

# SOUTHEAST DATA ASSESSMENT AND REVIEW DATA WORKSHOP

## SPINY LOBSTER



Florida Fish and Wildlife Conservation Commission

~~Fish & Wildlife Research Institute~~

~~Division of Marine Fisheries Management~~

Fish & Wildlife Research Institute



# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY

## SOURCES OF DATA

- Mail surveys of recreational lobster license holders
- Mandatory reporting of landings by 'Special Recreational License' holders
- Intercept surveys of recreational lobster fishers



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# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY

## Mail Surveys



### ➤ 1991-Recreational License Implemented

- 130,000 licenses sold annually

### ➤ 1992-Annual Mail Surveys Conducted

- Provide spatially-explicit estimates of landings & fishing effort
- 4,000 to 10,000 license holders surveyed annually

### ➤ Survey Periods

- Special Two-Day Sport Season
- Regular Season: **Opening Day through Labor Day**

2003 Special Two-Day Lobster Sport Season Survey

Please answer by marking the appropriate boxes.

1. We use zip codes to determine from whom our questionnaire are received. Please enter the zip code of your primary residence here.

2. How many years have you recreationally fished for lobsters?

I HAVE NEVER FISHED FOR LOBSTERS  
 THIS IS MY FIRST TIME  
 1-2 YEARS EXPERIENCE  
 3-5 YEARS EXPERIENCE  
 6-8 YEARS EXPERIENCE  
 9-11 YEARS EXPERIENCE  
 12-14 YEARS EXPERIENCE  
If more than 14 years please specify: \_\_\_\_\_ years

3. Did you fish for lobsters during the 2003 Special Two-Day Sport Season?

NO (END, please go to question #10)  
 YES

4. Please circle the region where you fished for lobsters during the 2003 Special Two-Day Sport Season.

Please circle the number indicating where you fished for lobsters during the 2003 Special Two-Day Sport Season.

5. Before you get out on the water in the Florida Keys can you please fish in the 2003 SPECIAL TWO-DAY SPORT SEASON in the Key West/ Marathon Key, please circle any areas you fished.

6. If you fished in Dade County, did you fish within the boundaries of Biscayne National Park (e.g., on the ocean side of Sable Key, Snake Key, Elliot Key, or Ragged Key)?

YES  NO  NOT SURE

7. When fishing for lobsters during the 2003 Special Two-Day Sport Season, did you generally...

FISH BY YOURSELF  
 FISH WITH FAMILY OR FRIENDS  
 FISH WITH A GROUP ON A CHARTER BOAT  
 OTHER (PLEASE SPECIFY) \_\_\_\_\_

8. If you fished with family or friends, how many people (include yourself) was in your group (for example, on your boat)?

\_\_\_\_\_ people

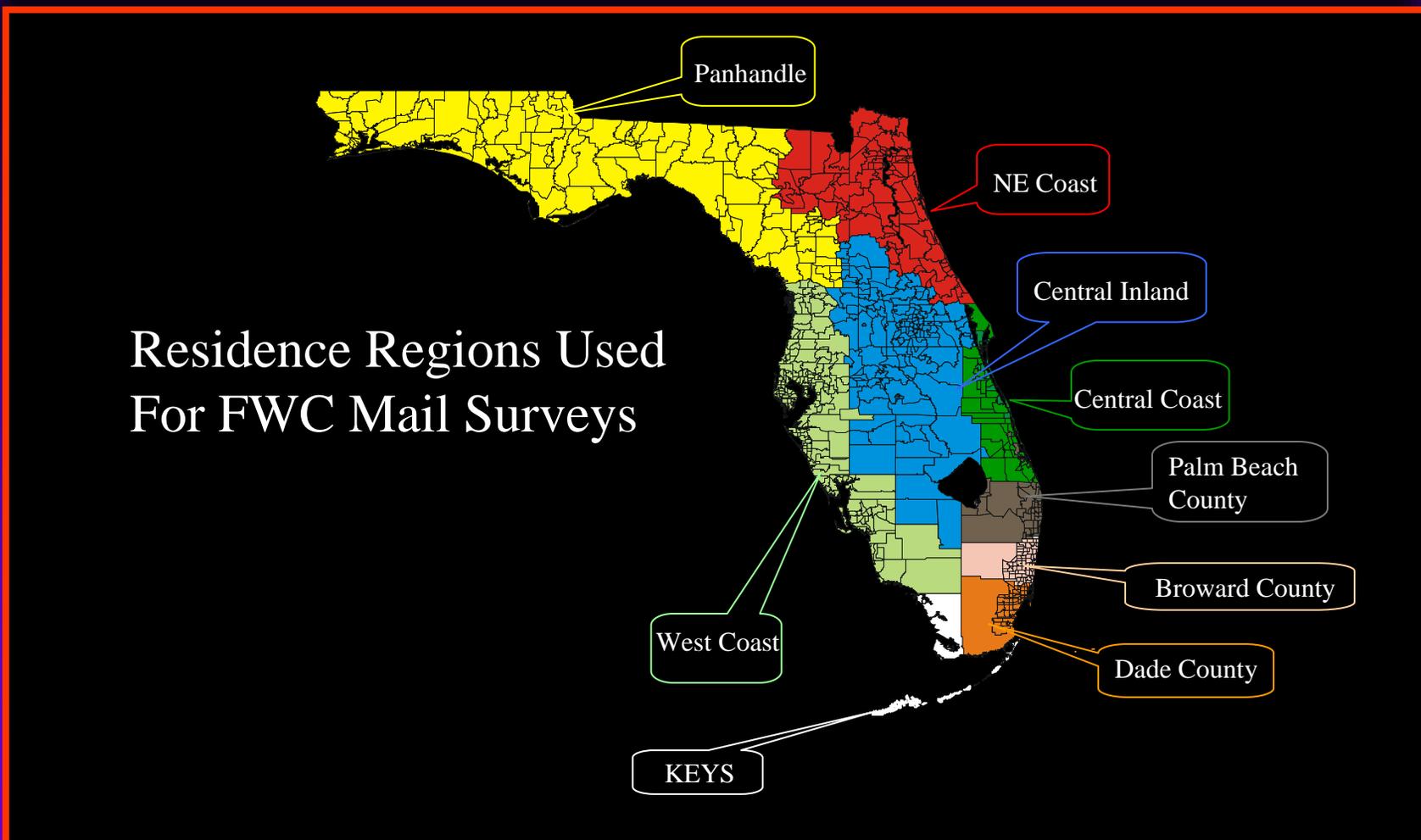
**IMPORTANT**  
Any person under 18 years of age or any Florida resident aged 65 or over is not required to possess a fishing license or lobster (spiny) license. How many in your group did not require a fishing license?

