

# CONSERVATION PLAN OUTLINE



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# Conservation/Recovery Plans

## Cetaceans

- **Recovery Plan for the Blue Whale**
- **Final Recovery Plan for the Humpback Whale**
- **Final Recovery Plan for Northern Right Whale**
  - **Updated Recovery Plan for the Western North Atlantic Right Whale available**
- **Draft Recovery Plan for the Fin and Sei Whale**

## Pinnipeds

- **Final Recovery Plan for Steller Sea Lions**
- **Recovery Plan for the Hawaiian Monk Seal**
- **Conservation Plan for the Northern Fur Seal**

[www.nmfs.noaa.gov/prot\\_res/PR3/recovery.html](http://www.nmfs.noaa.gov/prot_res/PR3/recovery.html)



# Conservation Plan Outline: a sample “Table of Contents”

- Review of existing Conservation/Recovery Plans
- Comprehensive list of topics taken from various plans, status review, public comments received, Orca Recovery Conference Report



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# INTRODUCTION

- Regulatory framework for depletion designation
- Conservation plan components
  - Site-specific management actions
  - Objective measurable criteria for removal of depleted designation
  - Estimates of time and cost of conservation measures
- Guidance from Congress
- Introduction to OSP



# BACKGROUND

- Species description
- Status of Stock: Depleted
- Taxonomy
- History of Exploitation
  - Directed fisheries/Commercial harvest
  - Subsistence harvest
  - Live capture fisheries
- Protective Legislation

*Information available from Status Review-  
Krahn et al 2002*



# NATURAL HISTORY

- Distribution
- Genetics
- Habitat requirements/Habitat use
- Abundance/Population trends/Population dynamics
- Reproduction/Social behavior/Competition
- Natural Mortality/Survival
- Diving Behavior
- Feeding Ecology/Energetics

*Information available from Status Review-  
Krahn et al 2002*



# KNOWN AND POTENTIAL FACTORS AFFECTING THE POPULATION

- Natural factors
  - Emigration
  - Diseases and parasites
  - Predation
  - Environmental change
  - Prey availability/abundance
  - Reproduction
- Human impacts
  - Incidental take
  - Prey availability
  - Vessel effects
  - Marine debris/Entanglements
  - Coastal development
  - ***Pollution/Water quality***
  - Military operations
  - Current impacts of past events



# Pollution/Water quality

*Current information from public comments and Orca Recovery Conference were used to provide detail of topics in outline*

- Chemical Contaminants
  - Fertilizer, pesticides, cleaning products, pet waste, depleted uranium, creosoted pilings, railroad ties
  - Oils spills, petroleum, fossil fuel discharges, exhaust
  - Bio-accumulation of persistent chemicals, heavy metals
    - Contaminant effects on Reproduction
- Agricultural run-off



# CONSERVATION ACTIONS AND IMPLEMENTATION

- Goals and objectives
  - Summary of site-specific management and research actions
  - Criteria for determining conservation
- Step-down outline
  - Outline of actions
- Narrative
  - Detailed descriptions of actions



# APPENDIX: IMPLEMENTATION SCHEDULE

For each action in the step-down outline:

- Priority levels
- Duration of actions
- Responsible parties
- Costs

