



2018 North Carolina Landings and Harvest Trends

DEPARTMENT OF ENVIRONMENTAL QUALITY



Marine Fisheries

Marine Fisheries Commission | Stephanie McInerny | August 2019



Data Sources

Commercial Landings

Trip Ticket Program

~**120,000** trip tickets/year

Recreational Harvest

Coastal Angling Program (CAP)

~**23,000** interviews/year and **24,000** surveys/year

- Marine Recreational Information Program (NOAA partnership)
 - Access Point Angler Intercept Survey (APAIS)
 - For-Hire Effort Survey
 - Highly Migratory Species Catch Card
 - Large Pelagic Biological Sampling
- Central Southern Management Area Creel Survey
- Mail Surveys (i.e., gigging, castnet/seine, crab/shellfish)
- Specialty Surveys (e.g., grandfathered/lifetime license, socioec)



Commercial vs. Recreational Data

Commercial data collection:

- Designed to be a census
- Data are provided by dealers
- Results are the summed **total** of reported landings

Recreational data collection:

- Data are collected through surveys
 - Due to high level of participation (millions of anglers and trips)
- Results are presented as **estimates**
- Percent Standard Error (PSE) for each estimate



Effort Drives Landings and Harvest

Several factors impact effort including:

- Weather
- Availability of the target species
- Price
- Market demand
- Stock abundance
- Regulations
- Number of fishermen



Participation over Time



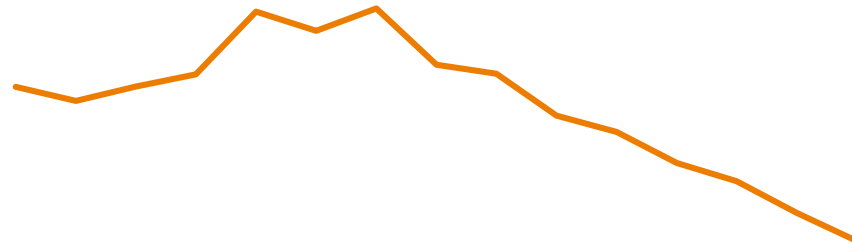
Standard Commercial Fishing License (SCFL)



