

**North Carolina Division of
Marine Fisheries**

For-Hire Survey

**Presentation to the Marine
Fisheries Commission
1/23/2009**

For-Hire Survey

- ❑ Background
- ❑ Purpose/Need For Change
- ❑ New Methodology
- ❑ Results
- ❑ Looking Ahead

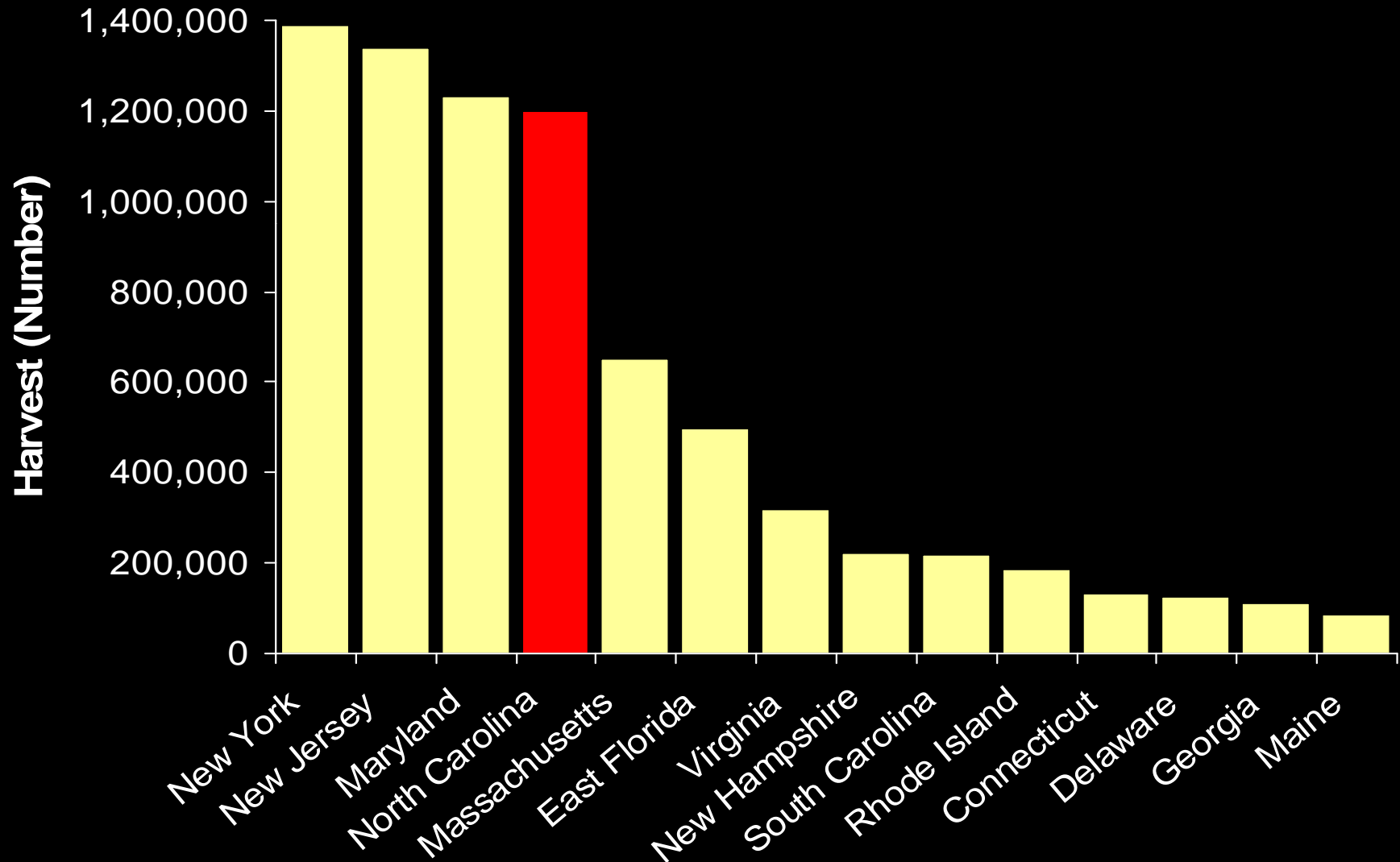
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Background

- ❑ North Carolina Coastwide Contribution
- ❑ Primary Species Landed
- ❑ Changes in Fleet Size
- ❑ Participant Demographics

