

Wildlife Program Amendments

Joint Technical Committees and Members Advisory Group Amendment Strategy Workshop



Full Mitigation?



2000 Program Objectives

- Quantify wildlife losses due to construction, inundation, and operations
- Develop and implement habitat projects
- Coordinate with fish mitigation and restoration
- Maintain existing and enhanced habitat values
- Monitor and evaluate habitat and species responses to mitigation actions

2000 Wildlife Program Attributes

- Habitat Evaluation Procedure (HEP) measured wildlife losses.
- Only construction and inundation losses are currently being addressed.
- Impacts summarized as habitat units (HU)
- Created "ledger" (Table 11-4)





HEP 101 What does HEP assess?

HSI Model: Black-capped Chickadee



HU = # acres x HSI (measure of habitat quality on a scale 0 to 1)

Limitations of HEP for Columbia Basin Hydosystem Impacts

- Little record of vegetation communities prior to dam construction
- Highly simplistic models fail to capture complexities of losses
 - Single species focus often prioritized wrong species for management & restoration
 - Models applicable to NW often not available
 - Some out-of-place, out-of-kind mitigation contained habitats not considered in the loss assessments
- Inconsistent assessments across basin

Priority Wildlife Amendment Issues

- Crediting including Addition of Secondary and Operational Losses
- Operations and Maintenance
- Monitoring and Evaluation



Crediting

- 2000 Program
 - "...Bonneville and the fish and wildlife managers should complete mitigation agreements for the remaining habitat units. These agreements should equal 200 percent of the habitat units (2:1 ratio) identified as unannualized losses of wildlife habitat from construction and inundation... This mitigation is presumed to cover all construction and inundation losses, including annualized losses"

Crediting –Program Language cont'd

- 2000 program
 - "An assessment should be conducted of direct operational impacts on wildlife habitat. Subbasin plans will serve as the vehicle to provide mitigation for direct operational losses and secondary losses"



Crediting – Current Concerns

- BPA does not recognize the 2:1 crediting ratio.
- MOAs with BPA have stressed 1:1 crediting ratio.
- Operational losses have not been addressed.

Crediting Concerns - cont'd

Issue of "credit" for non-wildlife projects

- No loss ledger for fish habitat
- May not meet priority wildlife needs

 Disagreements on current application of credits (location and amount)



Crediting - Recommendations

- Incorporate crediting ledger into the program and establish regional oversight committee to track the crediting ledger
- Address disagreements on protection credits and annualization (2:1 ratio)
- Develop O&M agreements to sustain credited habitat values for life of project
 - Condition crediting on adoption of long-term O&M agreements

Crediting - Recommendations

 Develop ecosystem-based framework for measuring operational losses and credits

Resolve in-lieu/match fund issues

Resolve crediting of secondary impacts

Operations and Maintenance

2000 Program

- "maintain existing and credited habitat values"
- BPA and applicable managers propose for Council adoption, maintenance agreement adequate to sustain minimum habitat values for the life of the project

1995 program

 "Within three years following adoption of this program, develop long-term agreements for all wildlife mitigation" including a funding level likely to achieve stated objectives

O&M - Current Concerns

- Council concerned over variable O&M costs
- Current project funding based on historical allocations
- Lack of long-term agreements
- Annual contracts lead to inefficiencies
- Confusion of O&M versus enhancement

O&M - Requirements

Managers need adequate, stable O&M budget to maintain baseline conditions and the flexibility to adapt to changing needs on the landscape



O&M Recommendations

- BPA should develop a funding mechanism, outside existing prioritization process, to assure:
 - 1. Long-term, stable funding
 - 2. Maintain proper ecological functions
 - 3. Address known and unforeseen external threats (e.g. invasives, wildfires, etc)

Wildlife Monitoring and Evaluation 2000 Program Scientific Principles

- #1. The abundance, productivity and diversity of organisms are integrally linked to the characteristics of their ecosystems. ...
- #5. Species play a key role in developing and maintaining ecological conditions. ...
- #6. Biological diversity allows ecosystems to persist in the face of environmental variation. ...

Wildlife M&E – Current Concerns

- M&E largely limited to HEP Assessments
- HEP does not determine if desired habitat or ecological conditions are attained
- Most wildlife M&E not funded.

 No support to participate in regional monitoring programs (e.g. State conservation strategies).

Consequences of no M&E

- Cannot measure success of the habitat strategy.
- Little feedback for adaptive management.
- An inefficient use of resources (funding and staff time) - lack of data to direct and inform management decisions.
- Few data that link to regional or basin-wide monitoring efforts.

Wildlife M&E - Recommendations

- M&E needs based on management plan objectives
- M&E needs to be adequate to:
 - Track crediting
 - Track trends in ecological functions and restoration effectiveness
 - Complement larger scale efforts
 - Focus on status/trend and effectiveness
 - Use reference sites to define habitat objectives
- Transition from HEP to new paradigm (IEI, CHAP, etc)