

Humpback chub 5 yr Status Review



Humpback chub listed 1967

Recovery plan in 1990

Recovery goals in 2002: Defined recovery

U.S. District court ruling in 2006 set aside the goals

Draft 2009 revision: never finalized

2011 FWS completed 5-Year Status Review

FWS/Western discussion

FWS briefed TWG on progress

Humpback chub 5 yr Status Review



Humpback chub listed 1967

Recovery plan in 1990

Recovery goals in 2002: Defined recovery

U.S. District court ruling in 2006 set aside the goals

Draft 2009 revision: never finalized

2011 FWS completed 5-Year Status Review

FWS/Western discussion

FWS briefed TWG on progress

Humpback chub 5 yr Status Review



Humpback chub listed 1967

Recovery plan in 1990

Recovery goals in 2002: Defined recovery

U.S. District court ruling in 2006 set aside the goals

Draft 2009 revision: never finalized

2011 FWS completed 5-Year Status Review

FWS/Western discussion

FWS briefed TWG on progress

Humpback chub 5 yr Status Review



Humpback chub listed 1967

Recovery plan in 1990

Recovery goals in 2002: Defined recovery

U.S. District court ruling in 2006 set aside the goals

Draft 2009 revision: never finalized

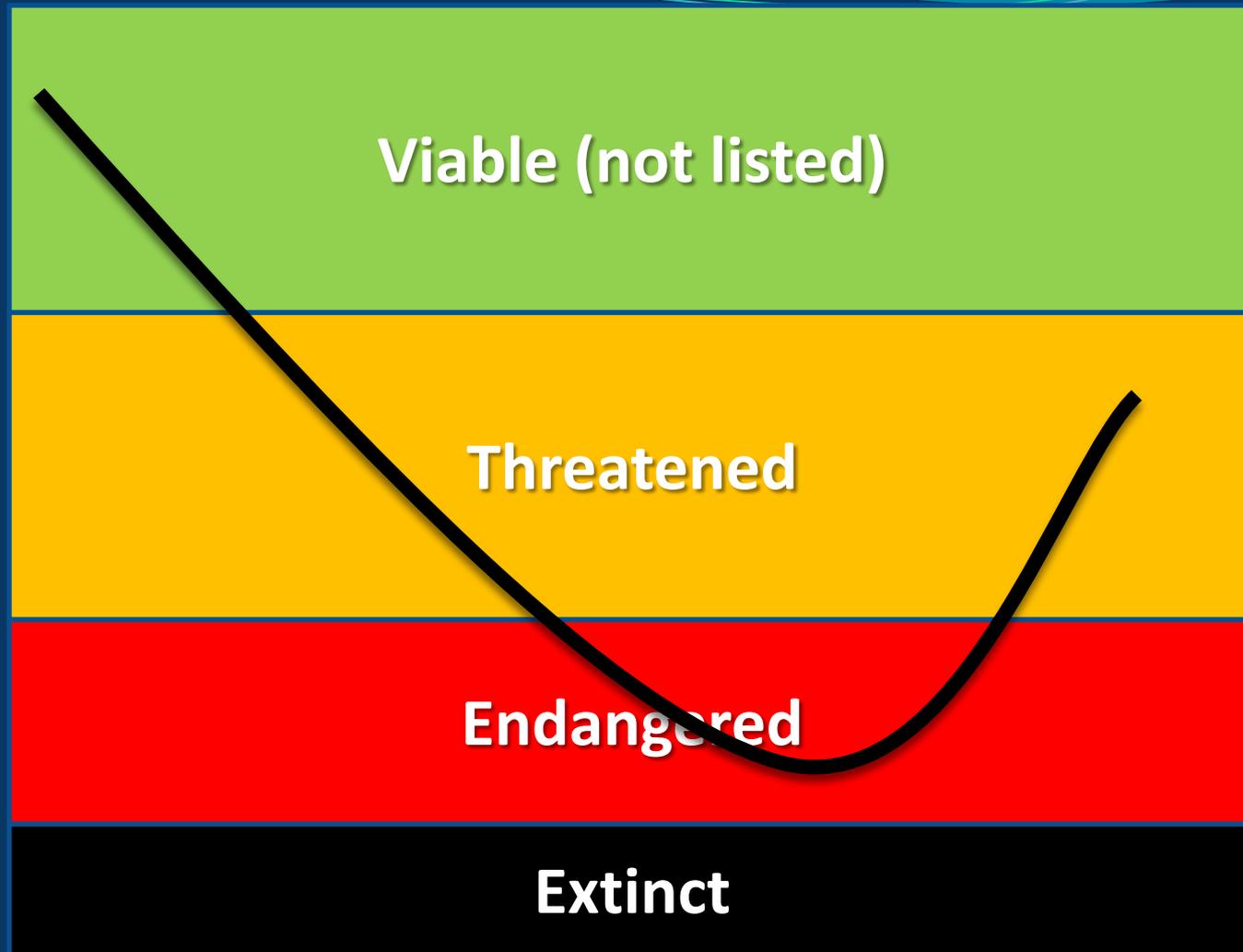
2011 FWS completed 5-Year Status Review

FWS/Western discussion

FWS briefed TWG on progress



Population Size



Viable (not listed)

Threatened

Endangered

Extinct

Time



The three specific statutory requirements, set forth in section 4(f)(1)(B) of the ESA, are that each plan incorporates the following:

- 1. A description of site-specific management actions necessary to achieve the plan's goal for the conservation and survival of the species;**
- 2. Objective, measurable criteria which, when met, would result in a determination, in accordance with the provisions of this section, that the species be removed from the list; and**
- 3. Estimates of the time required and cost**

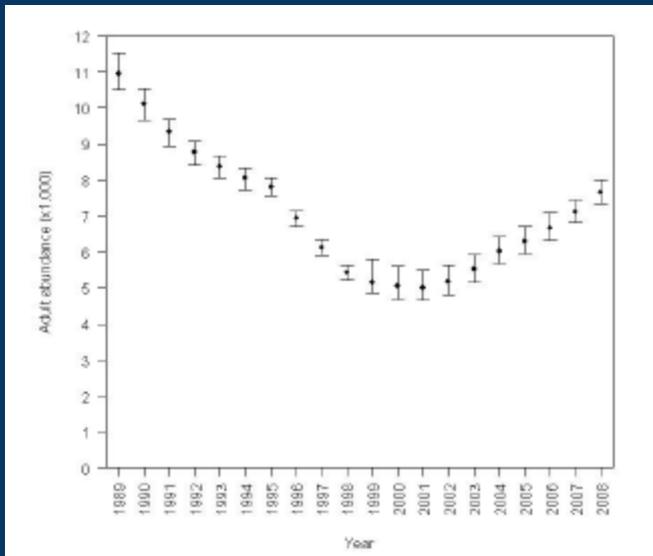
RECOVERY CRITERIA

DEMOGRAPHIC

Population size

Population trend

Recruitment



THREATS (5 Factors)