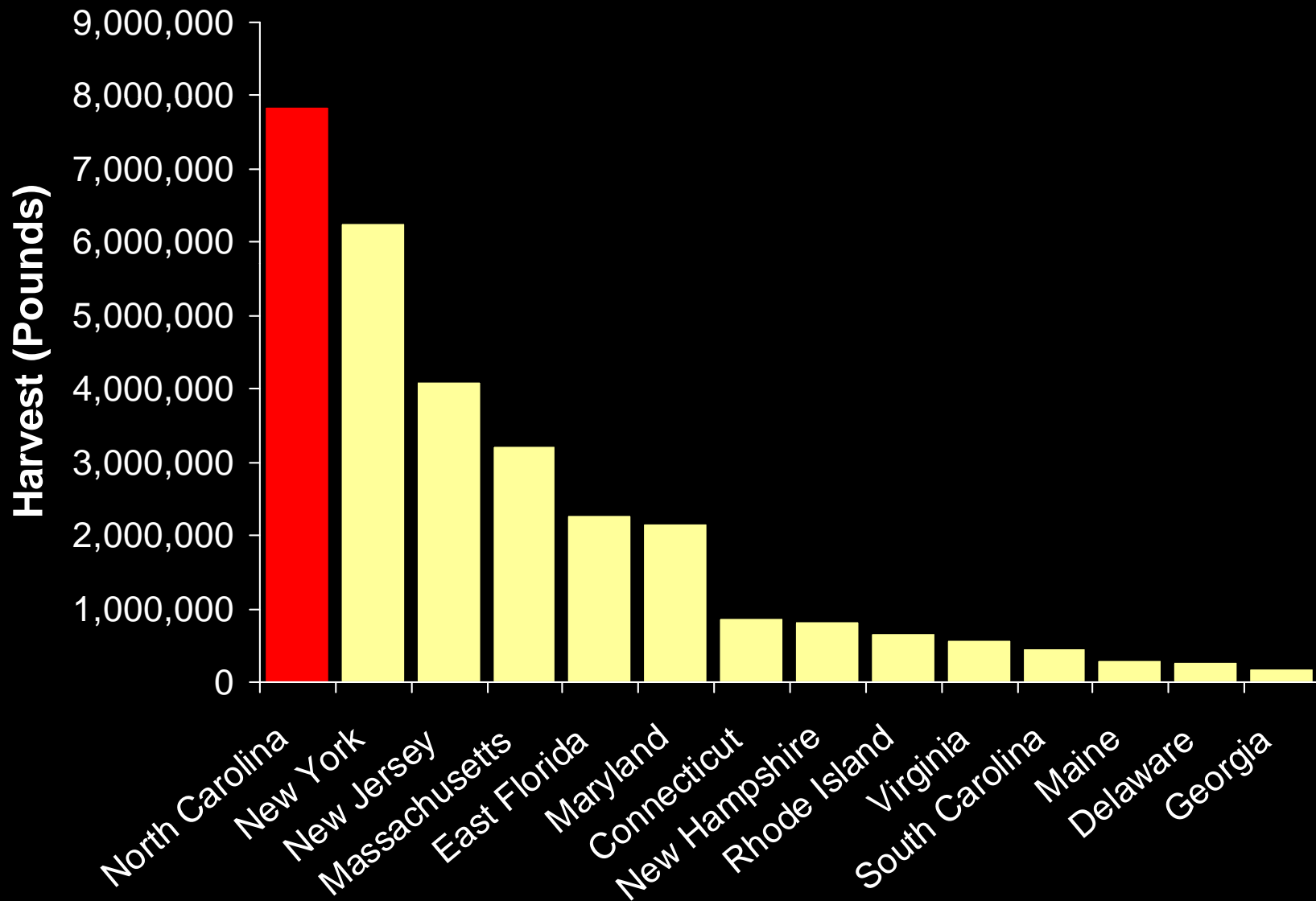
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Harvest (Number of Fish Landed 2007)



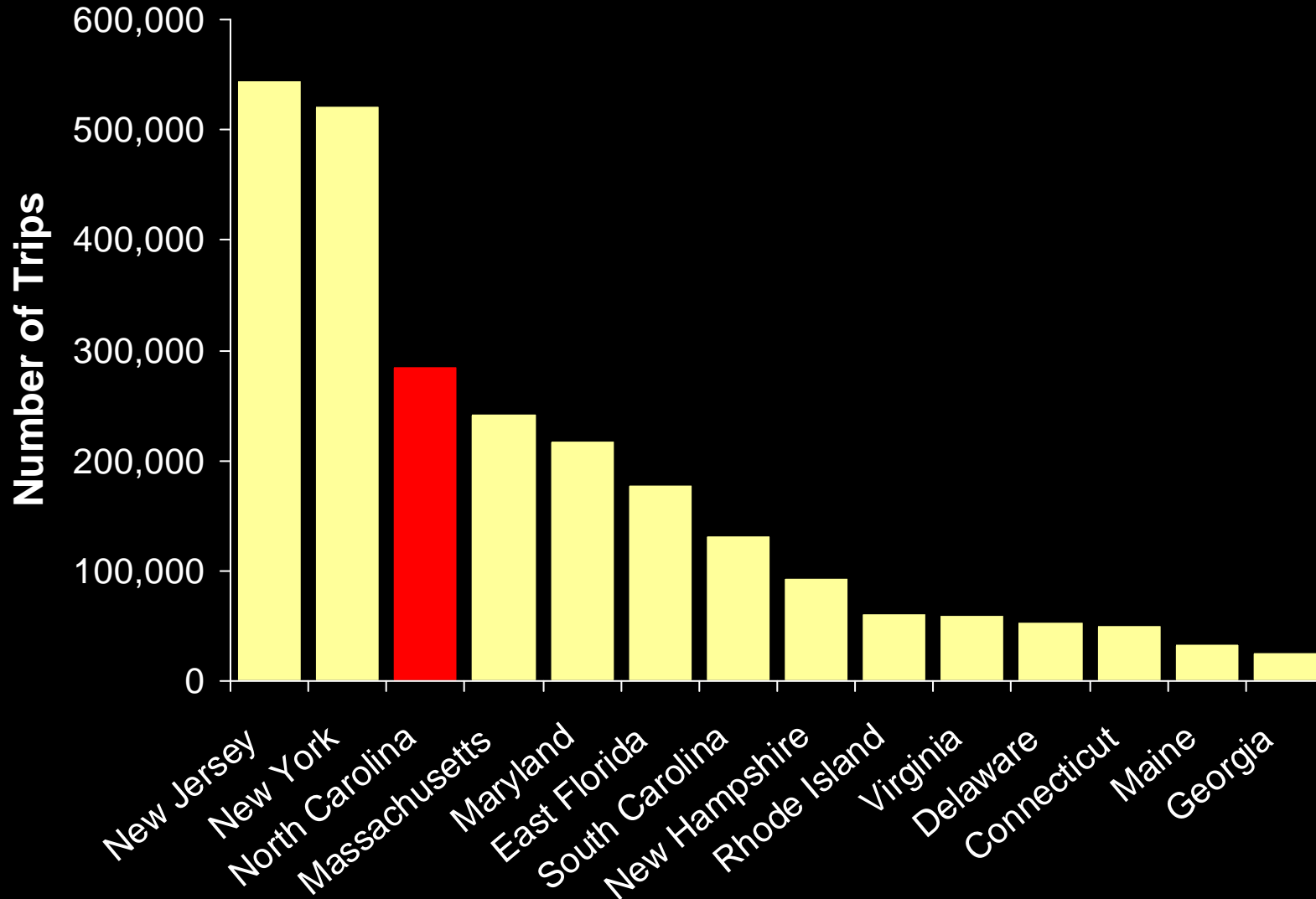
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Harvest (Pounds of Fish Landed 2007)



