





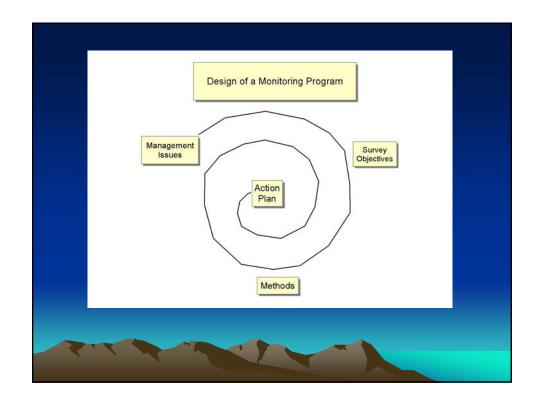
Outline of the North American CBM Plan

Appendices Target species Current programs Design of bird surveys Agency roles

## **Regional CBM Plans**

- 1. Comprehensive description of bird monitoring activities for an organization or region
- 2. Help increase efficiency and utility of bird monitoring programs by improving coordination
- 3. Prepared by States, BCRs, agencies
- 4. Describes participation in long-term and short-term projects
- 5. Includes aquatic area survey protocols
- 6. Updated frequently to reflect current short-term projects

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# Survey Objectives

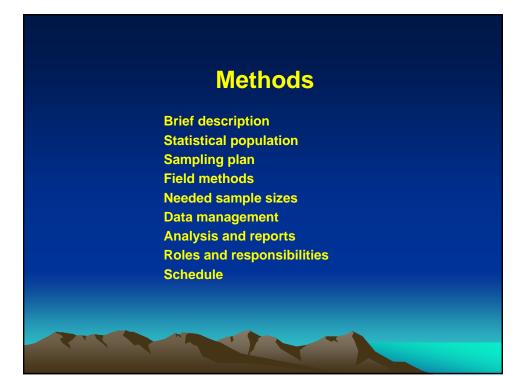
Study area Study period Species Biological population Parameters Accuracy target

# Example: Importance of aspen in the intermountain west

Mgmt. Issue: Aspen stands are breaking up; the FS is concerned but doesn't know how much effort to expend; importance of aspen to birds is unknown but would help them decide how much effort to make on conserving aspen. Product needed: inventory to estimate abundance of aspen-dependent birds in aspen stands thru-out the IW.

#### **Survey Objectives**

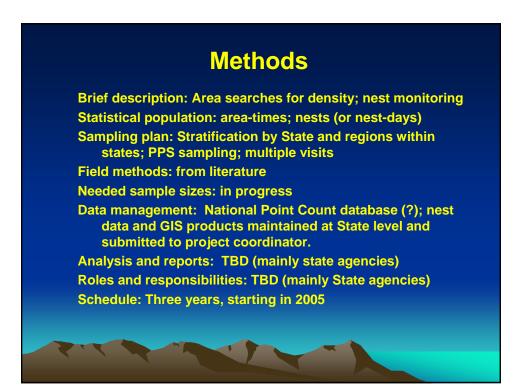
Study area: Aspen stands in the IW Study period: Breeding season Species: (list) Biological population: Territorial birds Parameters: Density and population size for the study area Accuracy target: CVs < 0.25



#### **Example: ID of forested areas to protect in the mid-Atlantic States**

Mgmt. Issue: Forested areas are a high priority for protection in the mid-Atlantic States but better methods are needed to identify site of highest value to birds. Product needed: description of high and low quality habitat.

Survey Objectives: Study area and period – forested areas in the mid-Atlantic region during the breeding season; species – list; biological population: territorial birds; parameters – density and nesting success; acc. target: CVs < 0.25 (tentative).



### Interior Least Terns (and...?)

Management Issues (from the 2003 Biol. Opinion):

- 1. Collect information needed for consideration of delisting, especially population size and productivity by sub-region (inventory)
- 2. Estimate take (inventory)
- 3. Evaluate effects of flooding (project evaluation)
- 4. Design habitat-creation projects (habitat quality)
- 5. Reduce human disturbance (project evaluation)

# Survey Objectives: Population size, productivity, take

Study area: All areas used for nesting by ILTs (others?)
Study period: Breeding season, through nest departure
Species: ILTs, PIPL?, SNPL?, AMAV? Others?
Biological population: Breeding birds, non-territorial birds?
Parameters: Density (and thus population size), nest success, take
Accuracy target: TBD (CVs < 0.10?) [Biol. Opin. implied</li>

complete counts, thus CVs = 0]

### **Methods**

Brief description: area searches, nest-monitoring Statistical population: area-times; nests (or nest-days) Sampling plan: Stratification, rest TBD Field methods: From past ILT work and literature Needed sample sizes: TBD based on analysis of past data Data management: ??? Analysis and reports: ??? Roles and responsibilities: ??? Schedule: ???