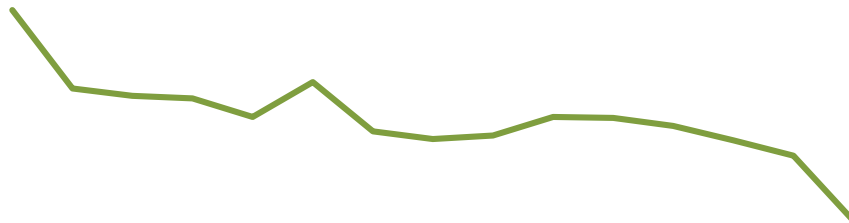
Retired SCFL



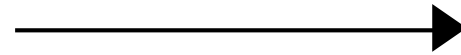
Shellfish License



of Trip Tickets



Participation over Time



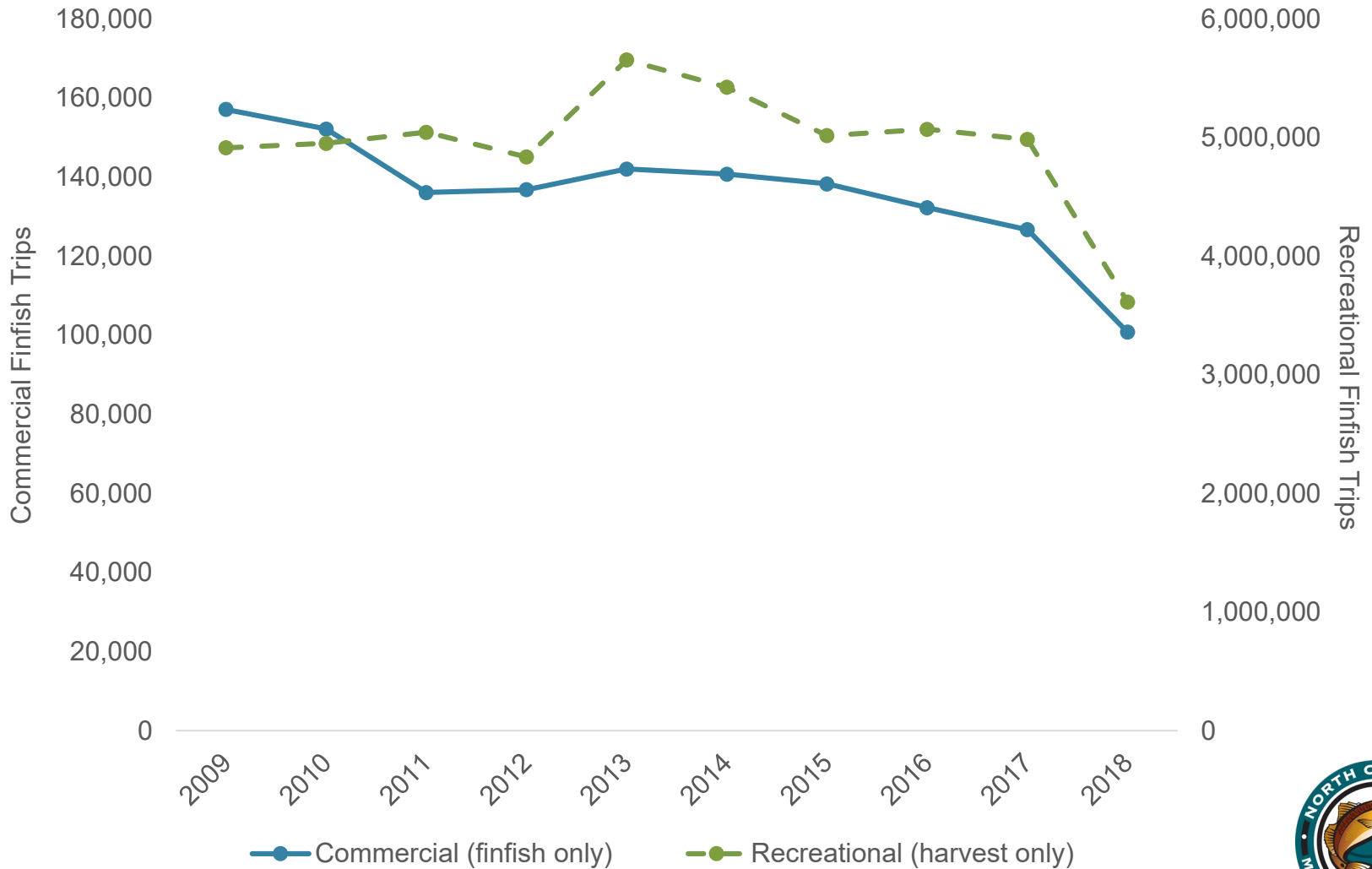
For-Hire Licenses



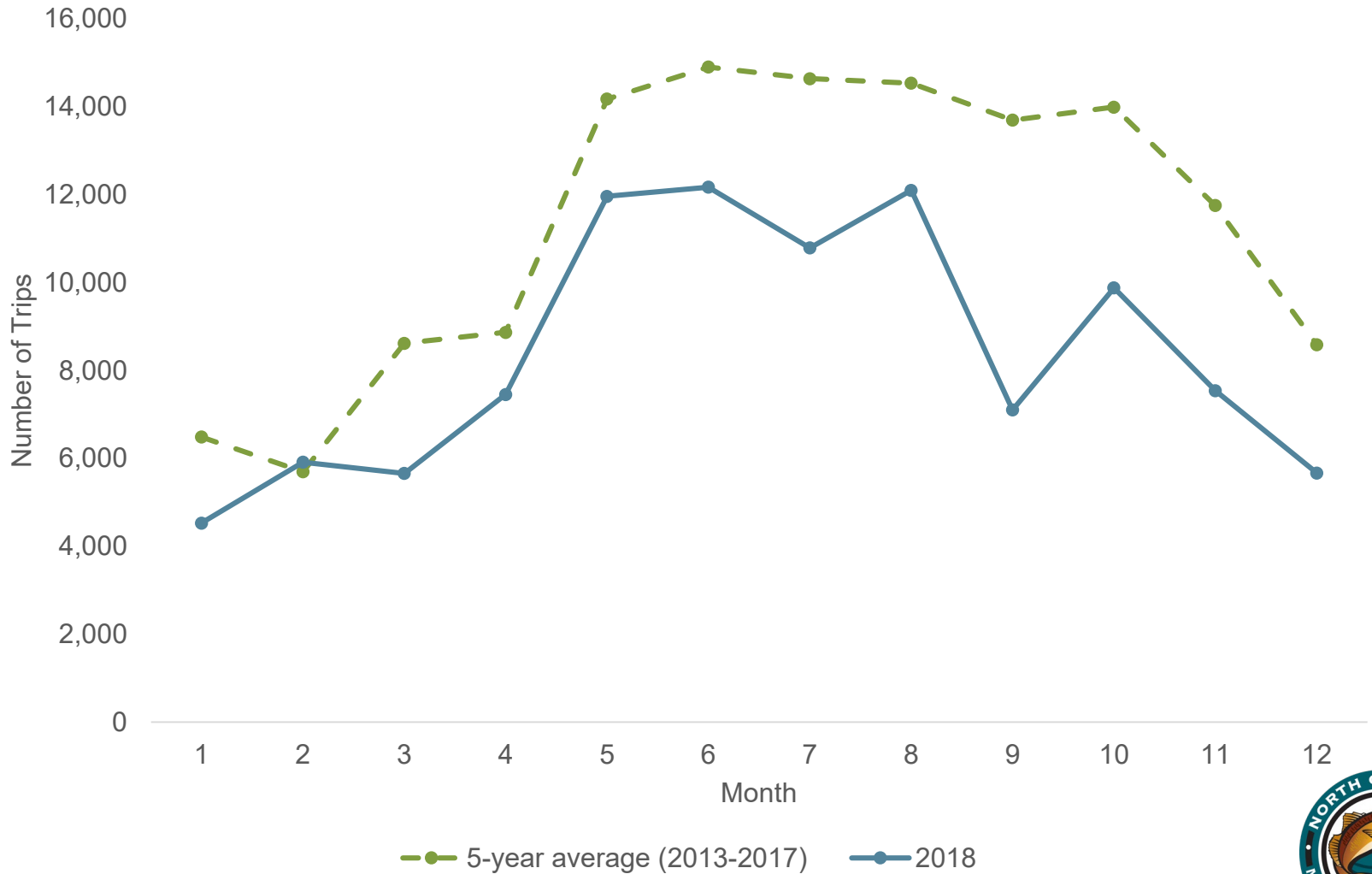
Coastal Recreational
Fishing Licenses



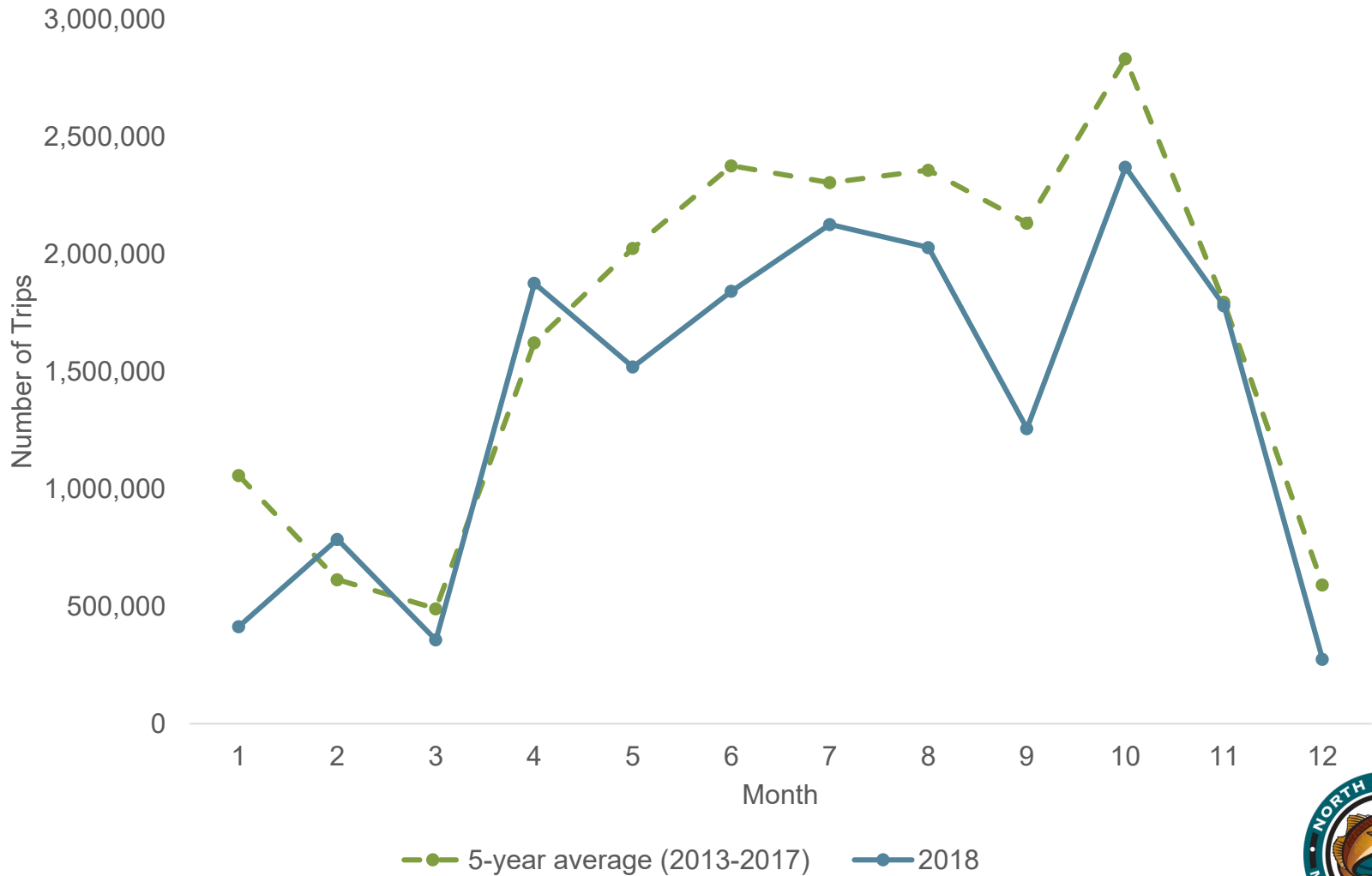
Fishing Trips



Fishing Trips by Month - Commercial



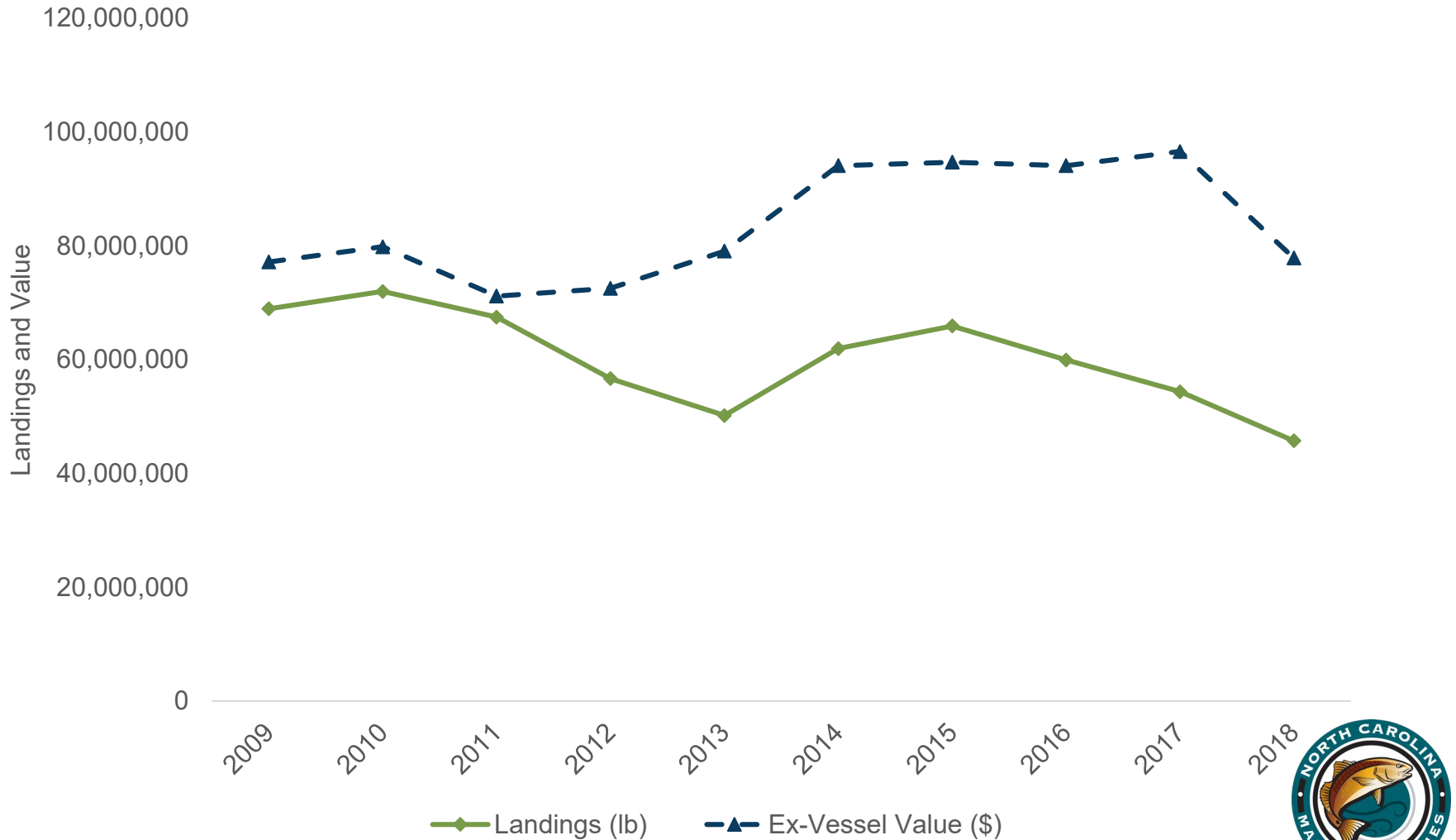
Fishing Trips by Month - Recreational



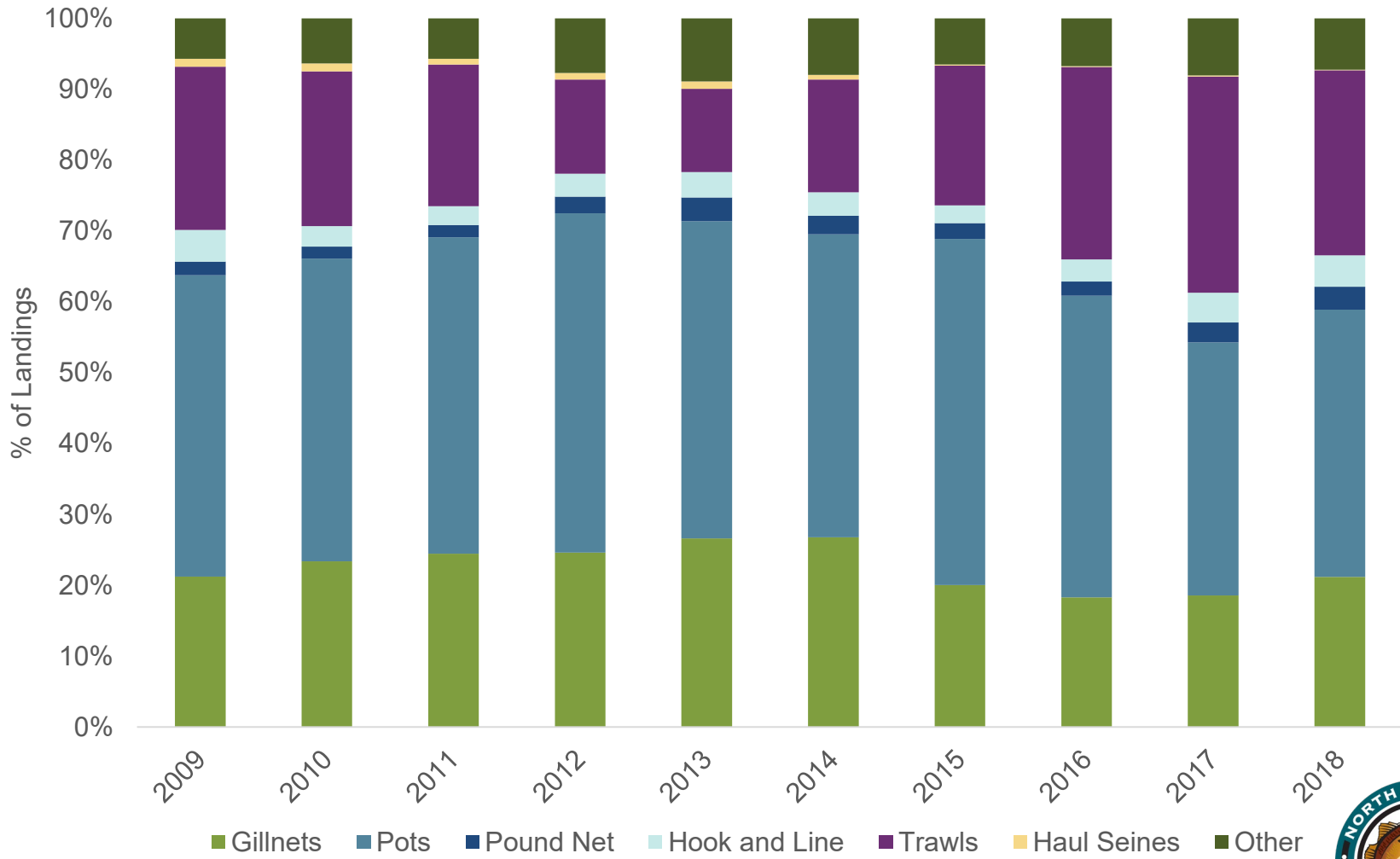
A close-up photograph of various pieces of commercial fishing equipment. The scene is dominated by thick, braided ropes in shades of blue and green. Interspersed among the ropes are heavy, rusted metal chains and links. A prominent feature is a large, smooth, orange buoy on the left side. Other elements include white plastic floats, a grey textured cylindrical object, and a metal hook with a shackle. The background is a dense, tangled mass of green fishing netting. The overall composition is busy and textured, representing the tools of a commercial fisherman.

COMMERCIAL

North Carolina Commercial Landings (pounds and value)



North Carolina Commercial Landings by Gear



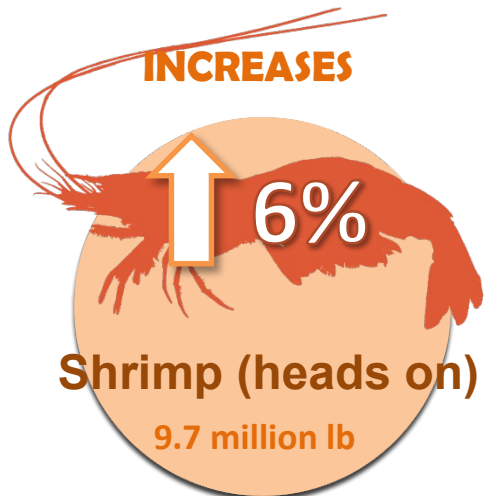


**2018 Total
Commercial
Fisheries Landings**

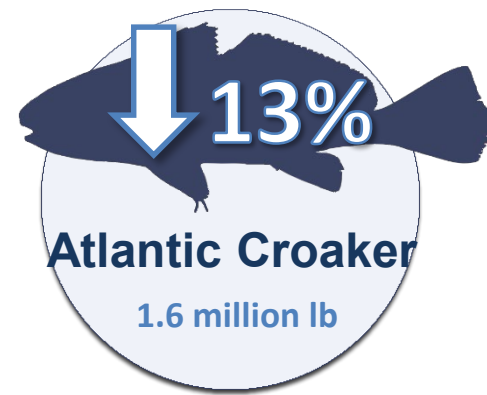
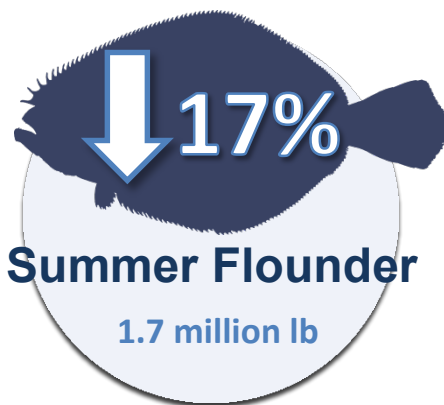
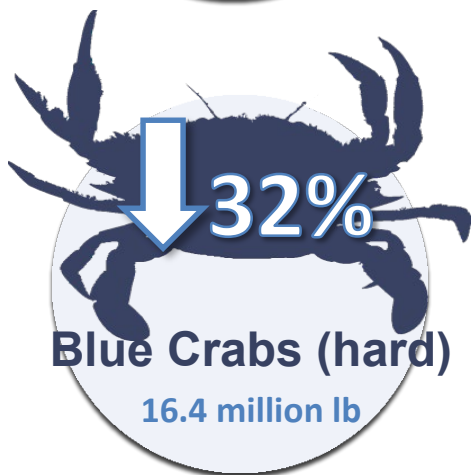
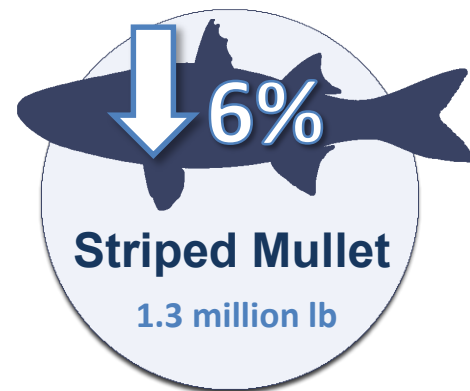
45.8 million lb

-21.8 % from 5-year average*

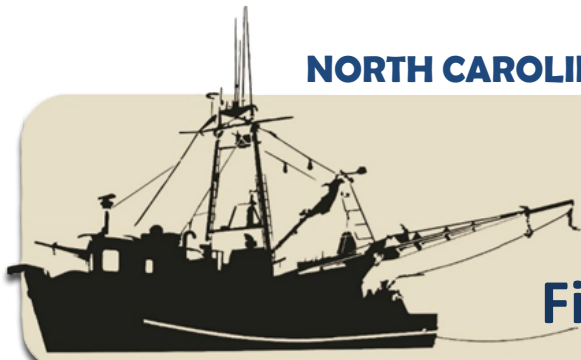
INCREASES



DECREASES



**All percentage changes shown for 2018 from 5-year average (2013 to 2017)*

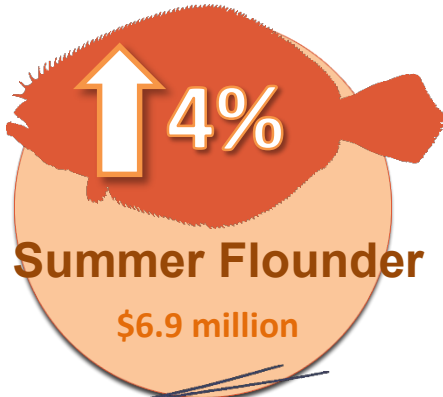


**2018 Total
Commercial
Fisheries Landings**

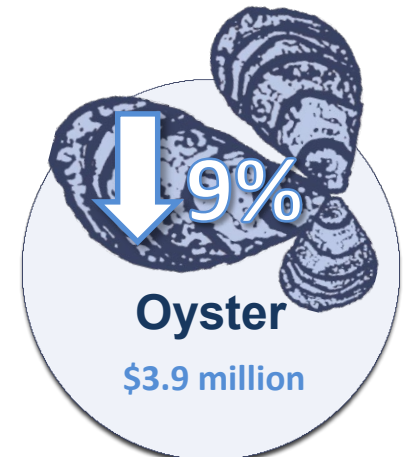
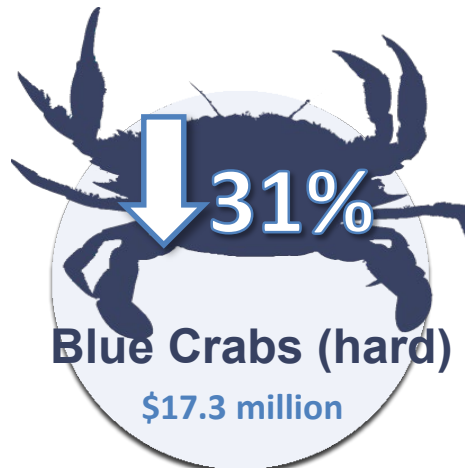
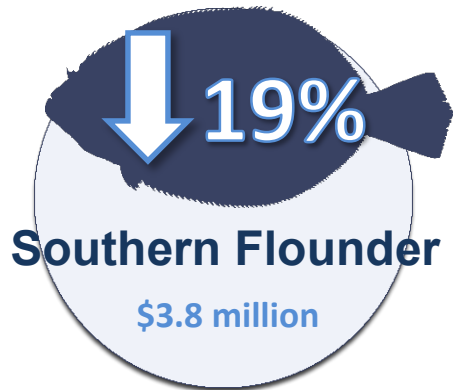
\$77.9 million

