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Research on Wildland Visitor Inventories for Management Communications

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Wildland Visitor Inventories for Management Planning and Communication

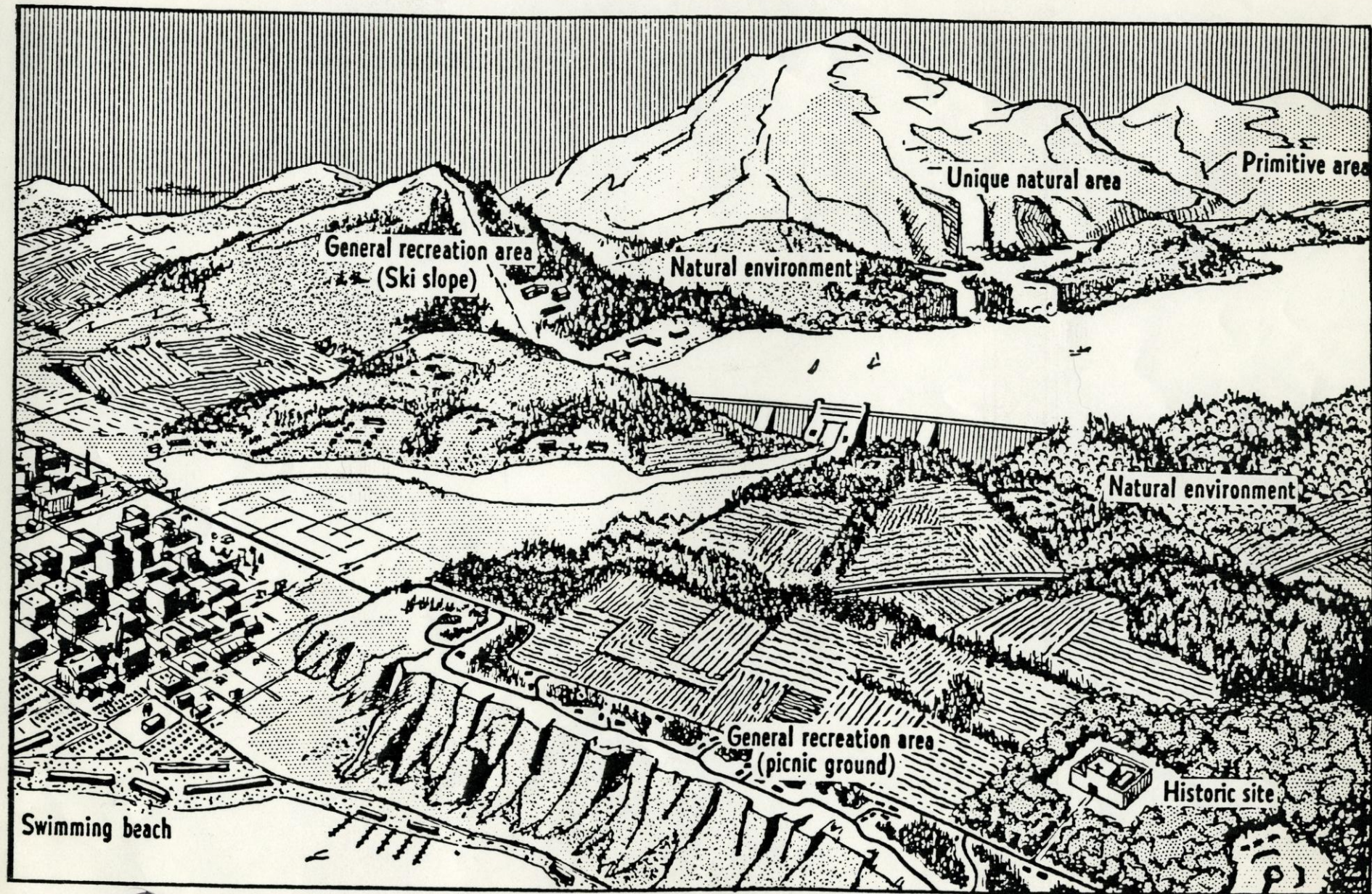
- Today discussing 2 Cache River visitor studies done in 2006: Heron Pond and Wetland Center
- The studies are called Rapid Assessment Visitor Inventories (RAVI)
 - Designed to obtain a representative sample of visitors to a specific place or area rapidly and inexpensively
- RAVI's are 4-day studies to sample visitors one weekend (Sat., Sun) plus 2 weekdays for comparison
 - Represents 1 of 13 weekends in a season (spring, summer, etc.)= 7.7% sample of seasonal visitors