\_\_\_\_\_ people(s)

The form includes two maps. The first map shows Florida divided into regions: 1. South of the Suwannee River, 2. Central Florida, 3. North of the Suwannee River, 4. Panhandle, 5. Florida Keys, 6. Dade County, 7. Monroe County, 8. Collier County, 9. Hendry County, 10. Alachua County, 11. Suwannee County, 12. Levy County, 13. Citrus County, 14. Hernando County, 15. Hillsborough County, 16. Manatee County, 17. Polk County, 18. Volusia County, 19. Orange County, 20. Seminole County, 21. Duval County, 22. Clay County, 23. St. Johns County, 24. Alameda County, 25. Santa Fe County, 26. Nassau County, 27. Duval County, 28. Clay County, 29. St. Johns County, 30. Alameda County, 31. Santa Fe County, 32. Nassau County, 33. Duval County, 34. Clay County, 35. St. Johns County, 36. Alameda County, 37. Santa Fe County, 38. Nassau County, 39. Duval County, 40. Clay County, 41. St. Johns County, 42. Alameda County, 43. Santa Fe County, 44. Nassau County, 45. Duval County, 46. Clay County, 47. 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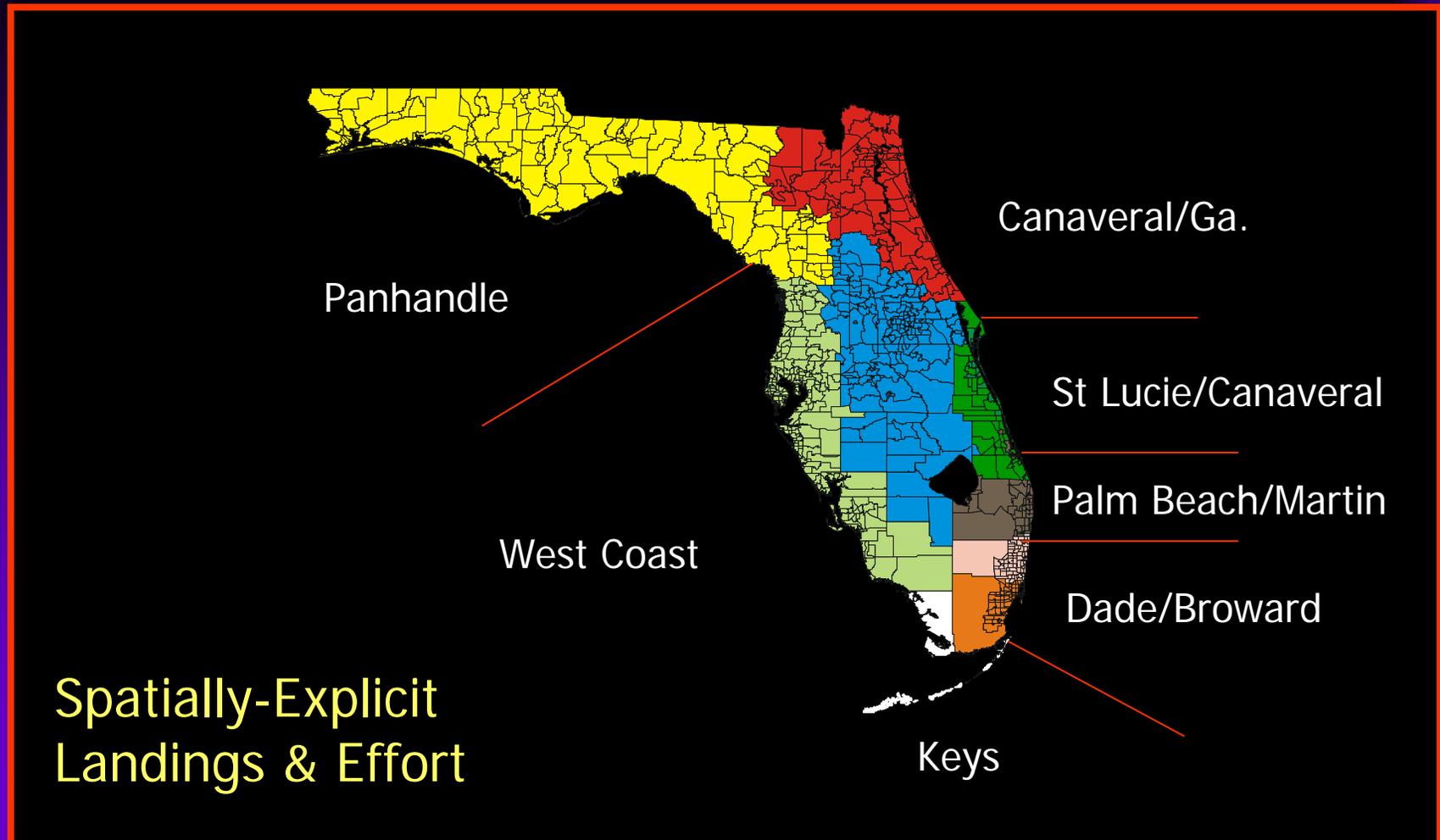
# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY