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Number of Trips (2007)



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Primary Species Targeted During 2007

(Top 5)

Target Species	Number	Percent	Rank
Tuna Genus	411	36.5	1
Yellowfin Tuna	213	18.9	2
Striped Bass	159	14.1	3
Dolphin	101	9.0	4
Billfish Family	48	4.3	5

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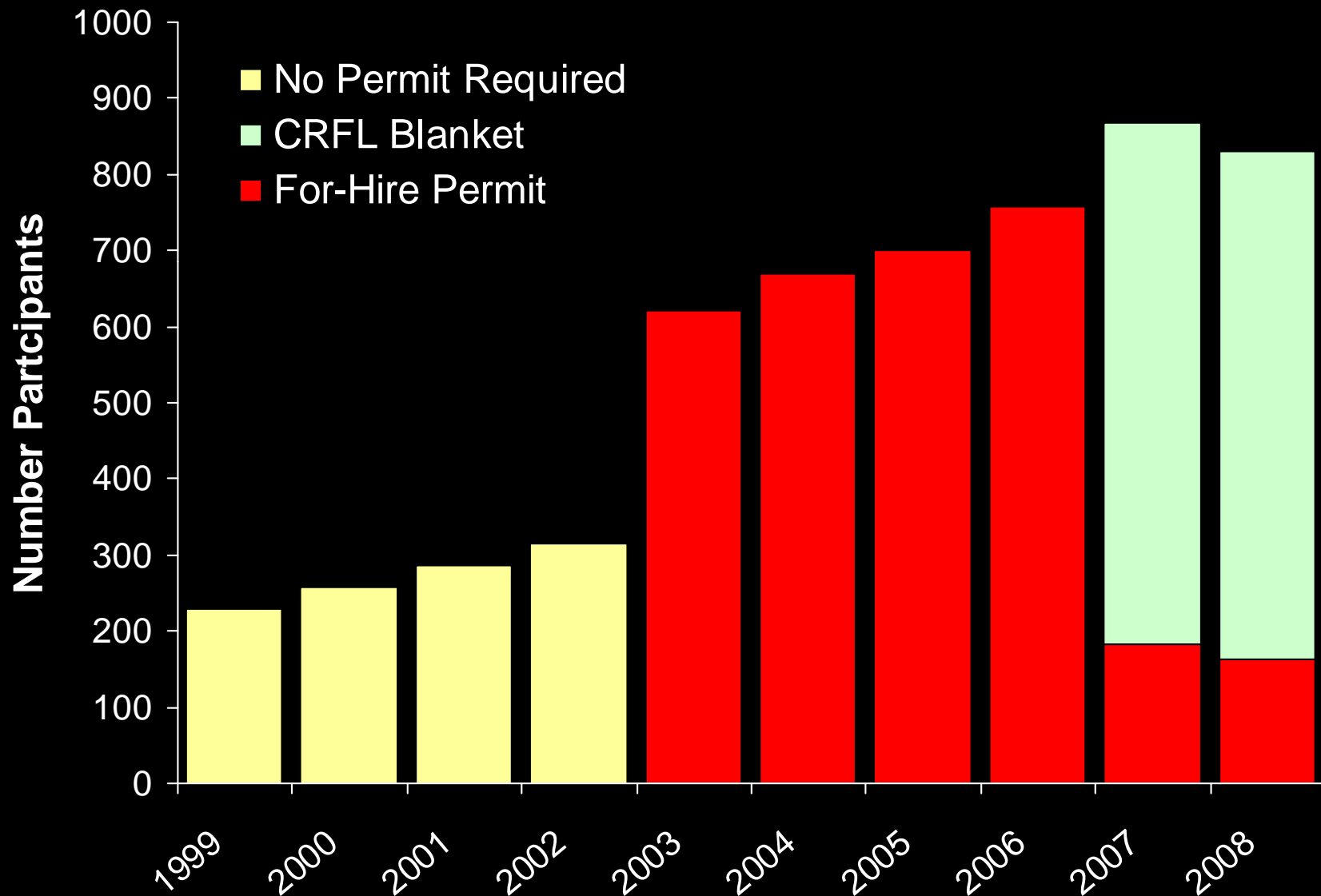
Primary Species Landed (number) During 2007