(A) Adequate habitat and range for recovered populations

(B) Protection from overutilization

(C) Protection from diseases and predation

(D) Adequate regulatory mechanisms

(E) Other natural or manmade factors for which protection has been provided

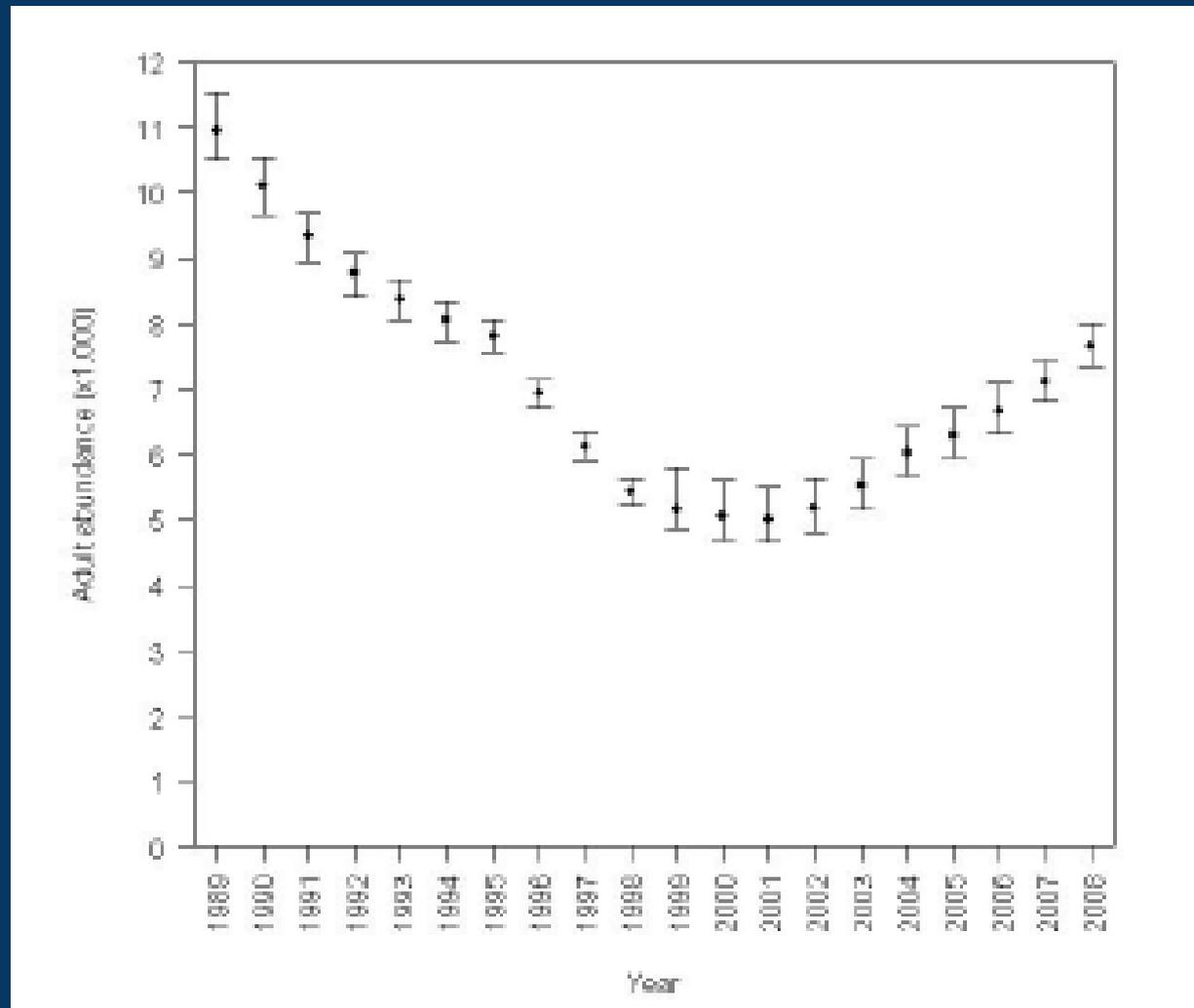
CRITERIA FOR DOWNLISTING	HAS BEEN MET	HAS BEEN PARTIALLY MET	HAS NOT BEEN MET
Demographic			
Upper Colorado River Subbasin			1a, 1b, 2
Lower Colorado River Subbasin	1c	1a, 1b	
Upper Basin Recovery Factors			
Recovery Factor A		1	
Recovery Factor B	2		
Recovery Factor C	4	5	3
Recovery Factor D		6	7
Recovery Factor E		10	8, 9
Lower Basin Recovery Factors			
Recovery Factor A	1, 3	2	
Recovery Factor B	4		
Recovery Factor C	5	7, 8	6
Recovery Factor D	9		10
Recovery Factor E			11, 12