## Mail Surveys



# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY

## Mail Surveys

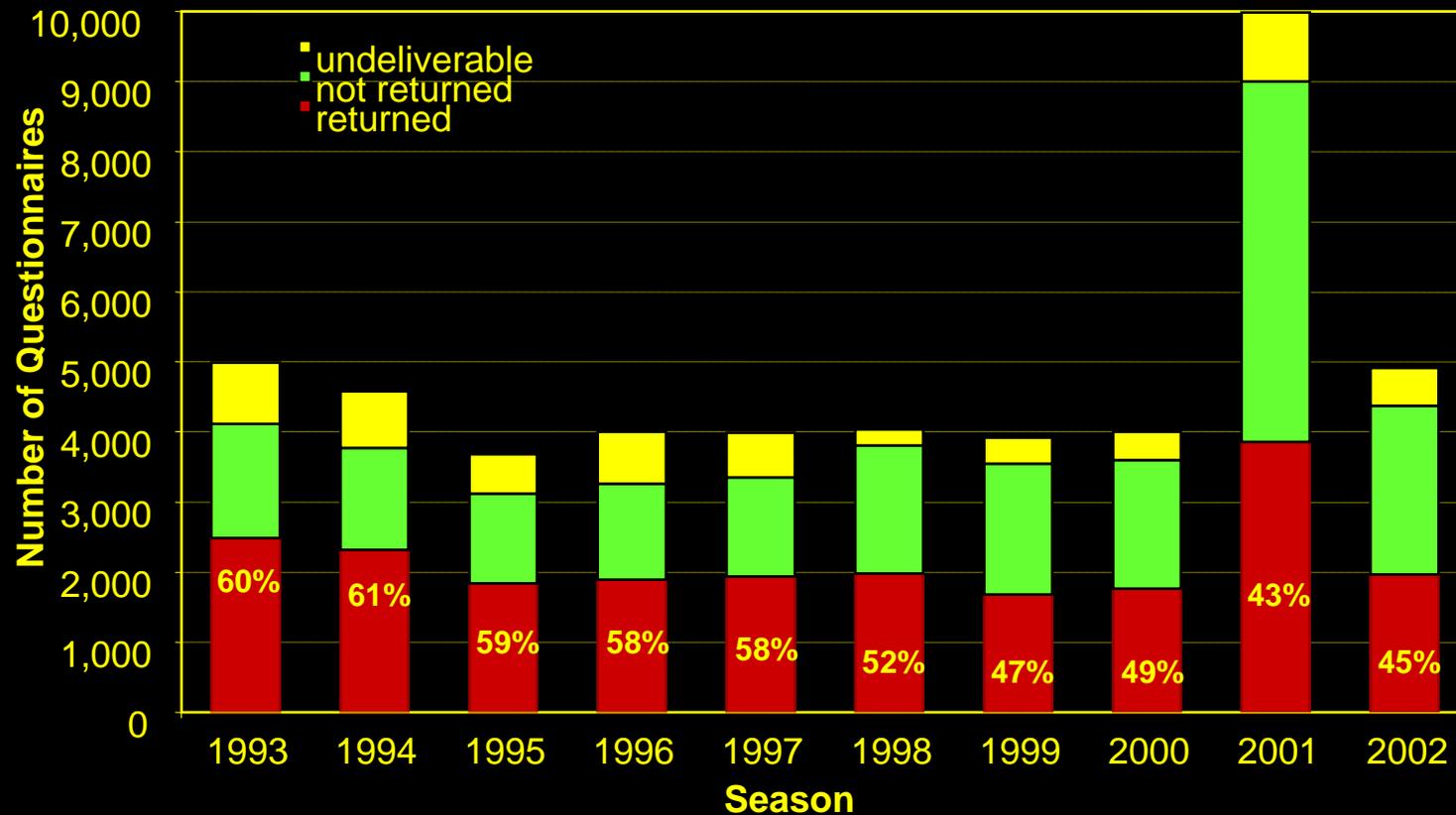


# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY



## Mail Surveys

Response Rates



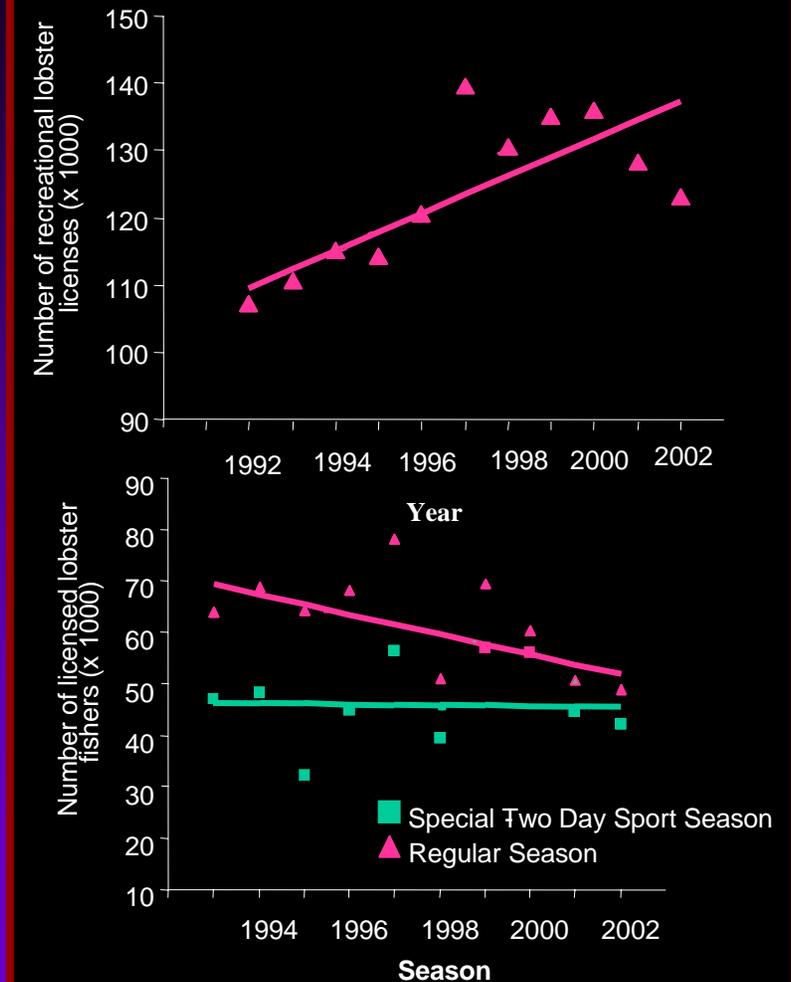
# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY

## Mail Surveys



Annual Recreational Lobster License Sales

Estimated Number of Recreational Lobster Fishers

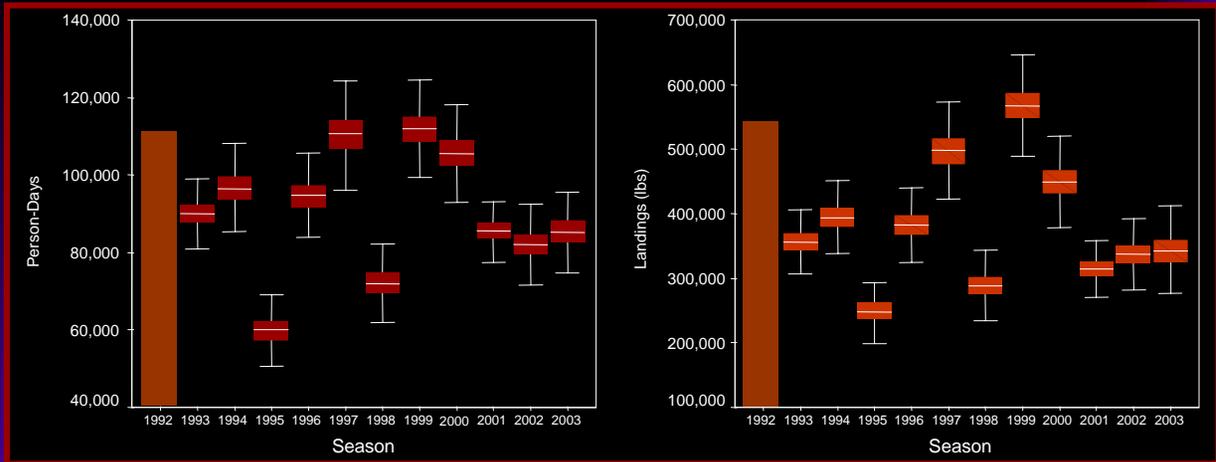


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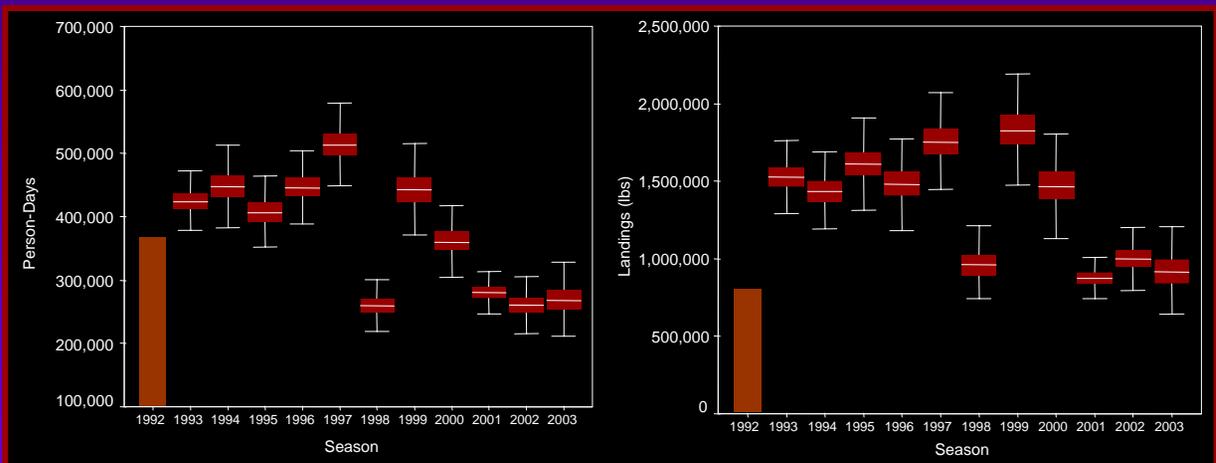
## Mail Surveys