(Top 5)

Species	Number	Percent	Rank
Dolphin	411,242	34.3	1
Bluefish	145,850	12.2	2
White Grunt	90,813	7.6	3
Vermilion Snapper	77,454	6.5	4
Yellowfin Tuna	65,890	5.5	5

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Changes in Fleet Size By Permit Requirement



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Demographics (Angler Residency) 2007

Headboat

Charter

Rank	Headboat		Charter			
	State of Residence	Number	Percent	State of Residence	Number	Percent
1	North Carolina	299	29.7	North Carolina	716	31.9
2	Virginia	152	15.1	Virginia	667	29.7
3	Pennsylvania	88	8.7	Maryland	216	9.6
4	Ohio	80	7.9	Pennsylvania	186	8.3
5	Maryland	62	6.2	New Jersey	84	3.7
6	New York	38	3.8	South Carolina	52	2.3
7	West Virginia	34	3.4	New York	46	2.1
8	New Jersey	32	3.2	West Virginia	43	1.9
9	South Carolina	31	3.1	Ohio	36	1.6
10	Indiana	30	3.0	Delaware	24	1.1
Total		846	84.01		2,070	92.08

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Vessels By County Port of Landing

County	Year						Percent Change
	2003	2004	2005	2006	2007	2008	
Dare	235	245	244	239	261	260	10.6
Carteret	131	142	174	189	202	200	52.7
New Hanover	81	89	94	105	120	119	46.9
Brunswick	78	69	68	80	92	99	26.9
Onslow	14	29	24	35	26	24	71.4
Pender	12	8	11	17	16	22	83.3
Pamlico	10	10	8	4	9	11	10.0
Beaufort	9	5	9	11	13	10	11.1
Hyde	9	12	18	18	22	15	66.7
Chowan	3	2	4	3	2	3	0.0
Currituck	3	5	1	6	8	4	33.3
Craven	2	3	1	2	5	5	150.0
Other counties	5	6	5	7	9	9	80.0
Out of State	1	1	1	9	48	30	2900.0
Total	593	626	662	725	833	811	36.8

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Purpose/Need for Change

- ❑ Problems with existing methodology
- ❑ ACCSP evaluation/study
 - ❑ 3 way comparison (MRFSS, logbooks, Captains calls) in South Carolina

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Problems with existing methodology

- ❑ Very low contact rate on telephone survey (high percentage out-of-state)
- ❑ Pooling of data was required
- ❑ Low dockside sample size
- ❑ Results lacked credibility
- ❑ Discard problem headboat

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ACCSP 3 Way Comparison Conclusions

- ❑ ACCSP recommendations based on consensus
 - ❑ **MRFSS**- Least preferred
 - ❑ Results lacked credibility
 - ❑ Difficult to capture guideboat data
 - ❑ Dockside sample very low

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Logbook Evaluation

Advantages

- ❑ Logbook approach more credible among constituents
- ❑ Offer more timely data (potential quota monitoring instrument)
- ❑ Logbooks would be mandatory and enforceable
- ❑ Considered a census with no missing data
- ❑ No “mumbo jumbo science”

Disadvantages

- ❑ Out-of-State and part time may operate without license
- ❑ Must be validated (25%) under-reporting
- ❑ Biological data not available
- ❑ No way to statistically evaluate error
- ❑ Requires a licensing/permit system

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Vessel Directory and Captains Calls Evaluation

Advantages

- ❑ Not as much burden as logbooks
- ❑ Comprehensive frame needed but could adjust
- ❑ Biological data obtained dockside
- ❑ Analytical ways to measure error
- ❑ Improvements in results

Disadvantages

- ❑ Credibility issues, most question survey results
- ❑ Estimates not very timely
- ❑ Need observers to sample discards
- ❑ Cost more than logbooks
- ❑ Not all states can require a license or permit

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ACCSP 3 Way Comparison Conclusions (cont')

To Make a Long Story Short

- ❑ ACCSP Committee split on recommendation
- ❑ NOAA supported the “Captains Call Surveys”
- ❑ NOAA is paying for the programs
- ❑ Guess which one we decided to use

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New Methodology (Captains Calls)

- ❑ Comprehensive List of vessels
 - ❑ Permits pre-CRFL
 - ❑ Blanket license with rule requiring permit if no CRFL
- ❑ 10% vessels randomly contacted each week
- ❑ Notification (warm-up) letter with trip log sent 2 weeks ahead
 - ❑ Warm-up letter has PIN for webtool
 - ❑ Trip log to record trips that can be faxed
 - ❑ Survey and contact information for questions

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New Methodology (Captains Calls)

Reporting Options Available

Captain can wait to be called

- Sampler must make 10 attempts

Fax in log

- 1 or 2 logs faxed each weeks

Use webtool

- 1 or 2 Captains use webtool each week
- Less than 5% coastwide



[Help](#)



Please enter your PIN to login and begin the For-Hire Survey.

[Login >>](#)

We are currently collecting data for the week of Monday, 11/ 3 - Sunday, 11/ 9



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Welcome

This is your first login during this sampling period. Thank you for your participation.

Introduction

You have logged into the For-Hire Survey for vessel .

