



# *2020 North Carolina Landings and Harvest Trends*

DEPARTMENT OF ENVIRONMENTAL QUALITY



Marine Fisheries

Marine Fisheries Commission | Brandi Salmon | November 2021



# *Commercial Landings*

## **T**TRIP **T**TICKET **P**PROGRAM



*Department of Environmental Quality*





# *Recreational Harvest*

## COASTAL ANGLING PROGRAM



**23,746**  
interviews

**19,095**  
mail surveys

*Department of Environmental Quality*



# *Recreational Harvest*

## Marine Recreational Information Program (NOAA Fisheries partnership)

- Access Point Angler Intercept Survey (APAIS)
- For-Hire Effort Survey
- Highly Migratory Species Catch Card
- Large Pelagic Biological Sampling



# *Recreational Harvest*

- Central Southern Management Area (CSMA) Creel Survey
- Mail Surveys (i.e., gigging, cast net/seine, crab/shellfish)
- Specialty Surveys (e.g., socioeconomic, Catch-U-Later App)



# *Commercial and 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**



**Price**



**Market Demand**





# *Effort Drives Landings and Harvest*

Several factors impact effort including:

**Stock  
Abundance**



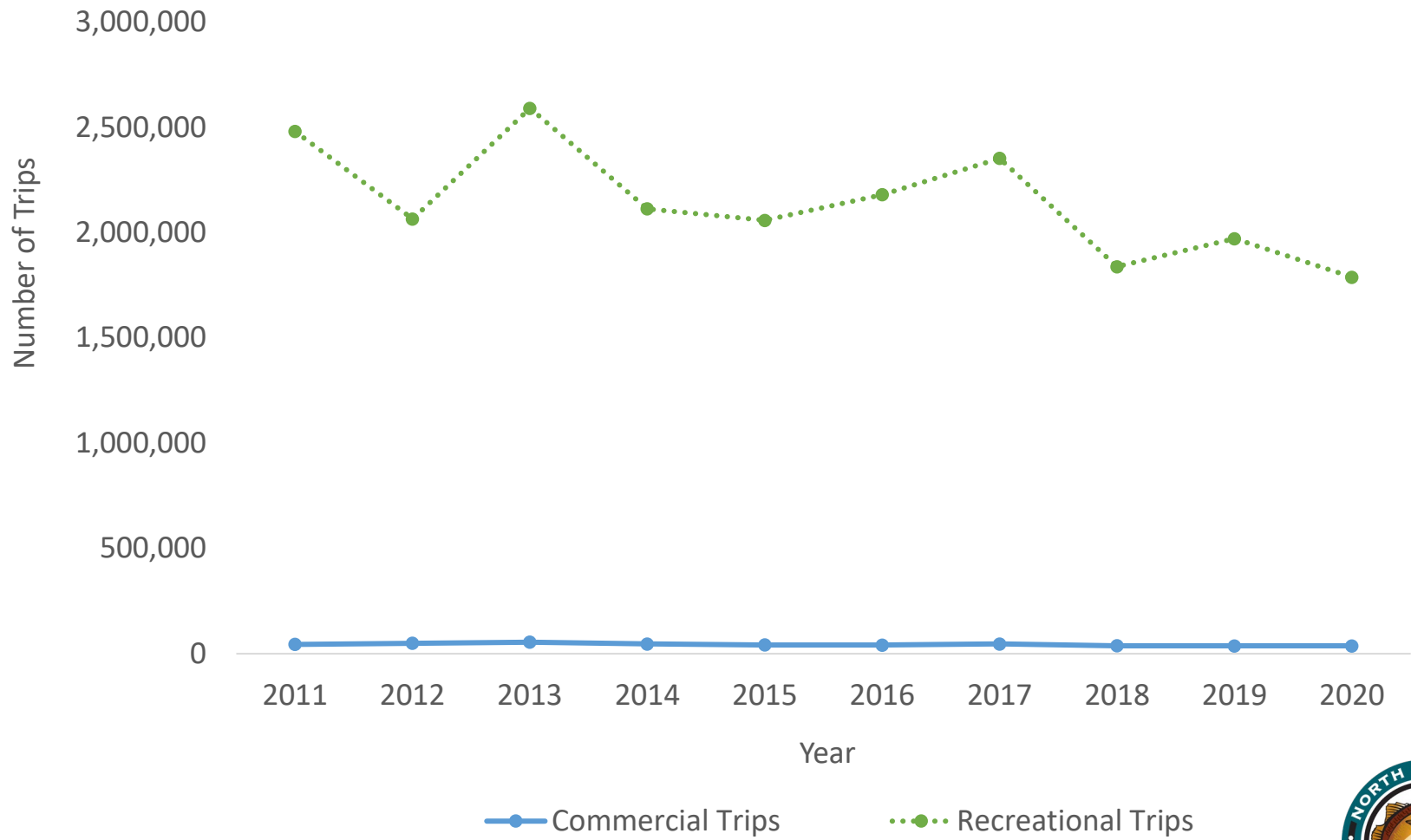
**Regulations**



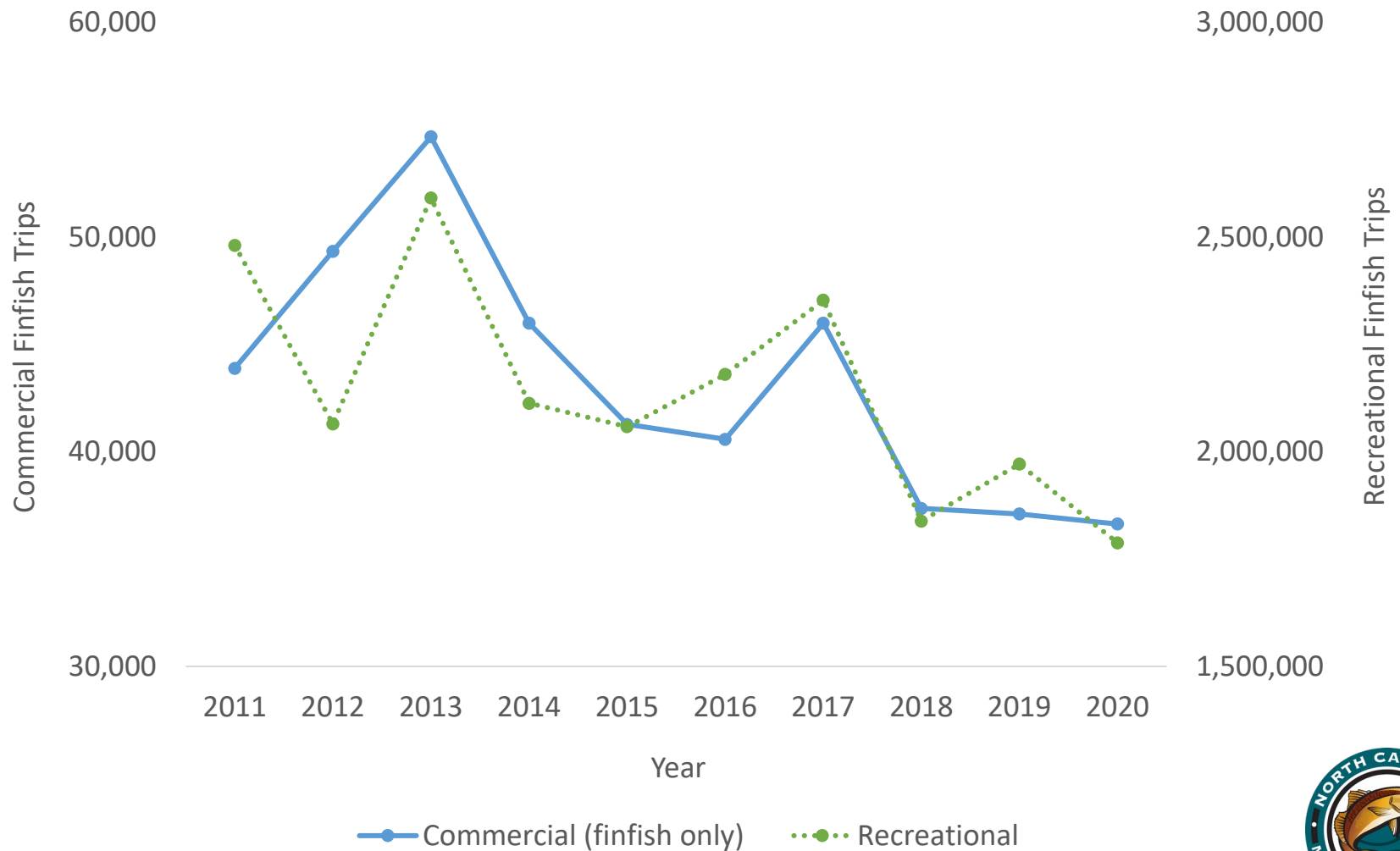
**Economic  
Factors**



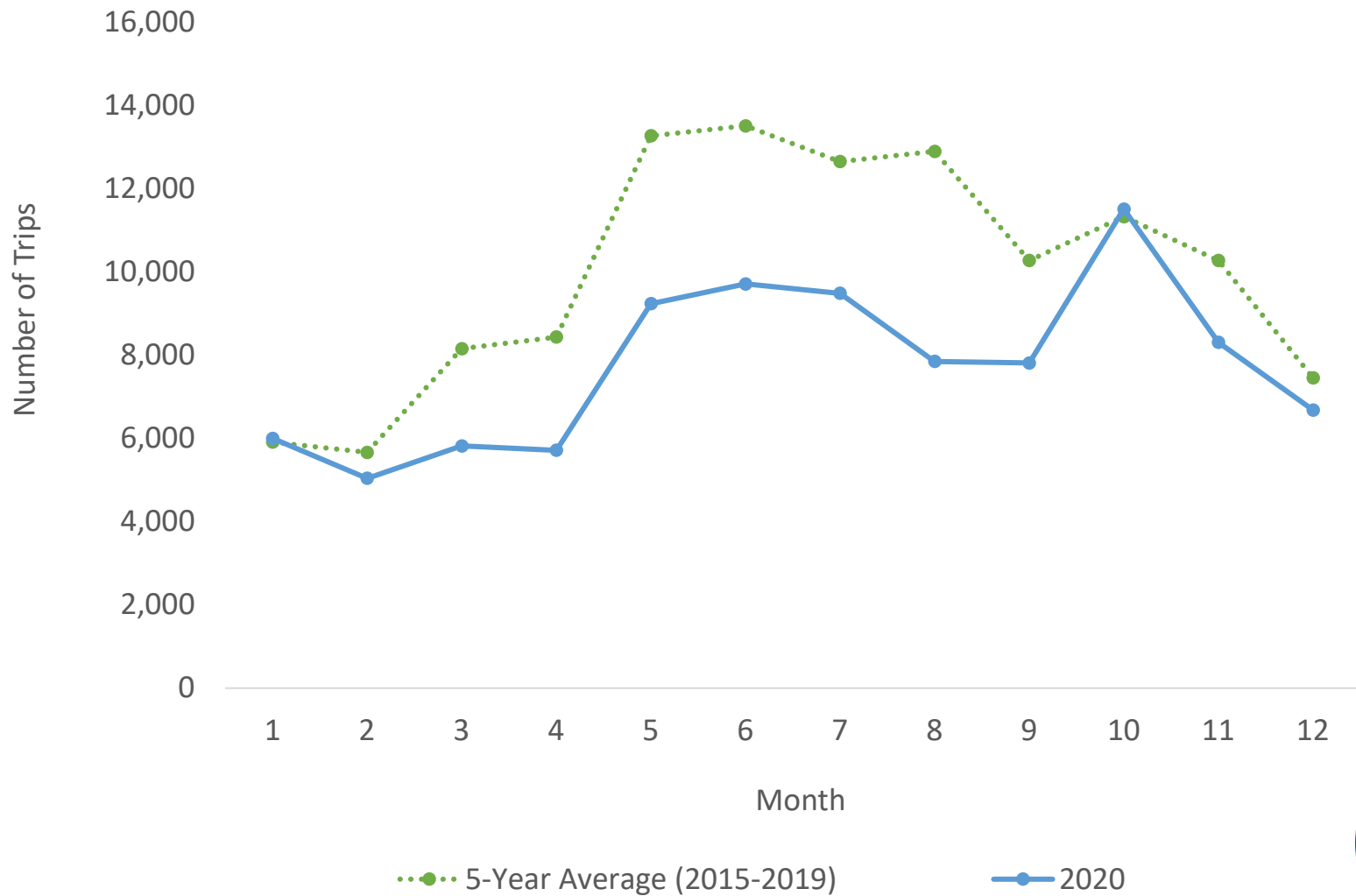
# *Fishing Trips with only Finfish*



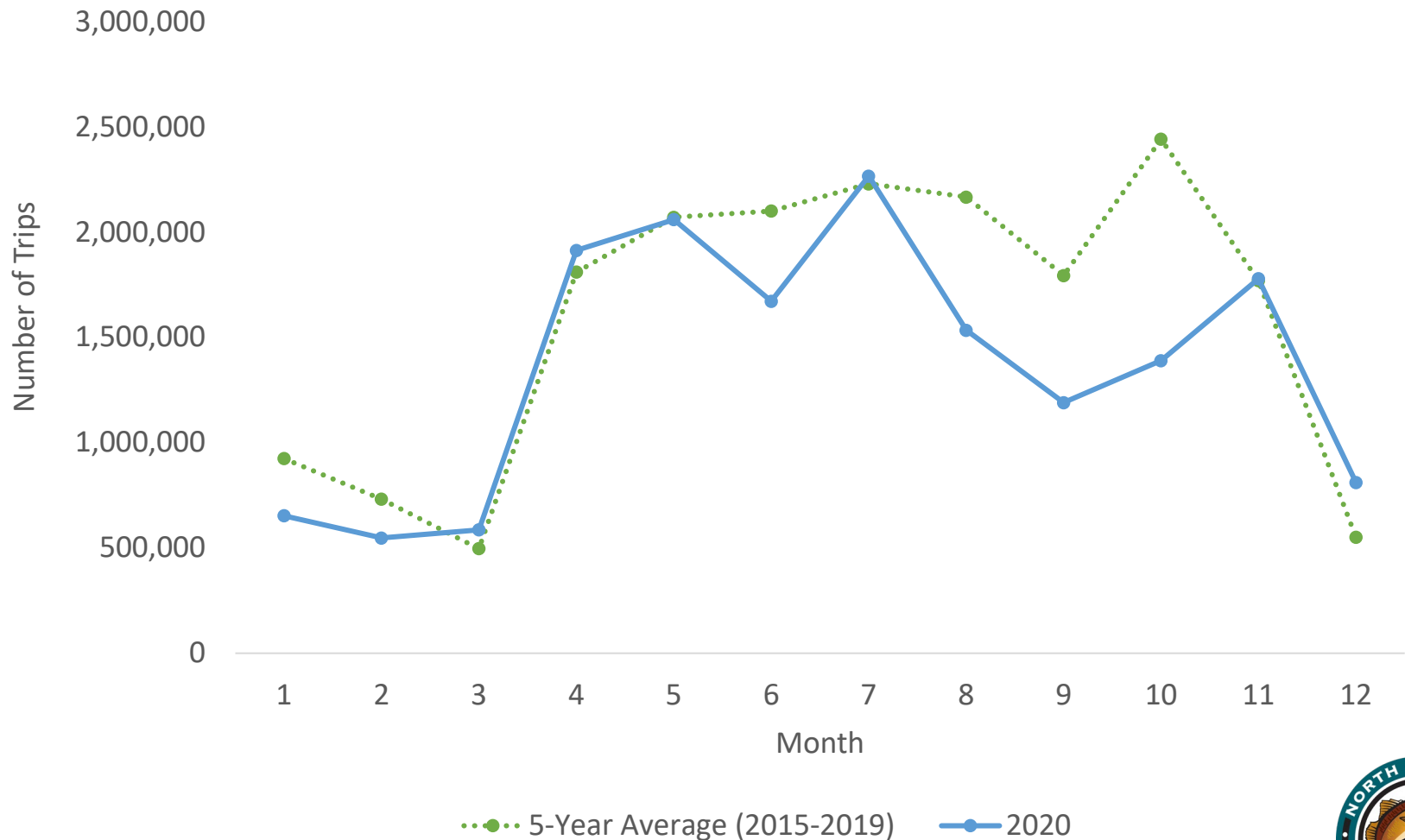
# *Fishing Trips with only Finfish*



# All Fishing Trips by Month - Commercial



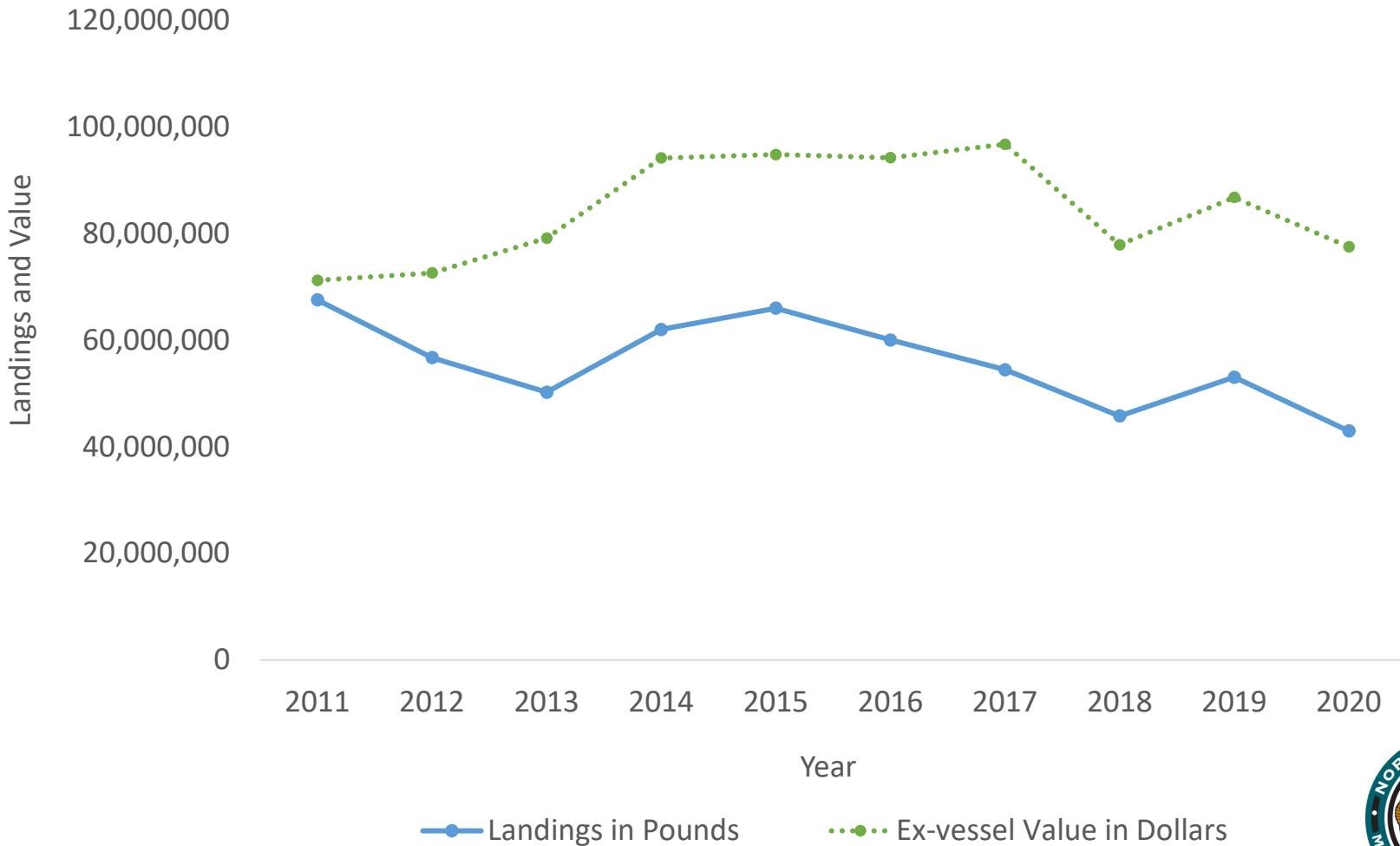
# All Fishing Trips by Month - Recreational



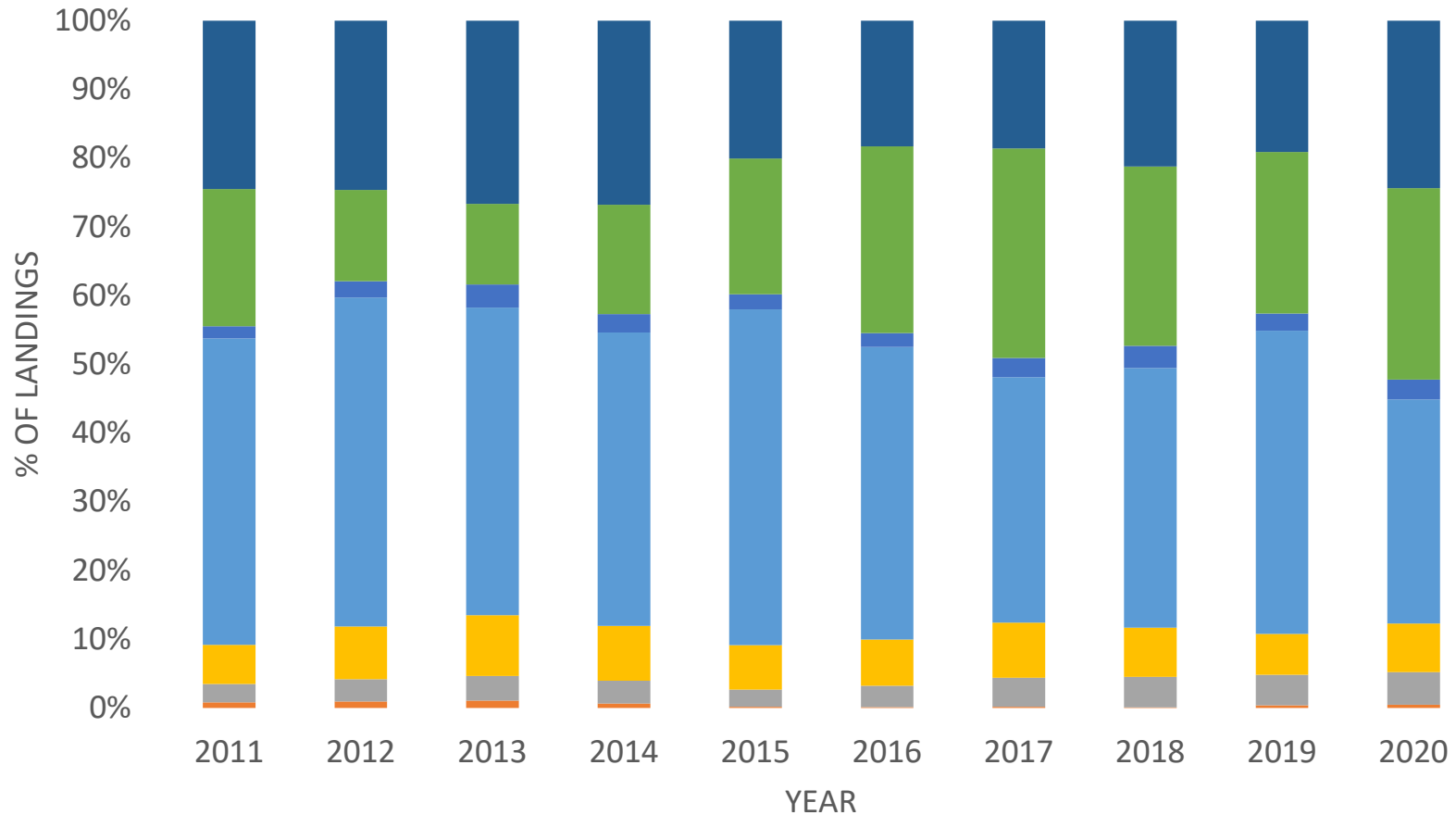
# Commercial



# North Carolina Commercial Landings (pounds and value)



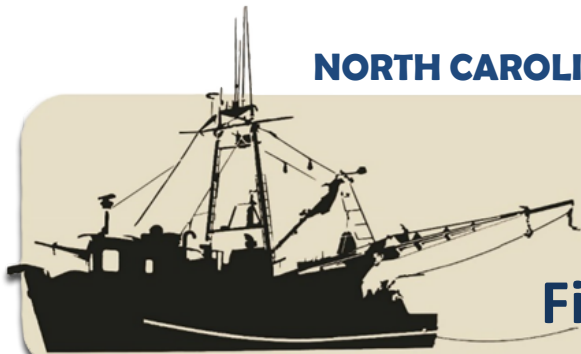
# North Carolina Commercial Landings by Gear



■ Haul Seines  
 ■ Hook and Line  
 ■ Other  
 ■ Pots  
 ■ Pound Net  
 ■ Trawls  
 ■ Gill Nets