**Special Two-Day Sport Season**



**Regular Season**

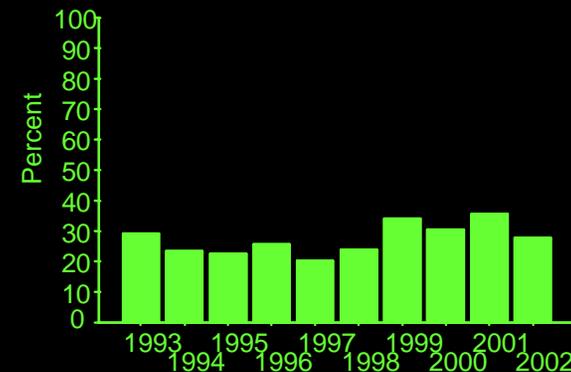
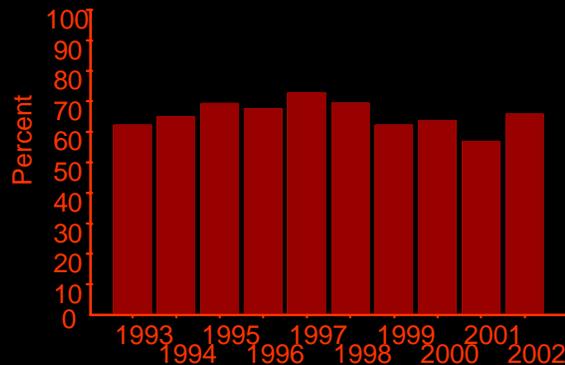
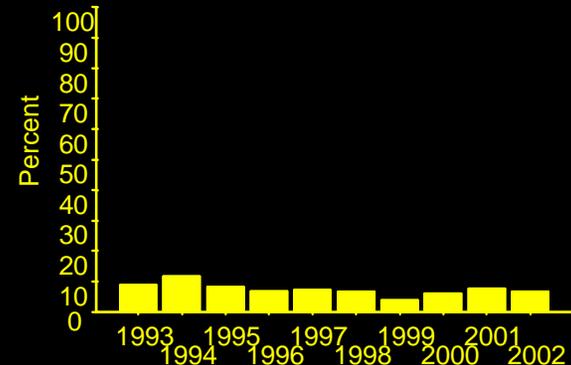
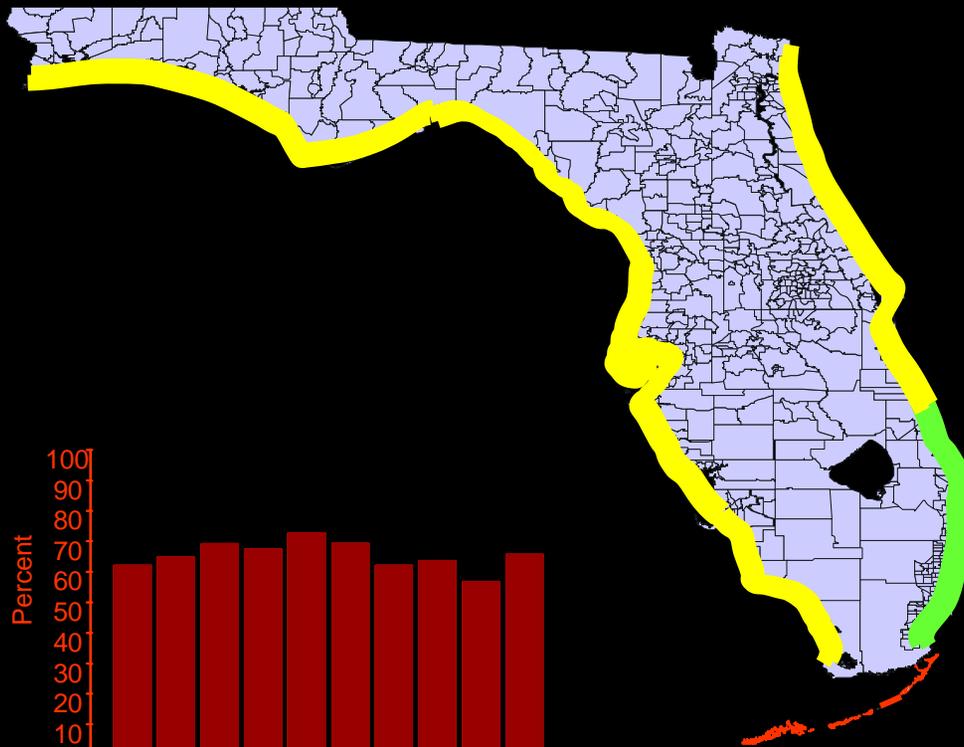


# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY

## Mail Surveys



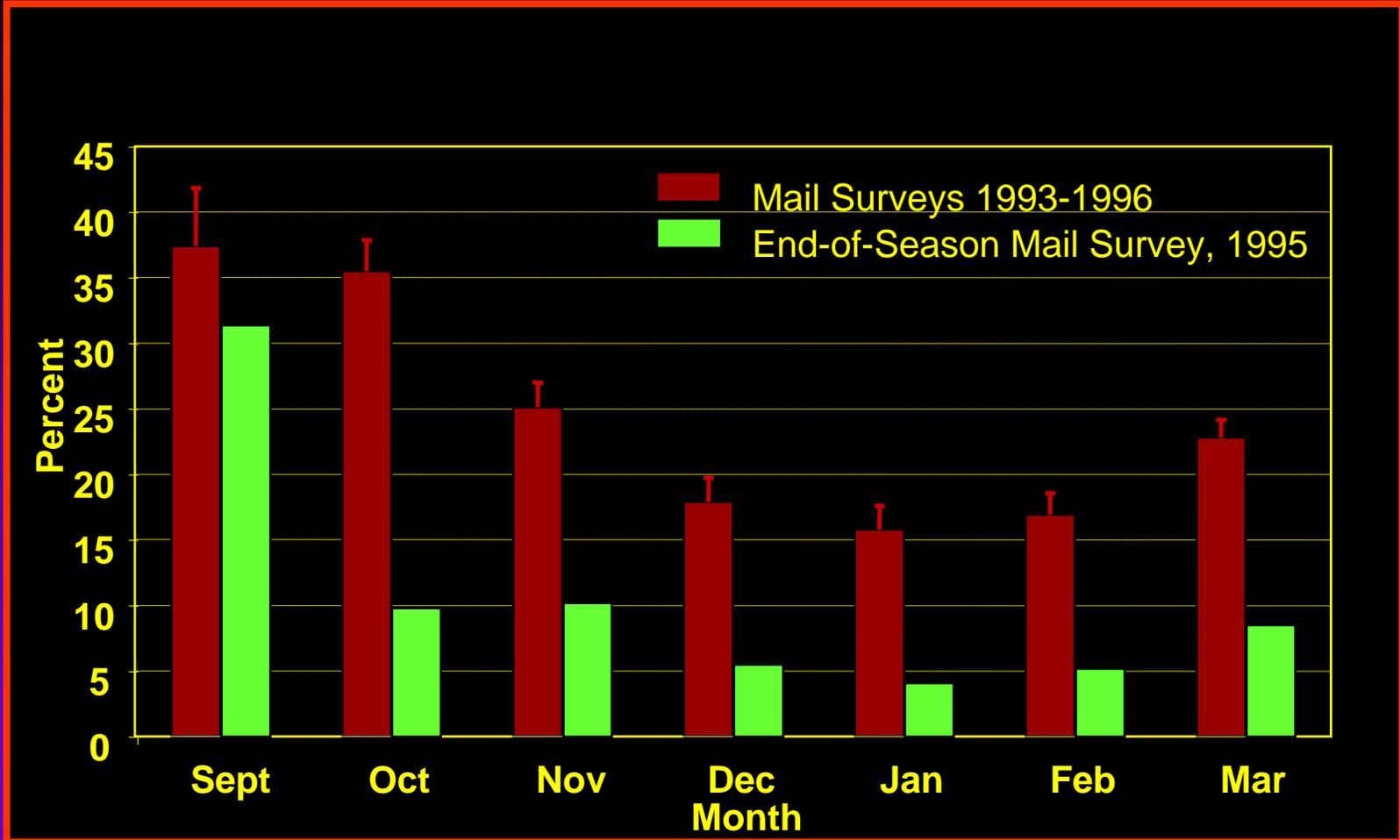
### Regional Landings – Regular Season 1993 - 2002



# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY



## Mail Surveys



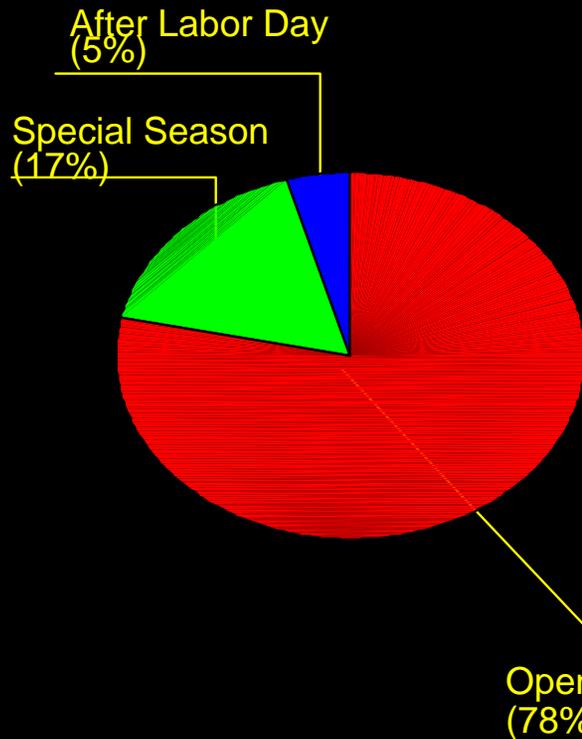
# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY

## Mail Surveys

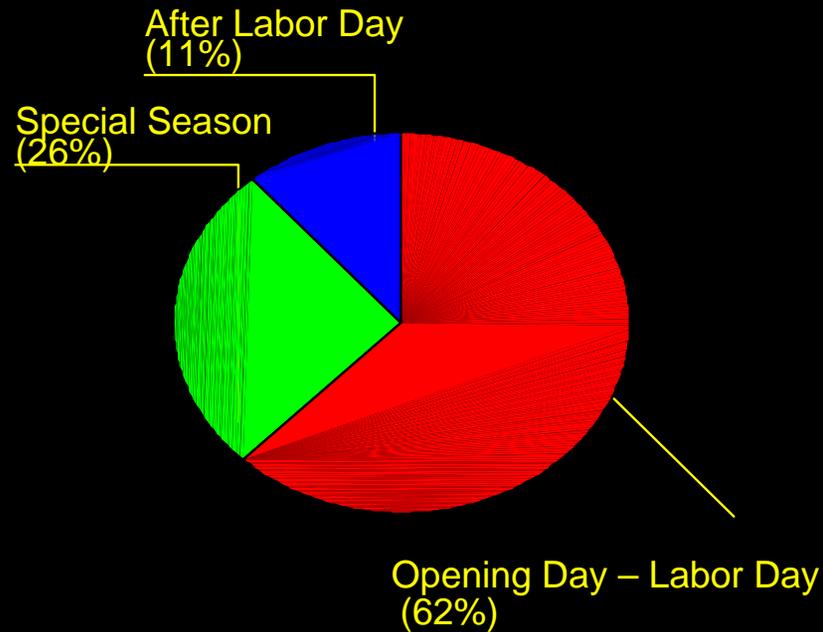


### *Landings & Effort : 1994/95 End-of-Season Survey*

#### Person-Days



#### Landings

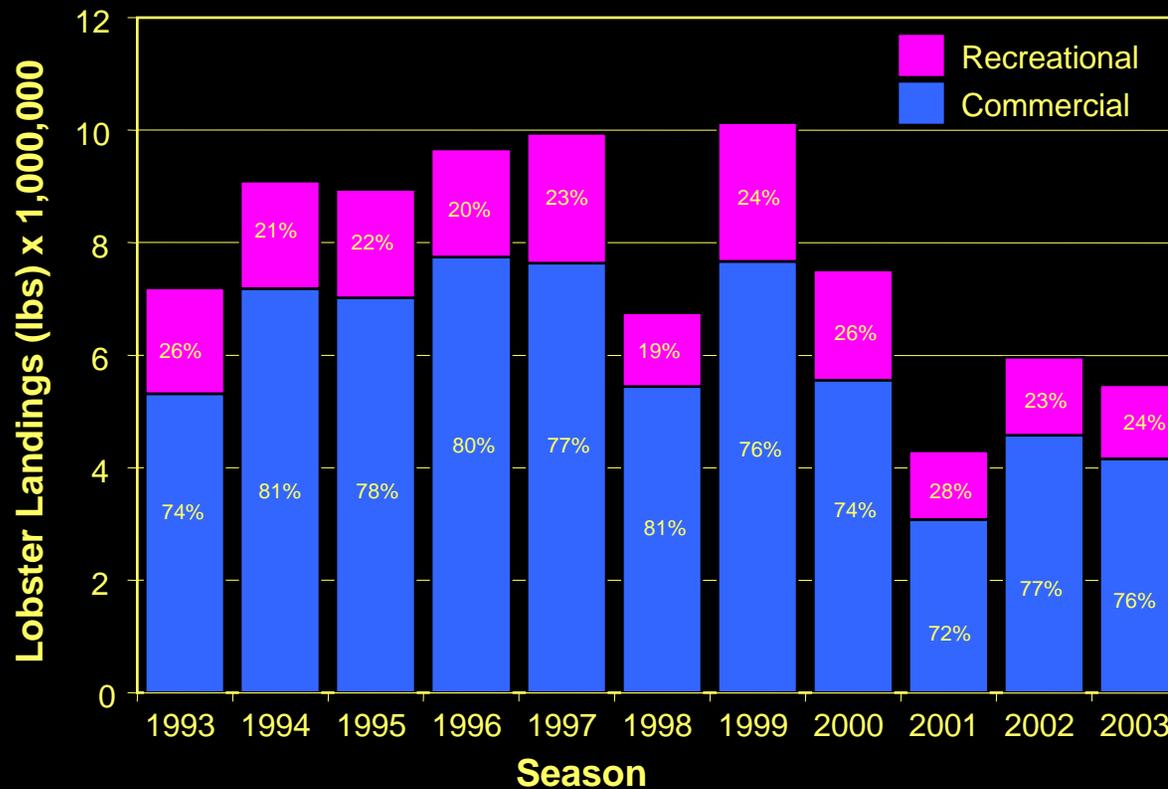


# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY

## Mail Surveys



*Reported Commercial Landings & Estimated Recreational Landings  
1993-2003*



# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY

## SOURCES OF DATA

- Mail surveys of recreational lobster license holders
- Mandatory reporting of landings by 'Special Recreational License' holders
- Creel surveys of recreational lobster fishers



# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY

## Special Recreational License



- Available to a selected few fishers
  - Higher bag limit than regular license
  - Requires mandatory reports to FWC
- Implemented in 1994; being phased-out by annual reduction of bag limit
- License holders have progressively decreased from ~ 500 in 1994 to ~ 300 by 2004

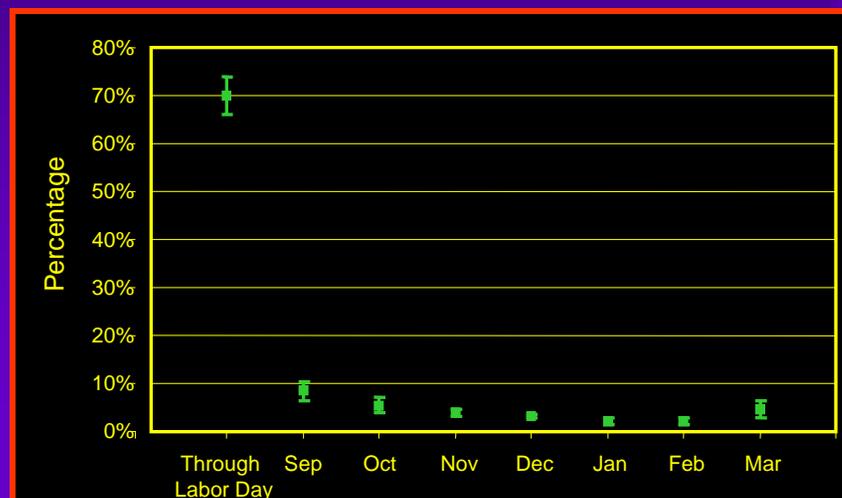
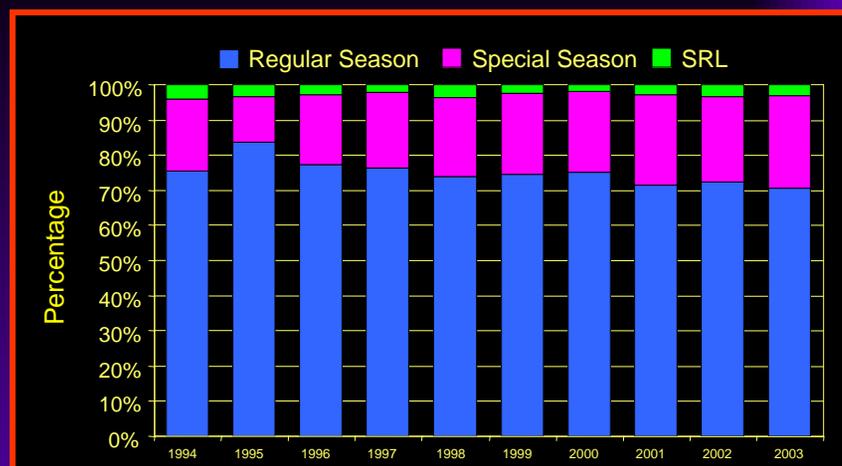


# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY

## Special Recreational License



- Negligible proportion of recreational lobster landings
- Provides means to monitor changes in post Labor Day fishing effort



# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY

## SOURCES OF DATA

- Mail surveys of recreational lobster license holders
- Mandatory reporting of landings by 'Special Recreational License' holders
- Creel surveys of recreational lobster fishers



# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY Creel Survey-2002



- Objective 1: Evaluate 'recall' & 'prestige' bias in mail surveys
  - Conducted creel surveys of lobster fishers in the FI Keys; collected catch, effort, & fisher demographic data
  - Data were compared to 2002 mail surveys
- Objective 2: Collected length-frequency data of recreationally landed lobsters



# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY Creel Survey-2002



- A total of 749 intercept surveys were conducted
  - 304 Special Two-Day Season
  - 445 Regular Season
- Interviews conducted at: public boat ramps, marinas, hotels, boat rental businesses
  - But: No Interviews From Residential Canals*
- 455 completed mail surveys received from recipients that fished for lobster in Keys
- 3,759 lobsters measured

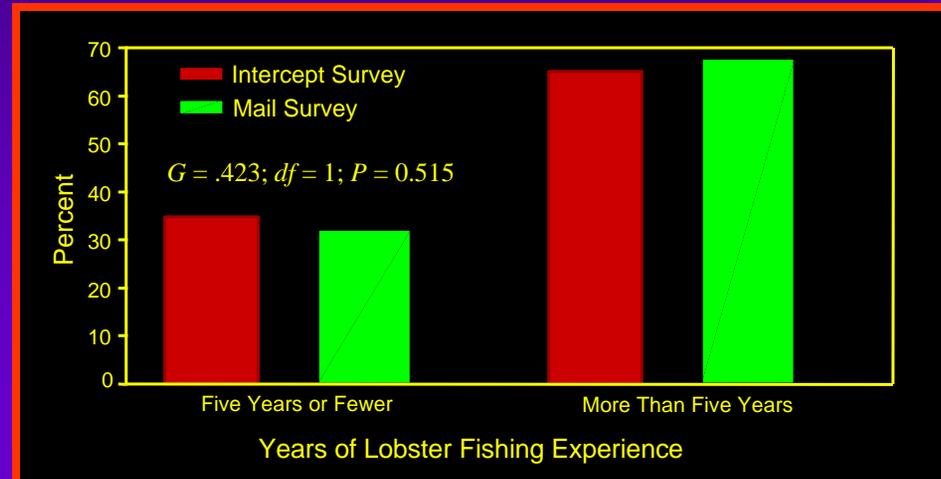
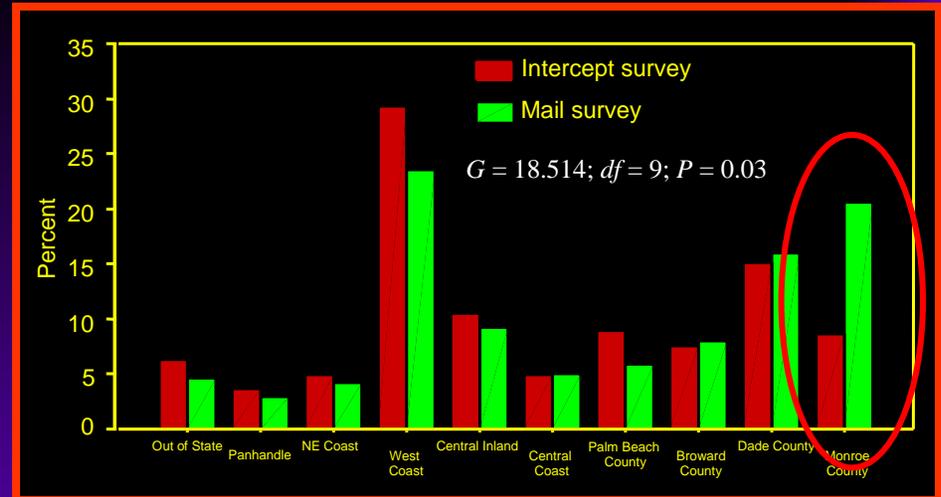


# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY Creel Survey-2002



## Fisher Demographics

- Local fishers under-sampled
- Fishing experience similar

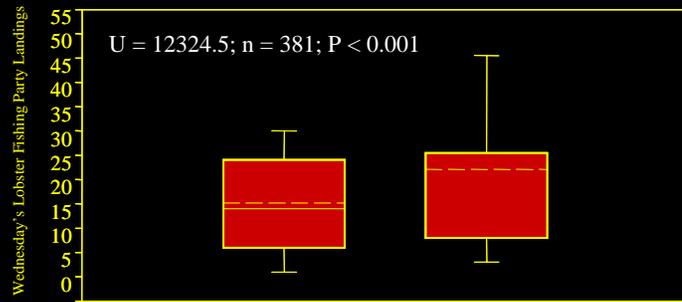


# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY Creel Survey-2002



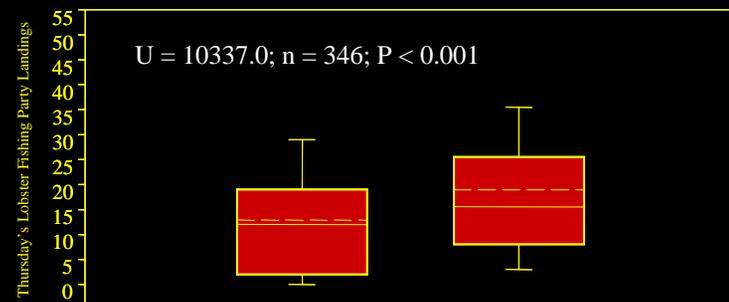
## Comparison of Fishing Party CPUE

Special Two-Day Special Sport Season



Creel Survey

Mail Survey



Creel Survey

Mail Survey

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-10.966	2.676		-4.099	.000
Fishing Party Size	3.675	.235	.616	15.633	.000
Fishing Experience	5.396	1.140	.180	4.733	.000
Survey Type	2.524	1.127	.088	2.240	.026