We are currently collecting information on trips taken during the **week of Monday, 11/ 3 - Sunday, 11/ 9.**

- Start the survey**
- I am not the contact for this vessel**
- Boat sold**
- This vessel does not do any for-hire fishing**


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Vessel Verification

Please verify your vessel and representative information in the form below.

Vessel Information

Name

State Registration or Coast Guard Documentation Number
(e.g. State Registration Examples: MD1234AB; NC1234A and Coast Guard Documentation Example: 5555555)

Port State ▾

Does this vessel have a current Atlantic HMS Permit?
Yes No

Are you currently operating this vessel For-Hire (Is this vessel currently active)?
Yes No

Representative Information

First name

Last name

Address

City

State ▾

Zip Code
(example: 11111 or 11111-2222)

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What category HMS permit does the vessel have?

- General
- Angling
- Charter/Headboat
- Don't Know

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Trip summary for vessel for the trip week Monday, 11/ 3 - Sunday, 11/ 9.

Enter all trips which ended during your trip week.

No trips have been entered for your trip week.

Use the 'Add a trip' button to start entering your trips.

[Add a trip >>](#) [No Trips Taken / Did Not Fish This Week >>](#)

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Add a Trip

Please enter the trip start and end date, trip start and end time, and the type of trip taken for the trip you are adding.

Start Date	Start Time	End Date	End Time
Friday, 11/07	07:00 am	Friday, 11/07	04:00 pm

What kind of trip are you adding?

- For-hire Recreational Fishing Trip
- Private Recreational Fishing Trip (no paying passengers)
- Other trip (bait, fuel, sight-seeing)

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Definitions

For-Hire Recreational Fishing Trip
Those trips taken with paying passengers.

Private Recreational Fishing Trip
Trips taken for fun or relaxation on this vessel but without paying passengers.

Other trip
Any additional trips this vessel took for bait, fuel, or sight-seeing.

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Add a For-Hire Trip

Start Date	Start Time	End Date	End Time	Trip Type
Fri. 11/07	7:00am	Fri. 11/07	4:00pm	For-Hire

State trip returned to:

County trip returned to:

Site trip returned to: Use "private" if site is not accessible to the public.
Use "other" if site is not in the list below.

Other:

Total Anglers: (excluding crew)

Total hours fished: Round to the closest half-hour.

Fishing method: Select two.

- trolling bottom fishing
- casting fly-fishing
- drifting chunking
- chumming other
- don't know refused

Fishing area: Select one.

- ocean/open bay
- sound
- river

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Fishing area: Select one.

- ocean/open bay
- sound
- river
- bay
- inlet

2 Target species: Use "other" if species is not in the list below.

LITTLE TUNNY

Other:

Use "other" if species is not in the list below.

select

Other:

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Cancel

Definitions

Total hours fished
Time spent actively fishing with lines in the water.

Fishing method
The method of rod and reel fishing used on this trip. Select two.

Target species
The species you were planning on fishing for when you left the dock. You may only select two.

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For-Hire Questions

Please answer these questions regarding your For-Hire trip.

Was most of your fishing less than or equal to three miles from shore?

Yes
 No

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Cancel

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Success
Trip created successfully.

Trip summary for vessel for the trip week Monday, 11/ 3 - Sunday, 11/ 9.
Enter all trips which ended during your trip week.

[Add a trip >>](#) [Survey Complete / All Trips Entered >>](#)

Sunday, 11/09 : 0 Trips
Saturday, 11/08 : 0 Trips
Friday, 11/07 : 1 Trip

Start Date	Start Time	End Date	End Time	Trip Type	
Fri. 11/07	7:00am	Fri. 11/07	4:00pm	For-Hire	edit delete

Thursday, 11/06 : 0 Trips
Wednesday, 11/05 : 0 Trips
Tuesday, 11/04 : 0 Trips
Monday, 11/03 : 0 Trips

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Thank You

You have completed all requested information for the For-Hire Survey for vessel .

Please double-check your Survey Summary below.

Your survey is not considered complete until you click the 'Finish' button at the bottom of this page.

Survey Summary

You entered **0 For-Hire Recreational LPS Fishing Trips, 3 For-Hire Recreational Fishing Trips, 0 Private Recreational LPS Fishing Trips and 0 Private Recreational Fishing Trips and 0 Other Trips**

Start Date	Start Time	End Date	End Time	Trip Type
Sun. 11/09	7:00am	Sun. 11/09	4:00pm	For-Hire
Sat. 11/08	7:00am	Sat. 11/08	4:00pm	For-Hire
Fri. 11/07	7:00am	Fri. 11/07	4:00pm	For-Hire

If this summary is not correct, please revisit the [Trip Summary](#) page to correct your trip list.

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Survey Complete

Thank you for participating in the For-Hire Survey.

We will take you off the call list for this week.

If you do receive a phone call, please let the interviewer know you have completed your survey online.

Comments

If you would like to comment on the For-Hire survey, please use this form.