-15 % from 5-year average*

INCREASES

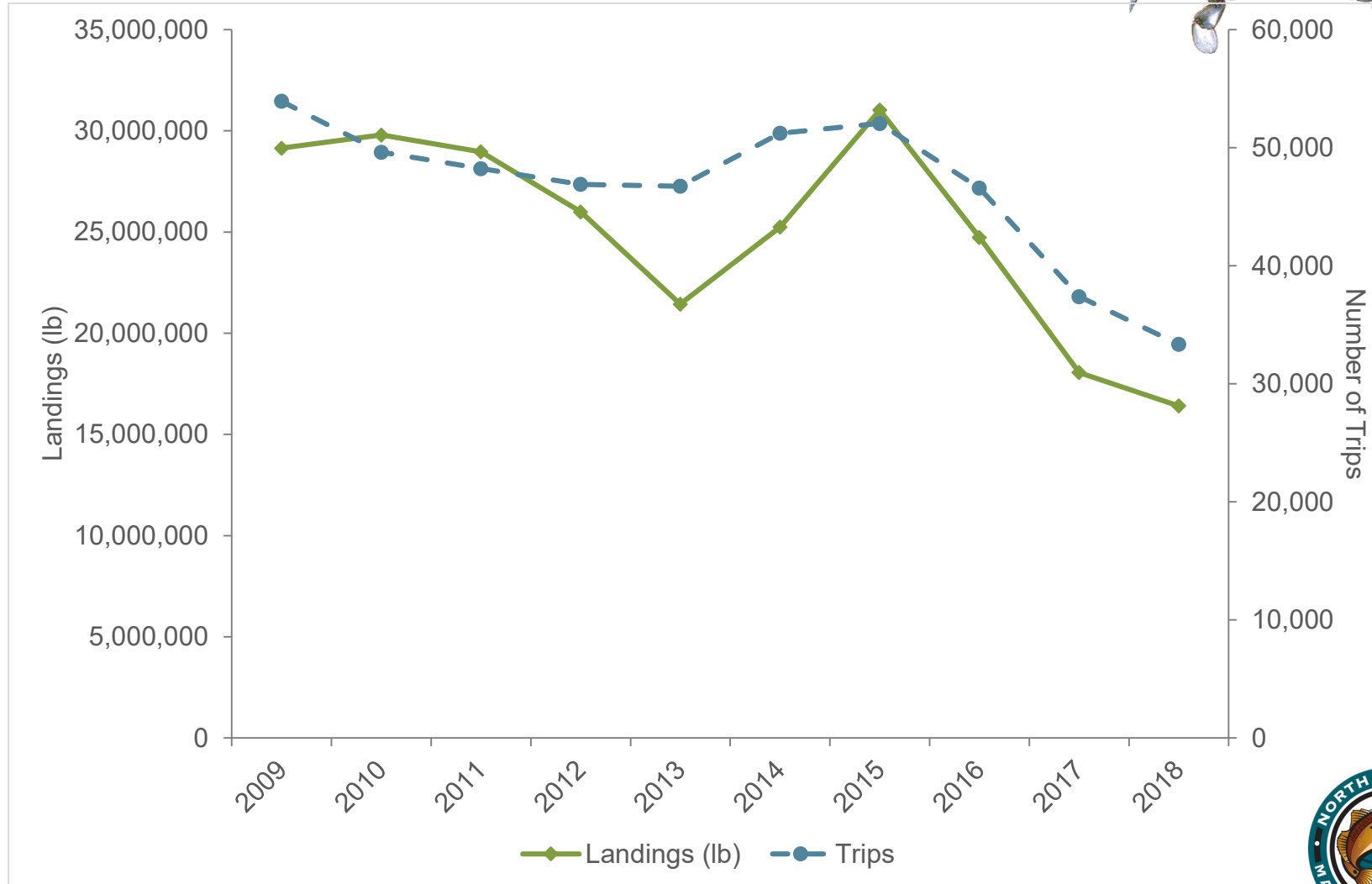
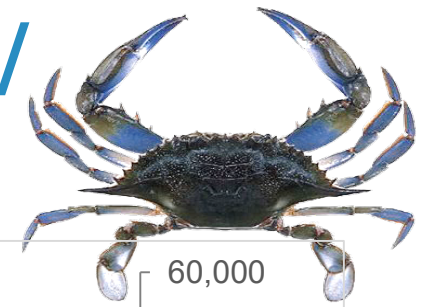


DECREASES

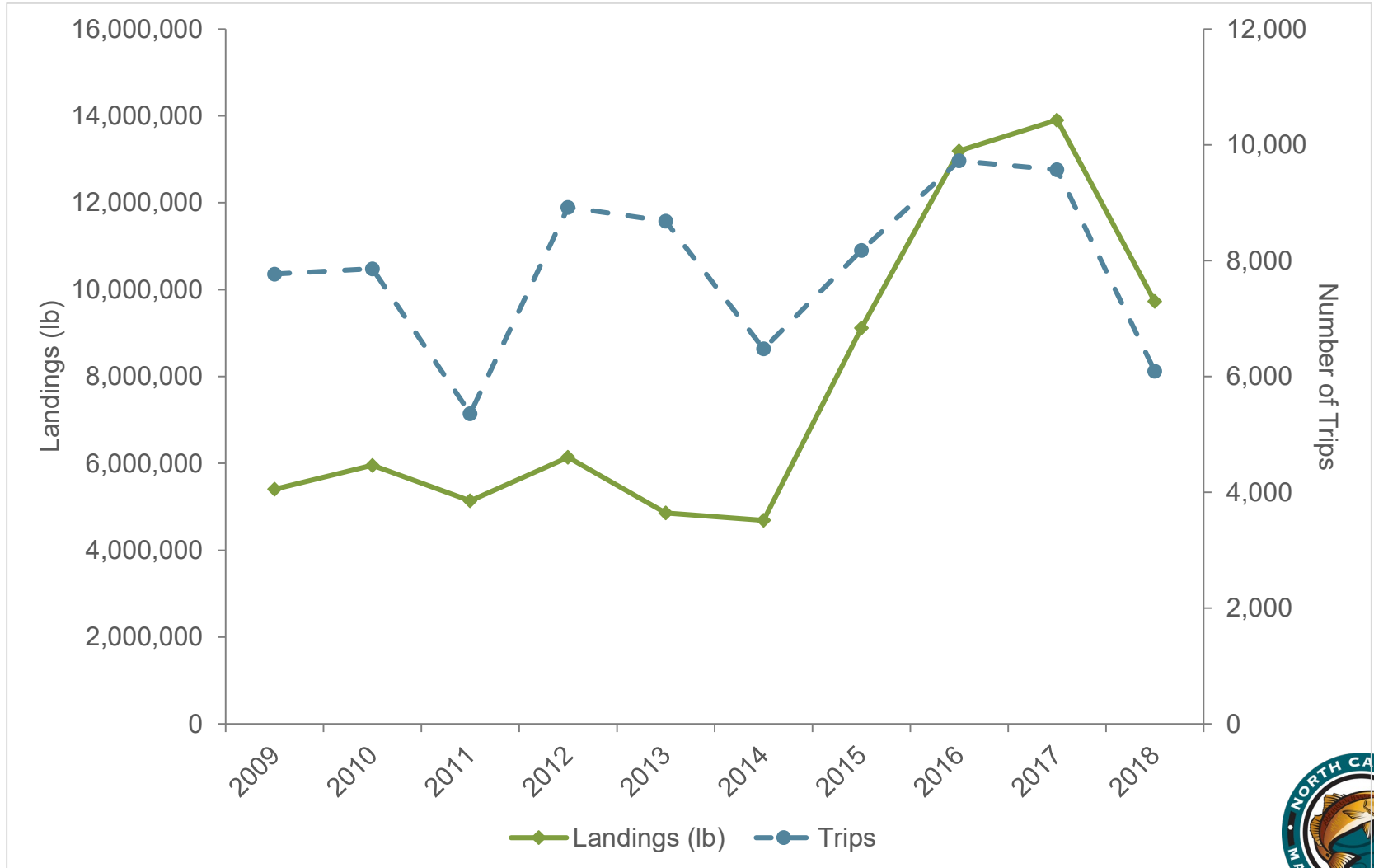


**All percentage changes shown for 2018 from 5-year average (2013 to 2017)*

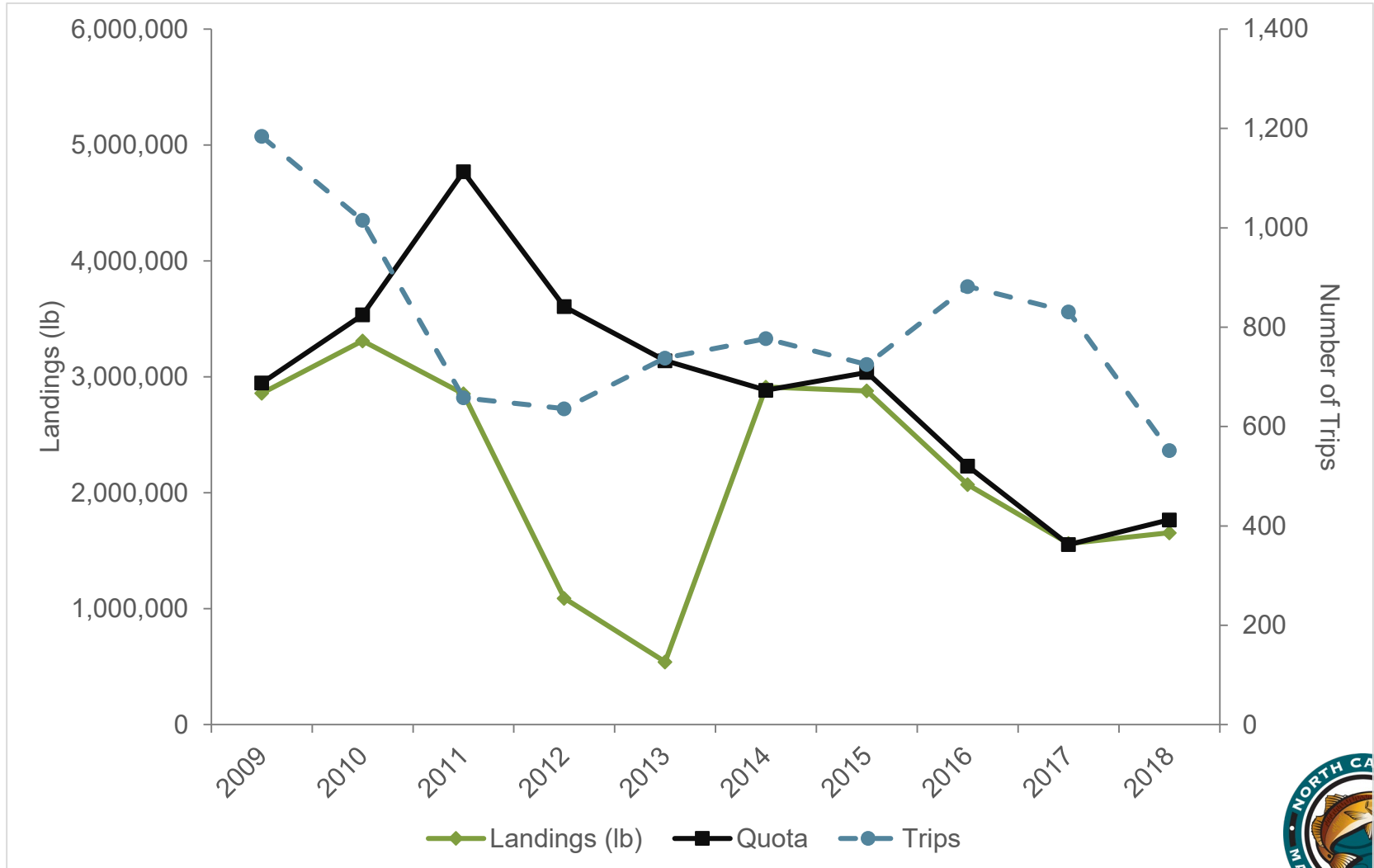
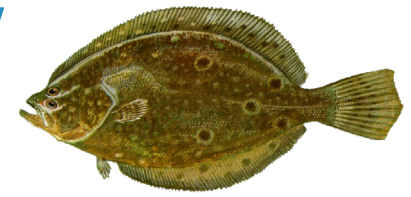
Top Five Species – Commercial Hard Blue Crab



