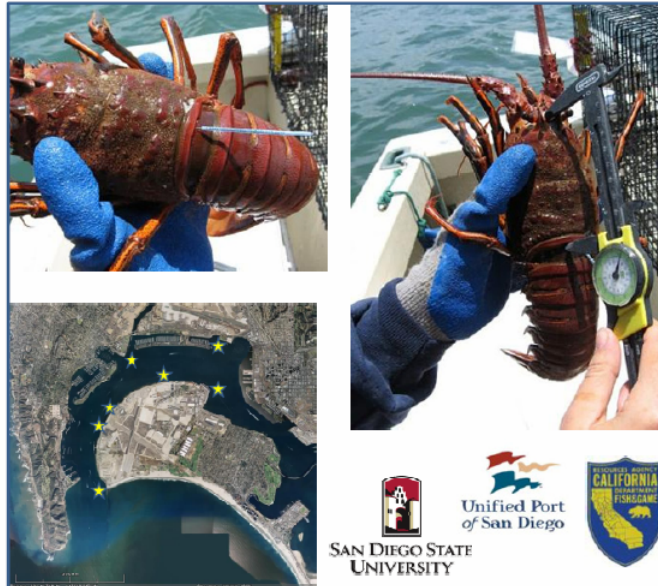


Movement and population size of spiny lobsters in San Diego Bay



Study objectives

1. Estimate the size of the spiny lobster population in San Diego Bay
2. Determine movement rates of spiny lobsters in San Diego Bay
 - Also rates of exchange with open coast

Research stations in SD Bay



Methods – tag & recapture

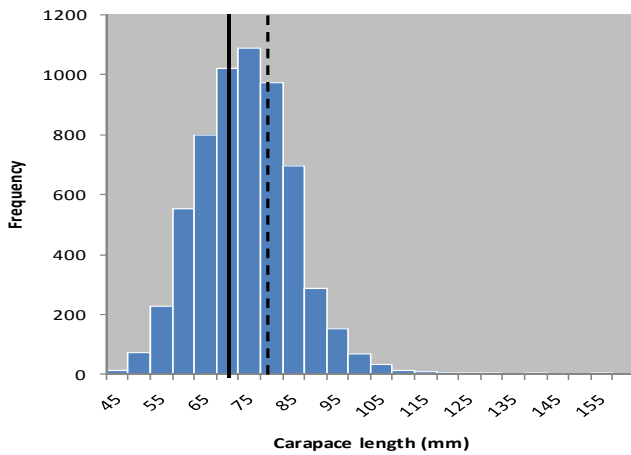


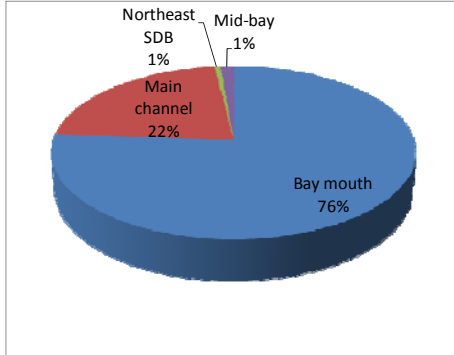
Methods - movement



Lobster size distribution

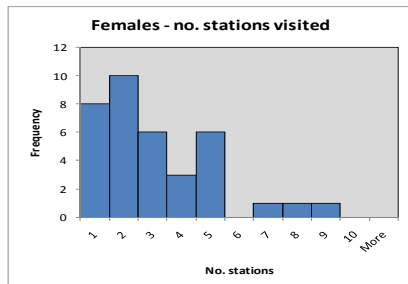
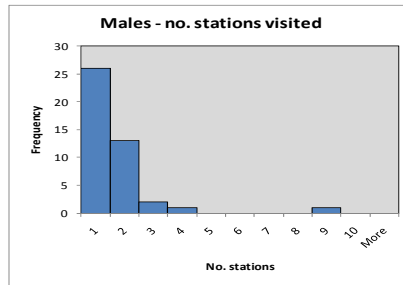
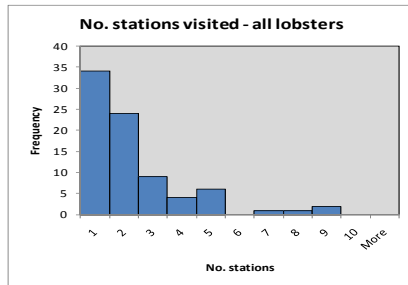
Size distribution of California spiny lobsters in San Diego Bay



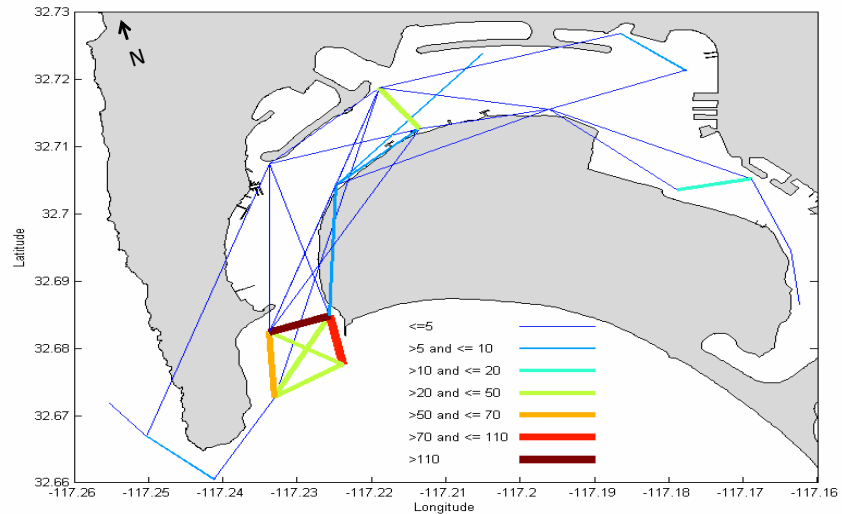


| Zone | Description | Schnabel equation | S-E equation |
|--------------|---|-------------------|----------------|
| 1 | Outside SDB (1, 2, 3) | NA | NA |
| 2 | Bay mouth (4, 5, 6, 7) | 71,644 | 80,955 |
| 3 | Northern ecoregion (8, 9, 10, 11, 12, 13, 16) | 20,613 | 25,634 |
| 4 | Northeast SDB (14, 15) | 543 | 758 |
| 5 | Central ecoregion (17, 18, 19, 20) | 1,293 | 1,494 |
| TOTAL | | 94,093 | 108,841 |

Lobster movement rates



Lobster movement rates



Conclusions

- San Diego Bay lobsters are relatively large and residential
- Most lobsters reside near the bay mouth and along the main channel
- Lobsters do not readily move out of San Diego Bay