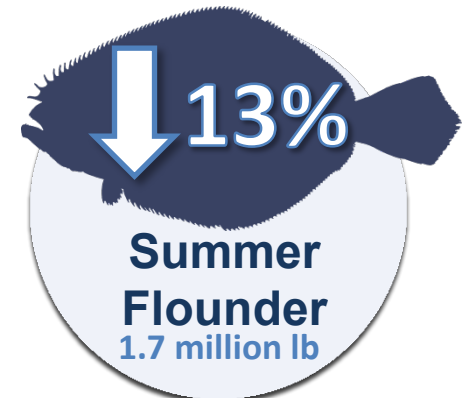
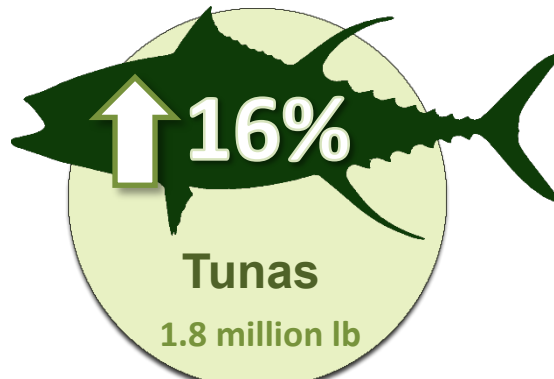
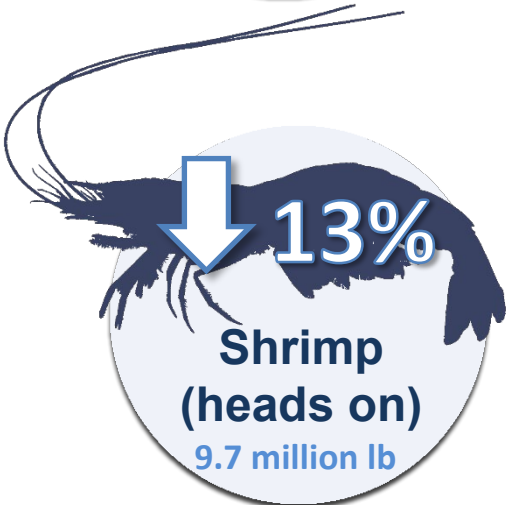
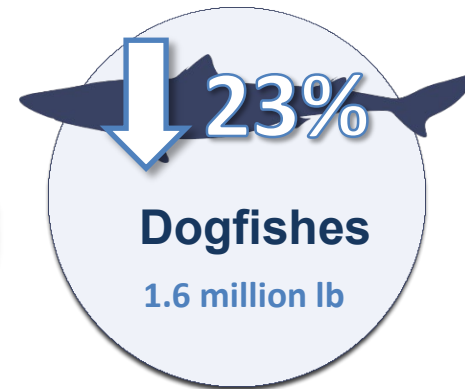
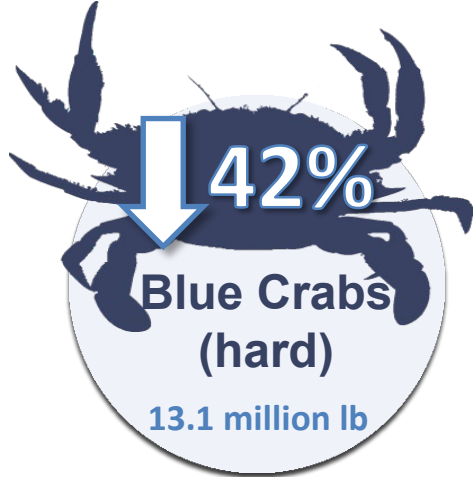




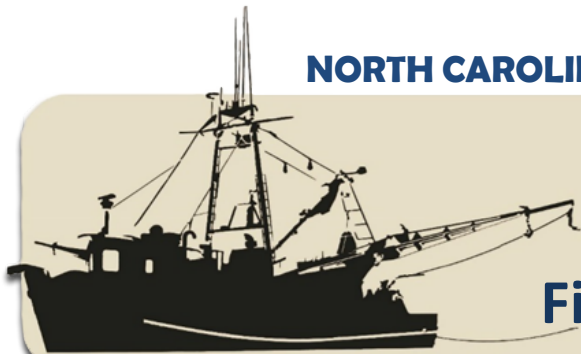


**2020 Total  
Commercial  
Fisheries Landings**

**42.9 million lb**

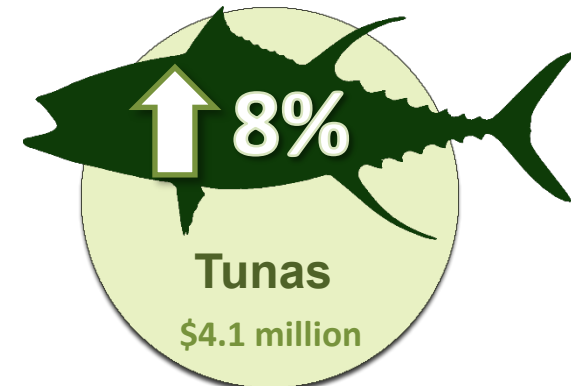
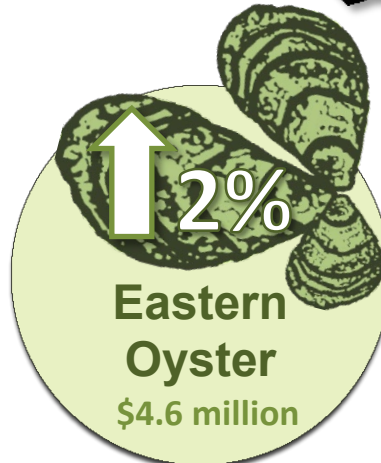
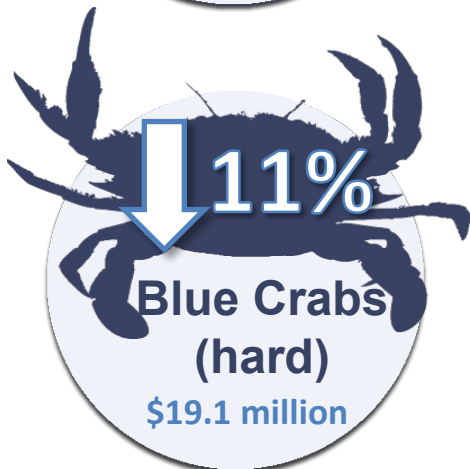
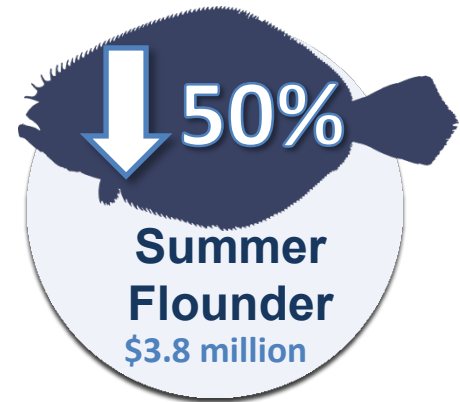
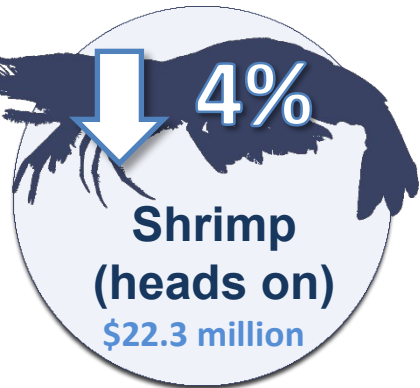


*\*All percentage changes shown for 2020 from 5-year average (2015 to 2019)*



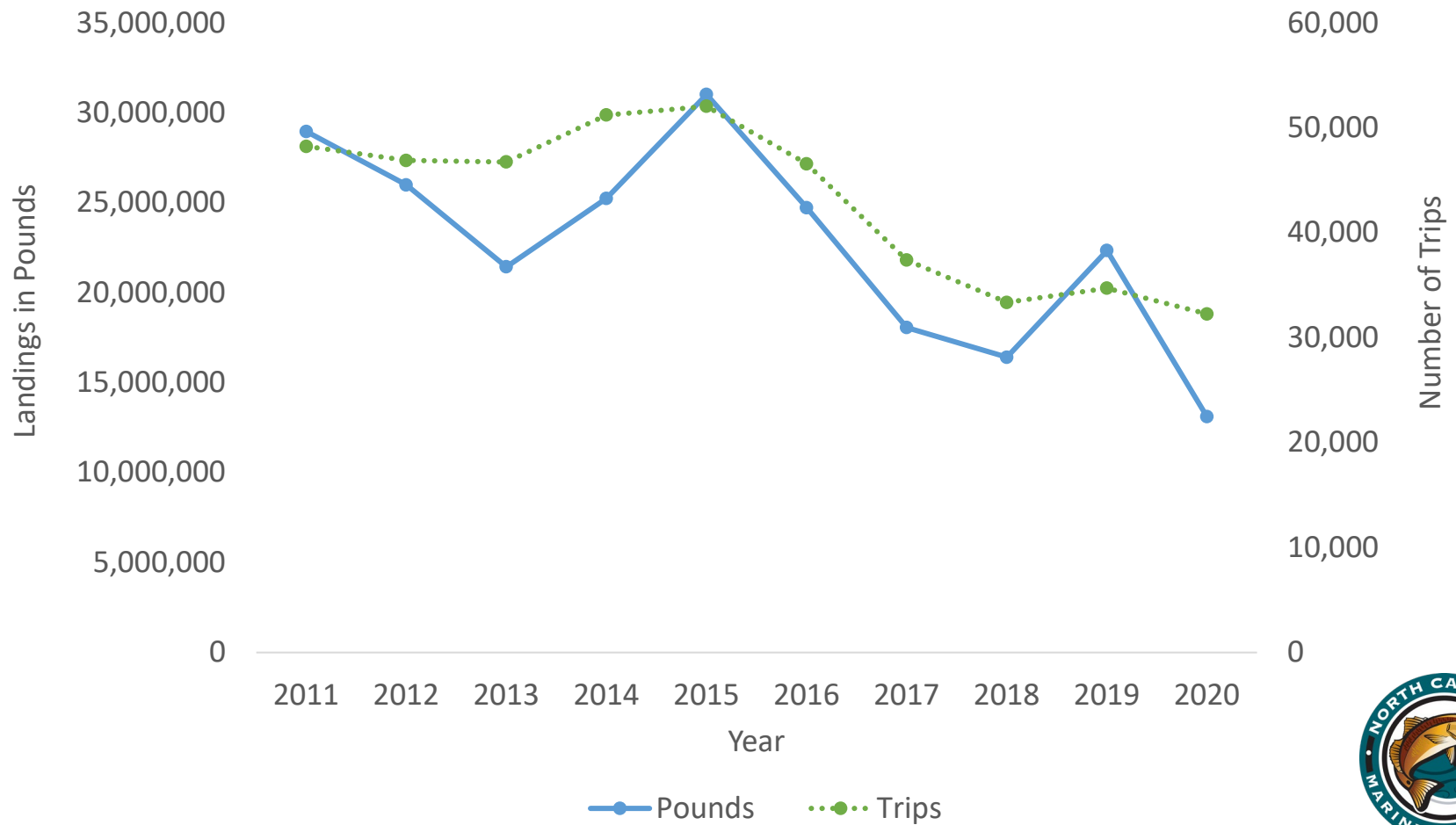
**2020 Total  
Commercial  
Fisheries Landings**