[Send Comments >>](#)

[No Comments >>](#)

Done Internet

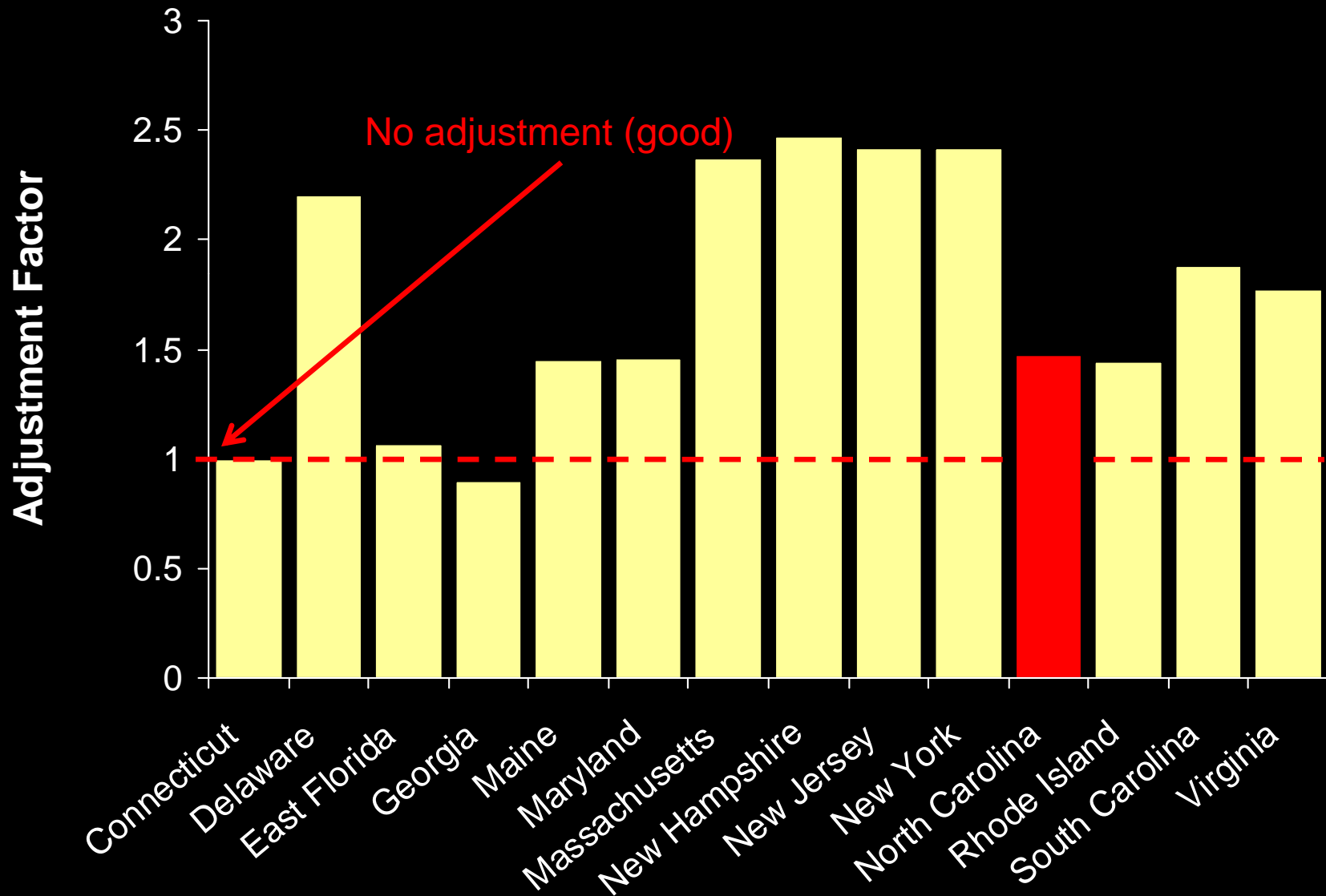
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New Methodology (Captains Calls)

- ❑ Trip validation (how do we know if Captains are reporting all trips)
 - ❑ We know who has been selected
 - ❑ Monitor fishing activity on few vessels each week to compare to actual reported trips
 - ❑ Adjustment factor calculated

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Annual 2007 Trip Adjustment Factor