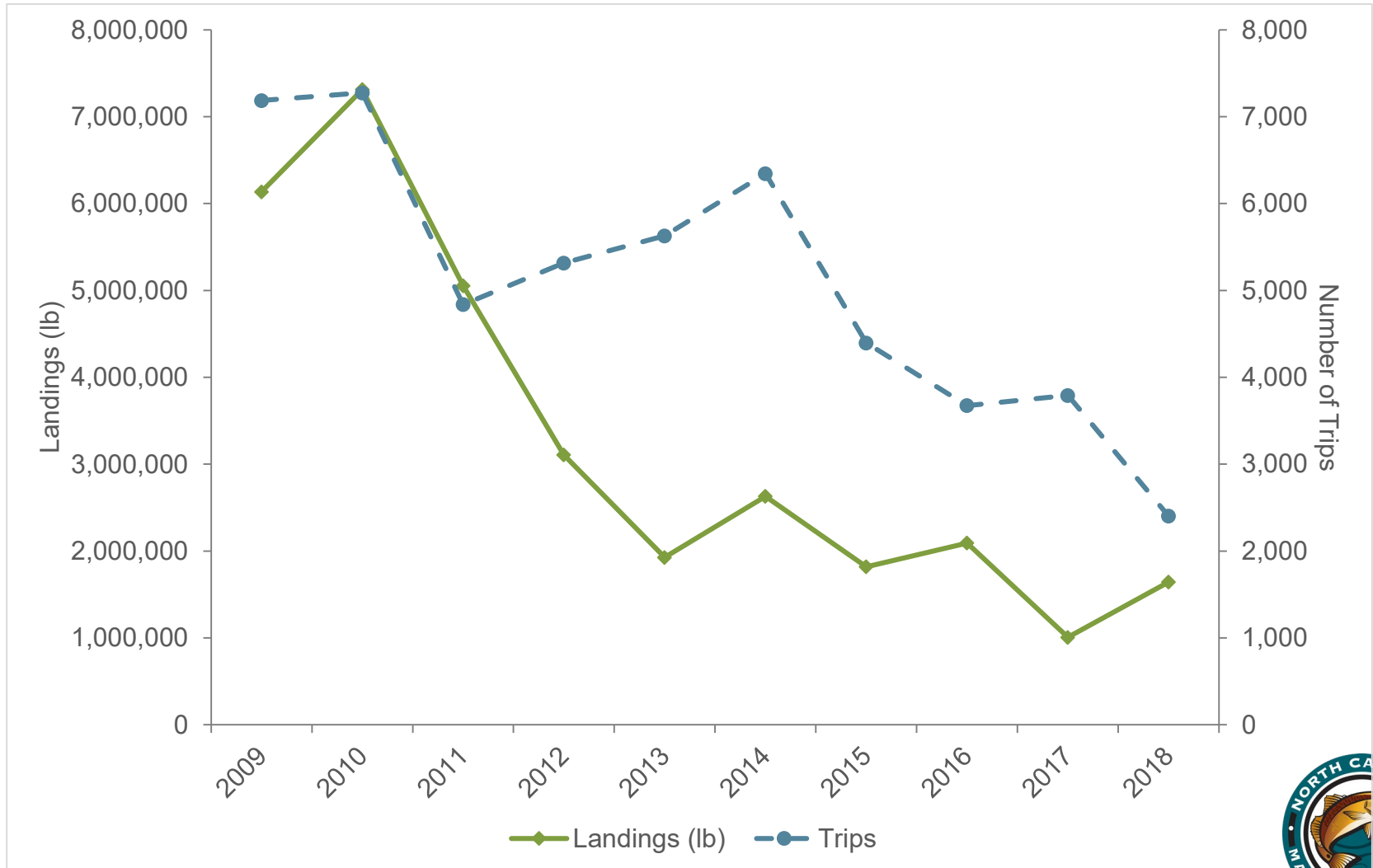
Top Five Species – Commercial Penaeid Shrimp



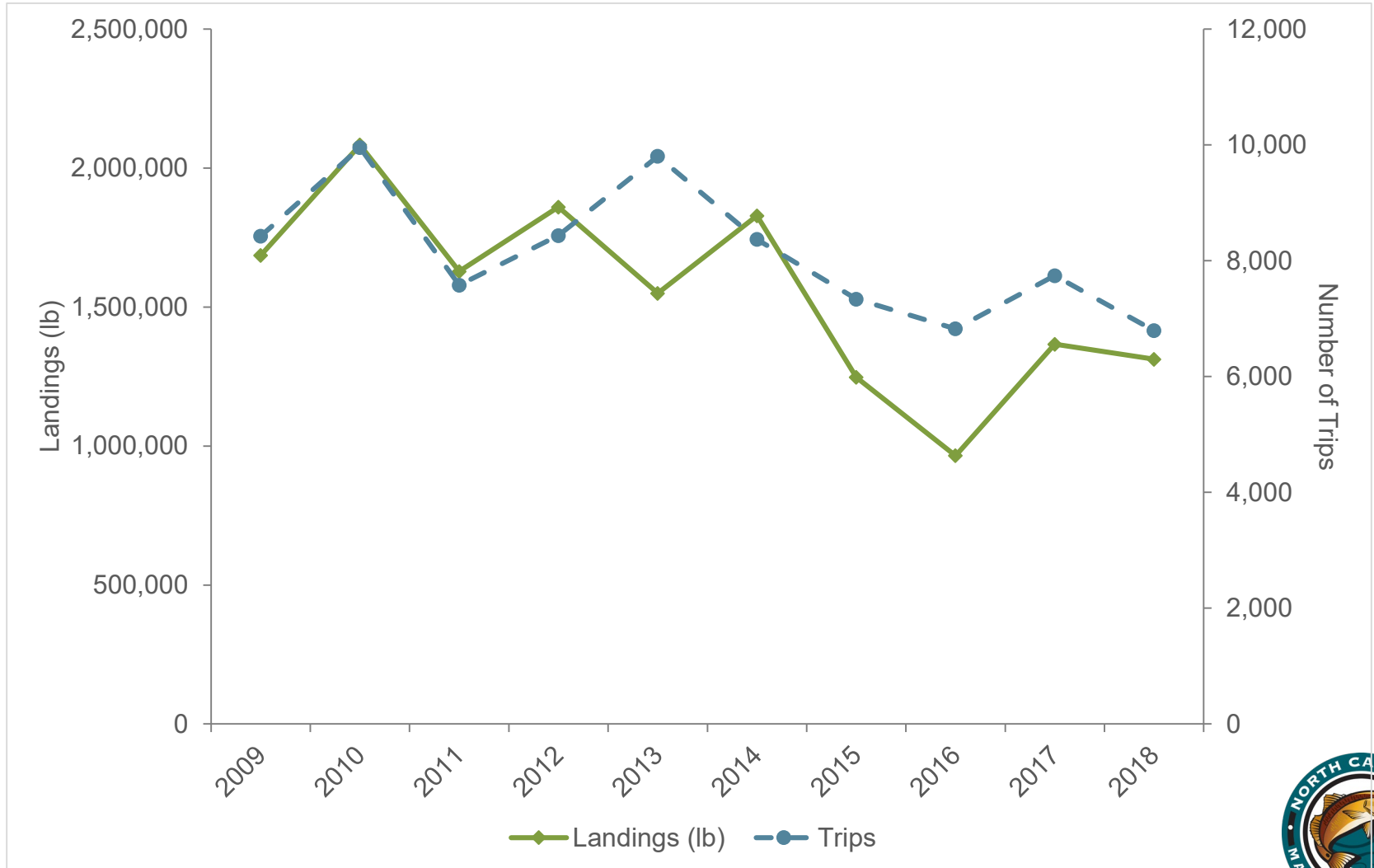
Top Five Species – Commercial Summer Flounder



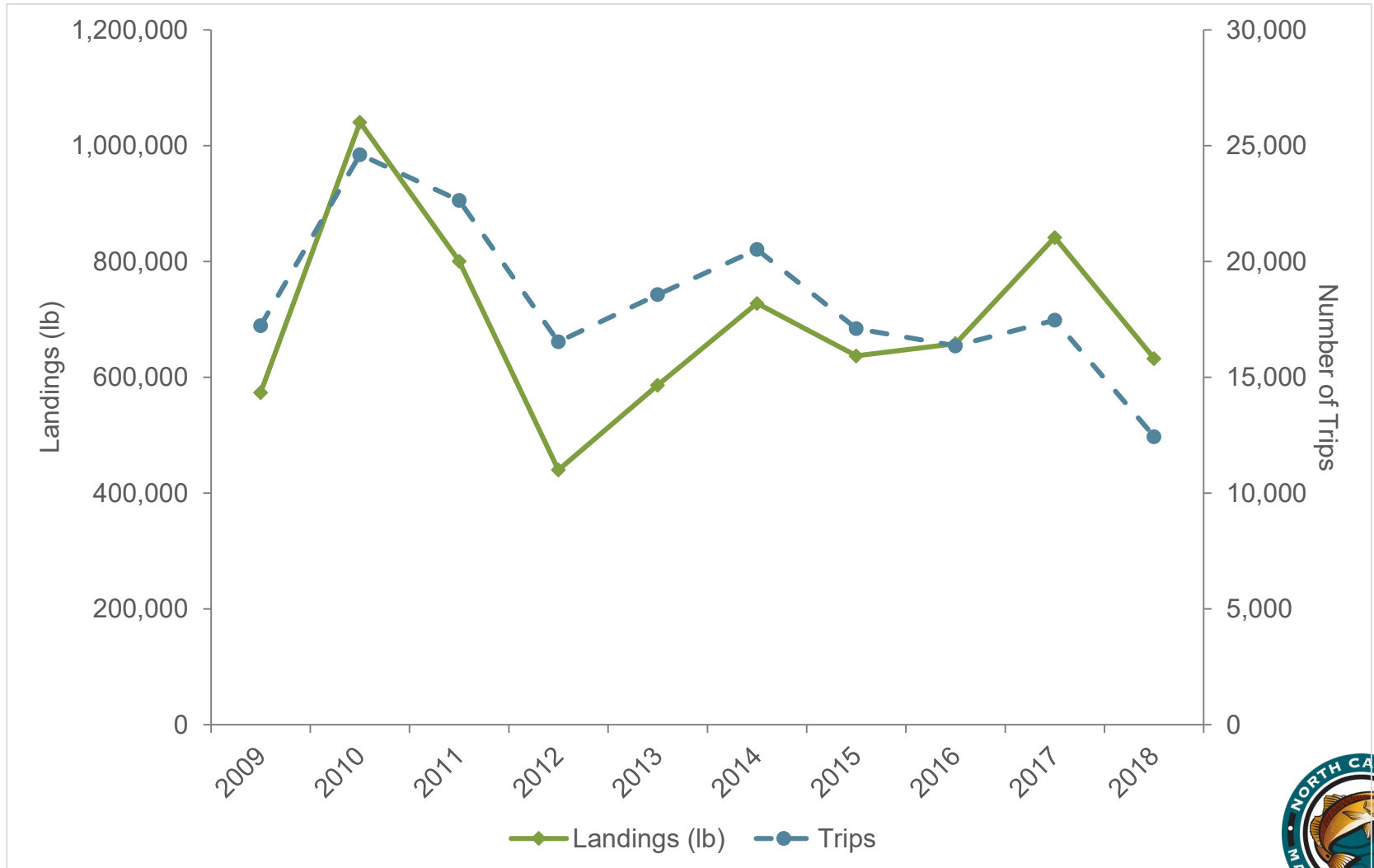
Top Five Species – Commercial Atlantic Croaker



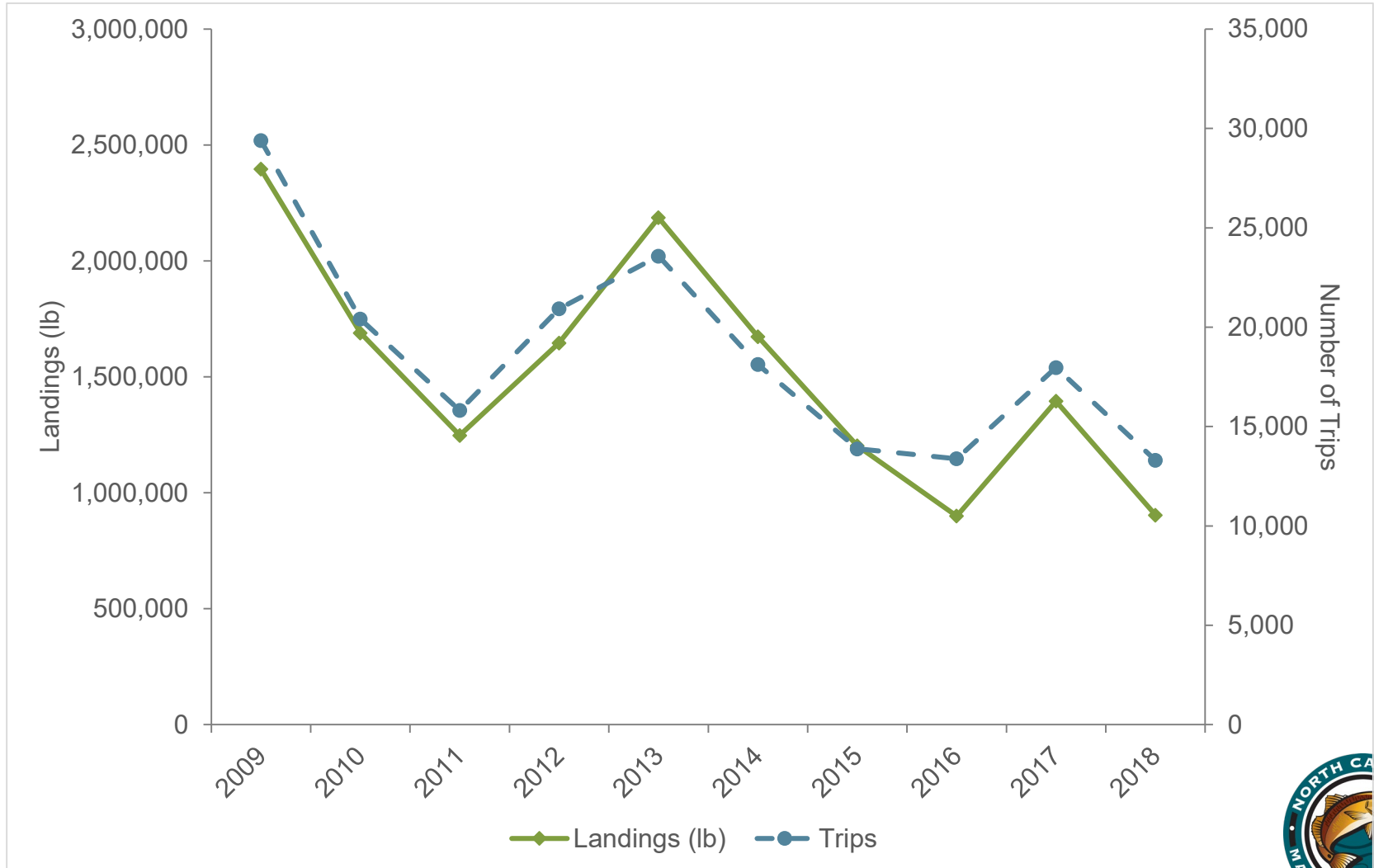
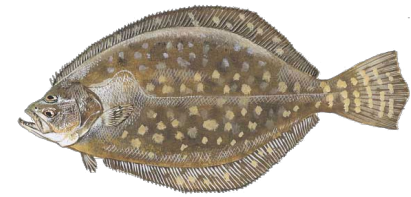
Top Five Species – Commercial Striped Mullet



