

**Item 9-8**  
**Lead Scientist's Report**  
**Nomination of Dr. Richard Adams and**  
**Dr. Warner North to the Independent Science Board**

**Action Item**

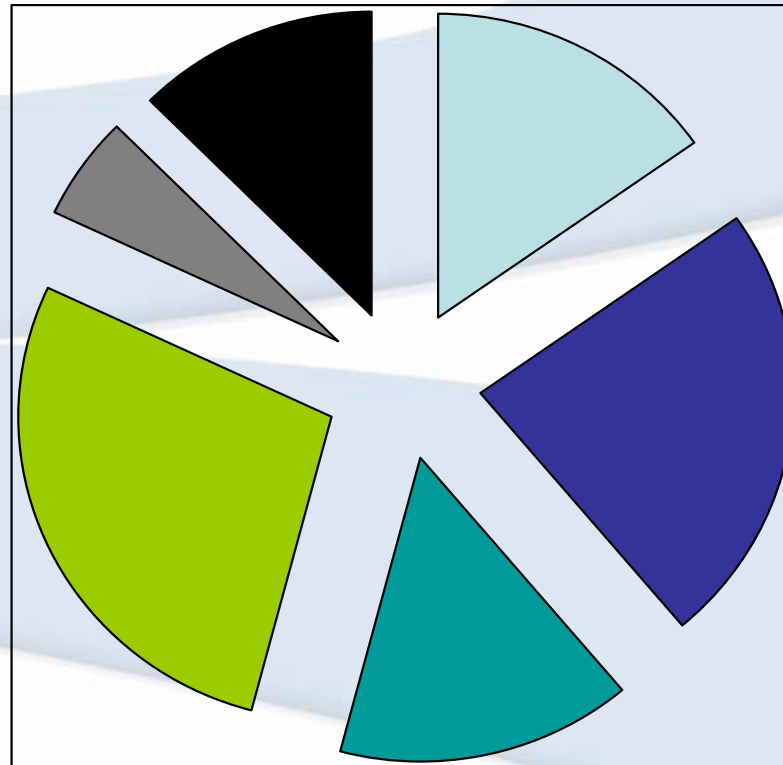
**Bay Delta Authority and Public Advisory  
Committee**

**February 9, 2005**



**Science Program Proposal  
Solicitation  
2004**

# Dissemination Efforts Publications Contacted



*Over 1.5  
Million  
People  
Potentially  
Reached*

Journal Online Newsletter Listerv Posting Board Misc.

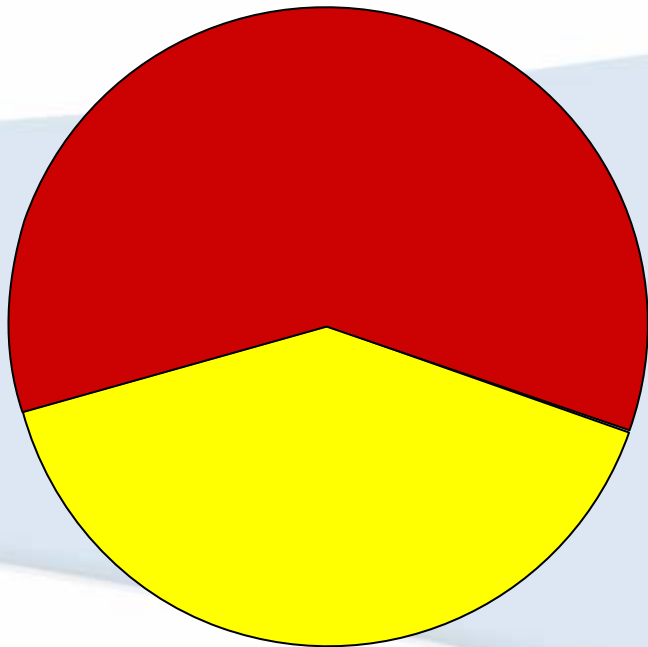
# **Key Topics of the Proposal Solicitation**

- **1. Water Operations and Biological Resources:**  
Studies that will improve knowledge of key aquatic species and how water management activities affect populations of those species across broad spatial and temporal scales ranging from upstream rivers down through the Estuary.

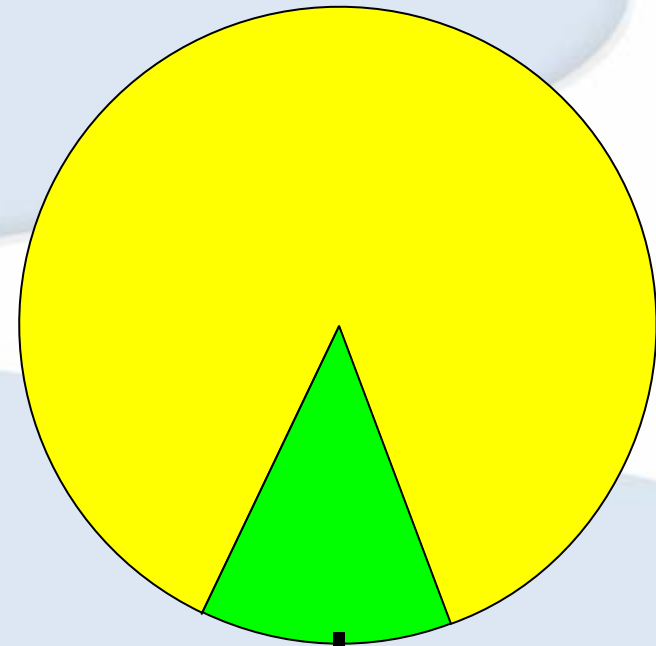
- **2. Ecological Processes and their Relationships to Water Management and Key Species:** Studies that will further develop understandings of ecosystem processes in the Delta, Suisun Marsh, and upstream rivers and their relationships to factors critical for water and aquatic species management.
- **3. Performance Assessment to Improve Tools and Implications of Future Changes:** Analytical frameworks that will support assessments and refined predictions of how likely future changes such as population or climate-related hydrological shifts may affect water operations, ecosystem processes and CALFED projects.