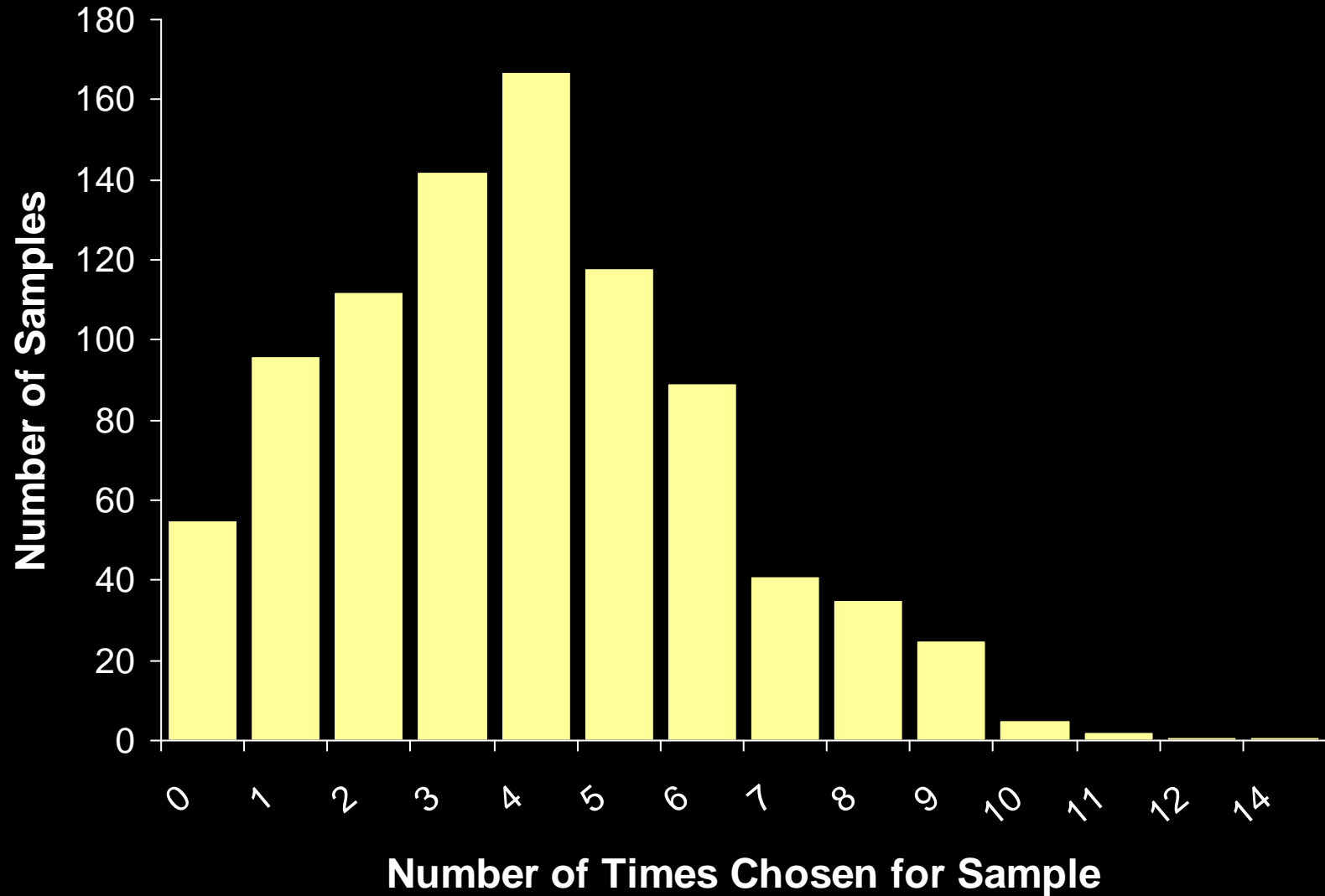
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New Methodology (Captains Calls)

- ❑ Problems in North Carolina
 - ❑ Validation adjustment high
 - ❑ Captains complain of “too many calls”
 - ❑ Still problem with guideboats
 - ❑ Very costly
 - ❑ Many man-hours required

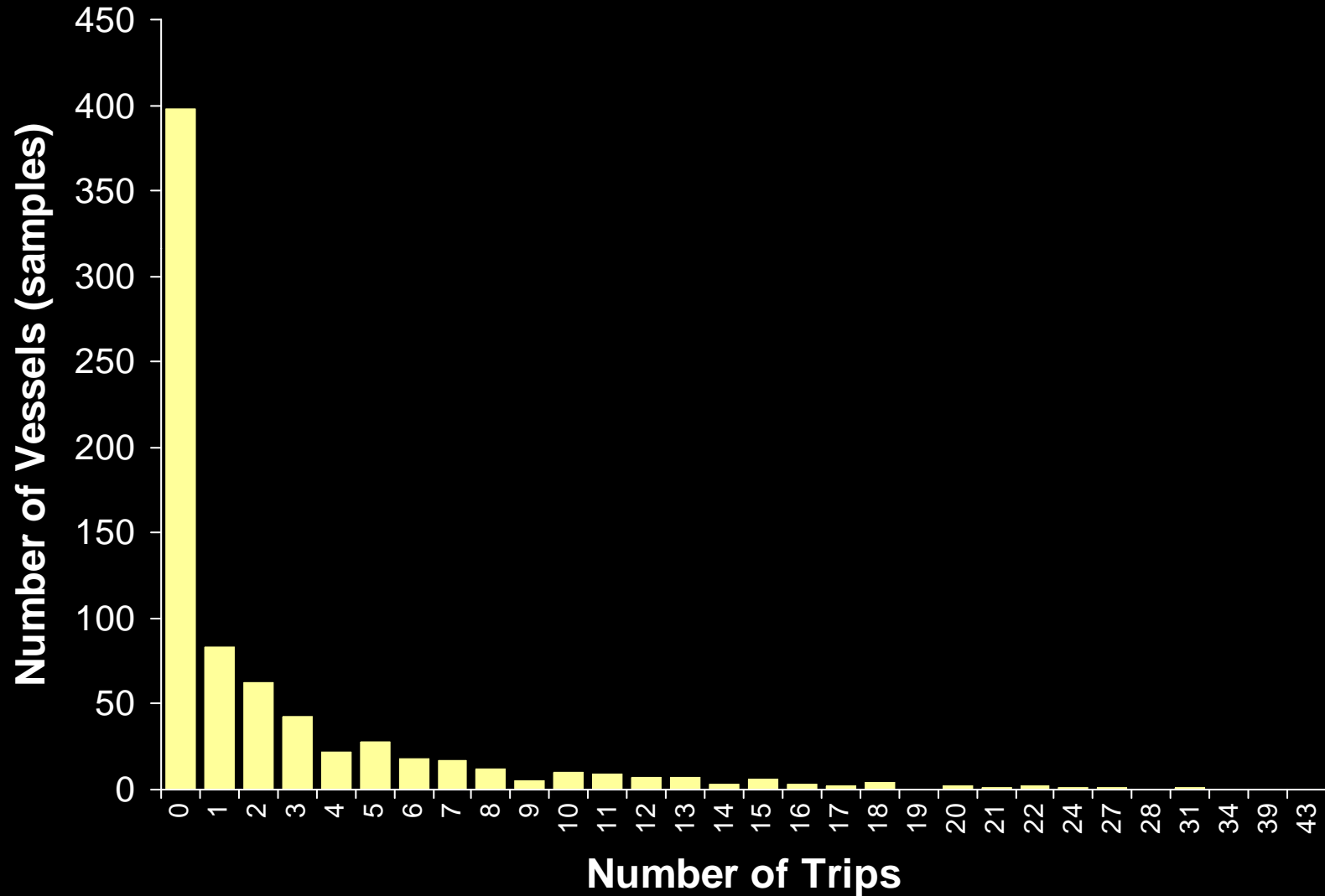
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Frequencies of the number of times boats were chosen in 2007