Top Five Species – Commercial Oyster



Top Five Species – Commercial Southern Flounder



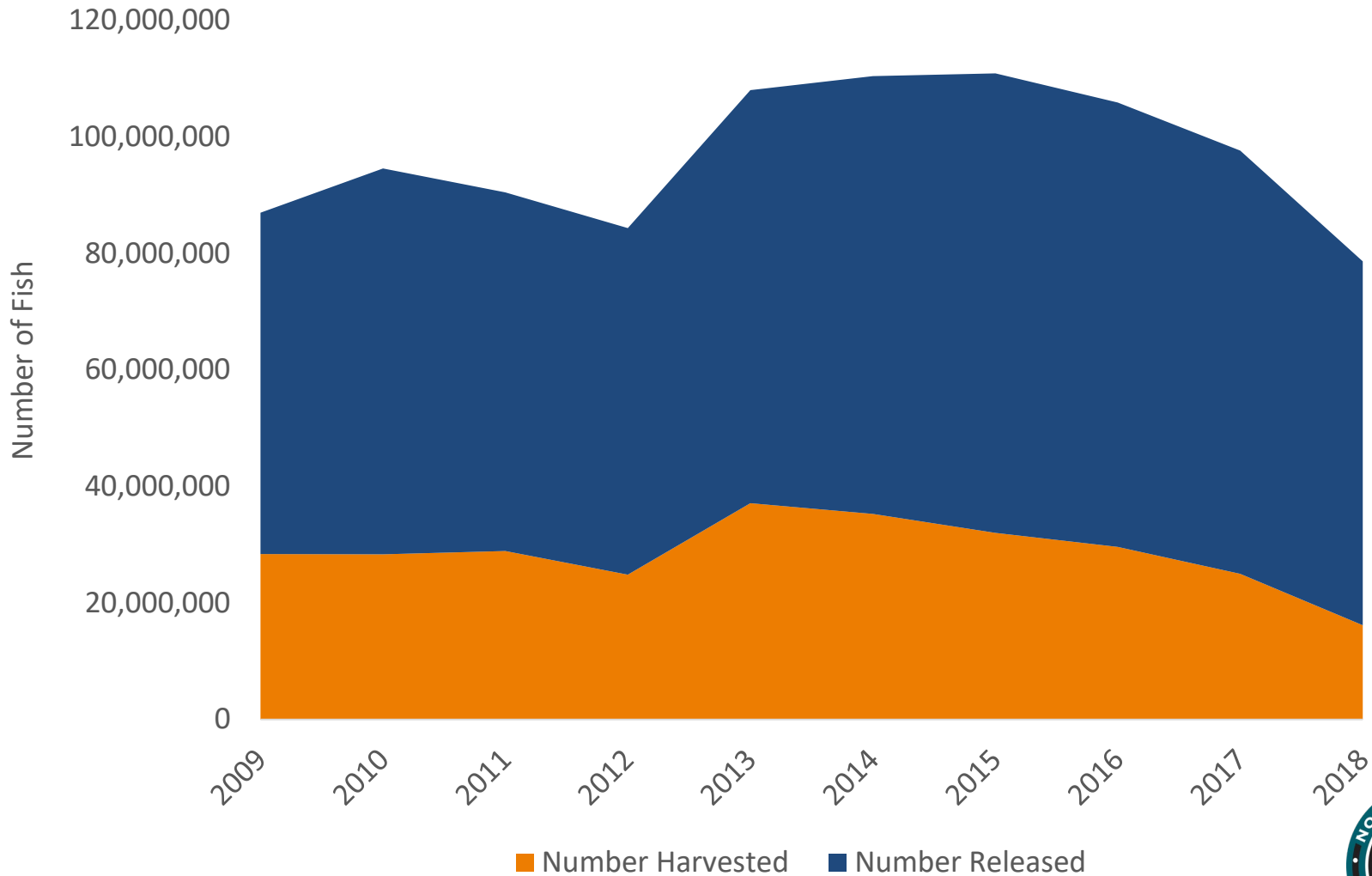
A photograph of a wooden pier with a white railing. Five fishing rods are leaning against the railing. The ocean is visible in the background under a sunset sky. A white rectangular box with the word "RECREATIONAL" in bold, white, sans-serif capital letters is centered over the image.

RECREATIONAL

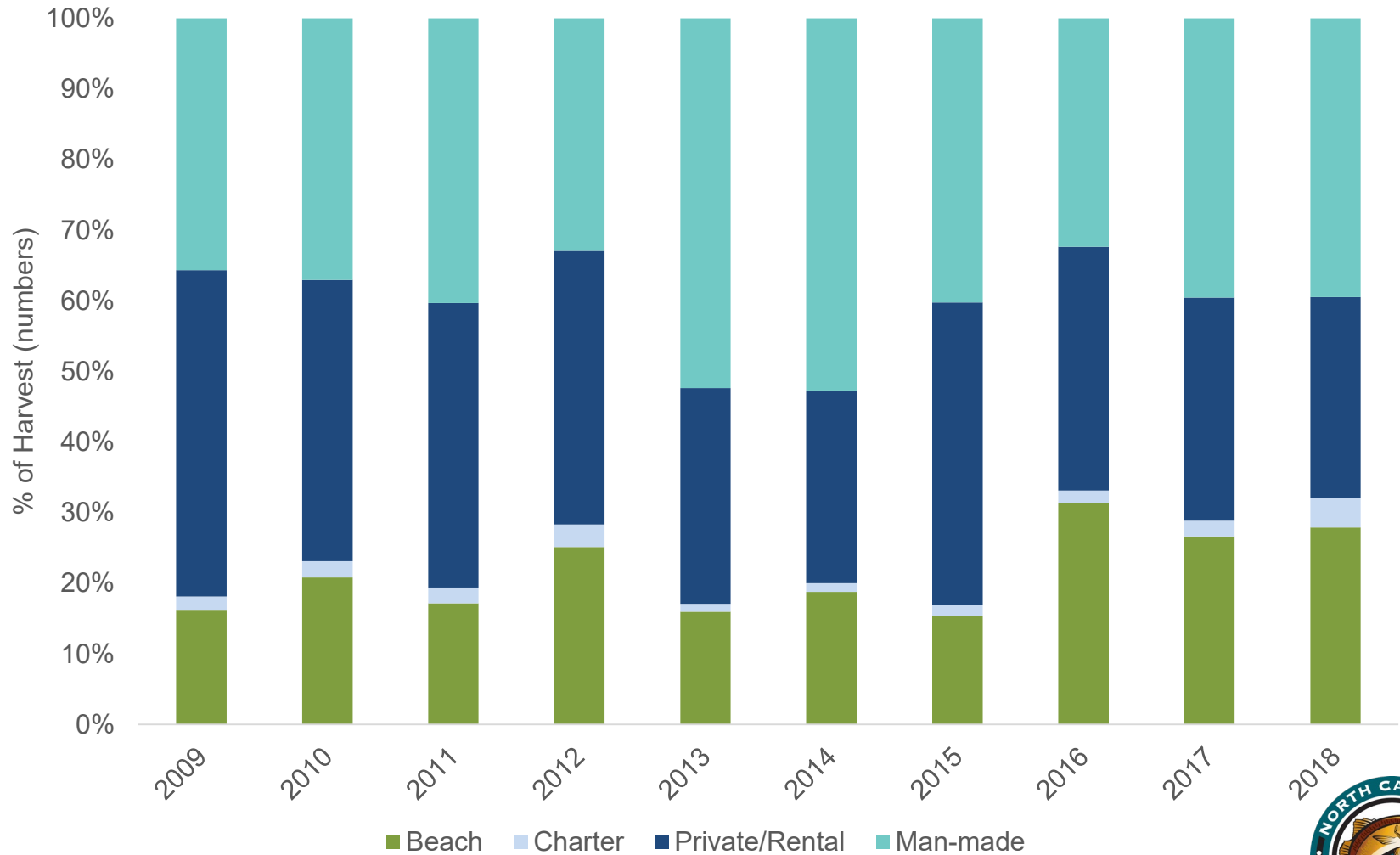
North Carolina Recreational Harvest (pounds and numbers)



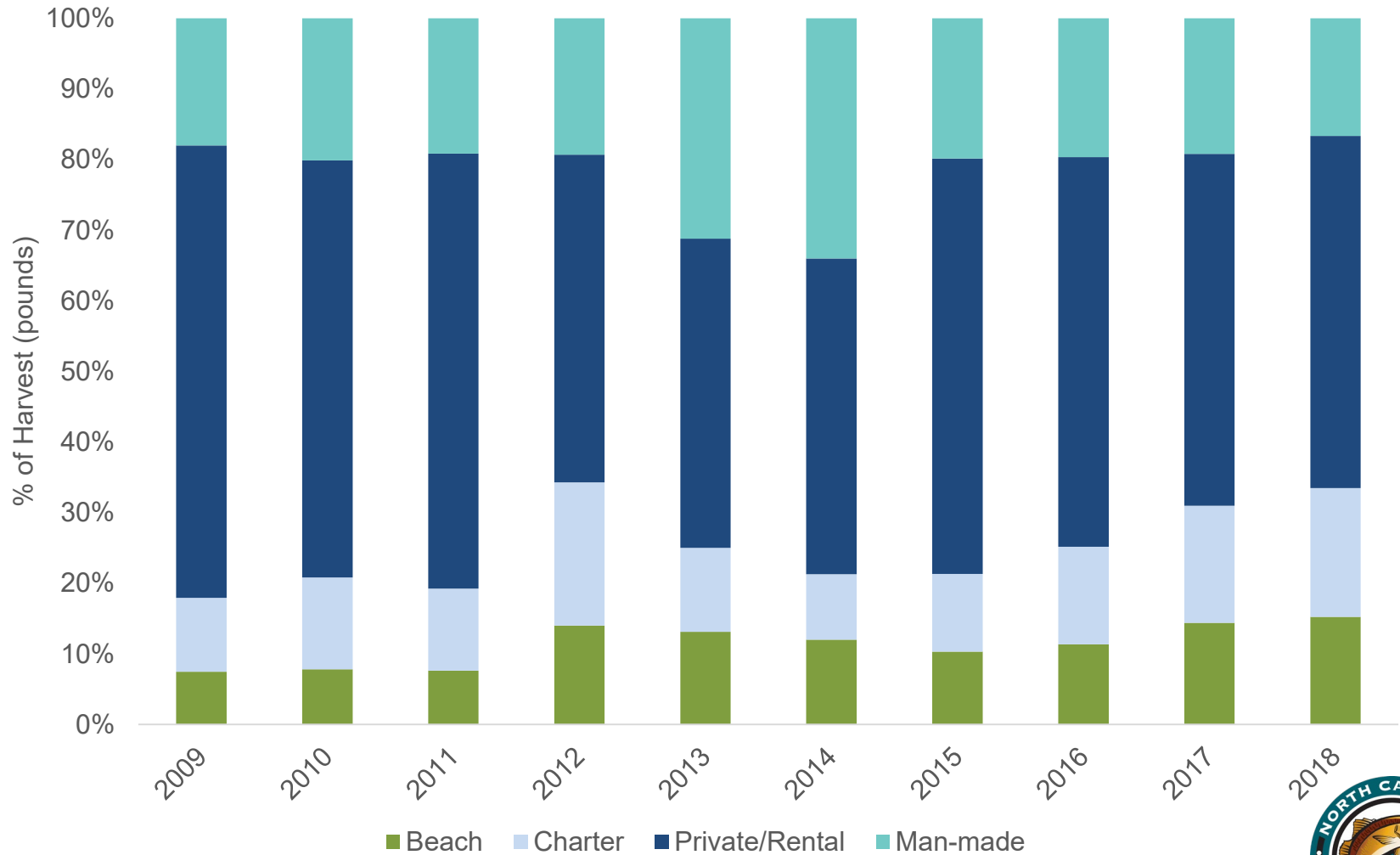
North Carolina Recreational Catch (harvest & releases)



North Carolina Recreational Harvest (by mode; numbers)



North Carolina Recreational Harvest (by mode; pounds)