Number of proposals started: ~350

Funds requested (completed proposals only): \$142 Million

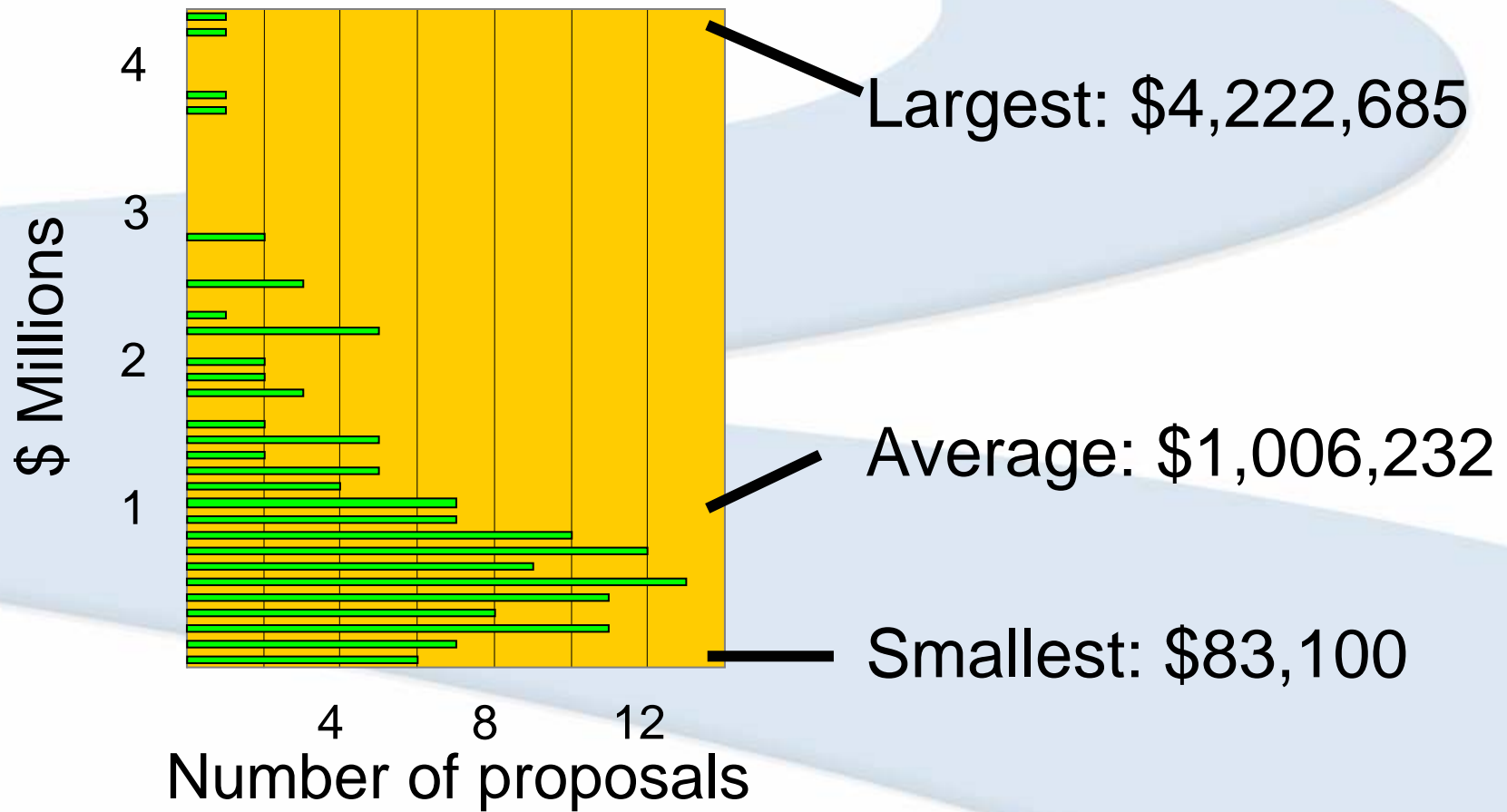


Proposals completed and submitted: 141



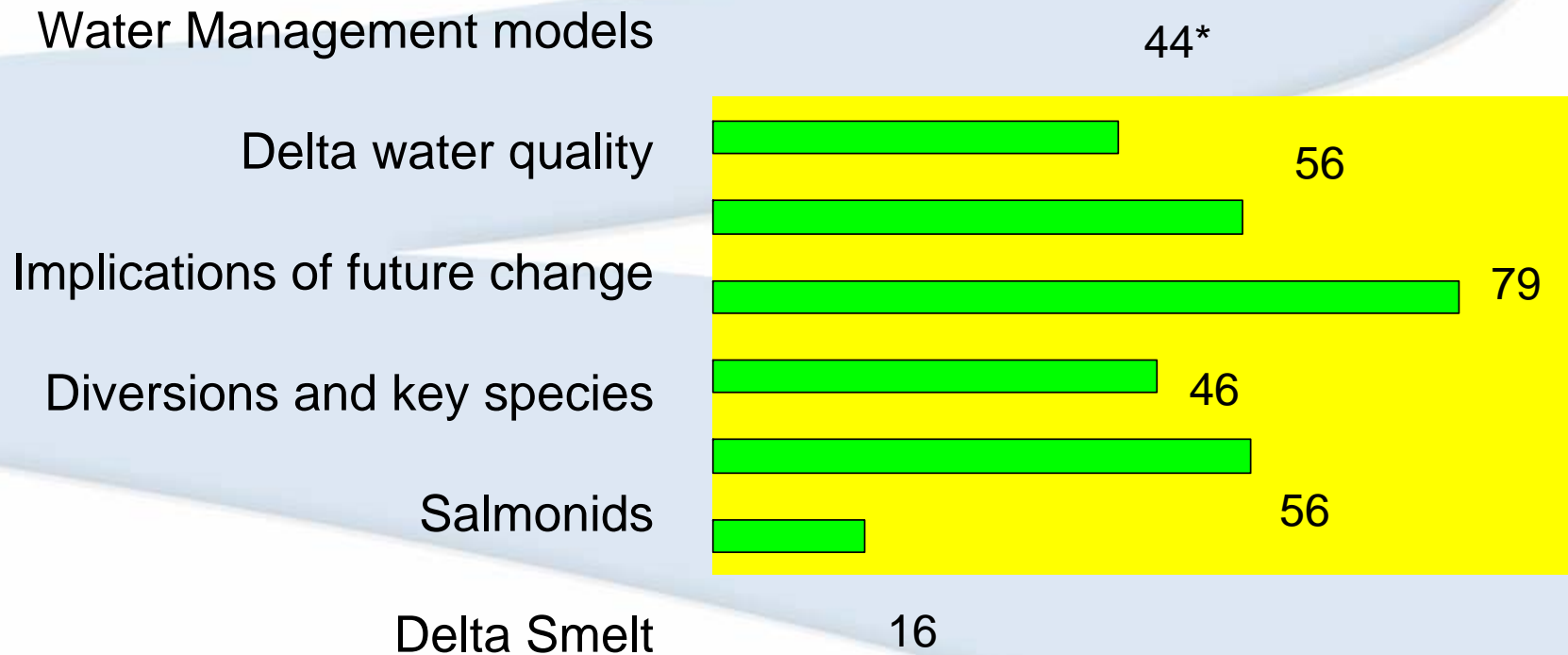
Available funds: Approx. \$18 million (~13% of requested)