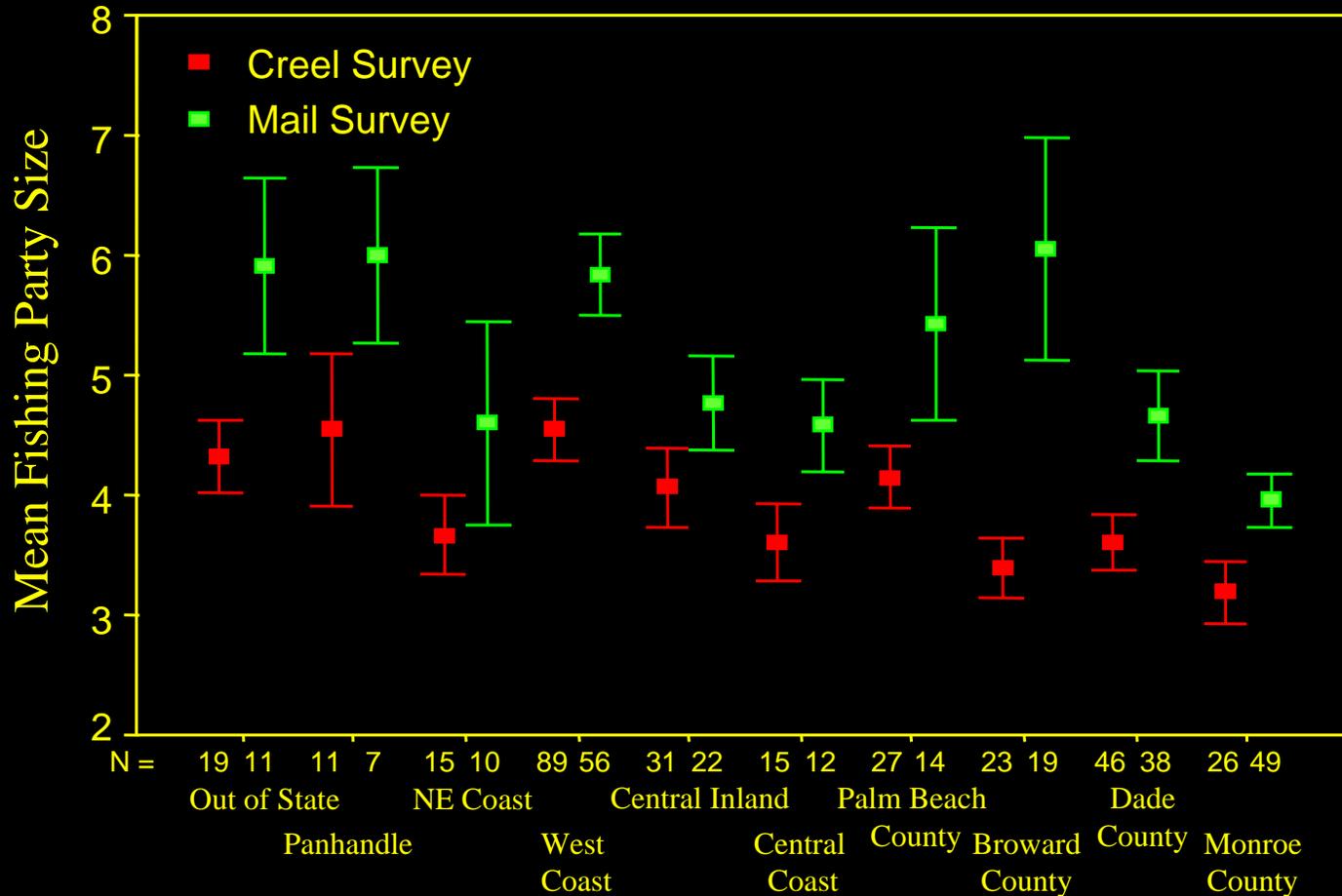
	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-10.087	2.525		-3.995	.000
Fishing Party Size	3.043	.266	.517	11.422	.000
Fishing Experience	5.046	1.238	.178	4.075	.000
Hours Fished	.821	.297	.124	2.760	.006

# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY

## Creel Survey-2002



### Special Two-Day Sport Season

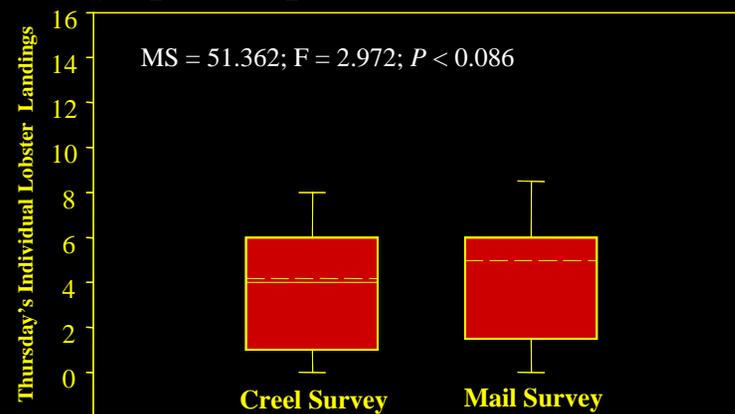
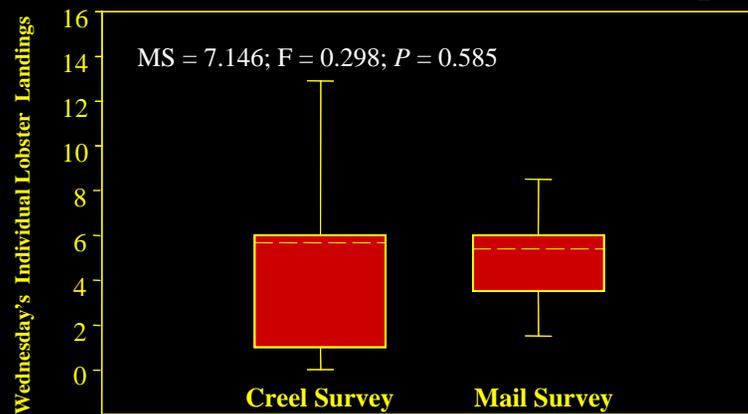


# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY

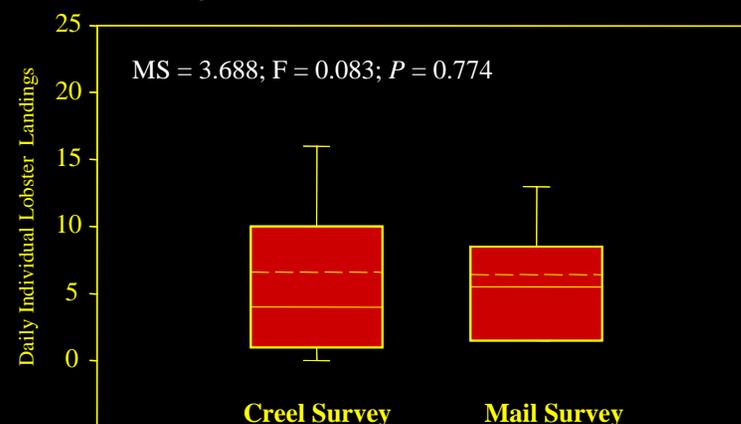
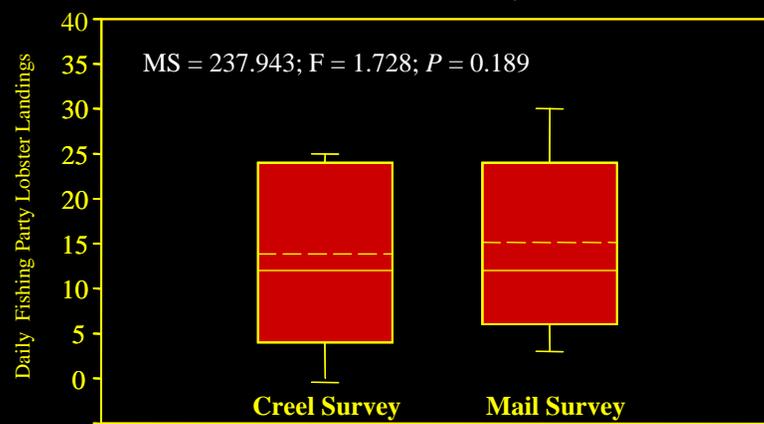
## Creel Survey-2002



