints. For example:
 - maintenance of biodiversity (ecological endpoint)
 - % cover of mimosa on a wetland (measurement endpoint)
- Construct an assets & threats matrix to guide risk assessment basically a one page check list.













Quantitative Ecological Risk Assessment Quantitative risk assessment is estimating the probability of an adverse event Two components of risk Basically a frequentist approach Effect consequences of adverse event Exposure likelihood of exposure to adverse event

























Managing Landscape Risks Take Home Messages

- Involves making choices
 - how much management intervention at what cost (\$)?
 - what benefit is delivered?

• Challenge is to make choices that are

- sensible
- pragmatic
- defensible
- Requires benefits & costs to be balanced
 - much focus worldwide is on "activity-based" management
 - need to focus on "damage-based" mge within a budget
 - so need to embed socio-economics into risk frameworks



Role of Workshop Facilitators & Participants

Address the focus Park management questions by:

- Considering the issues, questions & recommendations posed by landscape presenters.
- Identifying what questions managers & Traditional Owners want answered to help guide future research and management.
- Reviewing how identified threats are currently being managed and at what cost (environmentally & budgetary).
- Making suggestions for improvement.
- Identifying additional key knowledge gaps needed for effective resource management.