# Requested funds per proposal



Approximate number of funded proposals using  
average cost: 18

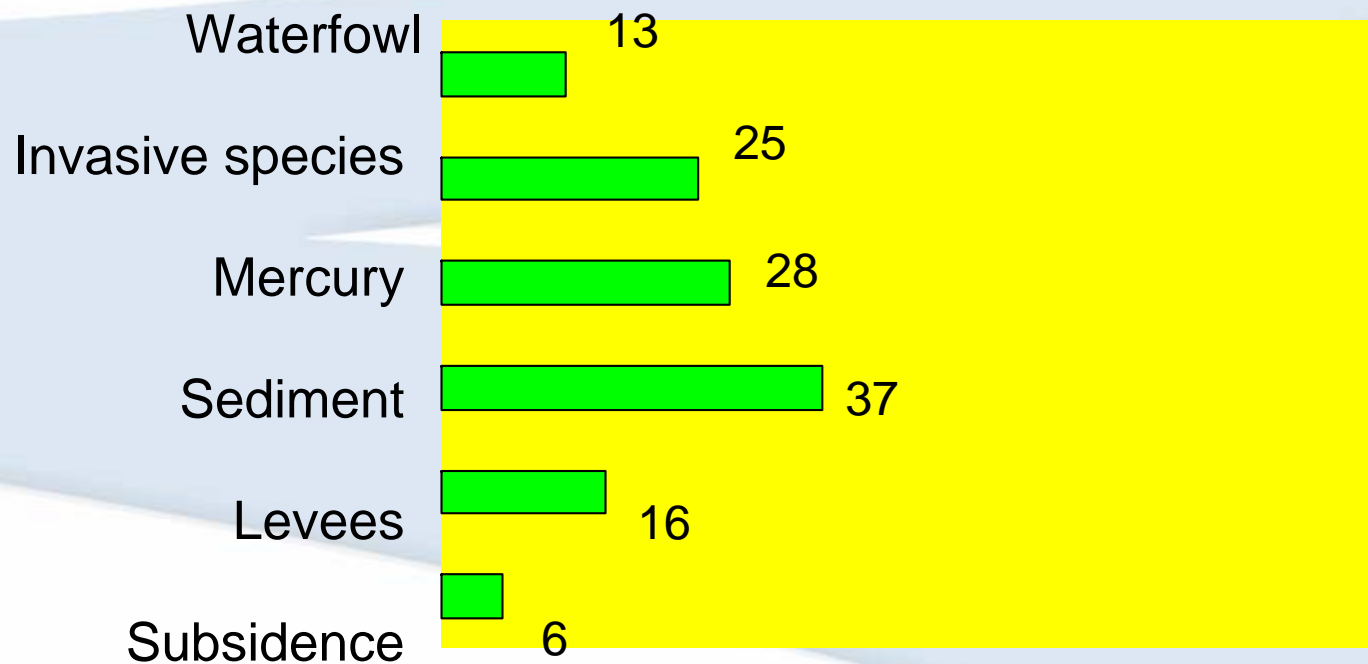
# Number of proposals listing specific study topics



\*Note: most proposals relevant to several study topics so totals do not add up to 141.

