



Northern California Red Abalone Fishery

Management for the Future

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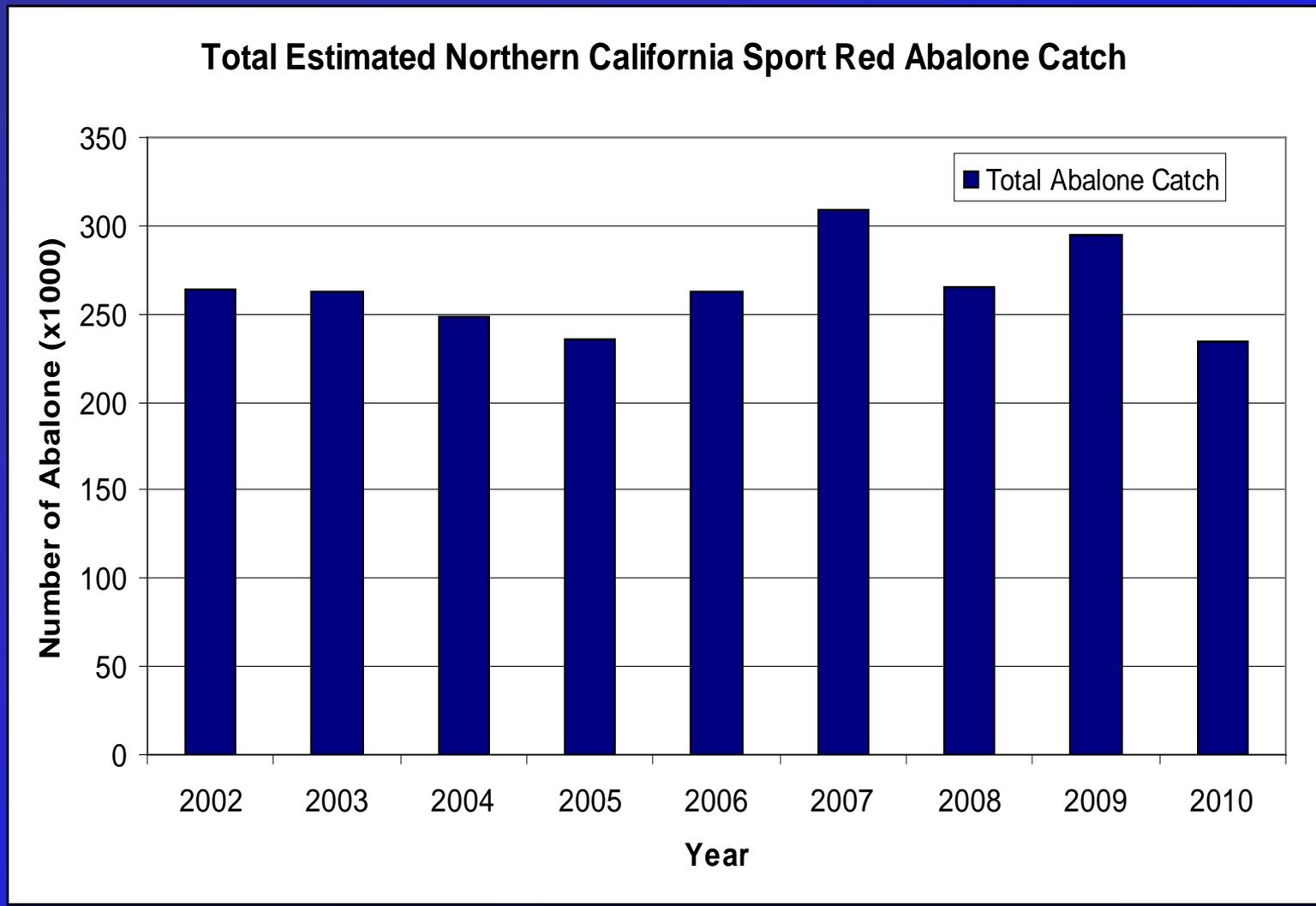