- RAVI's have a simple study format
 - Visitor counts, one-page surveys, short reports (7-8 pp)
 - Useful for communications by field level managers with community members/groups, interest groups, other management organization members, etc.
- These 2 studies are part of a long-term program of visitor inventory research (both large-scale and small-scale studies) since 1972
- Inventories are basic to all types of management
 - What are we working with?
 - Amounts, locations, etc.

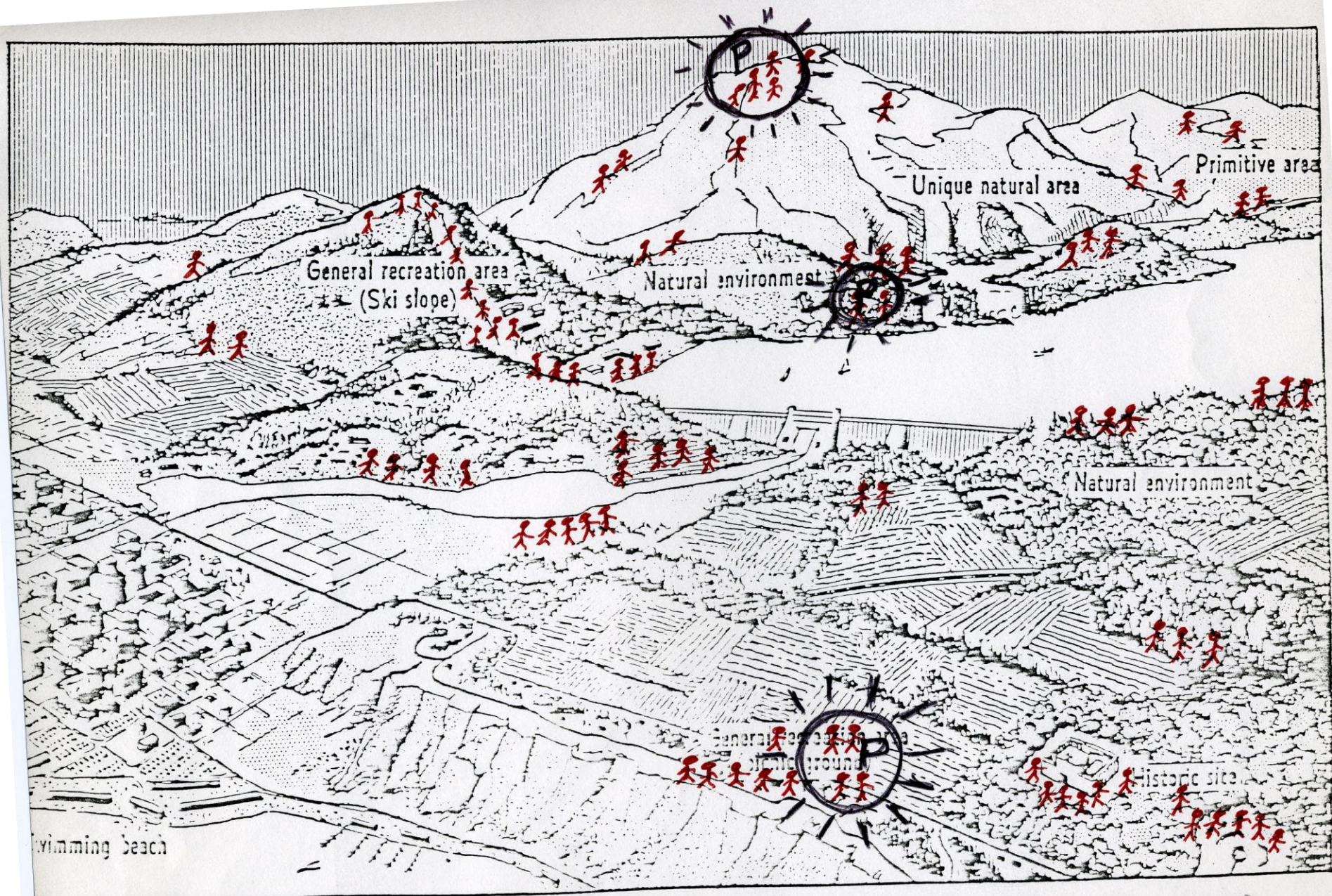
Methods