**\$77.4 million**

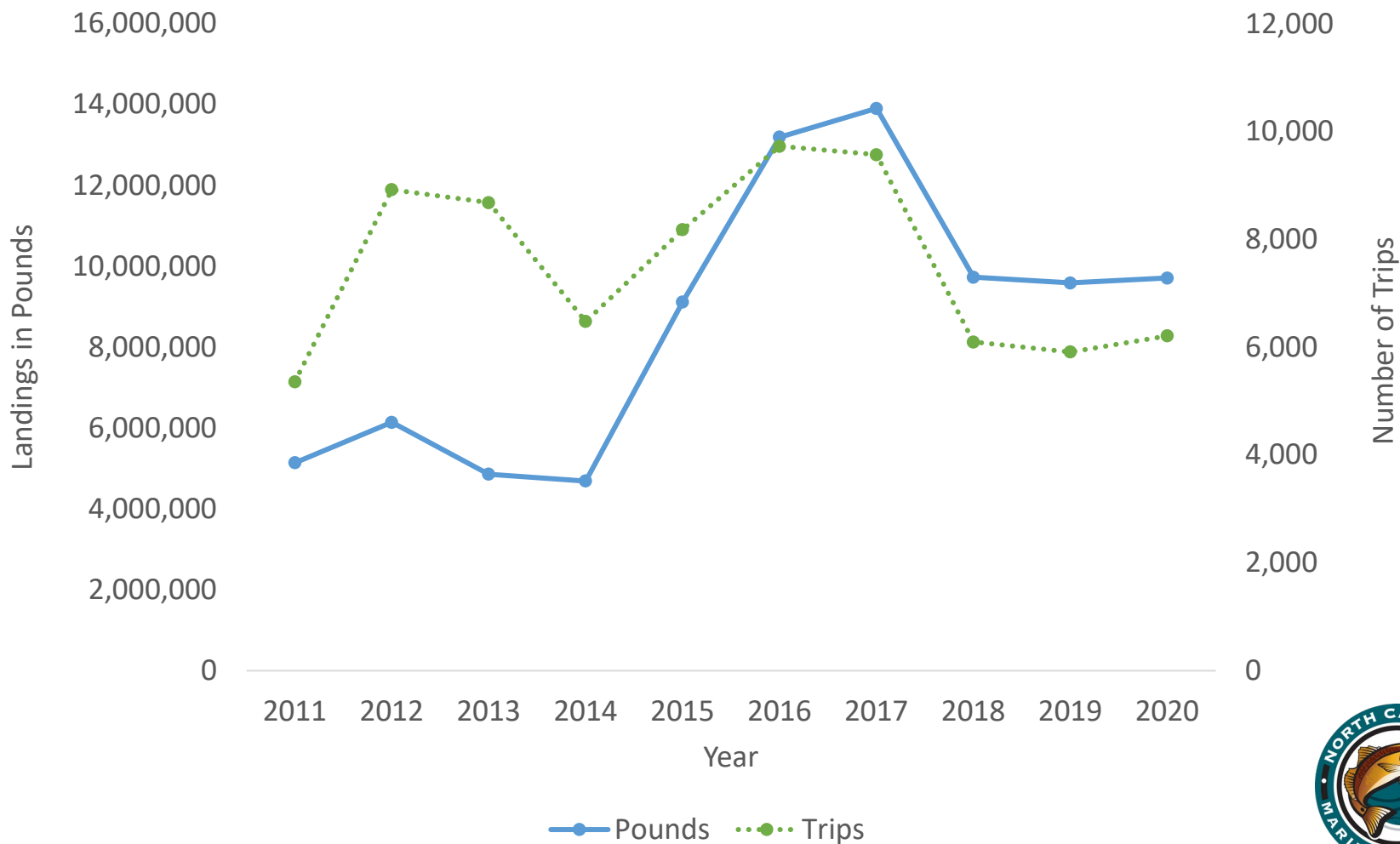


*\*All percentage changes shown for 2020 from 5-year average (2015 to 2019)*

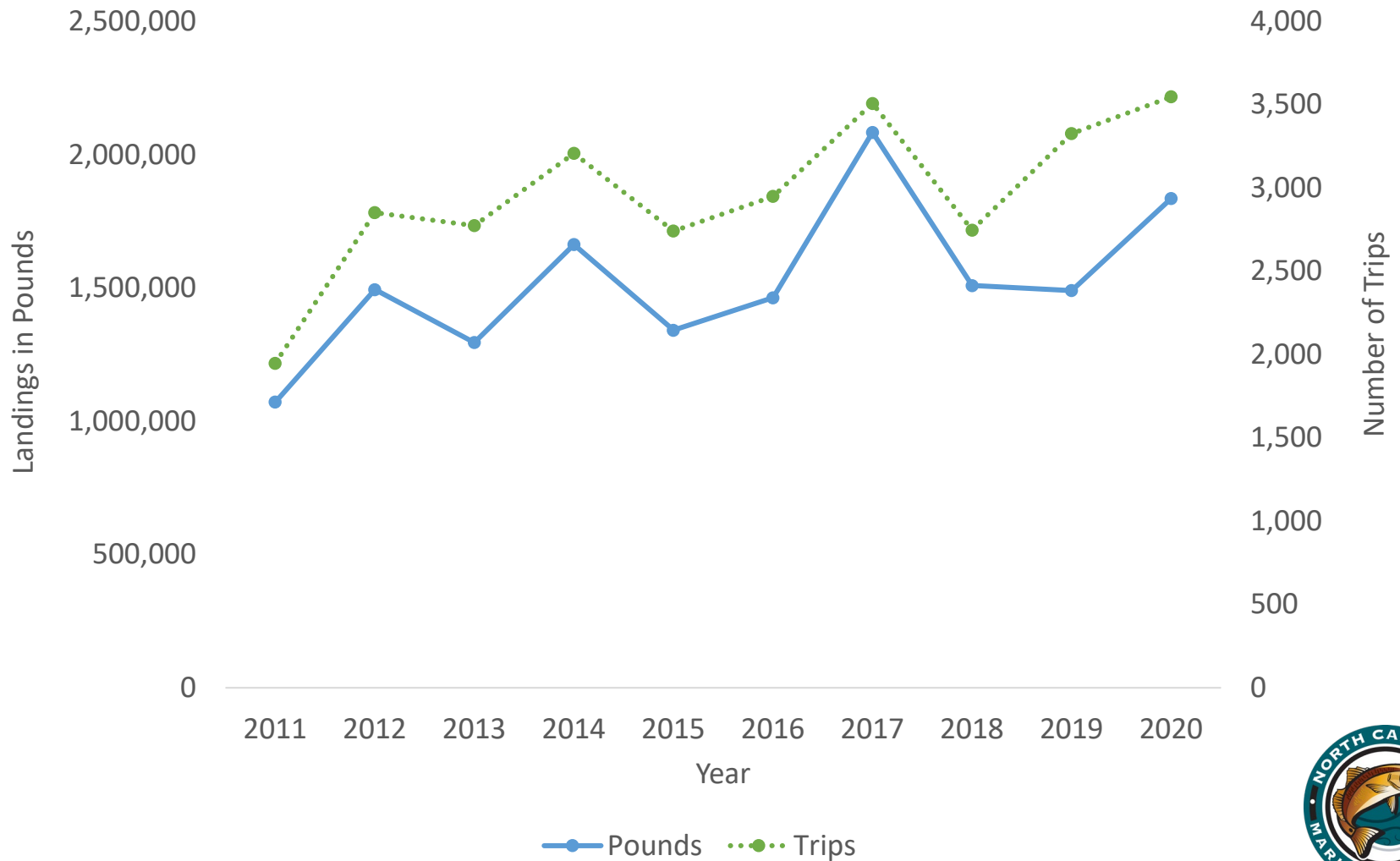
# Top Five Species – Commercial Hard Blue Crab



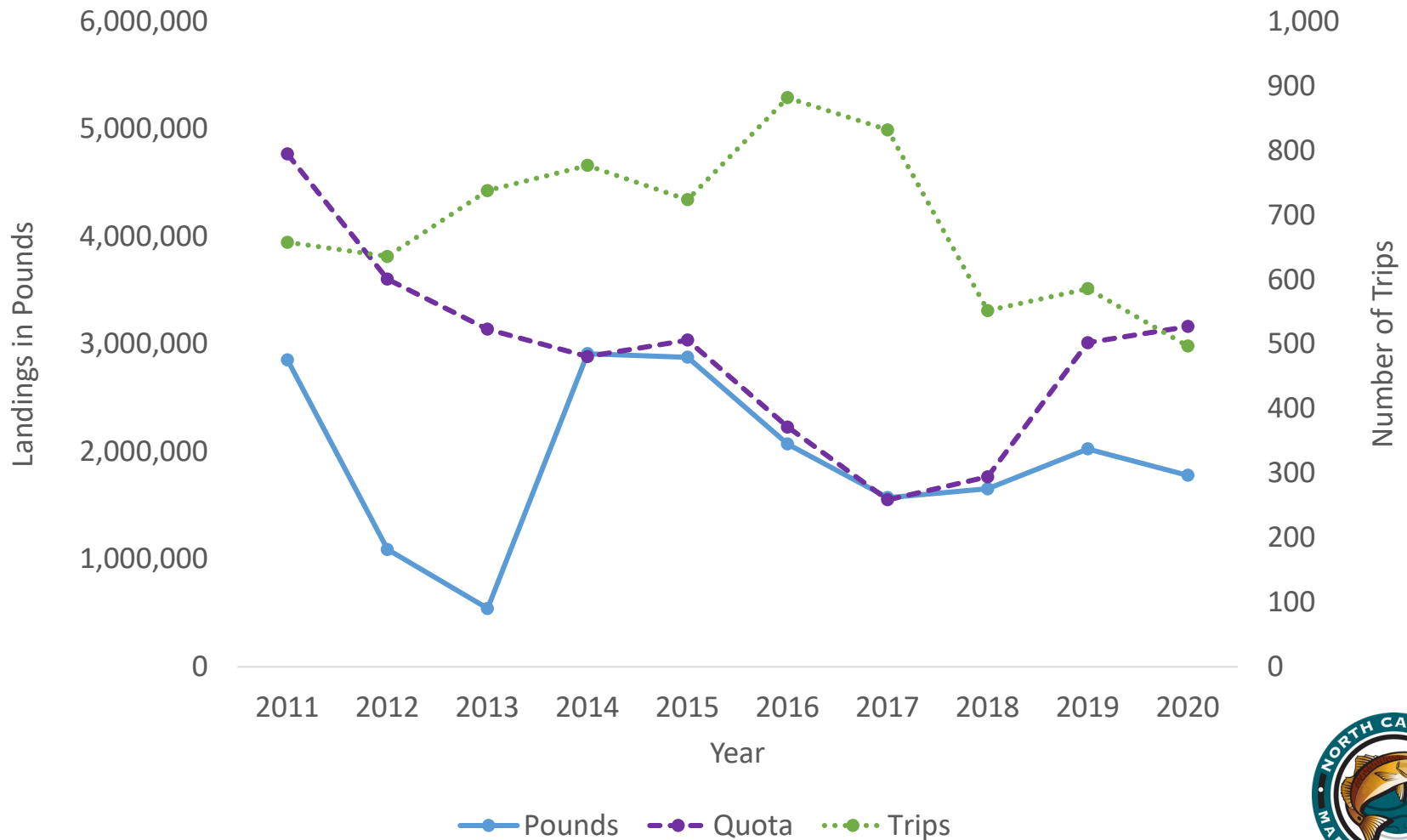
# Top Five Species – Commercial Penaeid Shrimp