Primary outstanding threats

1. (A) Development of flow options from 2011 BiOp
2. (C) Plans to minimize nonnative introductions, better monitoring to detect rare/new species
3. (C) Response program for nonnative fish predation, linkages well understood between trout/humpback chub and how to maintain appropriate levels
4. (D) Long term conservation plan for humpback chub
5. (E) Highway 89 hazardous spill plan/containment

Demographic criteria (numbers)



Criteria 1a: Core population maintained over a 5 year period, adult trend does not decline

Review: Partially met

FWS Justification:

- Distribution in Grand Canyon
- Analysis isn't limited to most recent 5 years
- Downward trend in ASMR
- Uncertainty about aggregations

How to get to “fully met”

- Continued upward and positive trend in ASMR
- See appreciable increases/expansion of aggregations

Criteria 1b: Core population maintained over a 5 year period, mean recruitment of age 3 fish equals or exceeds mean adult mortality

Review: Partially met

FWS Justification:

- **Ageing error with ASMR**

How to get to “fully met”

- **Continued upward trend in ASMR**
- **See appreciable increases/expansion of aggregations**
- **Resolve ageing errors**

Criteria 1c: Grand Canyon population is maintained over a 5 year period such that each population estimate exceeds 2,100 adults

Review: Fully met

FWS Justification:

- **Estimate of adults is above 2,100 per ASMR**
- **Accept estimates as far back as they have been calculated**

How to get to “fully met”

- **Future goal revision to include updated minimum viable population (MVP number) per Dexter project**

Discussion/Resolution

The good news: we're approaching recovery for the lower basin, this tests the criteria and our resolve to "fully meet"

FWS has concerns about recovery not fully articulated in the 2002 criteria

Thus, first step is to understand the concerns, articulated by FWS response to Western

Next step...

Discussion/Resolution

Discussion with Region 6 at RIP Management Committee meeting

- **FWS will provide draft status review documents for comment in future**
- **FWS will consider reconvening recovery teams to help draft revised recovery goals**
- **Revised goals will be provided to upper and lower basin programs for review and comment before peer/public review**



Cultural Resources ad hoc group

August 2011 AMWG directed TWG make a recommendation on issue#3:

How should the program fairly treat conflicts of cultural values, specifically those involving Native American perspectives?

How will tribal values be monitored and tracked in this program?



CRAHG

- **CRAHG given task by TWG, Kurt Dongoske Chair**
- **CRAHG met in January to consider two questions**
- **Developed draft report and briefed TWG in February**
- **Revised draft on Feb. 20**

How should the program fairly treat conflicts of cultural values, specifically those involving Native American perspectives?

- 1. AMWG/TWG should try to achieve consensus**
 - work harder for consensus, be transparent, agencies be more proactive rather than wait for tribes**
- 2. Respect each stakeholder's perspective and position - respect**
- 3. Listen – actually “hear” and understand what is being said**

How should the program fairly treat conflicts of cultural values, specifically those involving Native American perspectives?

4. Acknowledge, accept, and respect philosophical differences regarding ecosystem perspectives.

- **Presentations by stakeholders, and recorded**
- **Educate about non-western values**
- **Educate about tribal values, no monetary value**

How will tribal values be monitored and tracked?

- **Traditional ecological knowledge (TEK) integration, GCMRC, AMP**
- **Define basis (metrics) for determining success**
- **Stakeholder meetings in Page with, one-day visit to the Glen Canyon Dam, one-day river trip**
- **Stakeholder meetings at Grand Canyon National Park**

Connection to the resource

How will tribal values be monitored and tracked?

- **River trips with Tribal representatives and stakeholder participation in tribal sensitivity workshops held in the respective tribal community.**
- **Incorporate reflexivity into GCMRC's science program.**
- **Annual report that tracks efforts at sharing of cultural values among stakeholders, conflicts, and tribal consultation**