Policy Implementation in British Columbia, Canada

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Objectives of Research and Analysis

- Extent of provincial policy incorporation into environmental assessments
- Steps of the mitigation hierarchy prioritized for species at risk
- Avoidance type for species at risk





Mitigation Hierarchy





Species at Risk in Canada

- Committee on the Status of Endangered Wildlife in Canada (COSEWIC)
- Species added to Schedule 1 of Species at Risk Act (SARA)
- Critical habitat identified for Threatened and Endangered species



Best Case Scenario Mitigation Hierarchy





Best Case Scenario Avoidance





Methods – Policy Integration

 Reviewed publically available projects from BC Environmental Assessment Office (EAO)

- Determined percentage of EAO documents with policy citation
- Reviewed proponent documents for species at risk

Determined percentage of proponent documents with policy citation

Methods – Adherence to Mitigation Hierarchy

- Did not further consider species without project interaction or residual effect
- Categorized mitigation according to hierarchy for:
 - Species specific mitigation (e.g. olive-sided flycatcher)
 - Group specific mitigation (e.g. migratory birds)
 - Generic mitigation (e.g. restoration on-site through reclamation)
- Determined percentage of application of each mitigation step



Sample Sizes

- 60 EAO documents (28 projects)
- 54 proponent documents (17 projects)
- 24 threatened and endangered species (1 amphibian, 2 plants, 5 fish, 7 mammals, 9 birds)



Percent of Documents with Policy Citation





Percent of EAO Documents with Citations





Percent of Proponent Chapters with Citations





Best Case Scenario Mitigation Hierarchy





Adherence to Mitigation Hierarchy





Best Case Scenario Avoidance





Prevalence of Avoidance Types





Mitigation Hierarchy According to Group



■ Raptors (n=5) ■ Migratory Birds (n=20) ■ Mammals (n=18) ■ Fish (n=3)



Avoidance According to Group



■ Raptors (n=5) ■ Migratory Birds (n=20) ■ Mammals (n=18) ■ Fish (n=3)



Mitigation Hierarchy According to Status



Endangered (Schedule 1) Threatened (Schedule 1) Endangered (COSEWIC)



Avoidance According to Status



■ Endangered (Schedule 1) ■ Threatened (Schedule 1) ■ Endangered (COSEWIC)



Conclusions

- Policy incorporation
 <50%
- Minimization prioritized over avoidance
- Avoidance is primarily timing and not spatial
- Increasing expectation of spatial avoidance as priority would benefit species at risk