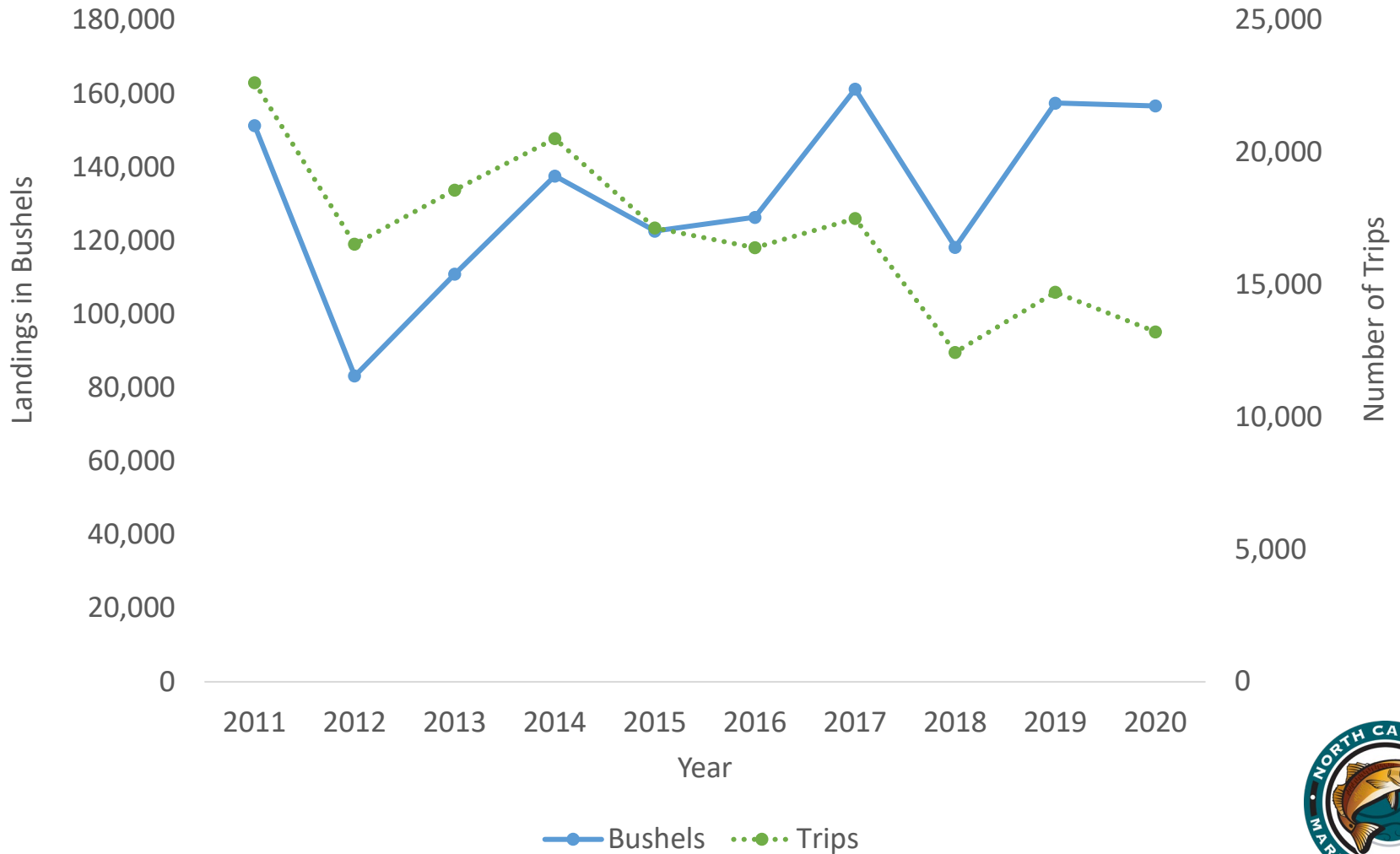
# Top Five Species – Commercial Tunas



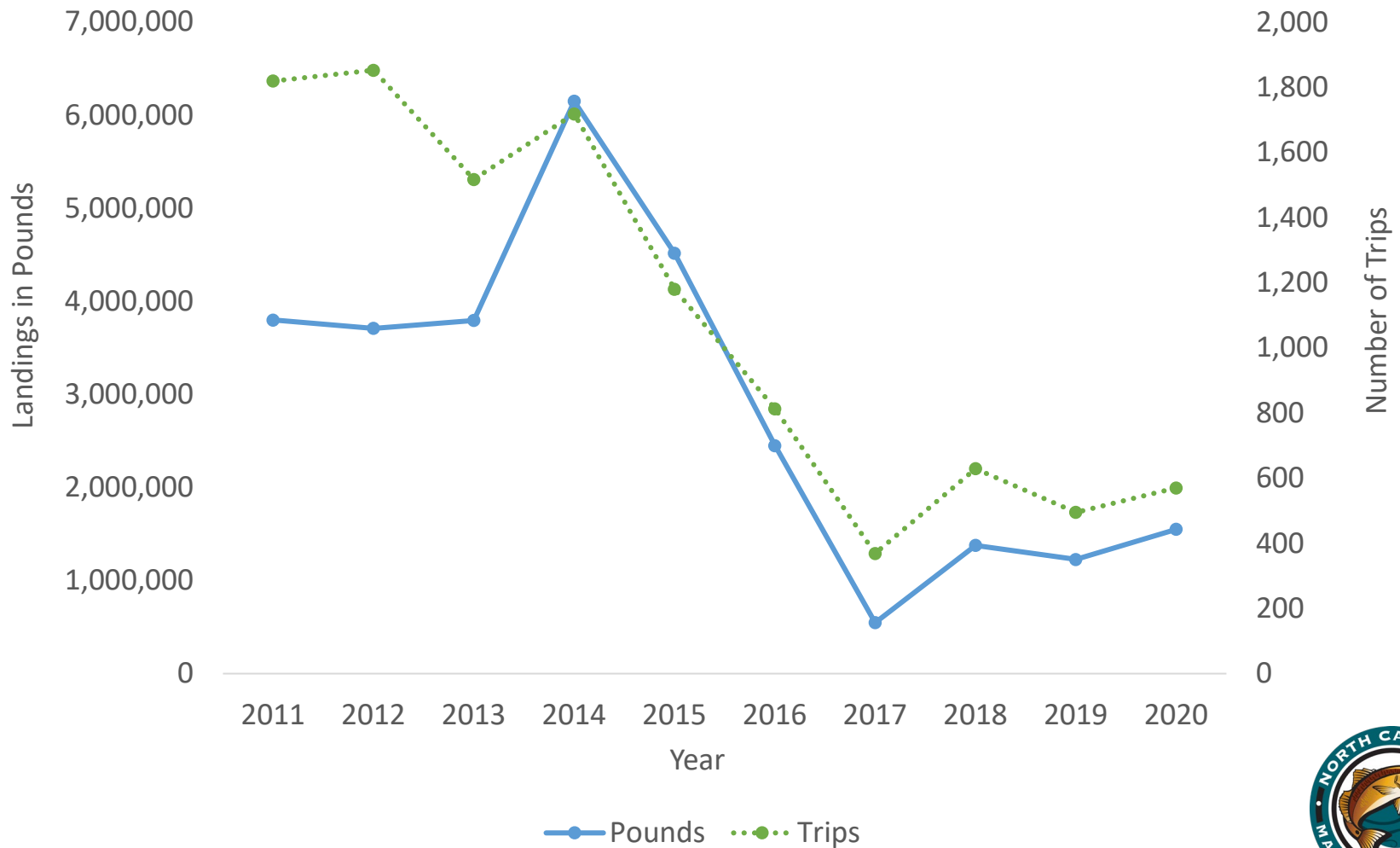
# Top Five Species – Commercial Summer Flounder