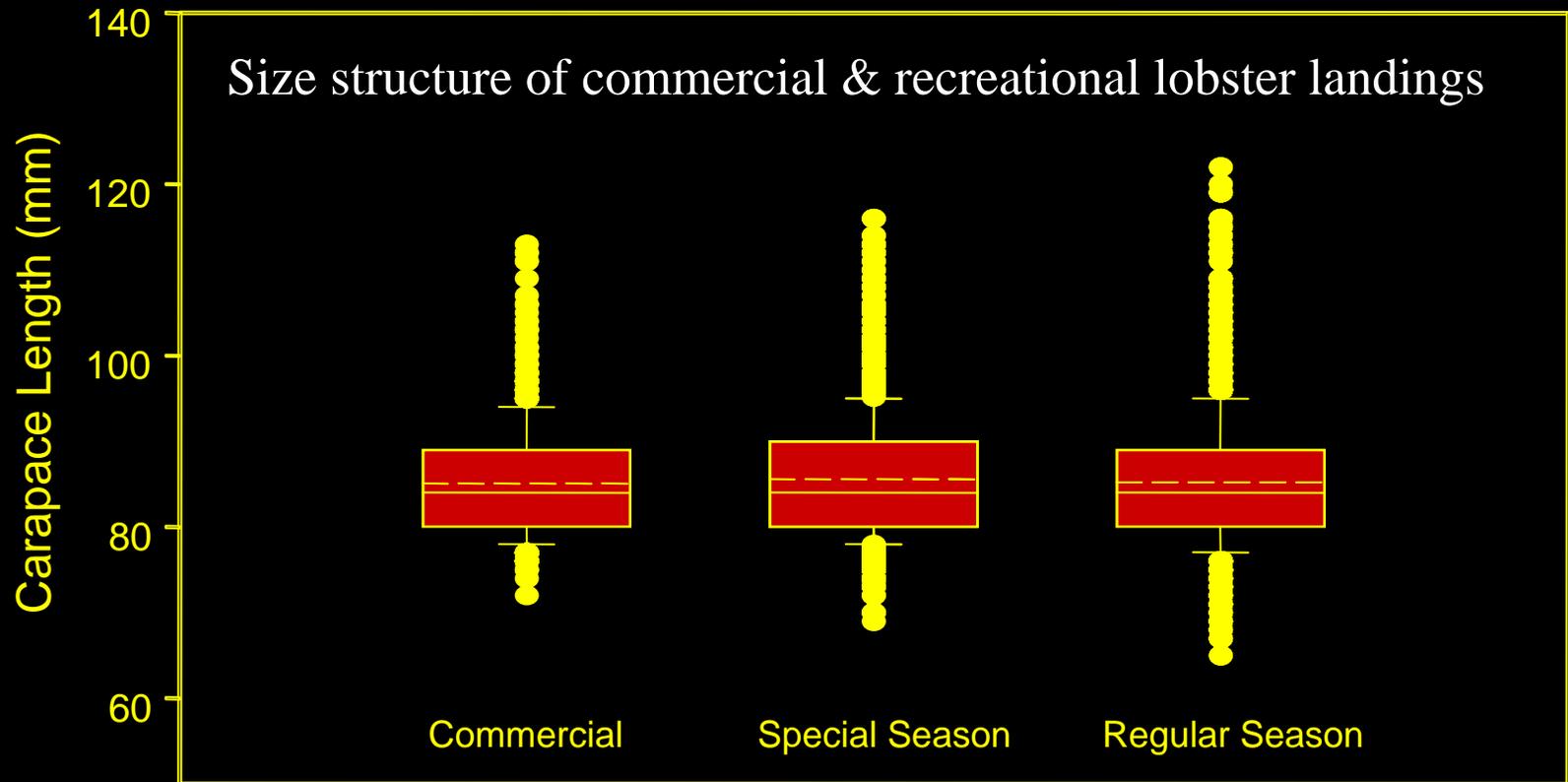
Individual Catch Rates- Special Two-Day Special Sport Season



Fish Party & Individual Catch Rates- Regular Season



# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY Creel Survey-2002



# SOUTHEAST DATA ASSESSMENT AND REVIEW DATA WORKSHOP

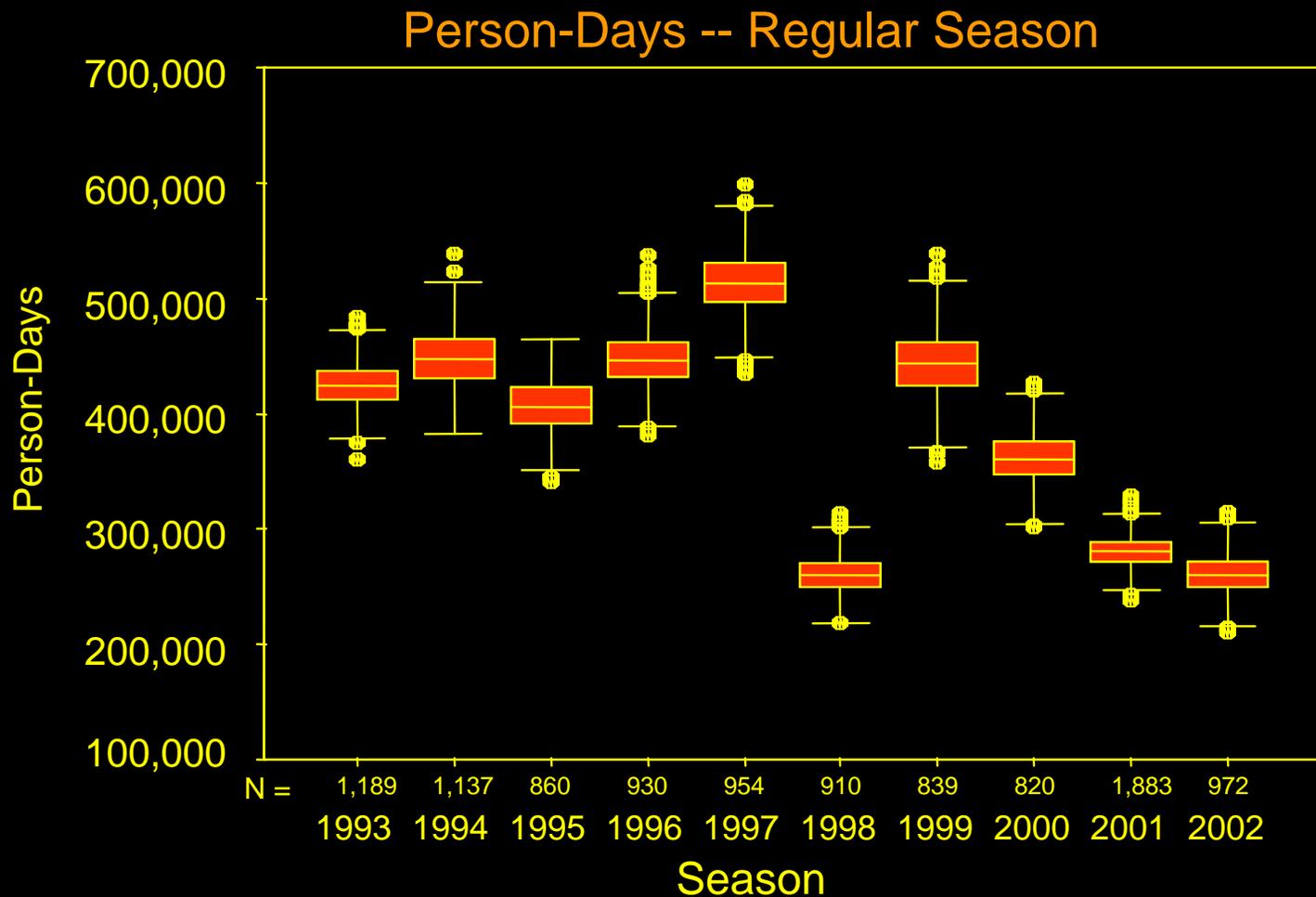


## SPINY LOBSTER



# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY

## Mail Surveys



# FLORIDA RECREATIONAL SPINY LOBSTER FISHERY

## Mail Surveys



### Landings -- Regular Season