Wildland recreation areas are often large and diverse

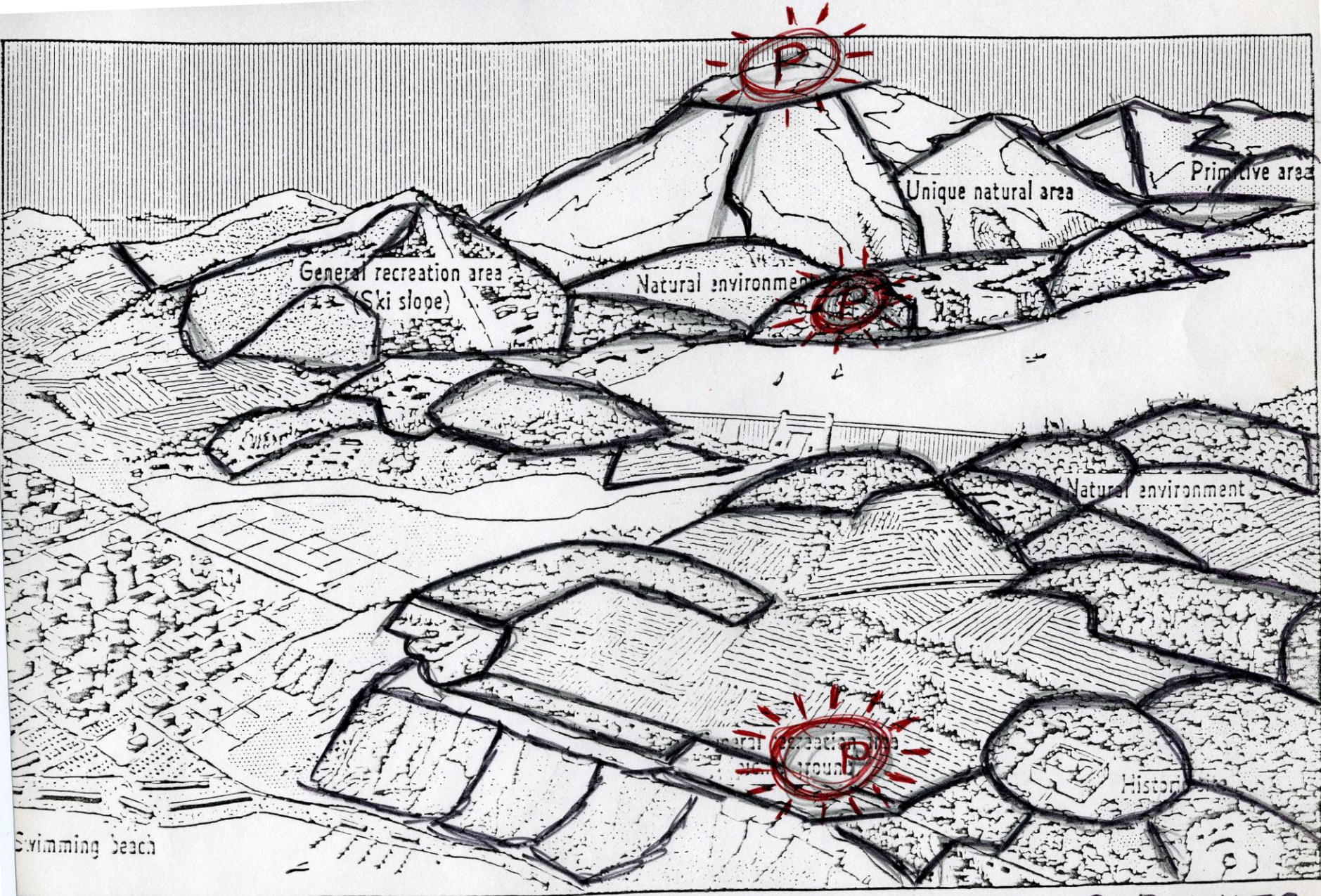
- Useful to examine other resource inventory methods (timber management, wildlife management)
- My background:
 - 2 years USFS Timber Inventroy, California
 - Then M.F. degree at University of Michigan, thesis: Timber Inventory methods
 - Then 6 years ranger district management at California Sierra- increasing recreation use, increasing management communications
 - Then PhD studies at University of Michigan, focus on management decision-making