# Top Five Species – Commercial Eastern Oyster



# Top Five Species – Commercial Dogfishes

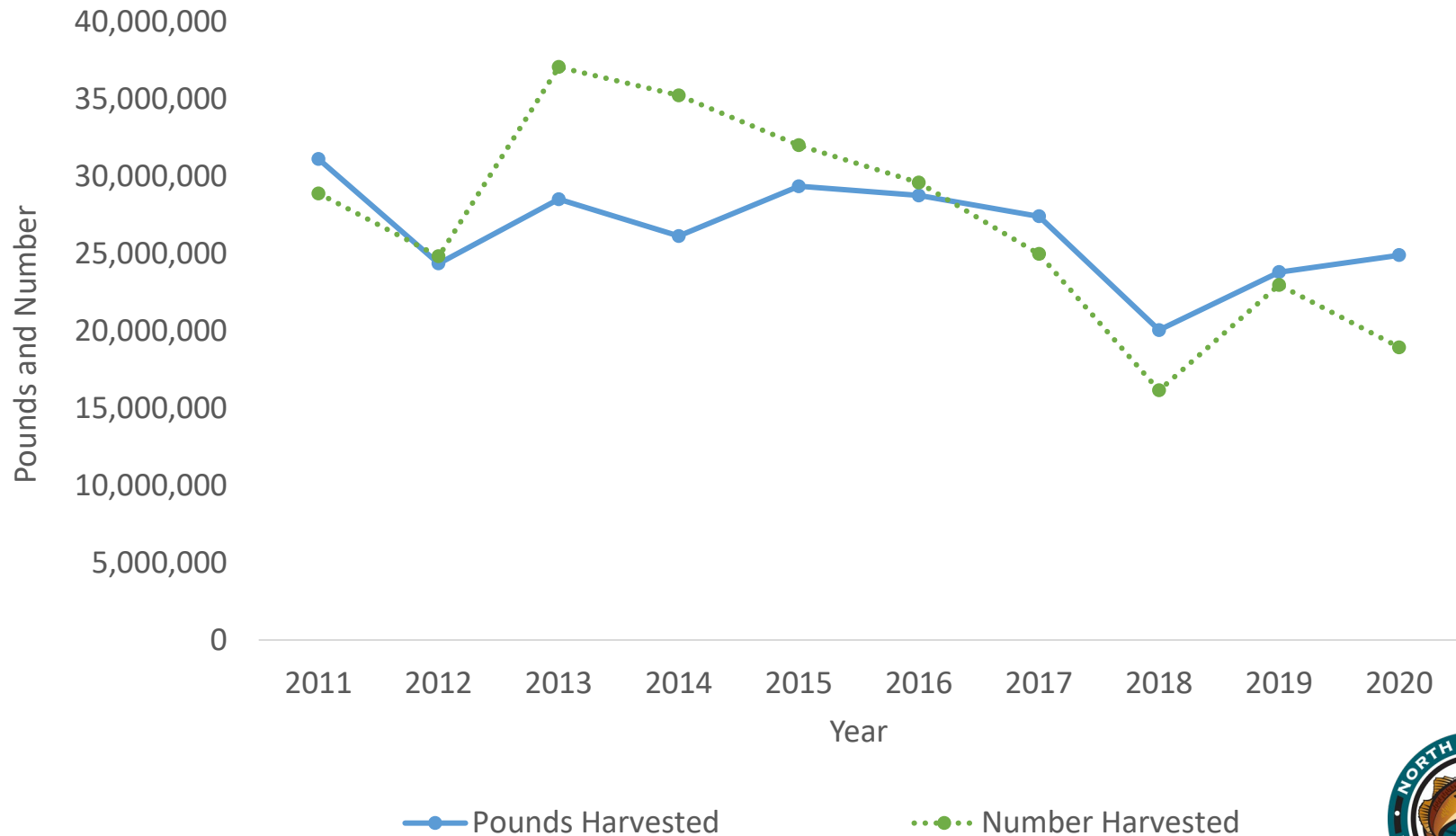




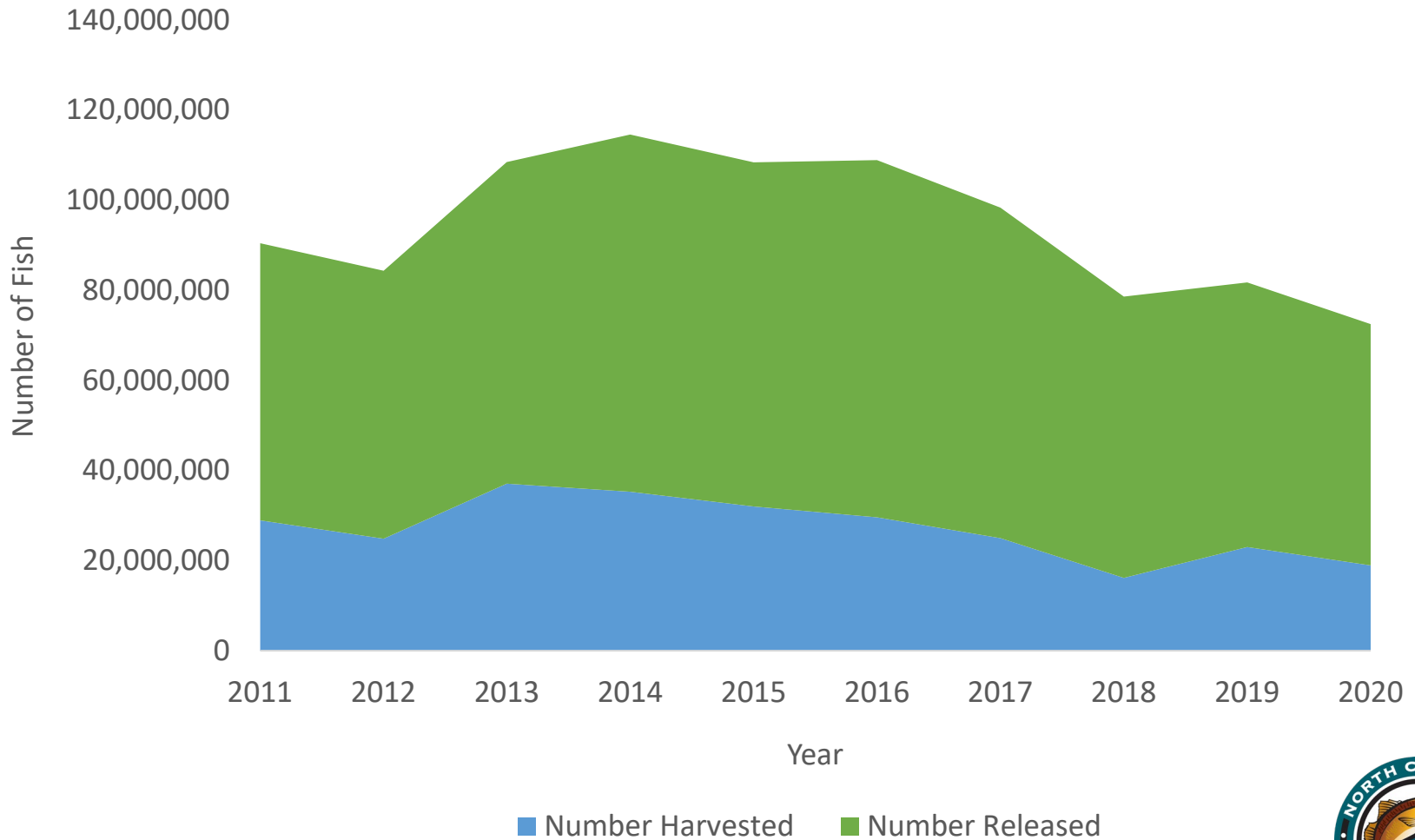
# Recreational



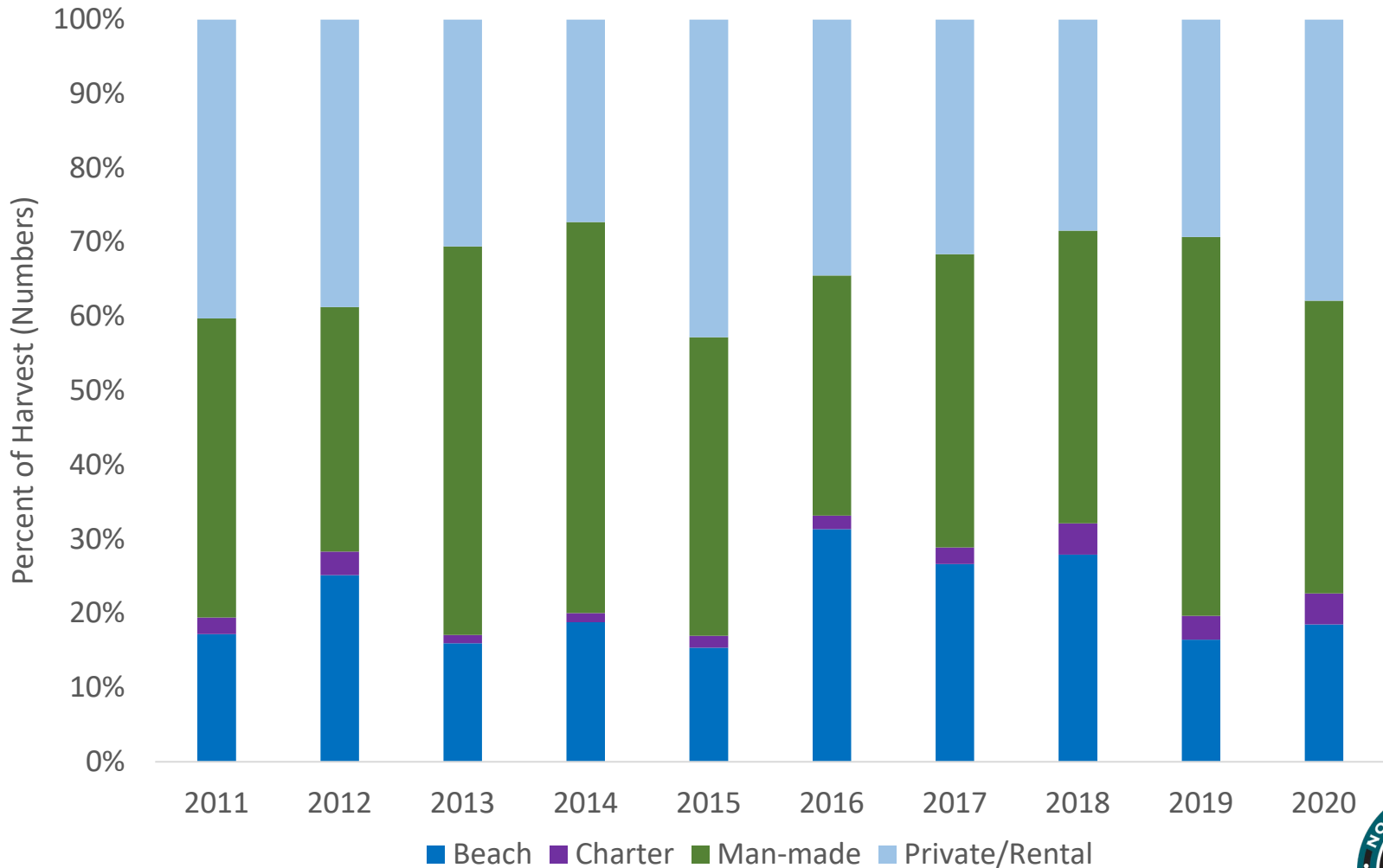
# North Carolina Recreational Harvest (pounds and numbers)



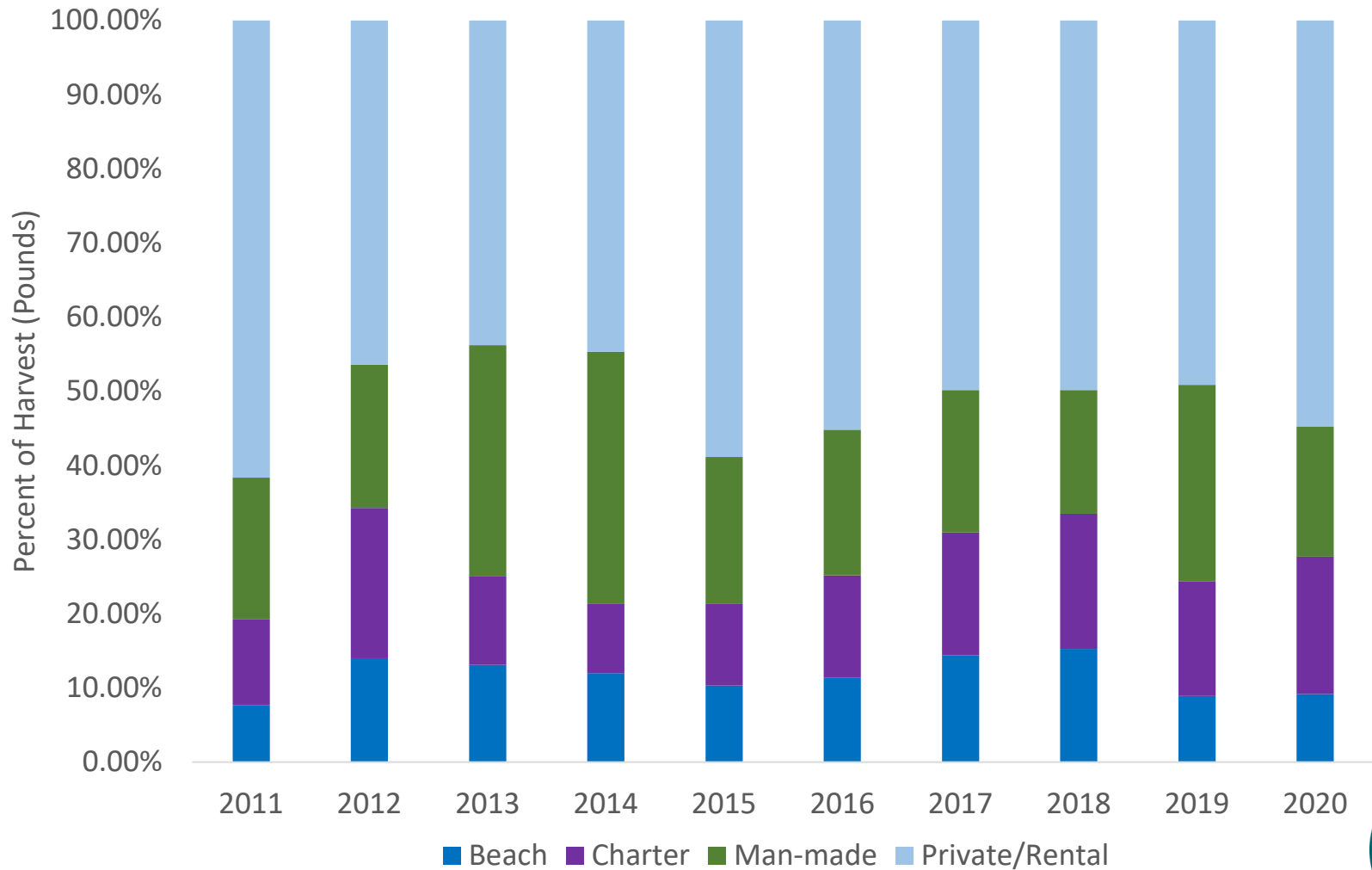
# North Carolina Recreational Catch (harvest & releases)



# North Carolina Recreational Harvest (by mode; numbers)



# North Carolina Recreational Harvest (by mode; pounds)

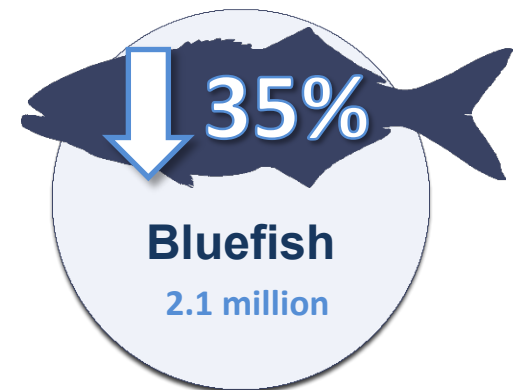
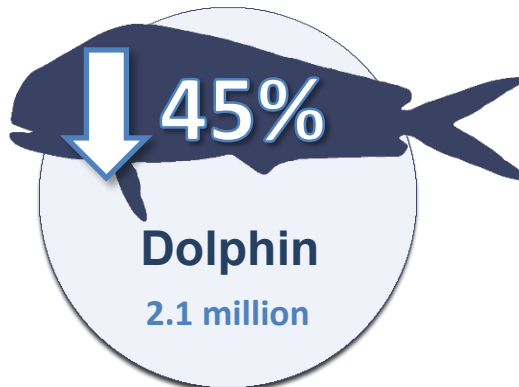
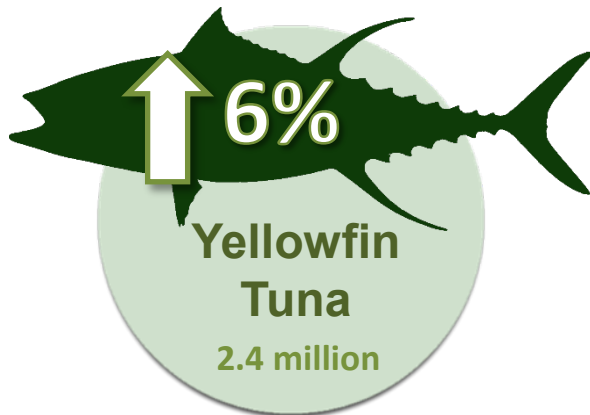
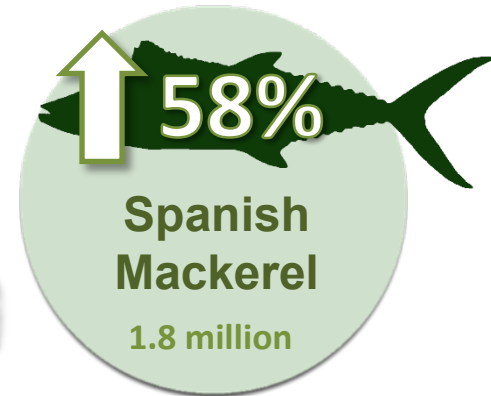
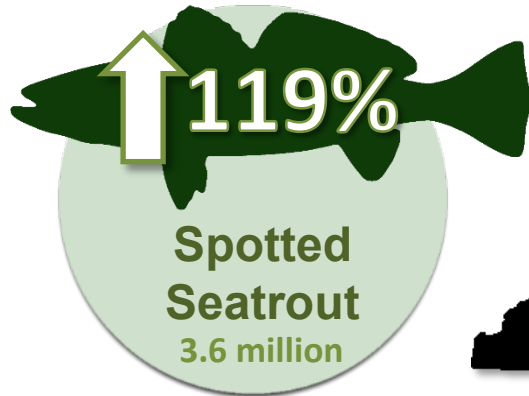




**2020 Total Marine  
Recreational  
Fisheries Harvest**

**HARVEST**  
**24.9**  
million pounds

**# of FISH**  
**19.0**  
million



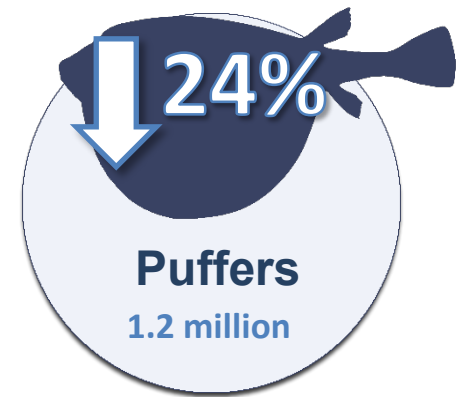
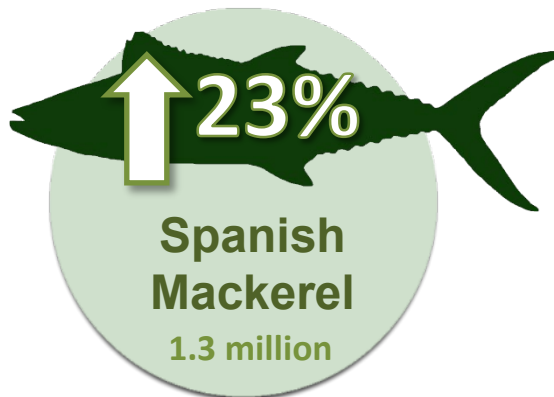
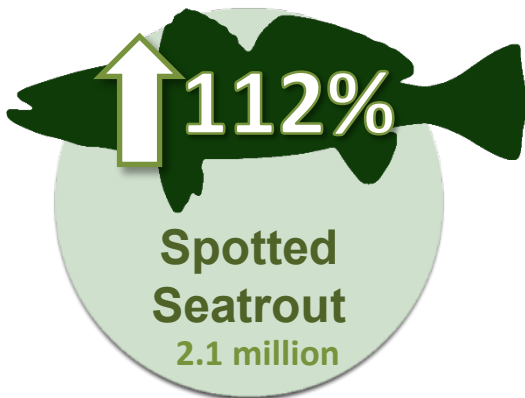
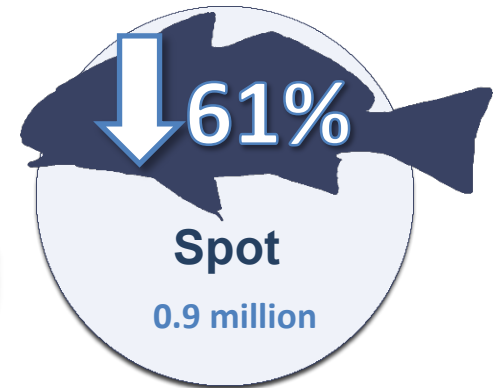
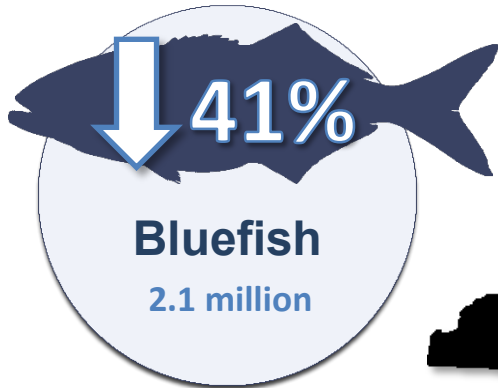
*\*Based on FES; All percentage changes shown for 2020 from 5-year average (2015 to 2019)*