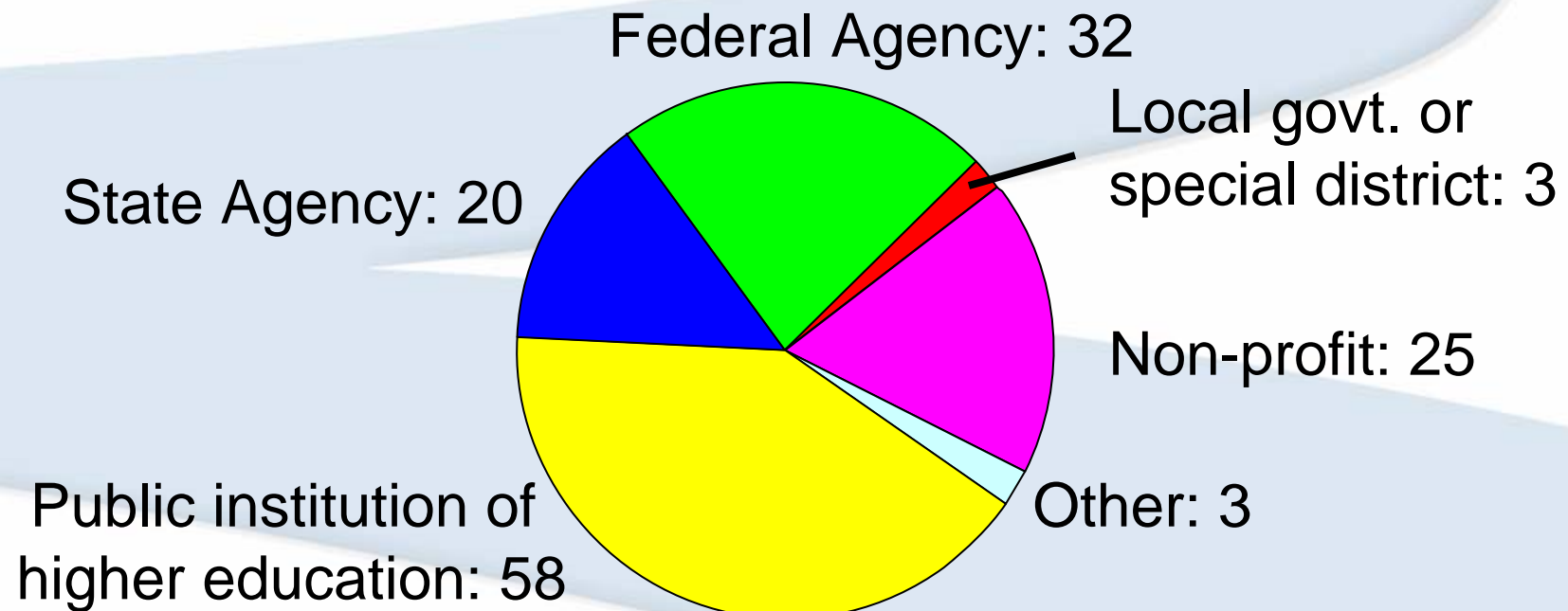


# Number of proposals listing specific study topics (cont'd)



\*Note: most proposals relevant to several study topics so totals do not add up to 141.