Northern California Abalone Management

- Addressing management concerns
- DFG review of abalone management
- Conceptual framework for transition to long term management plan



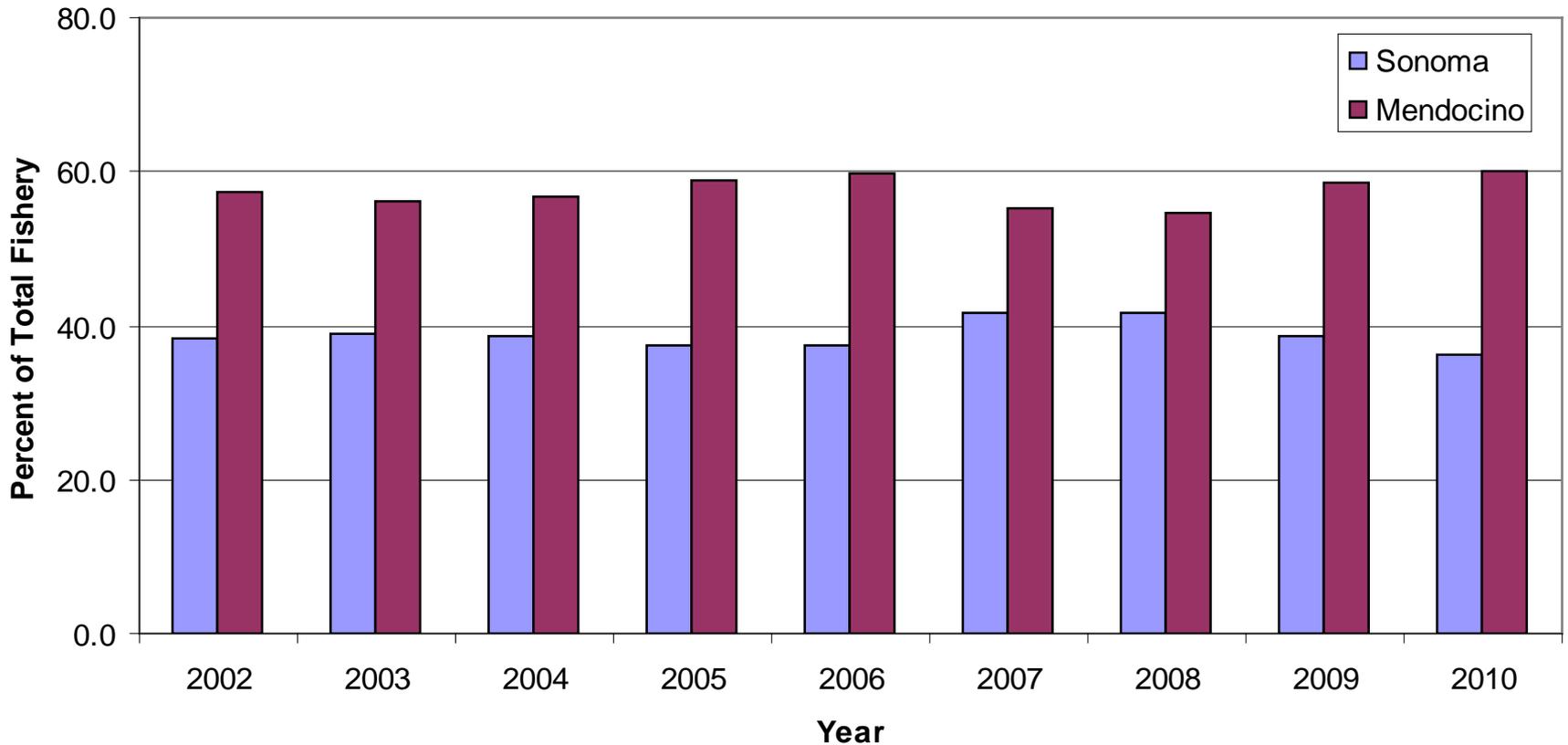
Abalone Fishery Catch Overall





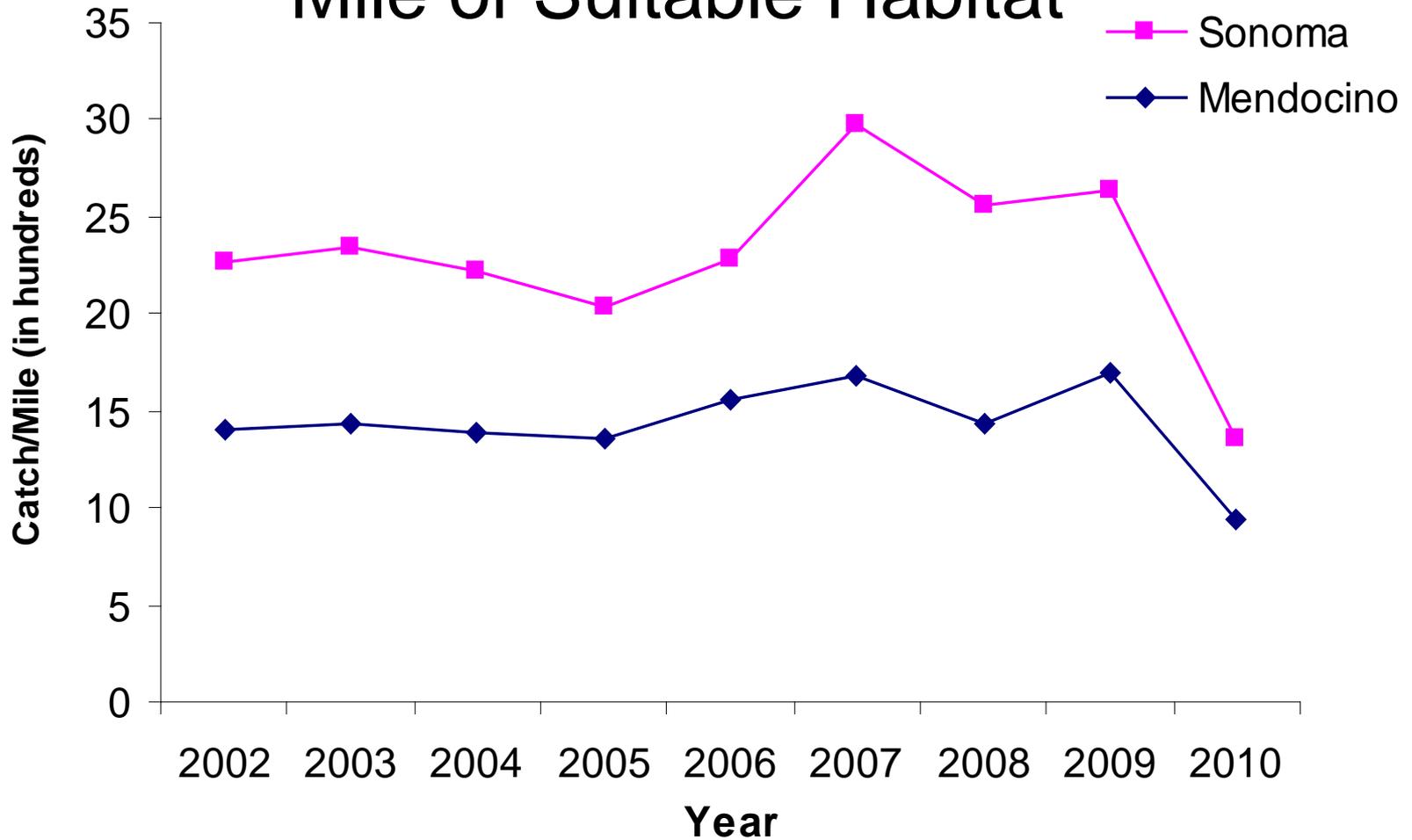
Fishery Catch by County

Mendocino and Sonoma Counties Red Abalone Catch