**2020 Total Marine  
Recreational  
Fisheries Harvest**

**HARVEST**  
**24.9**  
million pounds

**# of FISH**  
**19.0**  
million



*\*Based on FES; All percentage changes shown for 2020 from 5-year average (2015 to 2019)*



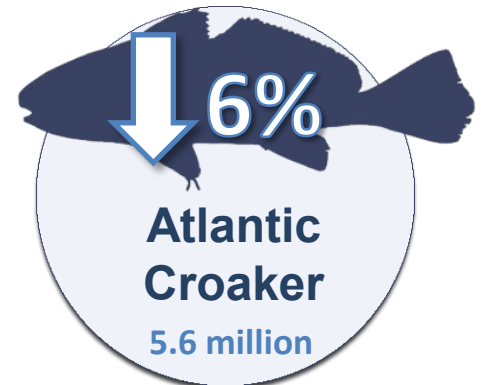
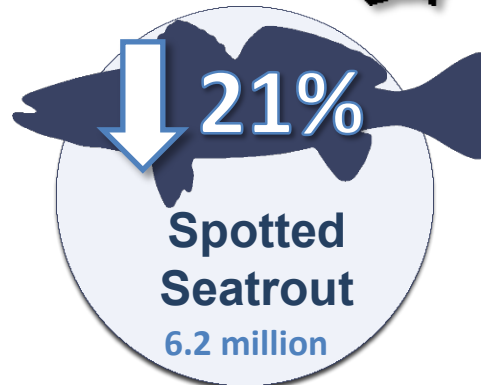
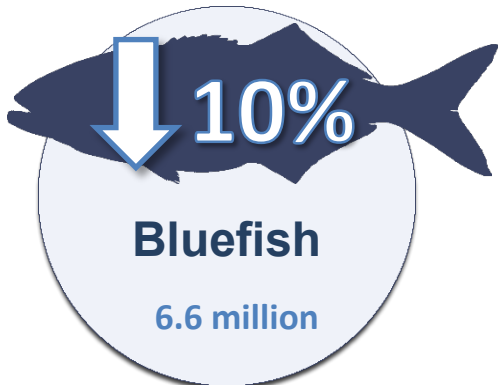
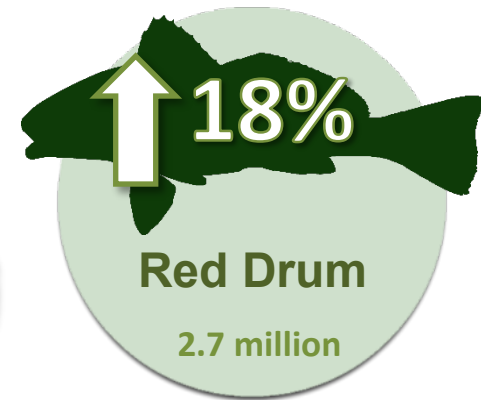
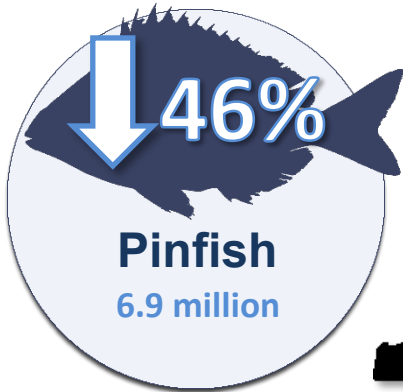
**2020 Total Marine  
Recreational  
Fisheries Harvest**

**# RELEASED**

**53.5**  
million

**# HARVESTED**

**19.0**  
million



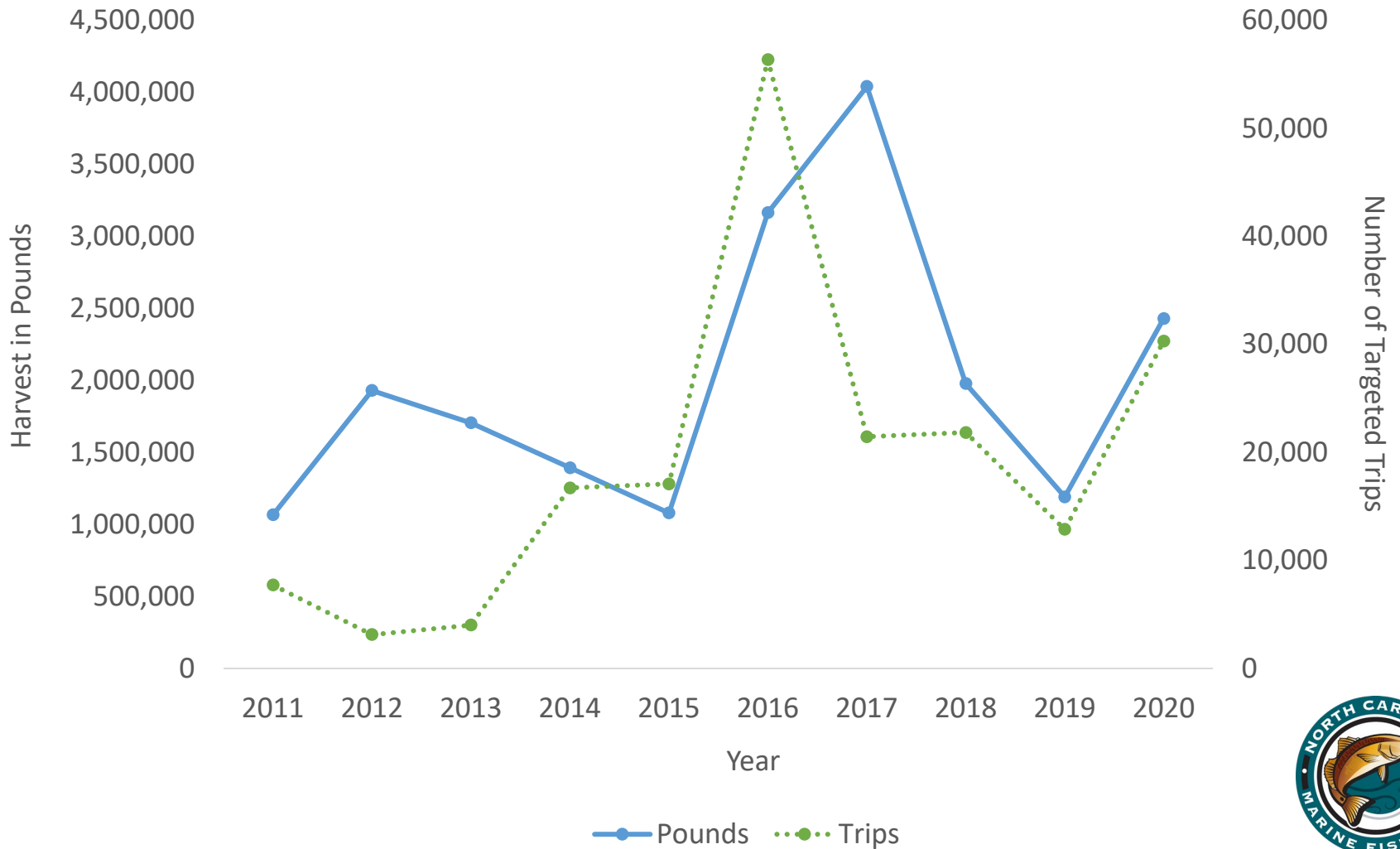
*\*Based on FES; All percentage changes shown for 2020 from 5-year average (2015 to 2019)*



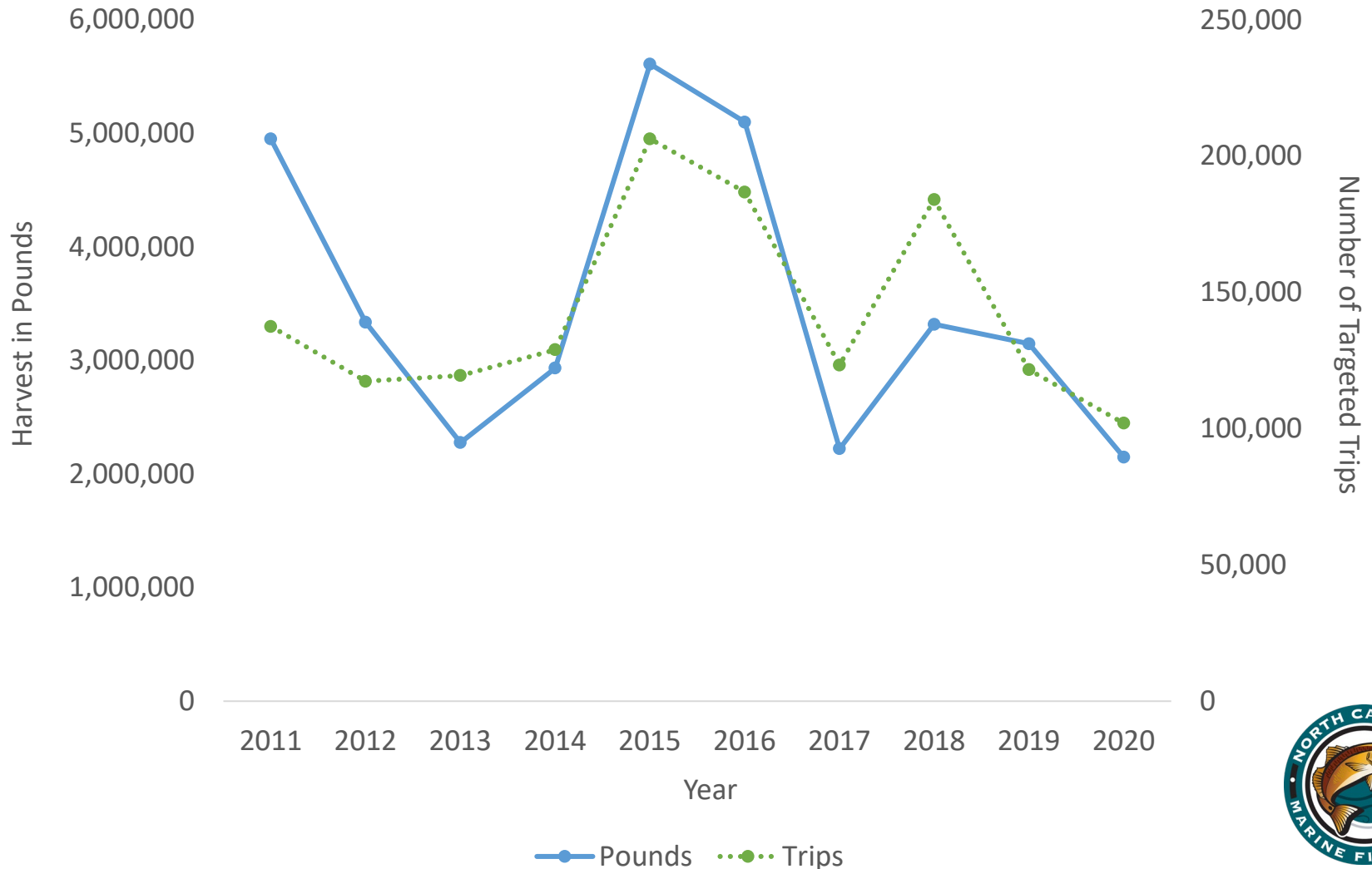
# Top Five Species – Recreational Spotted Seatrout