# Number of proposals by lead applicant institution type



Total number of institutions on proposals: 175+

Total number of people on proposals: 1,100+

Number of collaborative proposals: 50+

# Proposal Review Schedule

Proposals

Administrative Review

External Scientific Review  
9/10/04 - 4/1/05

Technical Synthesis Panel  
3/1/05 - 4/1/05

Selection Panel  
4/1/05 - 5/13/05

Public Review and Comment  
5/16/05 - 6/15/05

Selection Panel  
7/1/05

Collaborative Proposals

Bay-Delta Science Consortium Review  
4/15/05 - 4/29/05

Funding Recommendations

California Bay-Delta Authority  
9/1/05 - 12/30/05

# Delta Pelagic Trends

Chuck Armor, DFG

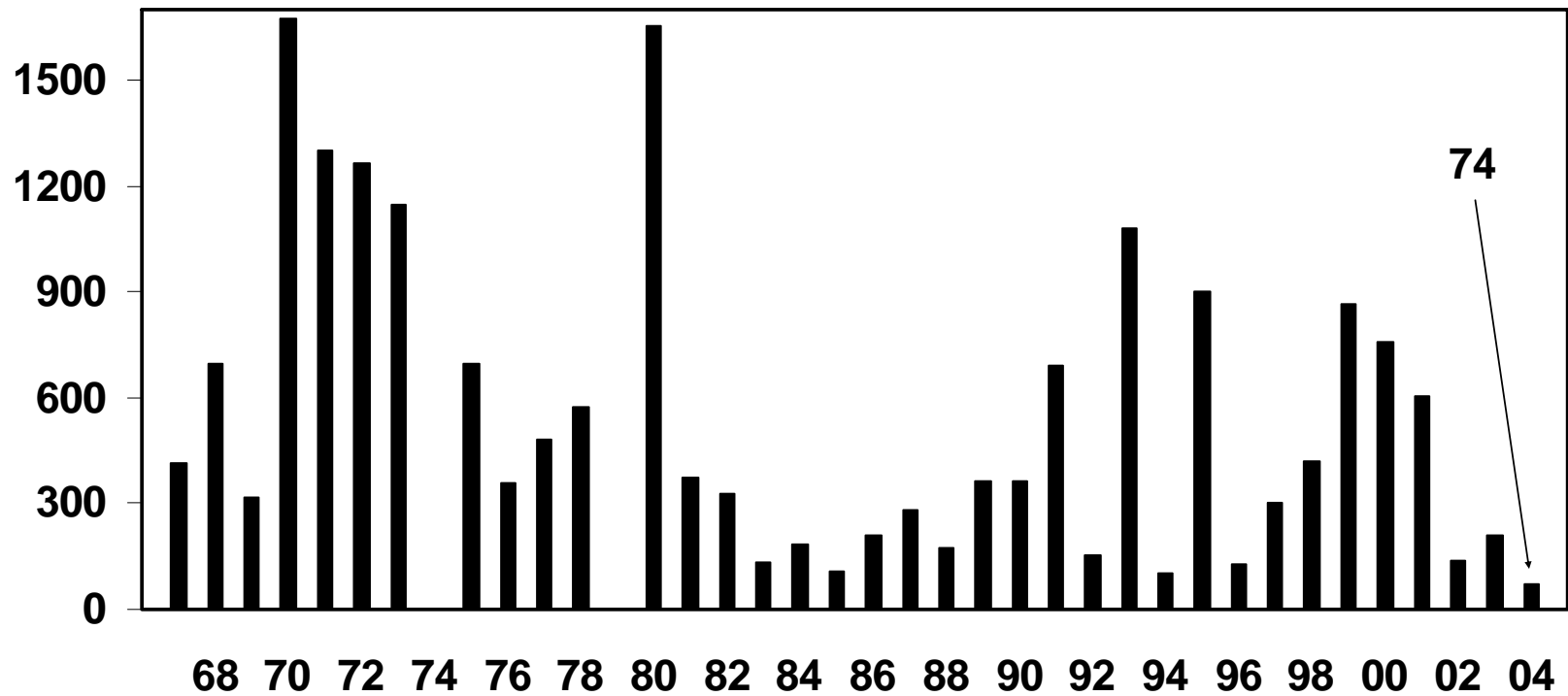
# Trends from IEP Long-term Monitoring Surveys

# Interagency Ecological Program

- Data from IEP long-term monitoring
- Consistent methods and sites
- Mandated by Water Rights permits and Biological Opinions

