National Park Service
U.S. Department of the Interior

Grand Canyon National Park

NPS Fisheries Program Updates:
Humpback chub translocations
NPS Fisheries Management Plan

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Cooperators

- Funded by Reclamation, NPS, USGS

Translocations - Current Efforts

- Translocations of Juvenile Humpback Chub from the Little Colorado River to Shinumo and Havasu Creeks

- Bright Angel Creek?
  - Continuing trout control
    - Weir – 50-70% less trout captured this year
    - Electro-fishing – analysis pending (less trout this year)

Grand Canyon – Translocation Sites

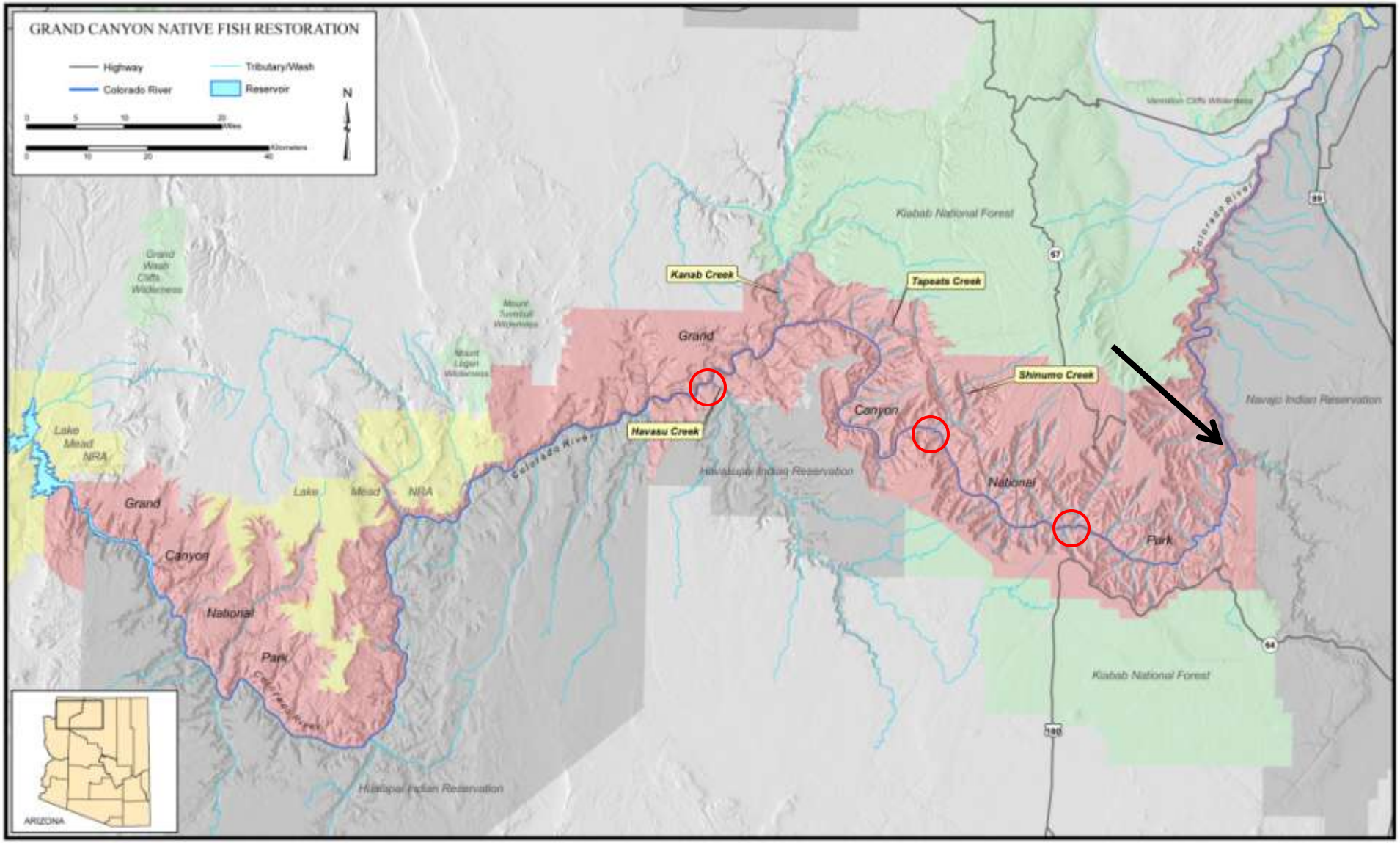

Figure 1. General location of the project area.

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Translocation Goals

- Experimental
- Establish 2nd Spawning Population in Grand Canyon