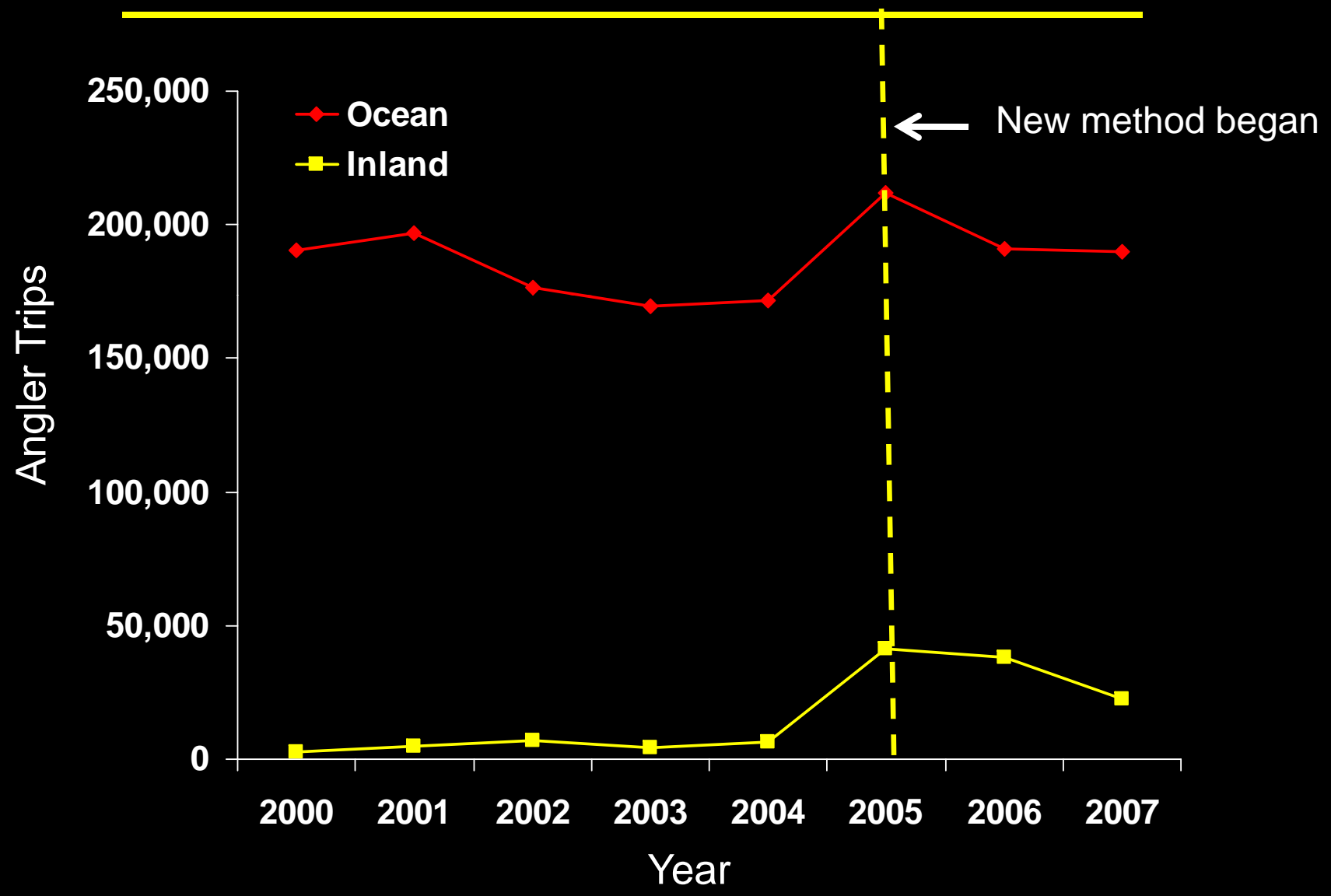
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Frequency Number of Trips Reported (2007)



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Inland and Ocean Trips (2000-2007)



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New Methodology (Captains Calls)

- ❑ Benefits to North Carolina
 - ❑ DMF has best sample frame on the Coast (couldn't be much better)
 - ❑ Information obtained directly from Captain, not someone who rode on the vessel
 - ❑ Headboat discard data extremely valuable in stock assessments

For-Hire Survey

Looking Ahead

- ❑ National Research Council (NRC) recommended that For-Hire be considered commercial
- ❑ Marine Recreational Information Program (MRIP) is currently evaluating

The End