① WILDLANDS AS LARGE AREAS, DIVERSE
- RECREATION USES ALSO DIVERSE



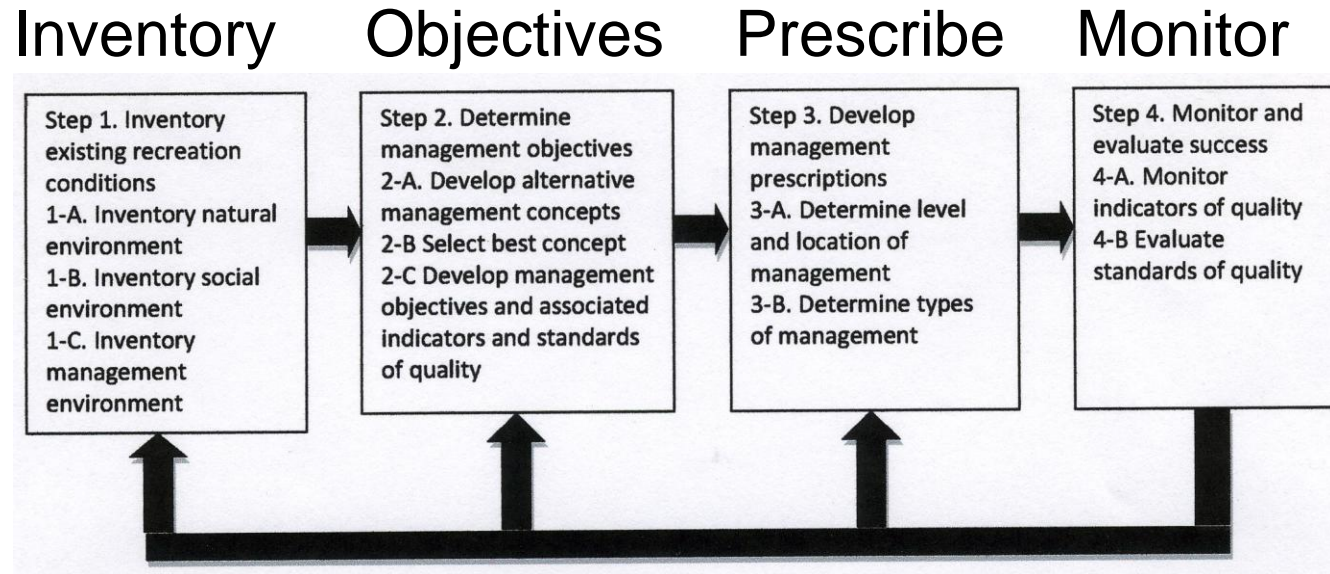
③ RECREATION VISITORS WIDELY DISTRIBUTED
- MGMT. PROBLEMS OCCUR AT VARIOUS SITES



④ MANAGERS CLASSIFY, MAP MGMT. SUBUNITS
 — " USE INVENTORIES OF SUBUNITS FOR DECISION

R. Manning, Studies in Outdoor Recreation

- A literature review of recreation research, 2nd edition, 1999



An outdoor recreation management framework.