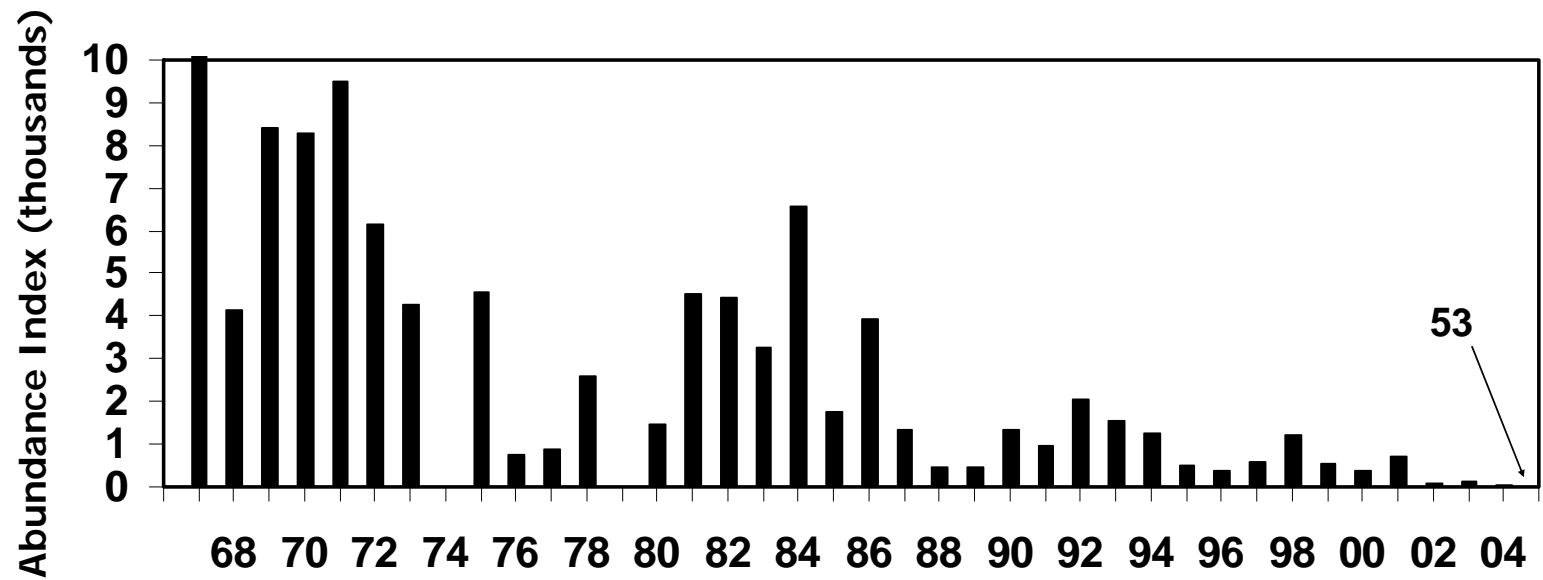
# Fish Trends

## 1. Delta Smelt (native)



# Fish Trends

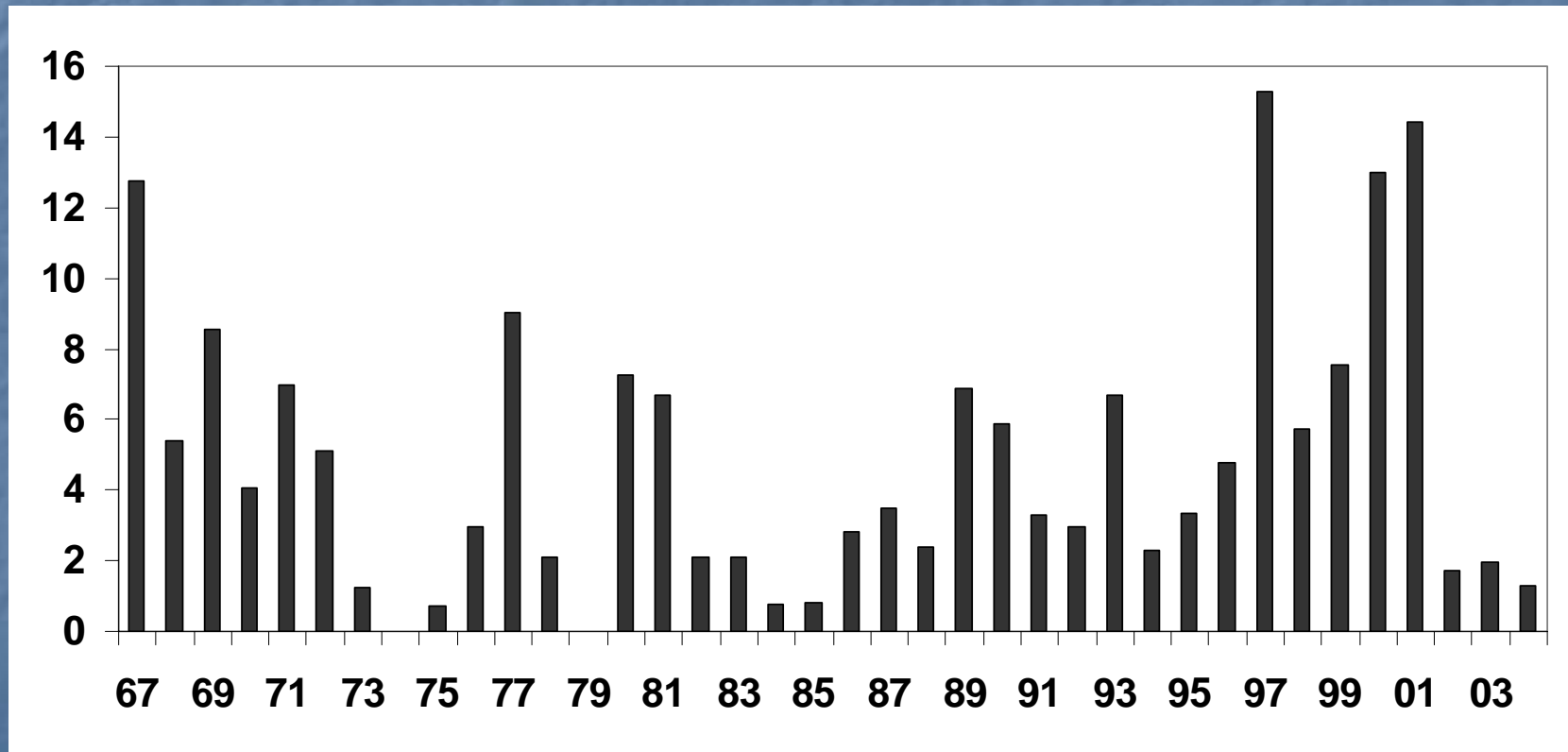
## 2. Striped Bass (introduced)