**2018 Total Marine
Recreational
Fisheries Harvest**

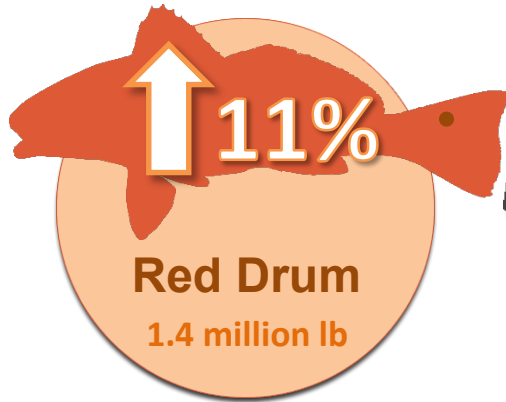
HARVEST
20.1
million pounds

-26.9 % from 5-year average*

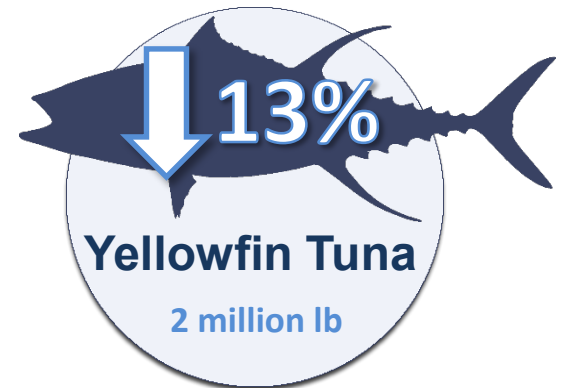
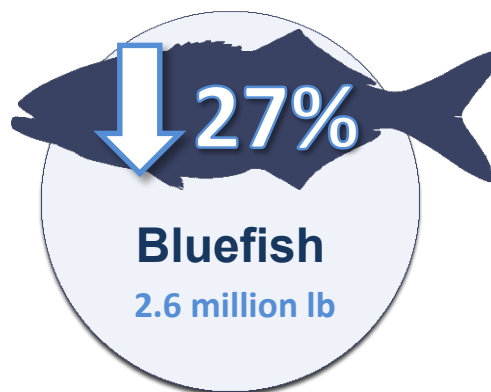
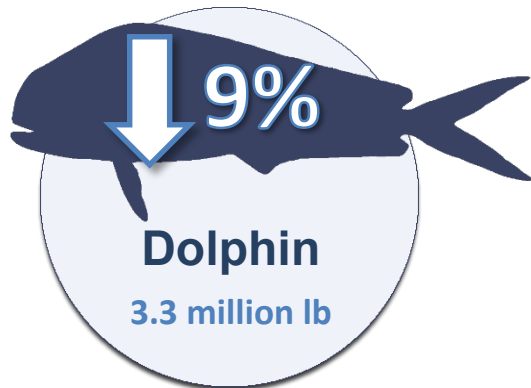
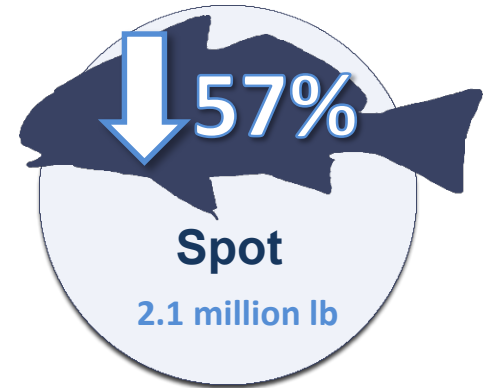
of FISH
16.1
million

- 49.1% from 5-year average*

INCREASES



DECREASES



**Based on FES; All percentage changes shown for 2018 from 5-year average (2013 to 2017)*



**2018 Total Marine
Recreational
Fisheries Harvest**

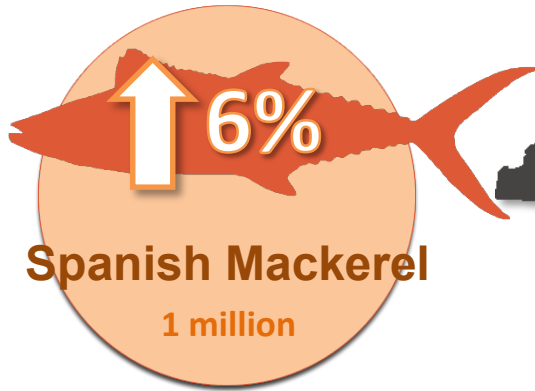
HARVEST
20.1
million pounds

-26.9 % from 5-year average*

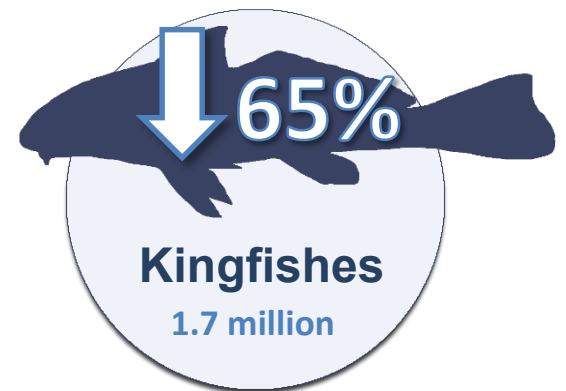
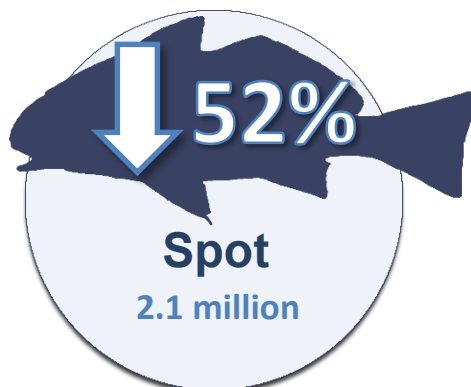
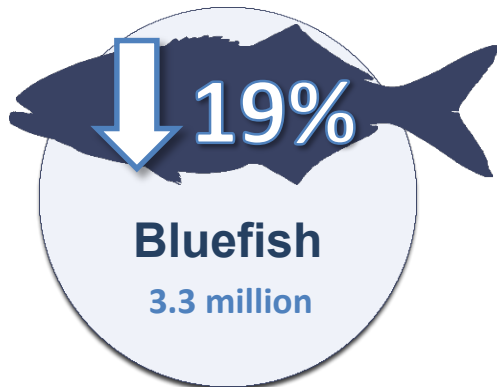
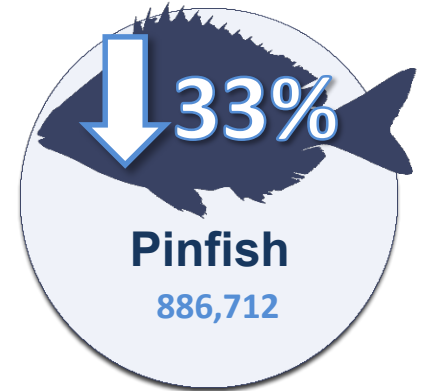
of FISH
16.1
million

- 49.1% from 5-year average*

INCREASES



DECREASES



**Based on FES; All percentage changes shown for 2018 from 5-year average (2013 to 2017)*



**2018 Total Marine
Recreational
Fisheries Harvest**

RELEASED

**62.5
million**

-16.5 % from 5-year average*

HARVESTED

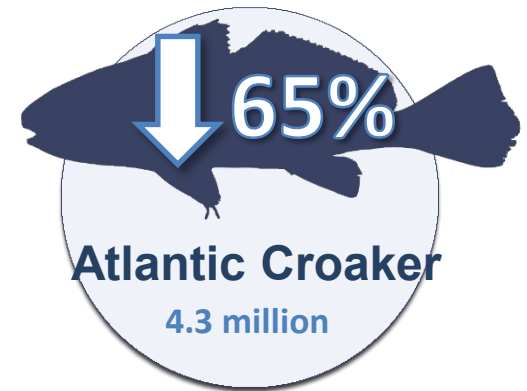
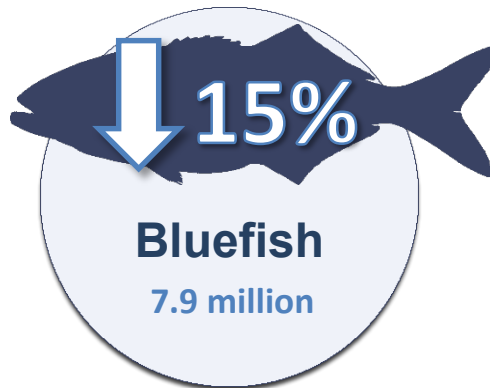
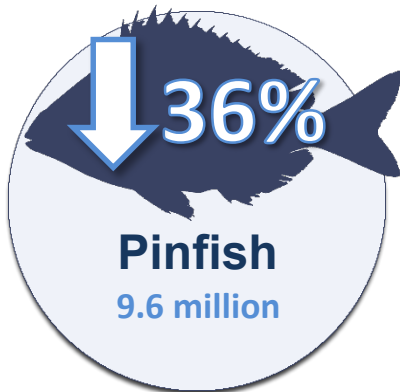
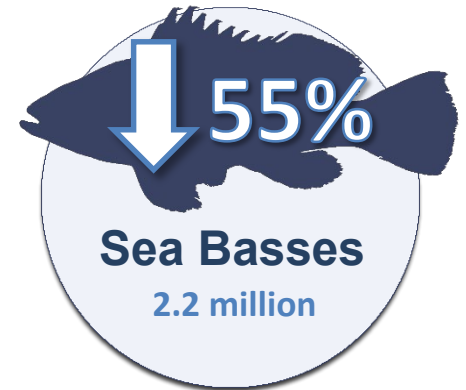
**16.1
million**