- Provide rearing habitat for Juvenile Humpback Chub
  - Augmentation of Colorado River Aggregations
- Restore Native Fish Populations

Tributary Translocations

Shinumo Creek:

- 302 in June 2009
- 300 in June 2010
- 300 in June 2011

Havasu Creek:

- 242 in June 2011
- 300: Spring 2012-2013

Melissa Trammell/NPS

Havasu Creek - Monitoring

- October 2011 Monitoring:
  - Recaptured 42%
- Growth
  - Havasu Creek (5-months)
    - **13.8 mm/30d (0.46 mm/day)**
  - Little Colorado River :
    - 8.8 mm/30d (0.29 mm/day)

    (Robinson and Childs 2001)

Next Steps - Havasu Creek

- Continue Translocations 2012 – 2013
- Monitoring (Spring and Fall)

Next Steps – Shinumo Creek

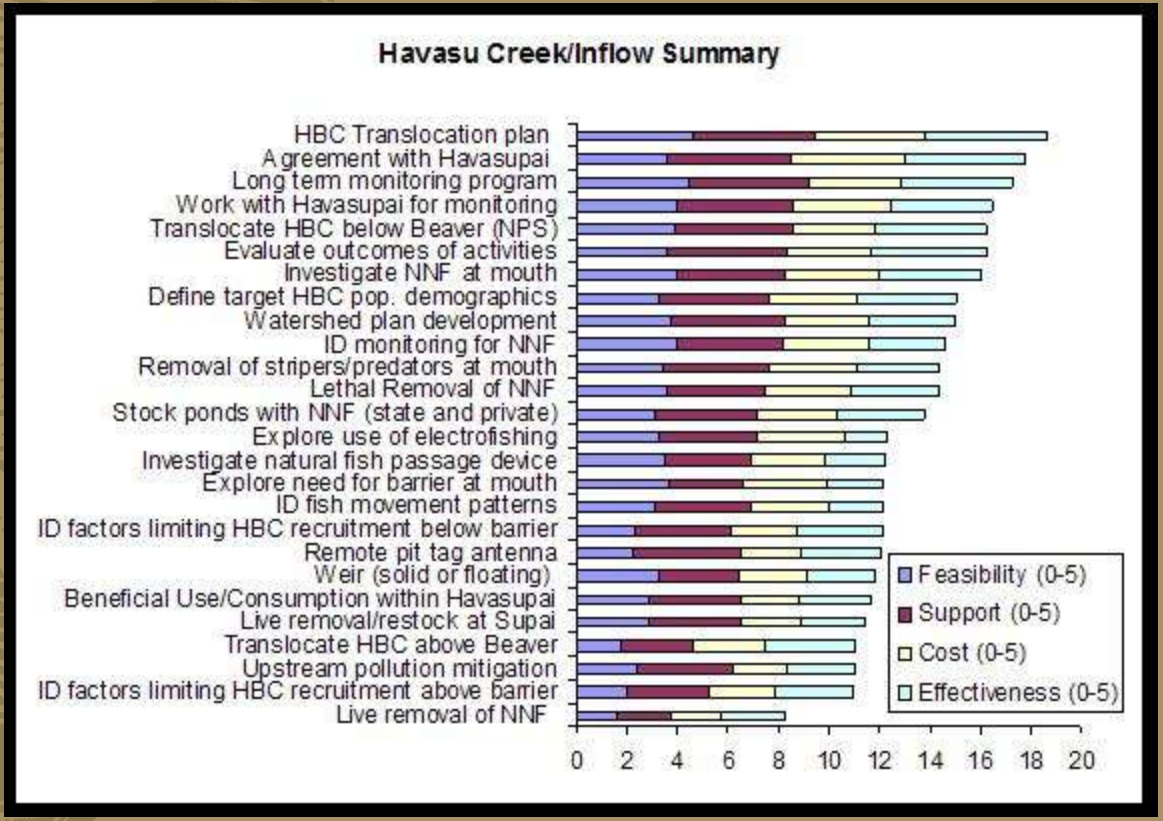
- Continue Monitoring in 2012
  - Survival/Growth/Abundance
  - Reproduction?
- Evaluate Results
- Incorporate into Fisheries plan

