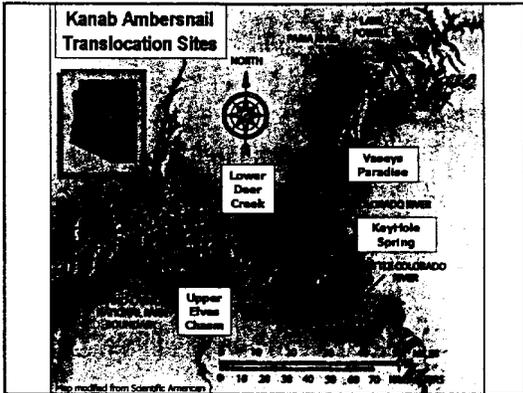




**Interim
Conservation Plan
for Ambersnails of
the Southwestern
United States**

11-14-01 Update

by Jeff A. Sorensen
Arizona Game & Fish Department



**“Interim Conservation Plan for
Oxyloma haydeni kanabensis complex
and related taxa in Arizona and Utah”
(tentative new title)**

- Updates 1995 Recovery Plan info & goals
- Recommendations from the expert panel, KAWG, & Ad Hoc Committee
- Prioritizes research & conservation needs

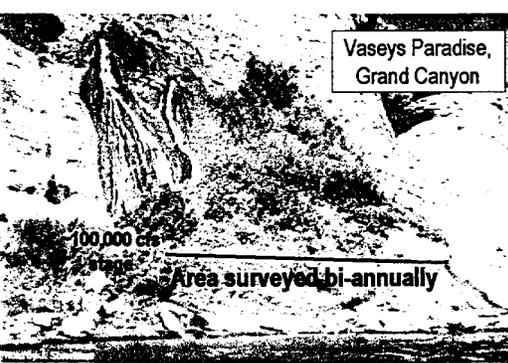


**Experimental
KAS Populations**



Northern Arizona University

Glen Canyon Dam

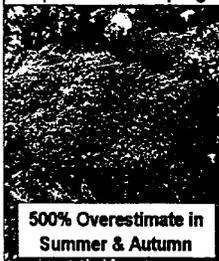


Vaseys Paradise,
Grand Canyon

100,000 cu ft
Area surveyed bi-annually

Observation Error Studies

Replicate Subsampling



500% Overestimate in
Summer & Autumn

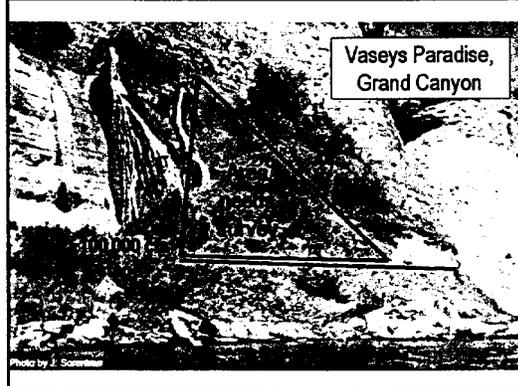
Total Census Grid



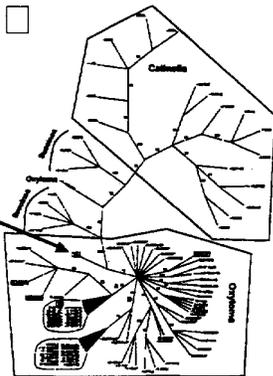
Future Research & Monitoring



- More taxonomic & genetic studies
- More regional habitat surveys
- Bi-annual monitoring of Vaseys Paradise



VP snail is genetically distinct



From Stevens et al. (2000)

Status & Schedule for Review: Interim Conservation Plan

- Initial draft (August 2001) reviewed by KAWG cooperators – 30-day review period
- 2 KAWG meetings held in late Sept & Oct 2001
- Next draft (December 2001) to USBR-UC; then available for review by TWG & AMWG

Habitat Surveys in Arizona & Utah



- Over 150 sites surveyed in northern Arizona
- Over 100 sites surveyed in south-central Utah
- Many other sites on tribal and private land have not been surveyed
- Extend search outside the Colorado Plateau region?

Edits & Comments by KAWG Cooperators

- GCMRC
- USBR-UC
- WAPA
- USFWS
- NPS
- BLM
- Utah Div Nat Resources