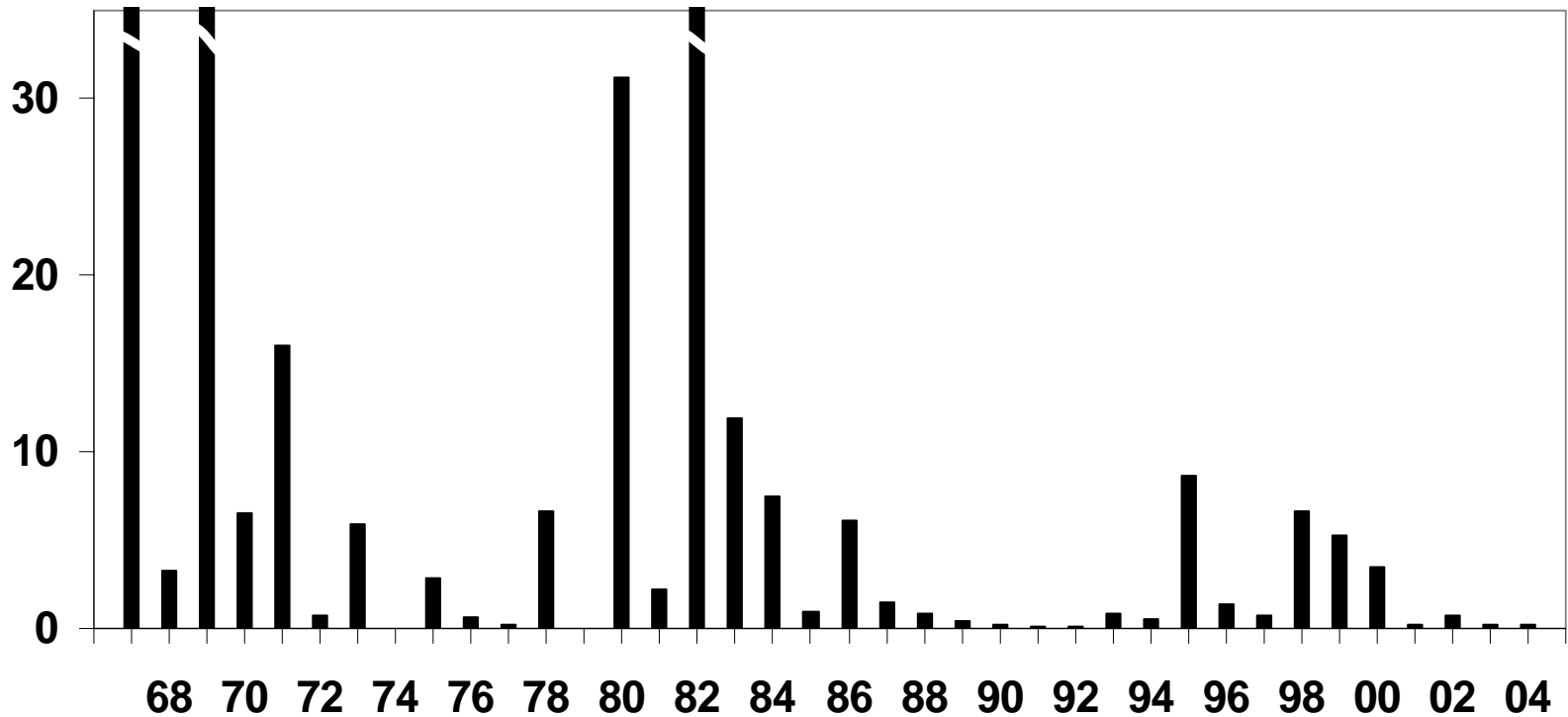
# Fish Trends

## 3. Threadfin shad (introduced)



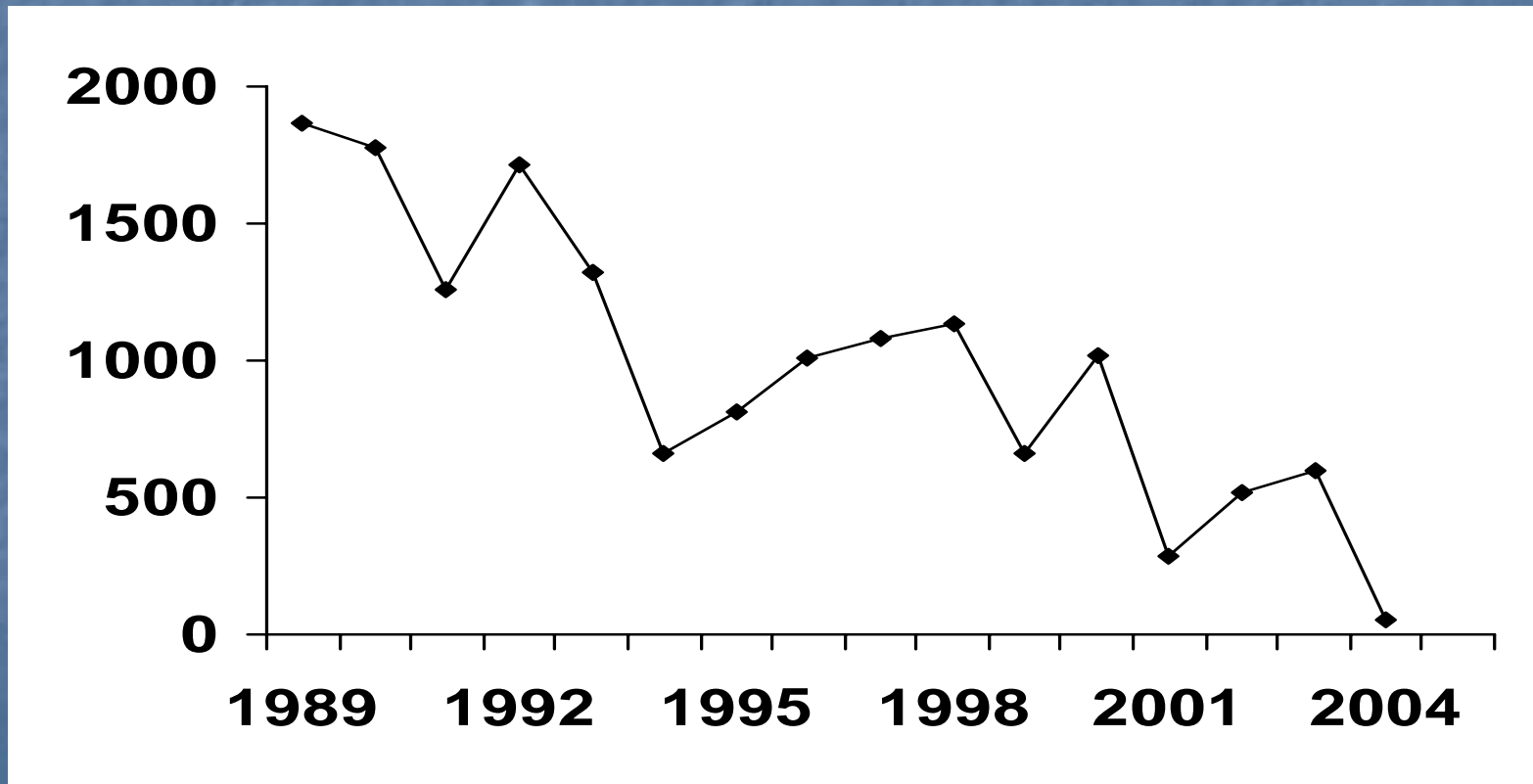
# Fish Trends

## 4. Longfin Smelt (native)



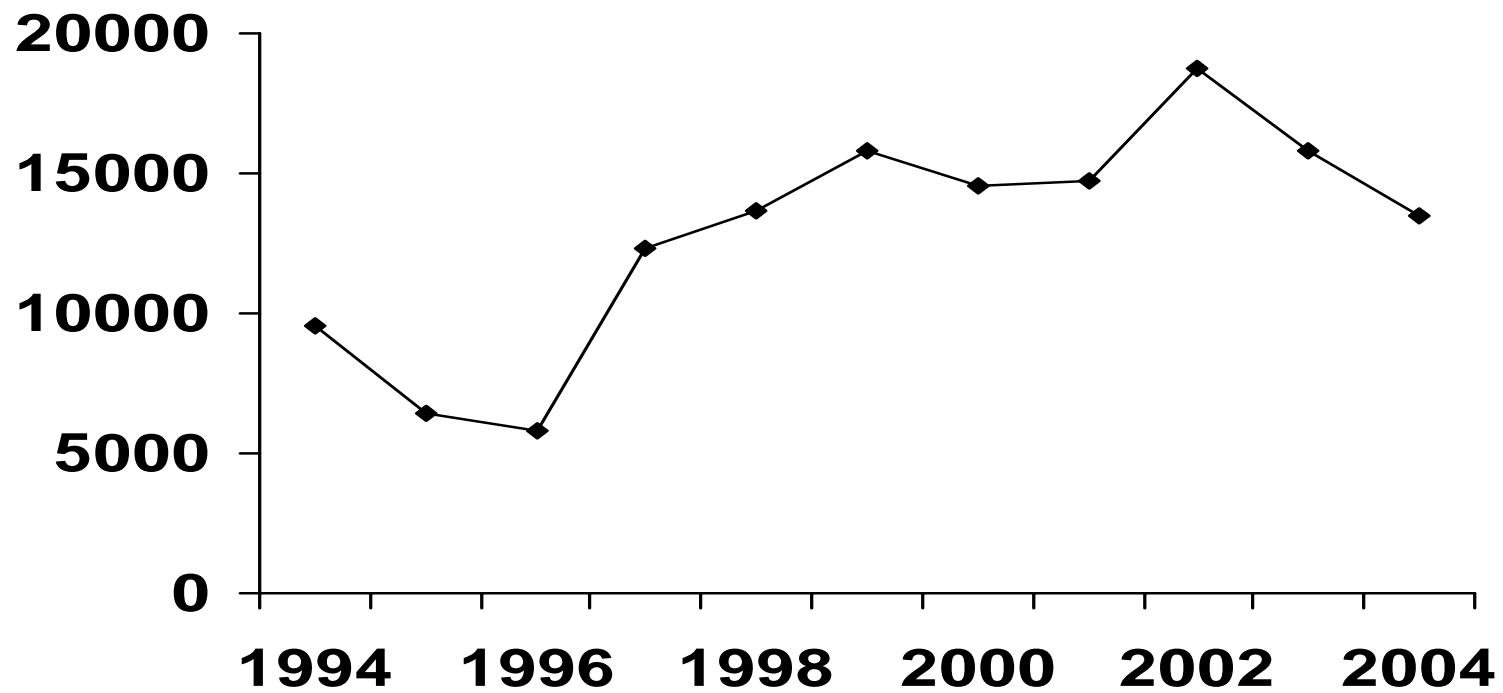
# Zooplankton Trends

*Pseudodiaptomus forbesi* (introduced)



# Zooplankton Trends

*Limnoithona tetraspina* (introduced)



# Possible Causes “The Usual Suspects”

- Toxics
- Food Web
- Exports

# Next Steps

- Develop workplan
  - Hypotheses
  - Extensive analyses of existing data
  - New research
  - Identify funding and resources needed
  - Close collaboration with CBDA and others
- Carry out identified work
- Results will be shared as available