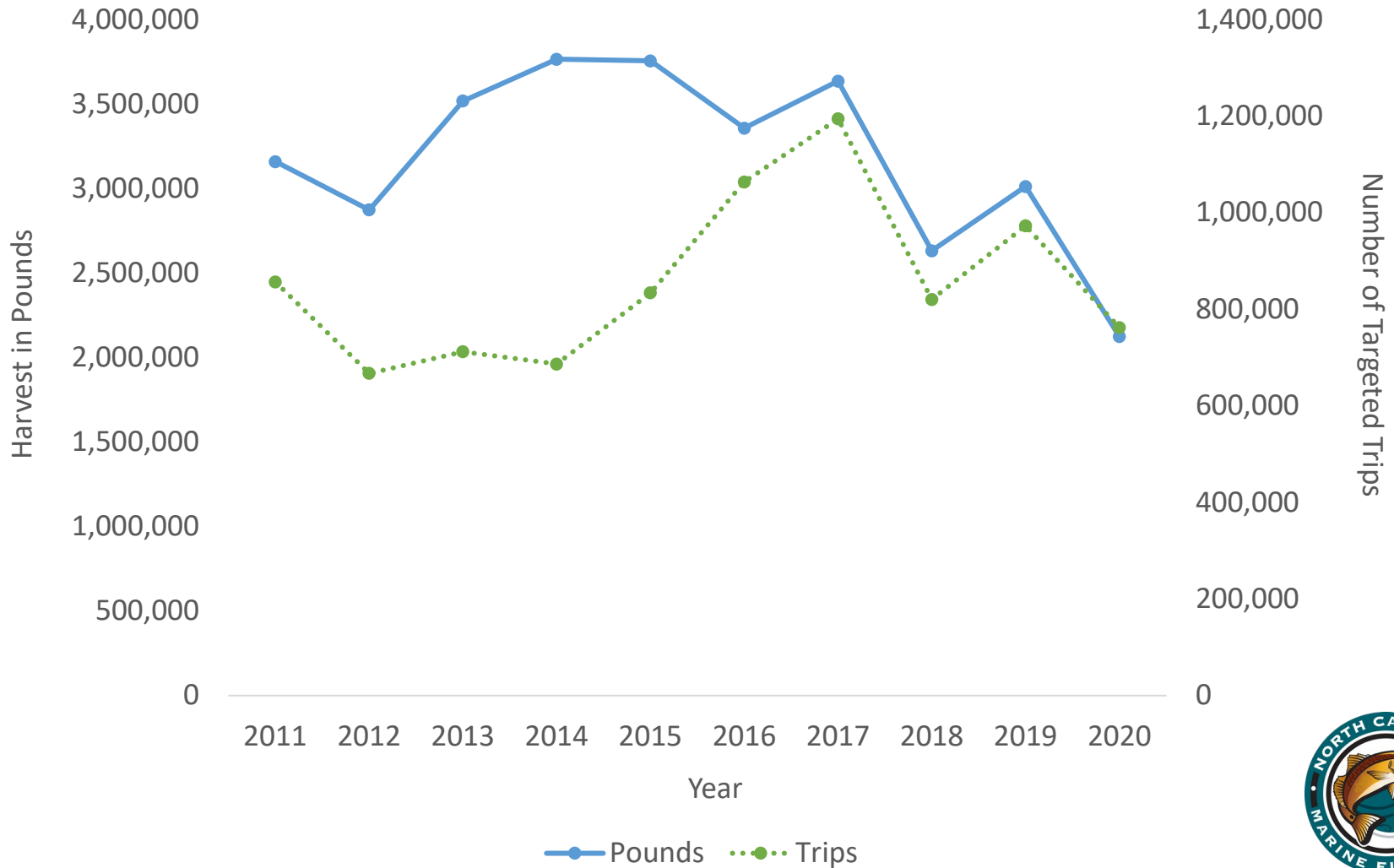
# Top Five Species – Recreational Yellowfin Tuna



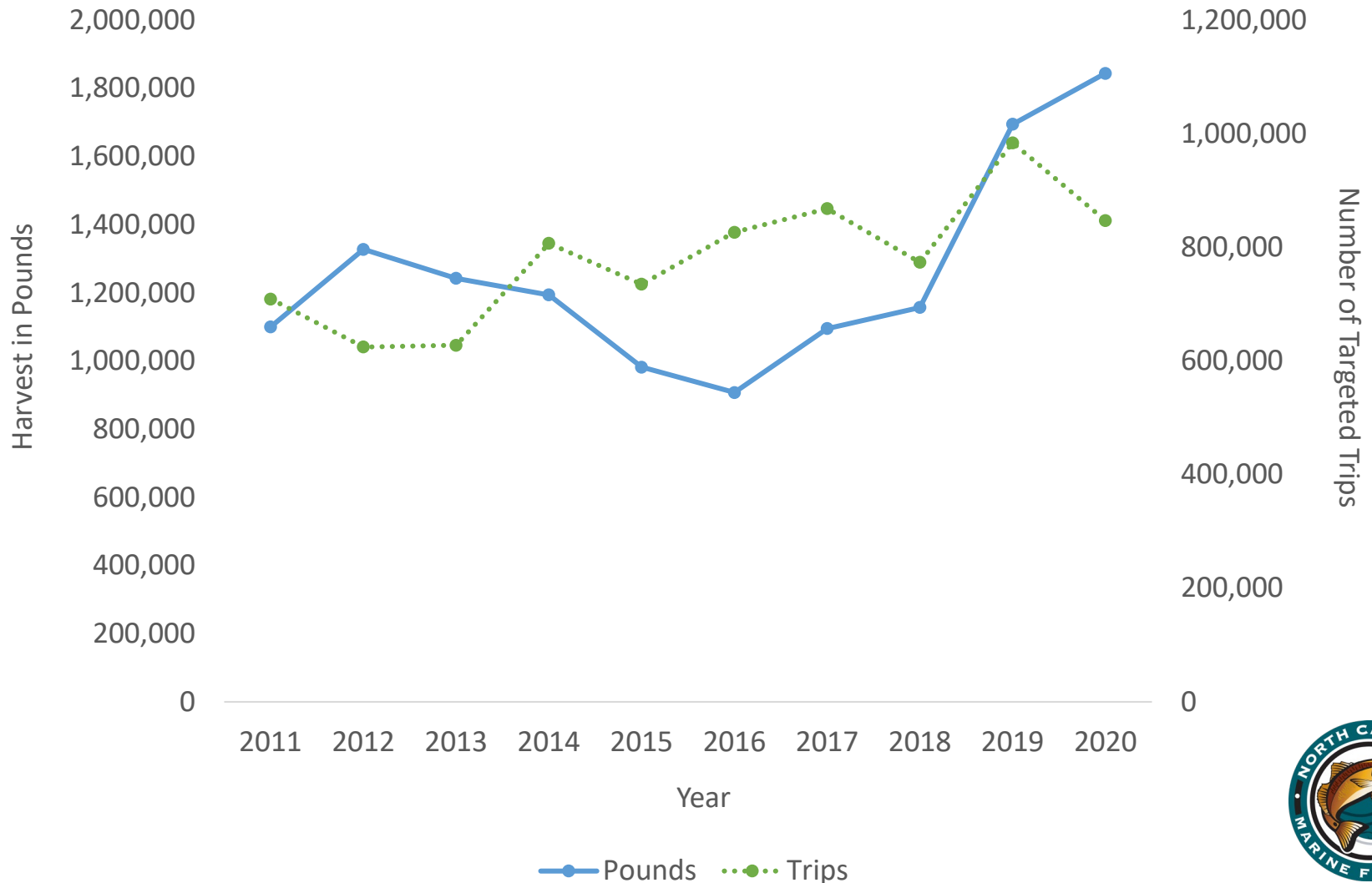
# Top Five Species – Recreational Dolphin



# Top Five Species – Recreational Bluefish



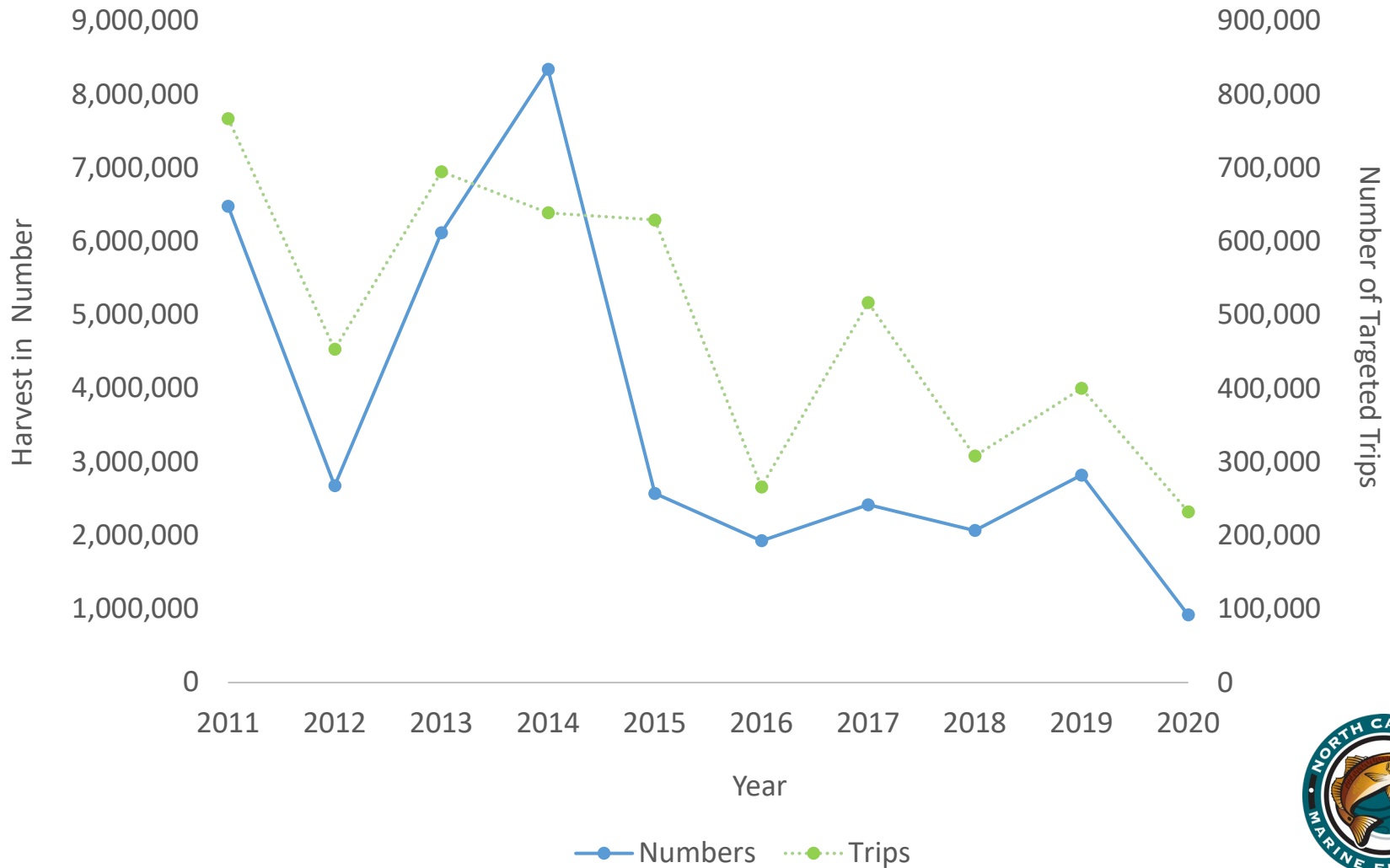
# Top Five Species – Recreational Spanish Mackerel



# Top Five Species – Recreational Puffers



# Top Five Species – Recreational Spot



# Species Leads

SPECIES	LEAD BIOLOGIST	SPECIES	LEAD BIOLOGIST
Shrimp	<a href="mailto:Chris.Stewart@ncdenr.gov">Chris.Stewart@ncdenr.gov</a>	Tunas	<a href="mailto:Trish.Murphey@ncdenr.gov">Trish.Murphey@ncdenr.gov</a>
Blue Crab	<a href="mailto:Janelle.Johnson@ncdenr.gov">Janelle.Johnson@ncdenr.gov</a>	Dolphin	<a href="mailto:Tracey.Bauer@ncdenr.gov">Tracey.Bauer@ncdenr.gov</a>
Summer Flounder	<a href="mailto:Lorena.delaGarza@ncdenr.gov">Lorena.delaGarza@ncdenr.gov</a>	Red Drum	<a href="mailto:Lee.Paramore@ncdenr.gov">Lee.Paramore@ncdenr.gov</a>
Bluefish	<a href="mailto:David.Behringer@ncdenr.gov">David.Behringer@ncdenr.gov</a>	Kingfishes	<a href="mailto:Kevin.H.Brown@ncdenr.gov">Kevin.H.Brown@ncdenr.gov</a>
Spotted Seatrout	<a href="mailto:Tracey.Bauer@ncdenr.gov">Tracey.Bauer@ncdenr.gov</a>	Spot	<a href="mailto:Morgan.Paris@ncdenr.gov">Morgan.Paris@ncdenr.gov</a>
Eastern Oyster	<a href="mailto:Joe.Facendola@ncdenr.gov">Joe.Facendola@ncdenr.gov</a>	Spanish Mackerel	<a href="mailto:McClean.Seward@ncdenr.gov">McClean.Seward@ncdenr.gov</a>
Atlantic Croaker	<a href="mailto:Morgan.Paris@ncdenr.gov">Morgan.Paris@ncdenr.gov</a>	Spiny Dogfish	<a href="mailto:David.Behringer@ncdenr.gov">David.Behringer@ncdenr.gov</a>





# Data Needs?

Commercial data:

[Meredith.Whitten@ncdenr.gov](mailto:Meredith.Whitten@ncdenr.gov)

[Alan.Bianchi@ncdenr.gov](mailto:Alan.Bianchi@ncdenr.gov)

Recreational data:

[Andrew.Cathey@ncdenr.gov](mailto:Andrew.Cathey@ncdenr.gov)

License data:

[Brandi.Salmon@ncdenr.gov](mailto:Brandi.Salmon@ncdenr.gov)

# LICENSE

# &

# STATISTICS



A fisherman in a blue shirt and sunglasses is working on a boat deck. In the foreground, several fish are laid out on a wooden surface. The word "Questions?" is overlaid in a large, blue, bold font on the right side of the image.

**Questions?**