- 49.1% from 5-year average*

INCREASES

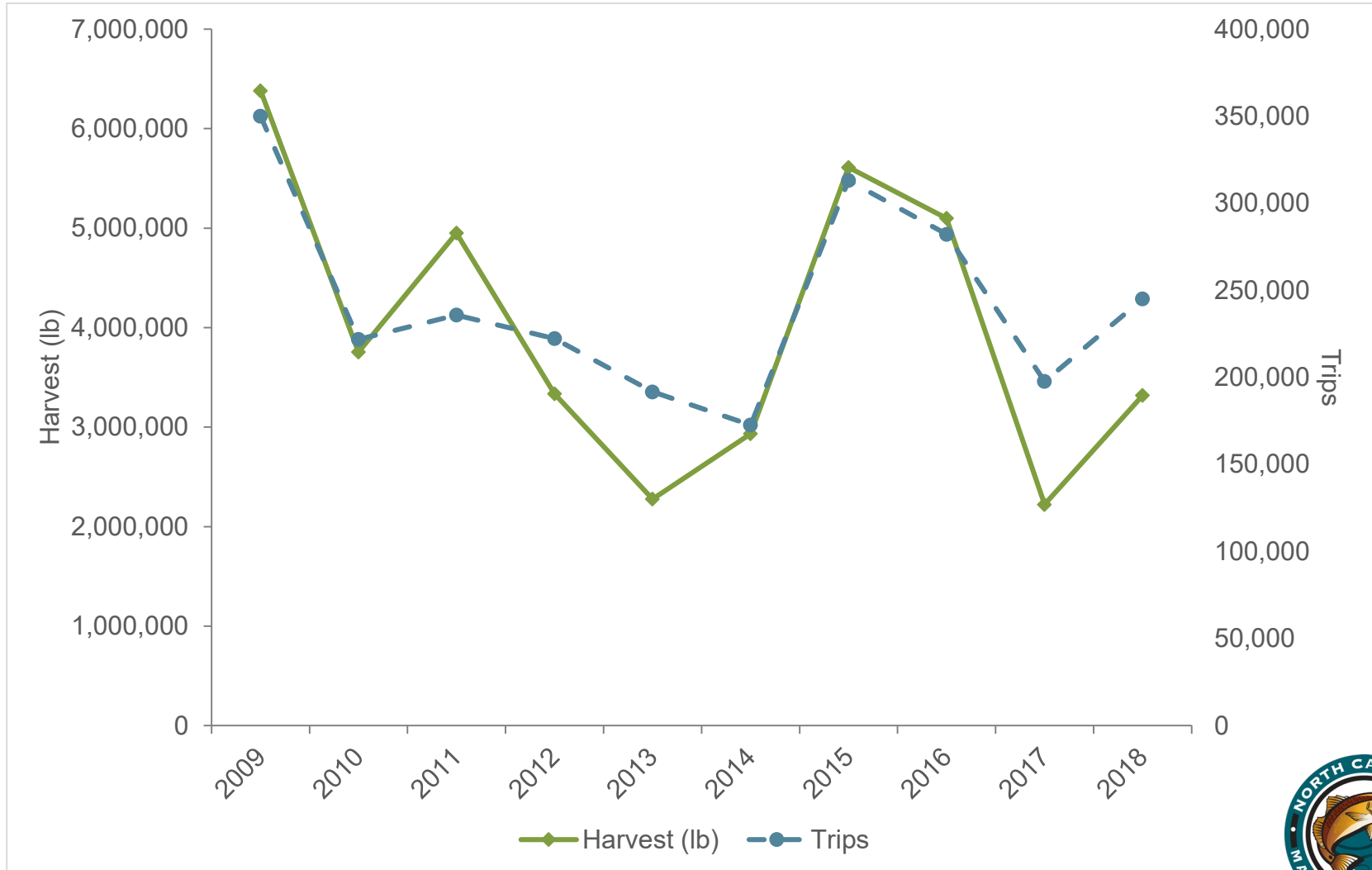


DECREASES

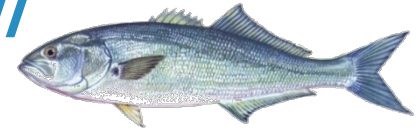


**Based on FES; All percentage changes shown for 2018 from 5-year average (2013 to 2017)*

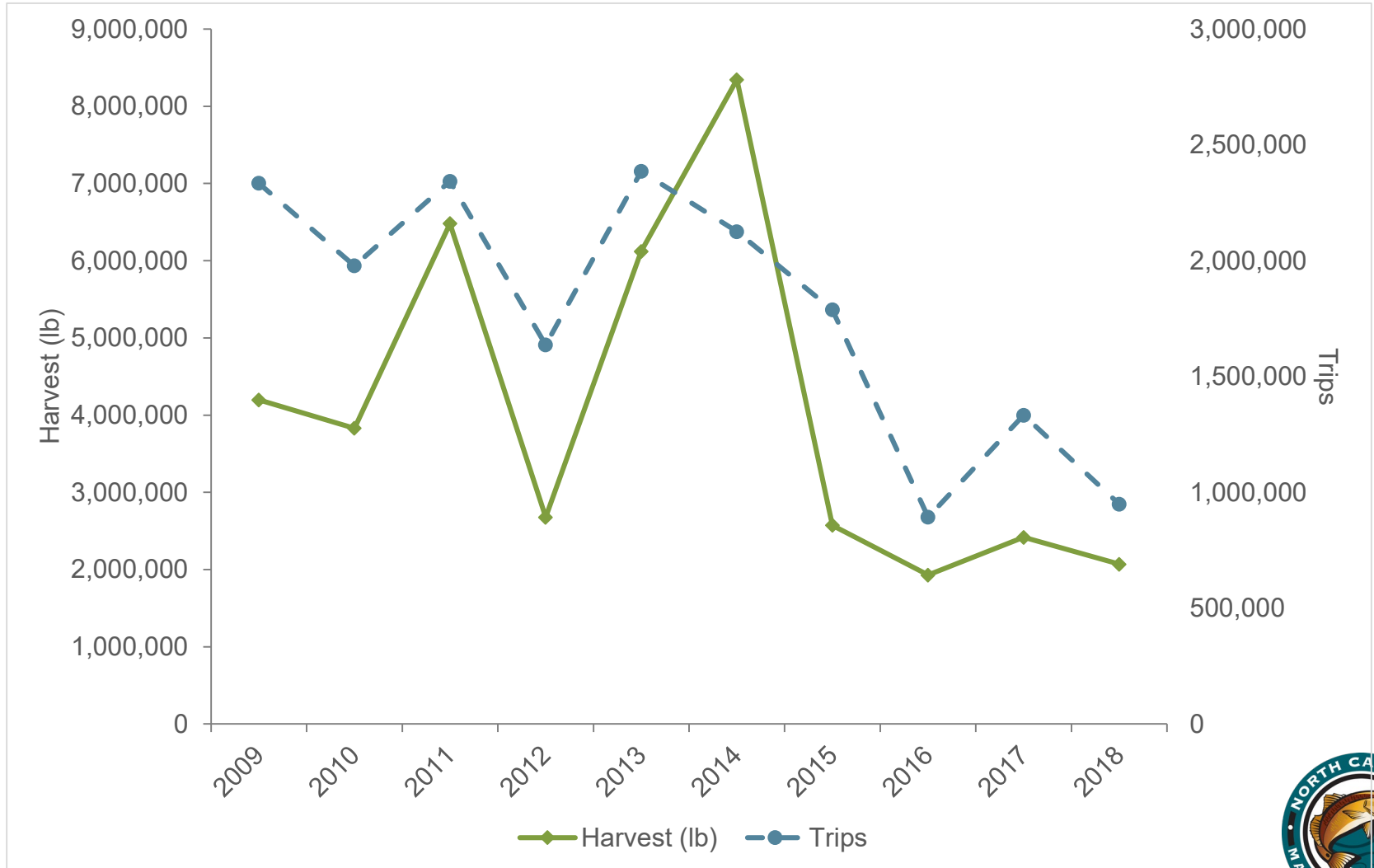
Top Five Species – Recreational Dolphin



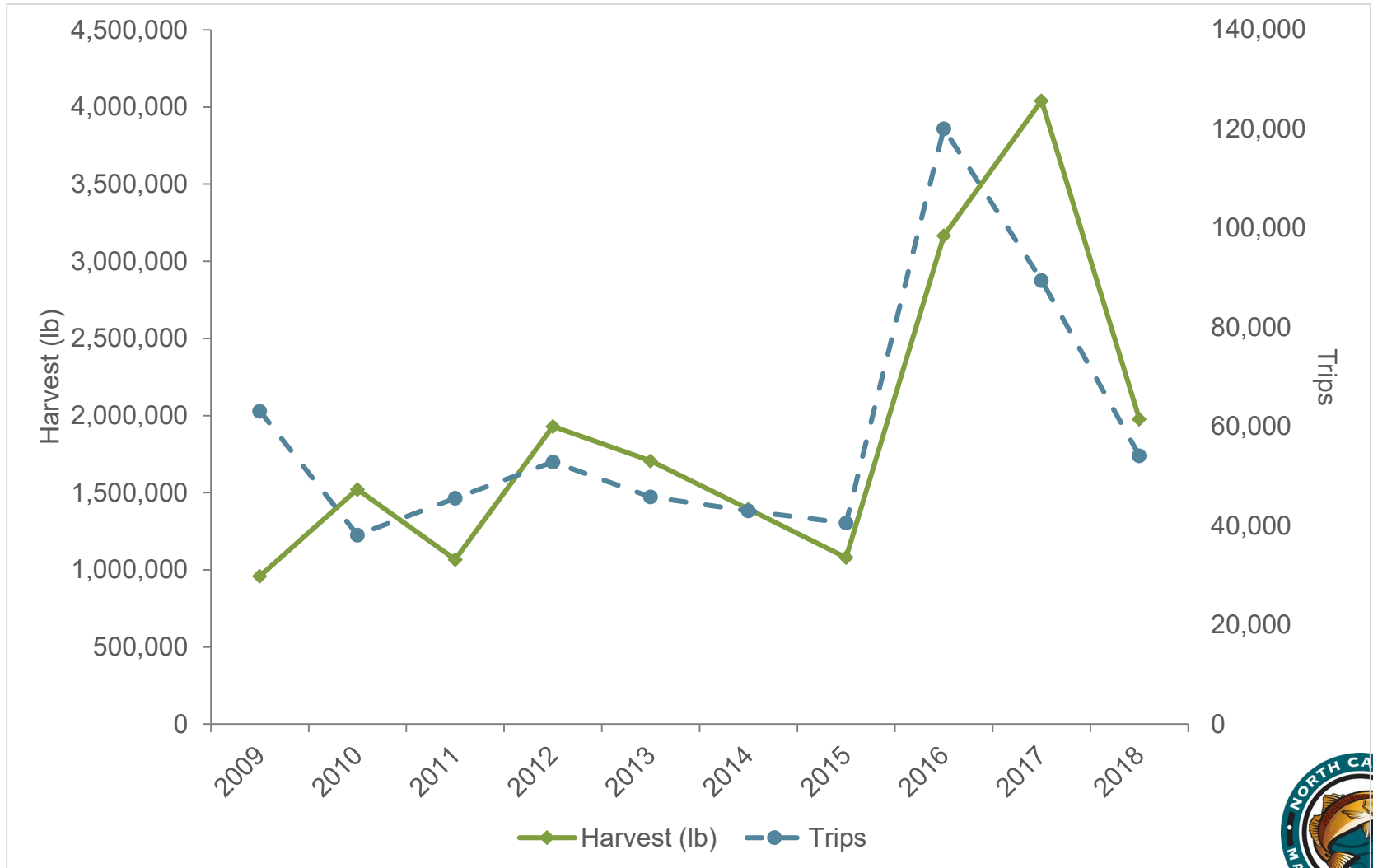
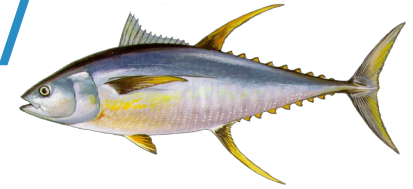
Top Five Species – Recreational Bluefish



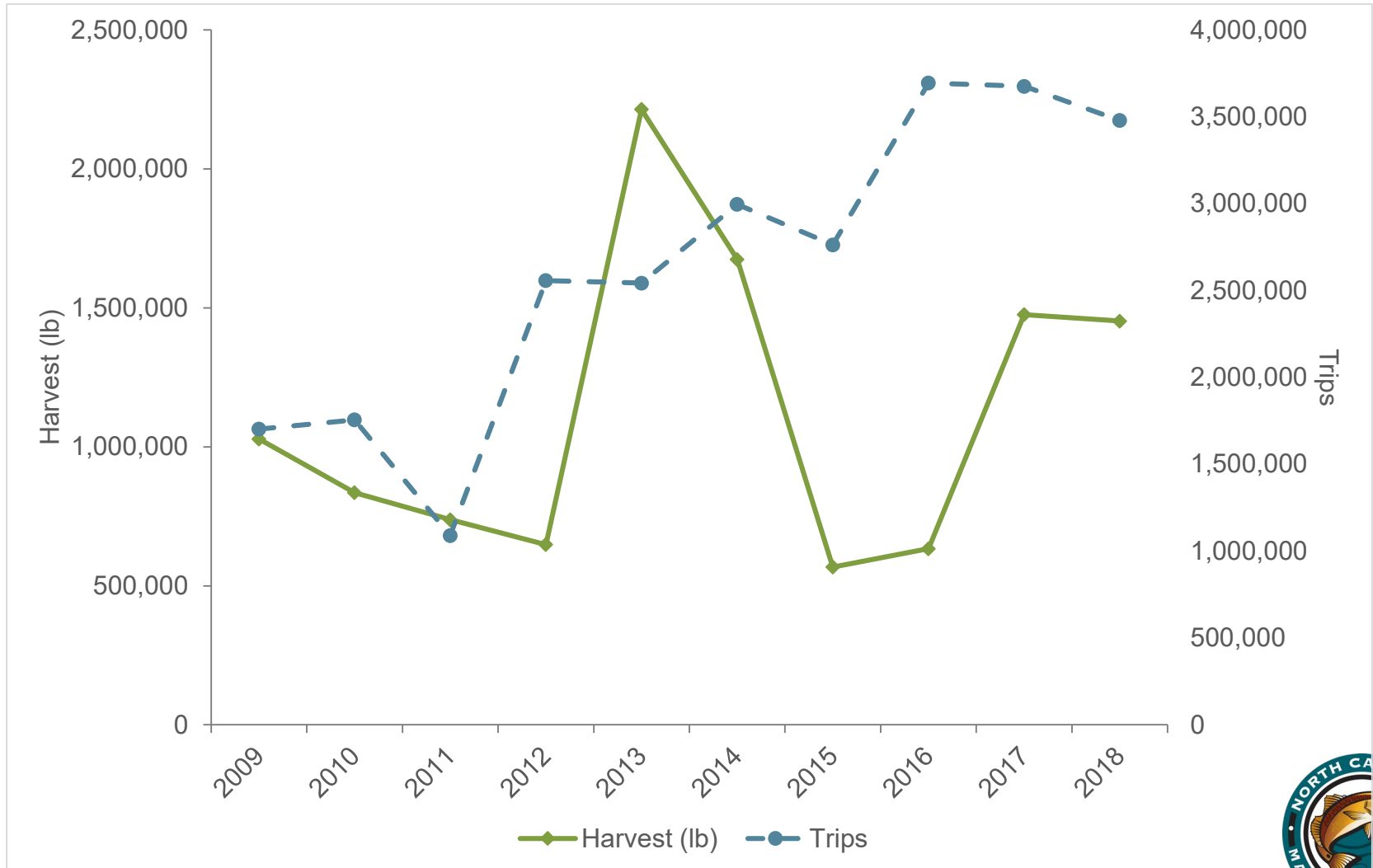
Top Five Species – Recreational Spot



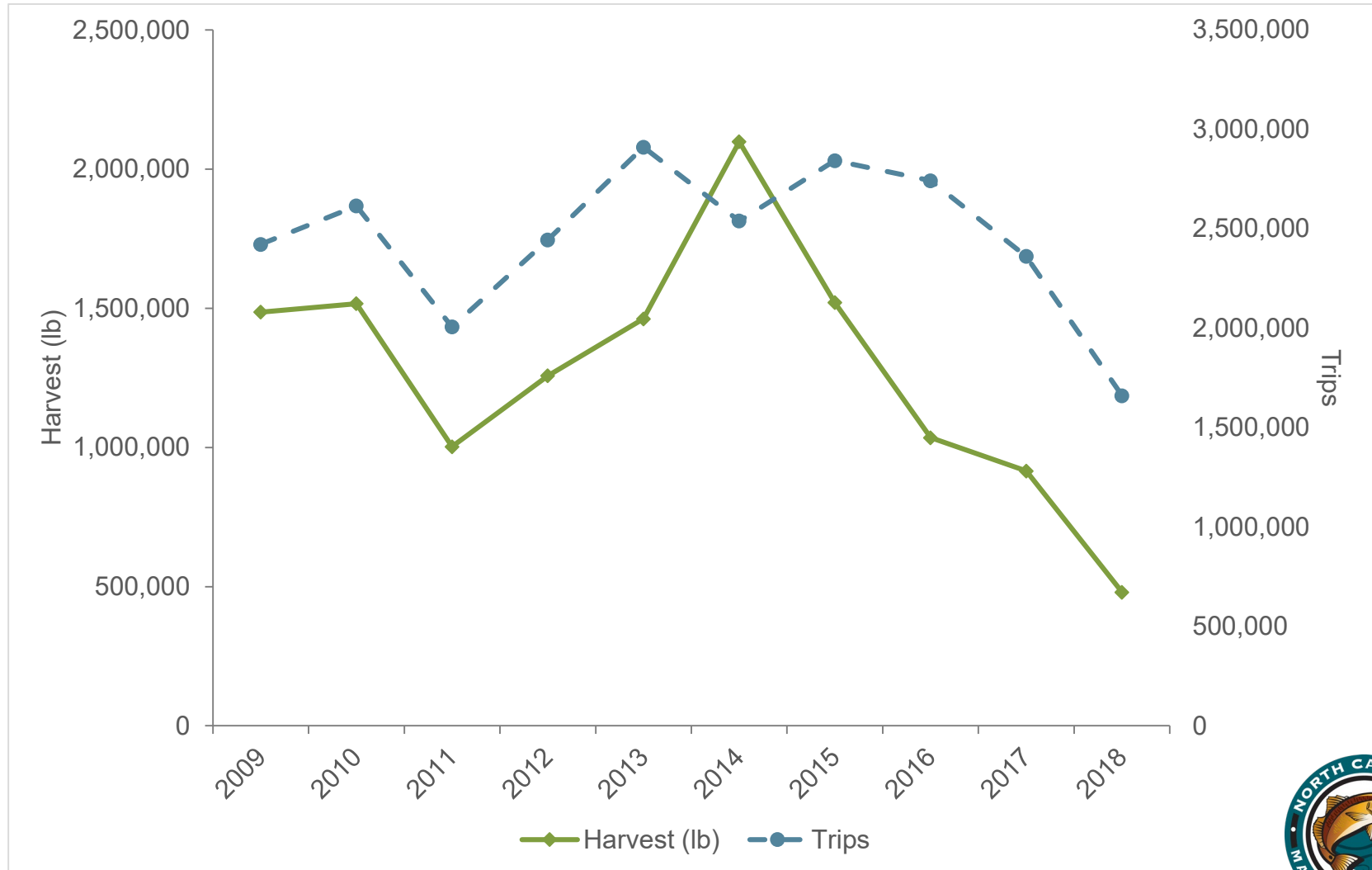
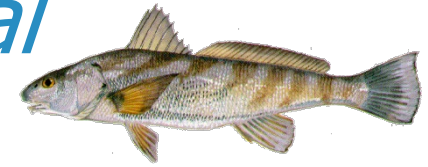
Top Five Species – Recreational Yellowfin Tuna