NPS Fish Management Planning

- Complete by Fall/Winter 2012
- Incorporate stakeholder/Tribe/agency input into plan development (beginning May 2010):
  - Example:

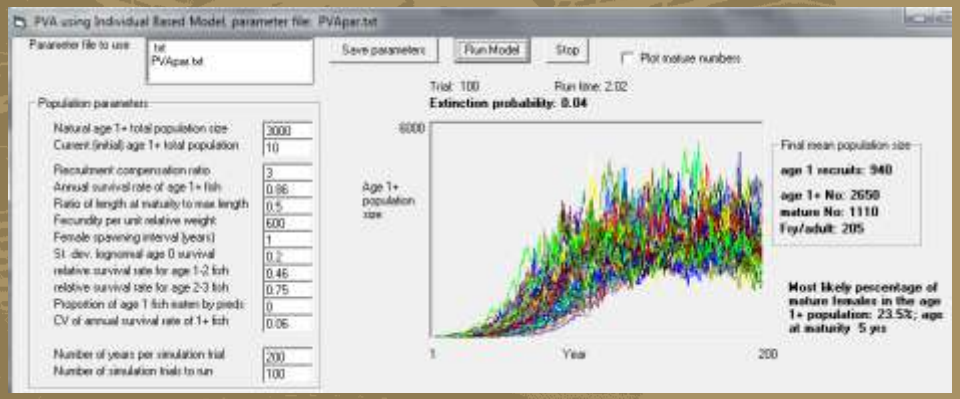
    2010 Workshop

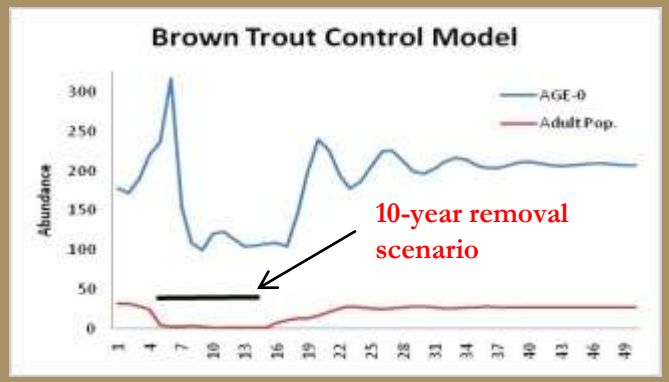
    Results



NPS Fish Management Planning

- Development of planning tools through cooperative workshops (USGS, AZGFD, USFWS, BOR, U. of Florida)
  1. Humpback Chub Pop. Viability Model - “Cropping Model”
     - University of Florida (Dr. Pine), Reclamation, USFWS, AZGFD
     - Determine safe level of HBC to be removed for translocations, refuge development, research needs; Estimate needs/trib
  2. Brown Trout Population Harvest Model –
     - Predict effort needed to reduce Bright Angel Creek brown trout population.





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