- “Management of outdoor recreation begins with an inventory and assessment of recreation conditions: natural environment, social, and managerial.” P. 282
- “The major emphasis is to obtain systematic and objective information from and about visitors.” P. 284

Visitor inventory methods developed during 30 years of research on large-scale areas:

- Ozark National Scenic Riverways in Missouri- 134 miles, 2 rivers (research program 1972-2002)
- Lake Tahoe Basin in California- 100 square miles of forest lands around Lake Tahoe (1979-1989)
- Corps of Engineers lakes (1989-1999)
 - Example: Table Rock Lake- 75 miles long
- Lusk Creek Wilderness in Shawnee National Forest- 10 square miles, year long study (2003-2004)

From these studies developed a Recreation Visitor Inventory/Monitoring System (RVIMS)

- For large-scale areas, identify subunits
- Identify travel pattern concentrations (TPC's) on subunits
- Sample by 13-week seasons (spring, summer, etc.)
- Do counts, one-page surveys at subunit exits

Began small-scale inventory studies (RAVI's) in 2004

- To provide fast, inexpensive assessments for managers to use in decision meetings
- Essentially one weekend plus 2 weekdays in a 13-week season= 7.7% sample
- Since 2004 have done 16 RAVI's for 6 management agencies in 4 states.

Also utilized the social science research method participant observation, negative case analysis (Kidder, 4th ed. 1981)

- Worked with managers on what visitor data most useful and how visitor data is used
- Reported as comparative case studies

Results

From the RVIMS research, we identified a 4-step process to describe how RAVI's are done

- Useful for managers to communicate how a RAVI was done as well as what data was collected

The 4-step RAVI process:

- Step 1- Design the study
- Step 2- Data collection
- Step 3- Data analysis and reporting
- Step 4- Discussion of data with managers

RAVI 4-step process for Heron Pond

Step 1- DESIGN THE STUDY

A. Identify concerns/questions

-Are there visitor concerns?

B. Examine study area

-Identify Heron Pond trailhead for sampling

C. Develop sampling plan

-Thurs.-Sunday, Oct. 12-15, 2006: 9am-4pm

D. Develop count forms and questionnaires

-From previous study examples

Step 2- DATA COLLECTION

A. Train data collectors

-Not necessary here, but done by researcher

B. Do counts and interviews

-Counted 40 groups, total 152 visitors, group size 1 to 26

-Did 29 interviews, 9 groups had not returned, 2 passed by during interview

-3 Thursday, 3 Friday, 11 Saturday, 12 Sunday

Step 2- DATA COLLECTION (continued)

B. Do counts and interviews (continued)

- Survey responses reported by the 9 sections of the one-page survey

C. Data coding and entry

- Optional, can easily tabulate responses for small studies

Step 3- DATA ANALYSIS AND REPORTING

A. Tabulation of counts and interviews

- Data displayed in descriptive enumerative paragraphs

B. Prepare maps of user distribution

- Not done for Heron Pond, but useful for some meetings

C. Prepare preliminary report

- Eight page report to summarize results of counts and surveys

Step 4- DISCUSSION OF DATA WITH MANAGERS

A. Are data, methods clearly understood?

-Brief discussion but appeared clear

B. Implications for management issues

- No particular issues Heron Pond, visitors appreciative of facilities and area

C. Develop plan for monitoring remeasurements

-Not done at the time

D. Prepare the final report

- No corrections or revisions requested, ready for distribution

Discussion

So what did we learn from the 4-day visitor studies at Cache River area?

- Heron Pond- 29 interviews
 - 28 rated satisfaction 8 or higher on a scale of 10
 - Noted improvements- trail, boardwalk
 - Comments section- some minor improvement suggestions

Jim Waycuilis, area manager, not looking for “problems” or “answers” but ways to maintain a high quality experience

RAVI methods easy to apply, Wetland Center data collection and report writing done by Americorps volunteer

So a different kind of research (too simple) but provides tools for managers to use for communication and decision-making