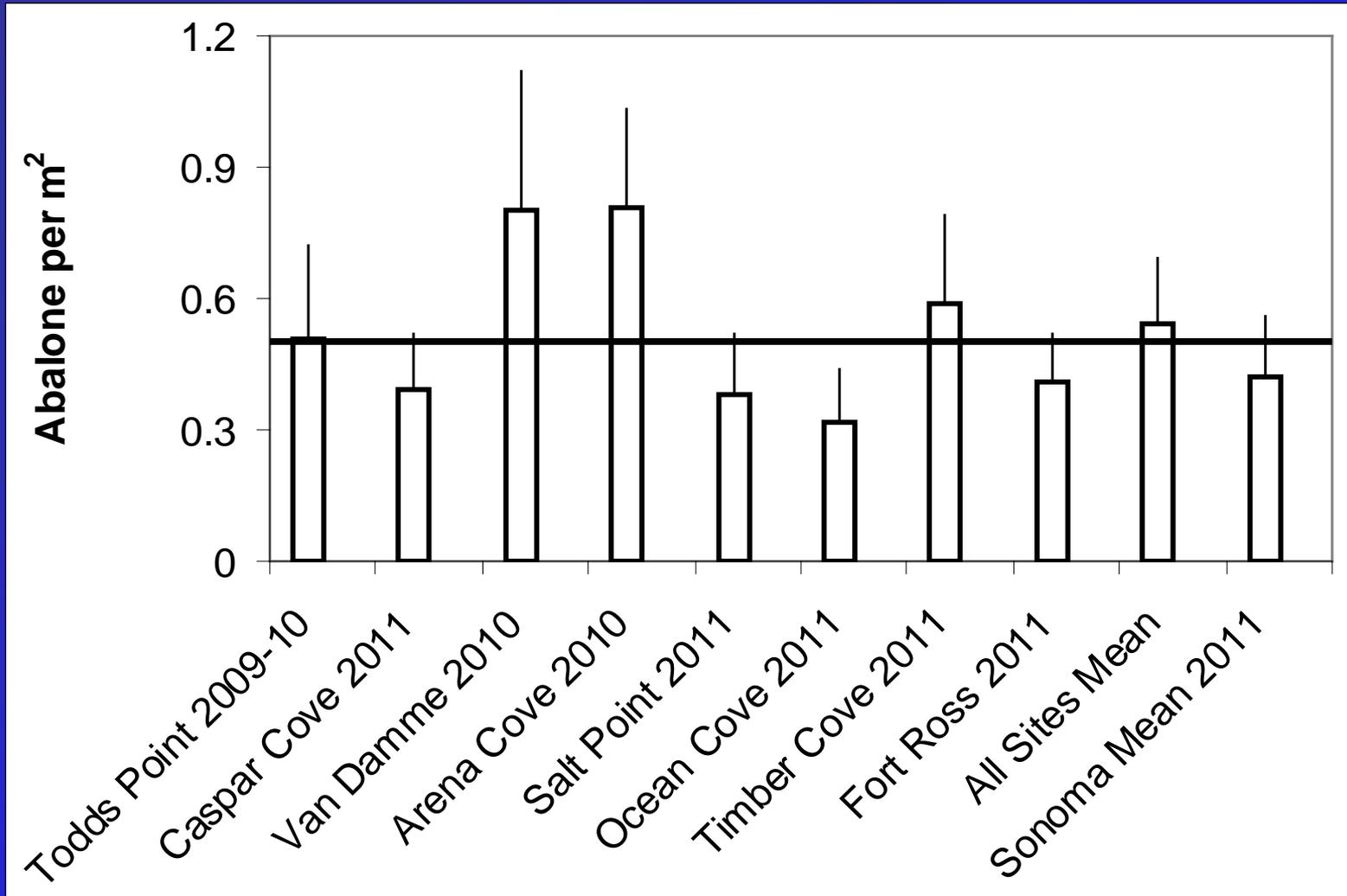


Total Abalone Landings by County per Mile of Suitable Habitat



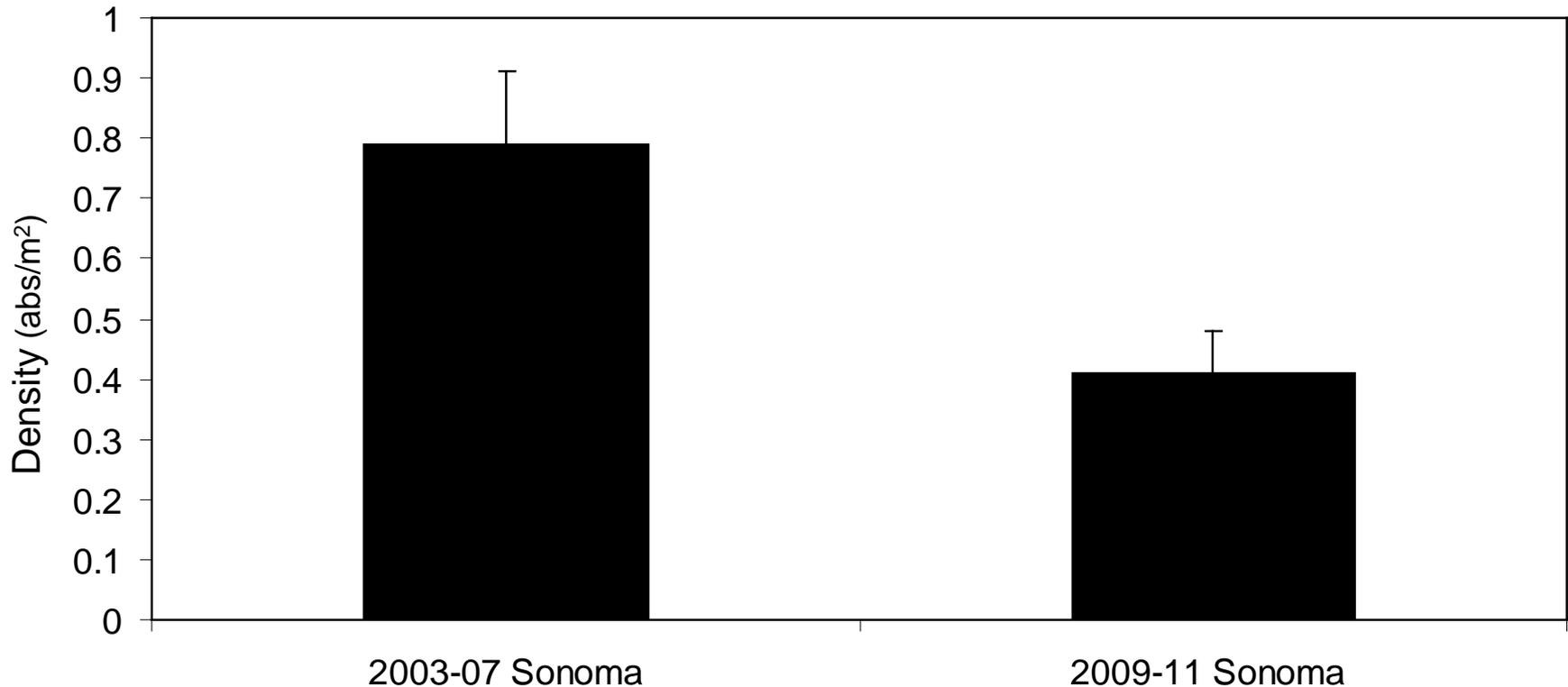


Recent Fishery Index Site Densities





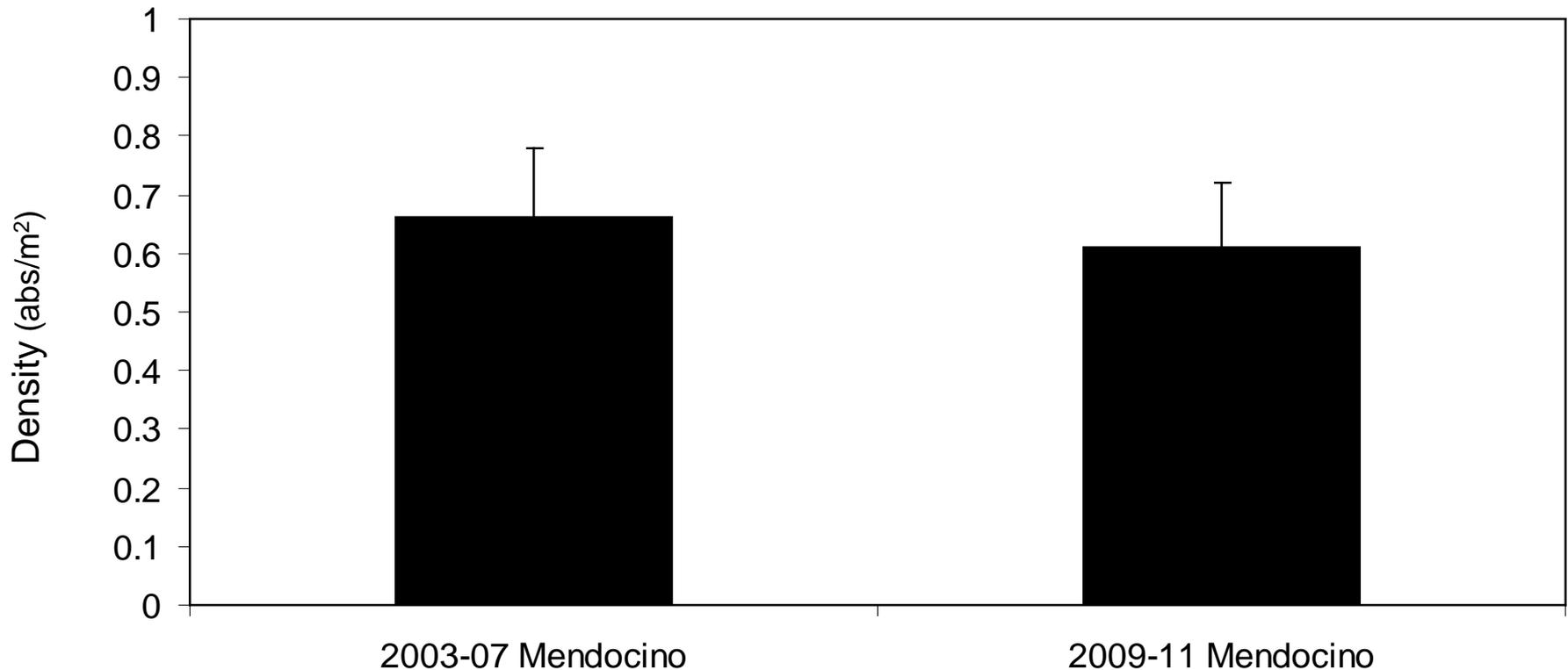
Abalone Density at Sonoma Index Sites - Comparison between Two Survey Cycles



Mean density declined from 0.79 to 0.42 ab/m². This is a 47% drop in density from the 2003-2007 time period to the 2009-2011 time period. We have more than enough power to detect this change



Abalone Density at Mendocino Index Sites - Comparison between Two Survey Cycles



Mean density declined slightly from 0.66 to 0.61 ab/m². This is a 8% drop in density from the 2003-2007 time period to the 2009-2011 time period. We do not have power to detect this small of a change



Summary of Results

- Fishery catch is different for both counties
- Sonoma average density is below ARMP trigger
- Significant decline in density for Sonoma
- Power analysis: Manage fishery by county

How do we move forward with area management?



Area Management Transition Concepts

- Stepwise process:
 - Phase 1: Split fishery area into two zones
 - Mendocino Co. north and Sonoma Co. south
 - Phase 2: Develop options for long term management implementation
 - Phase 3: Update the ARMP (concurrent with phase 2)



Next Steps

- Implement Phase 1
 - 25% catch reduction for Sonoma Co. south
- Ideas for managing Sonoma south differently than Mendocino north
- Workshop for input



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