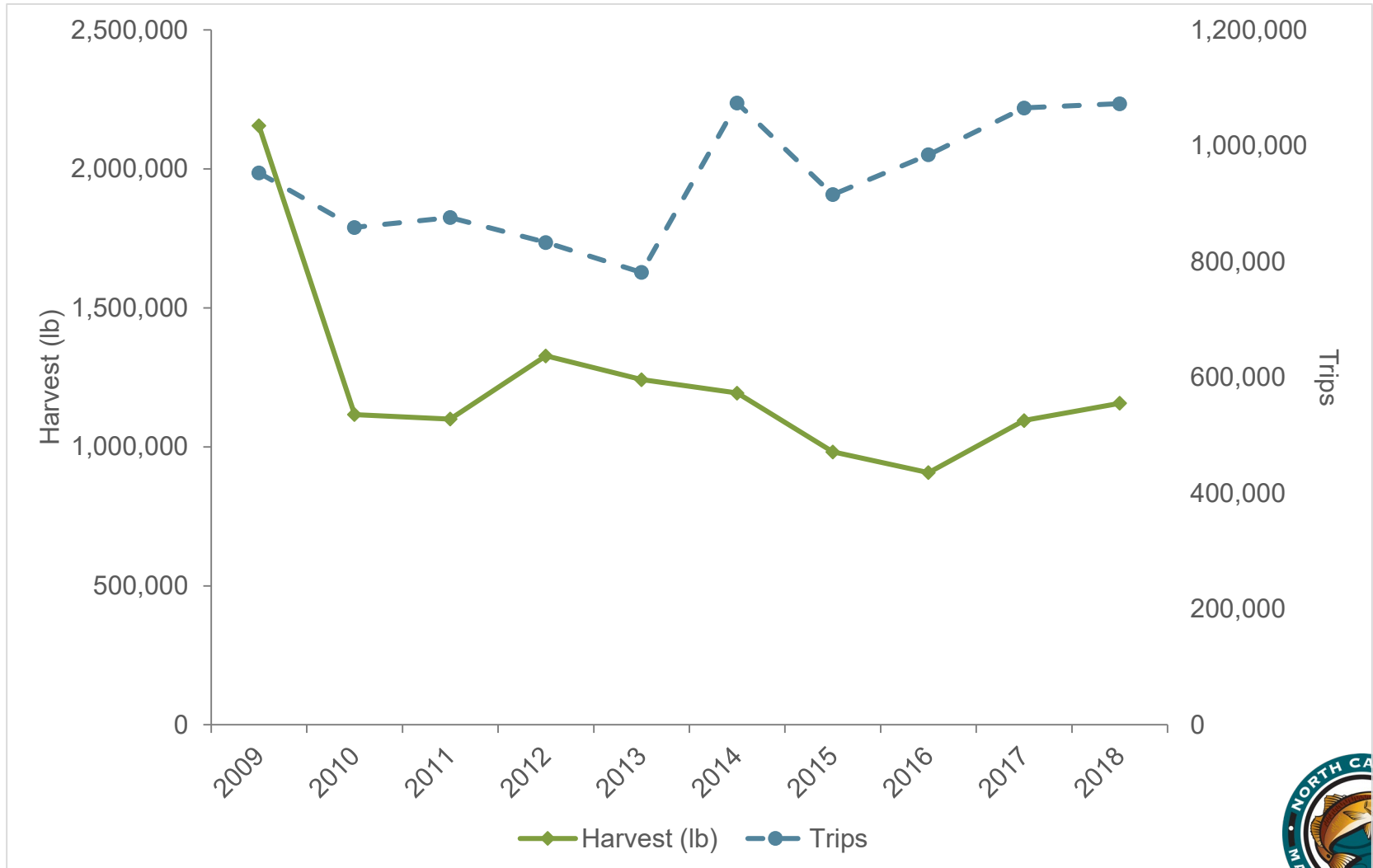
Top Five Species – Recreational Red Drum



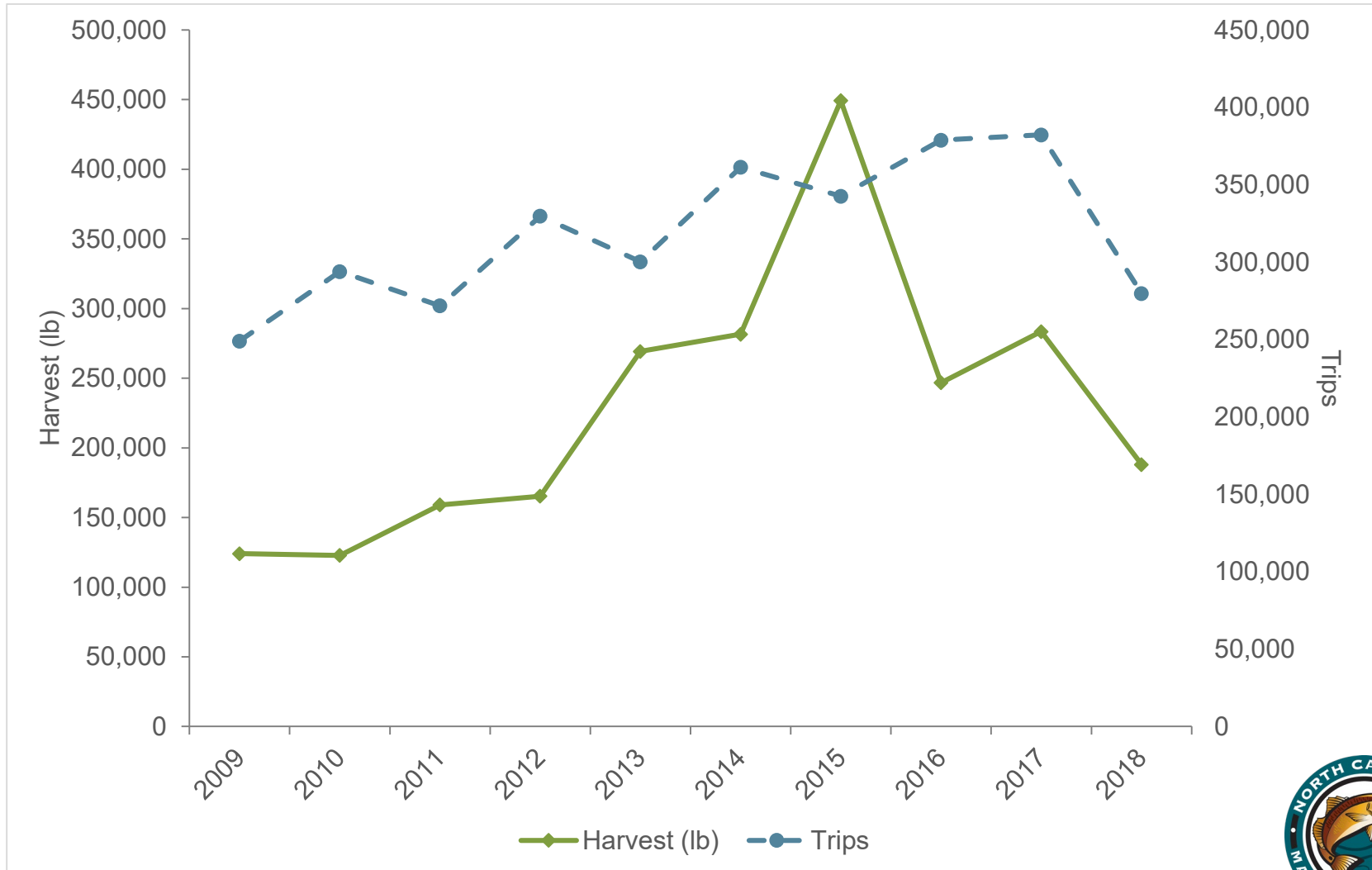
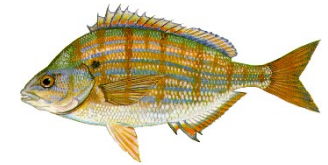
Top Five Species – Recreational Kingfishes



Top Five Species – Recreational Spanish Mackerel



Top Five Species – Recreational Pinfish



Species Leads

SPECIES	LEAD BIOLOGIST	SPECIES	LEAD BIOLOGIST
Shrimp	Chris.Stewart@ncdenr.gov	Tunas	Randy.Gregory@ncdenr.gov
Blue Crabs	Jason.Rock@ncdenr.gov	Dolphin	Tracey.Bauer@ncdenr.gov
Summer Flounder	Todd.vanMiddlesworth@ncdenr.gov	Red Drum	Lee.Paramore@ncdenr.gov
Bluefish	Lee.Paramore@ncdenr.gov	Kingfishes	Kevin.H.Brown@ncdenr.gov
Southern Flounder	Michael.Loeffler@ncdenr.gov	Spot	Daniel.Zapf@ncdenr.gov
Oysters	Joe.Facendola@ncdenr.gov	Spanish Mackerel	Randy.Gregory@ncdenr.gov
Atlantic Croaker	Daniel.Zapf@ncdenr.gov	Striped Mullet	Daniel.Zapf@ncdenr.gov
Pinfish	Kathy.Rawls@ncdenr.gov		



Data Needs?

Commercial data:

Amanda.Tong@ncdenr.gov

Alan.Bianchi@ncdenr.gov

Recreational data:

Andrew.Cathey@ncdenr.gov

Chris.Wilson@ncdenr.gov

Socioeconomic:

David.Dietz@ncdenr.gov

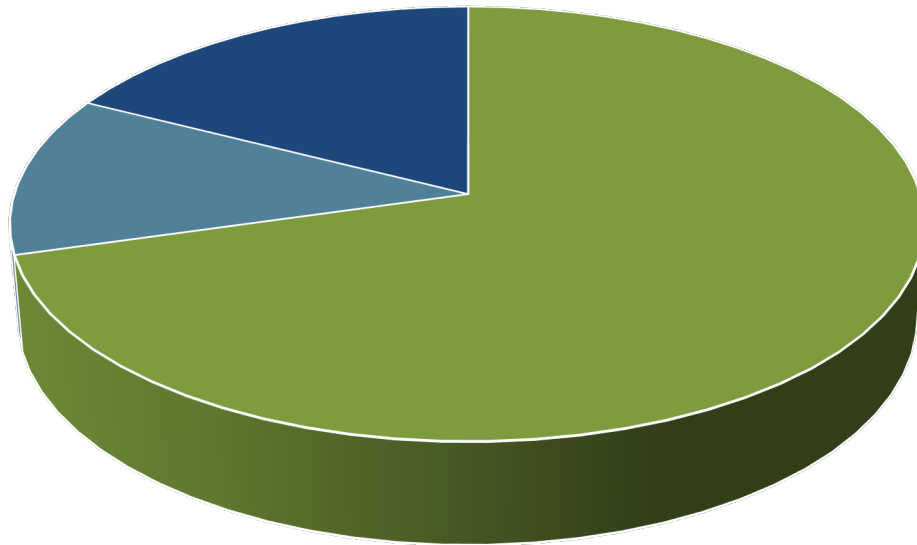


Questions



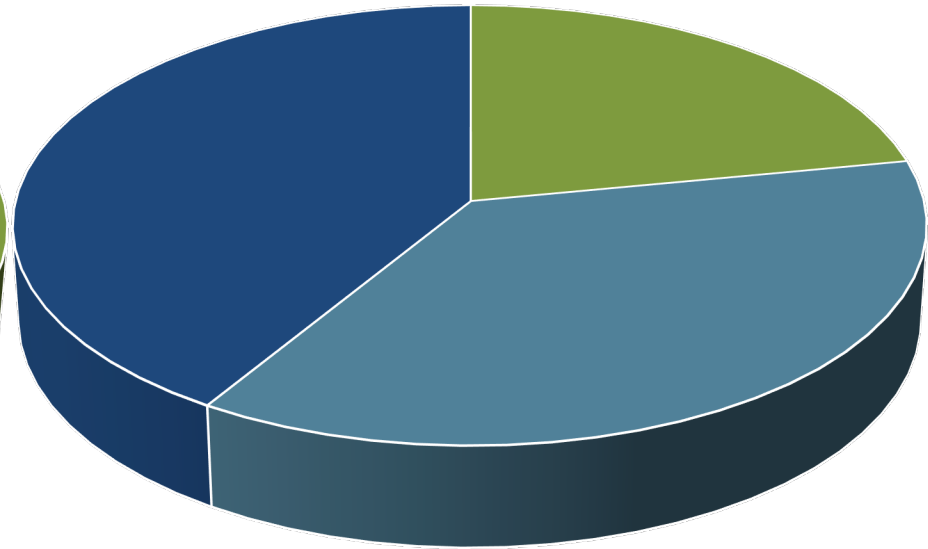
North Carolina Landings and Harvest (in pounds by area)

2018 Commercial



- Estuarine
- Ocean (<= 3 Miles)
- Ocean (>3 Miles)

2018 Recreational



- Inland
- Ocean (<= 3 Miles)
- Ocean (>3 Miles)