



2019 North Carolina Landings and Harvest Trends

DEPARTMENT OF ENVIRONMENTAL QUALITY



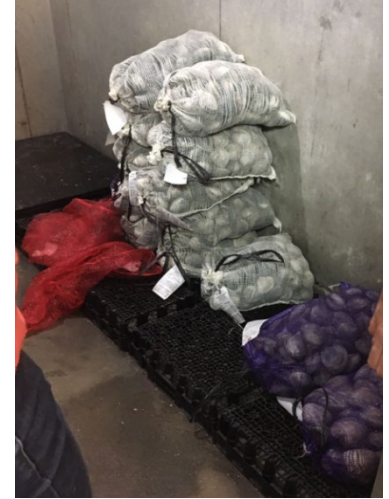
Marine Fisheries

Marine Fisheries Commission | Brandi Salmon | November 2020



Commercial Landings

TTRIP **T**TICKET **P**PROGRAM



Department of Environmental Quality



Commercial Landings

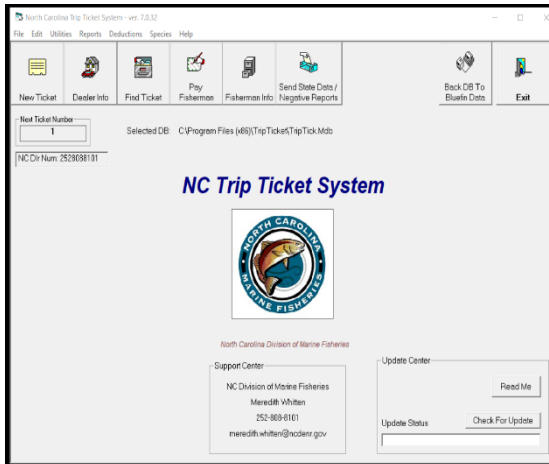
Paper Tickets

42,048

+

Electronic Tickets

58,559



=

100,607

Total Trip Tickets Processed in 2019



Recreational Harvest

COASTAL ANGLING PROGRAM



23,000
interviews/year

24,000 mail
surveys/year

Department of Environmental Quality



Recreational Harvest

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



Recreational Harvest

Specialty Surveys (e.g., socioeconomic, Catch-U-Later App)



Central Southern
Management Area
Creel Survey



Mail Surveys (i.e.,
gigging, castnet/seine,
crab/shellfish)



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



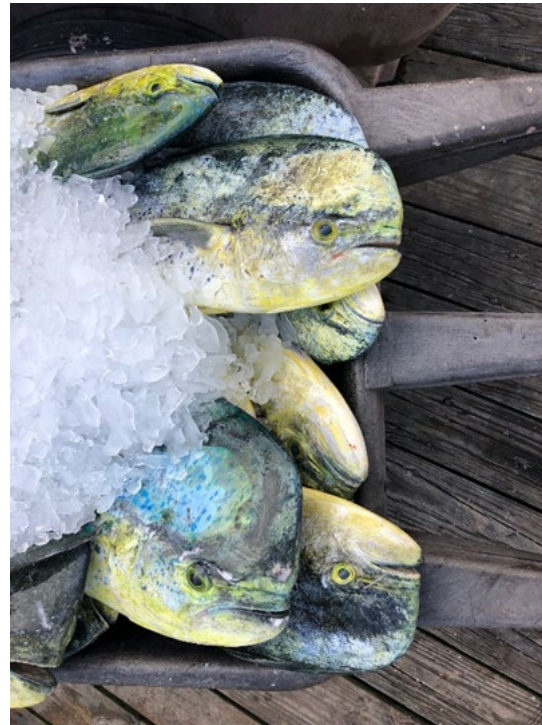
Effort Drives Landings and Harvest

Several factors impact effort including:

Weather



Price



Market Demand



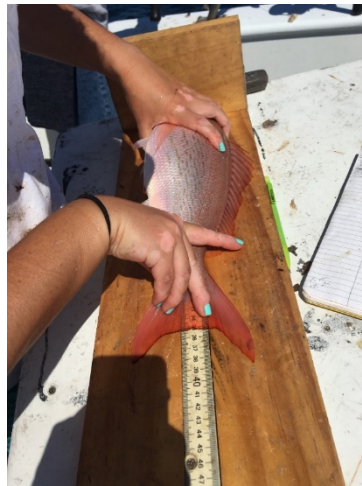
Effort Drives Landings and Harvest

Several factors impact effort including:

**Stock
Abundance**



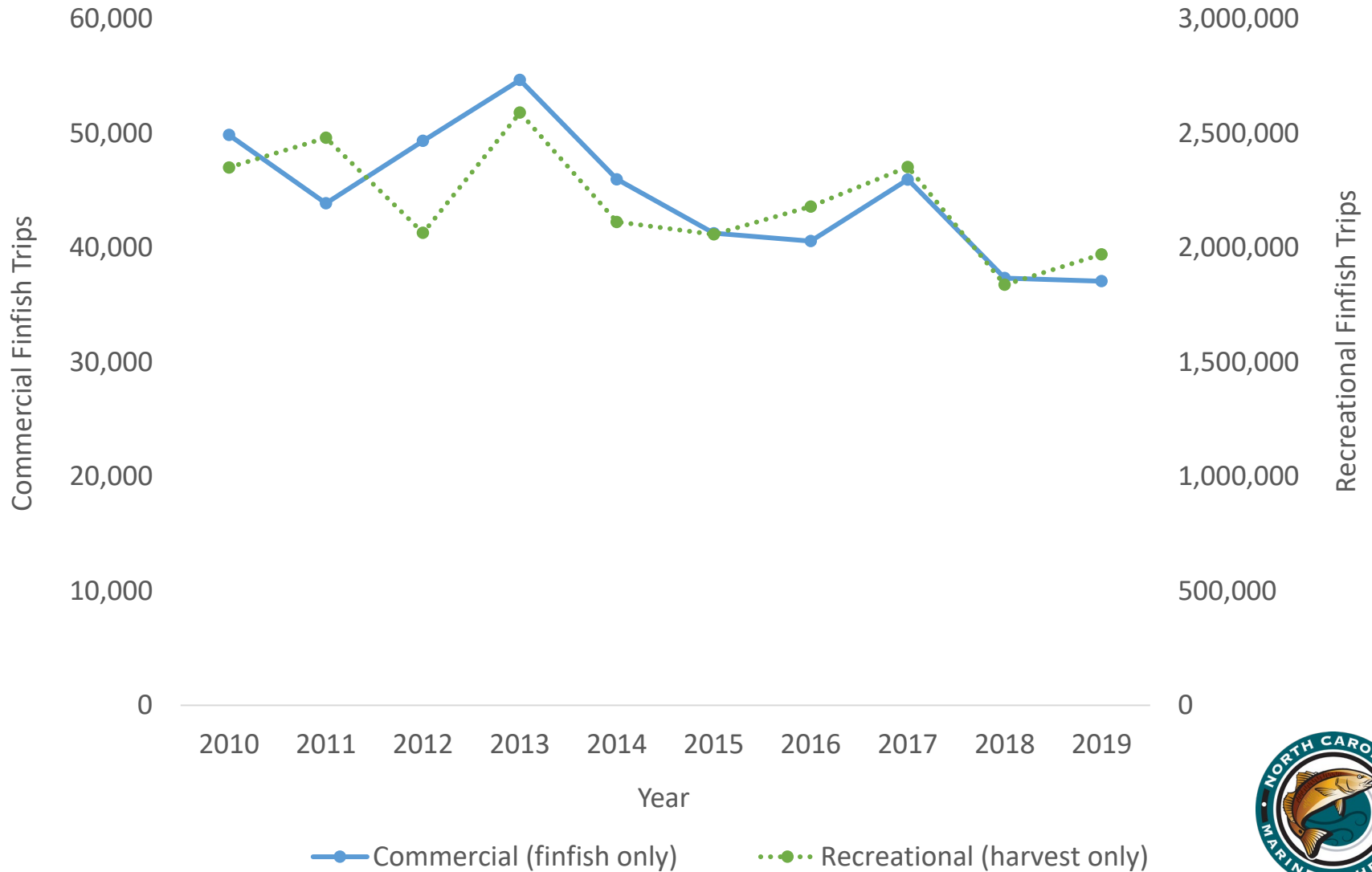
Regulations



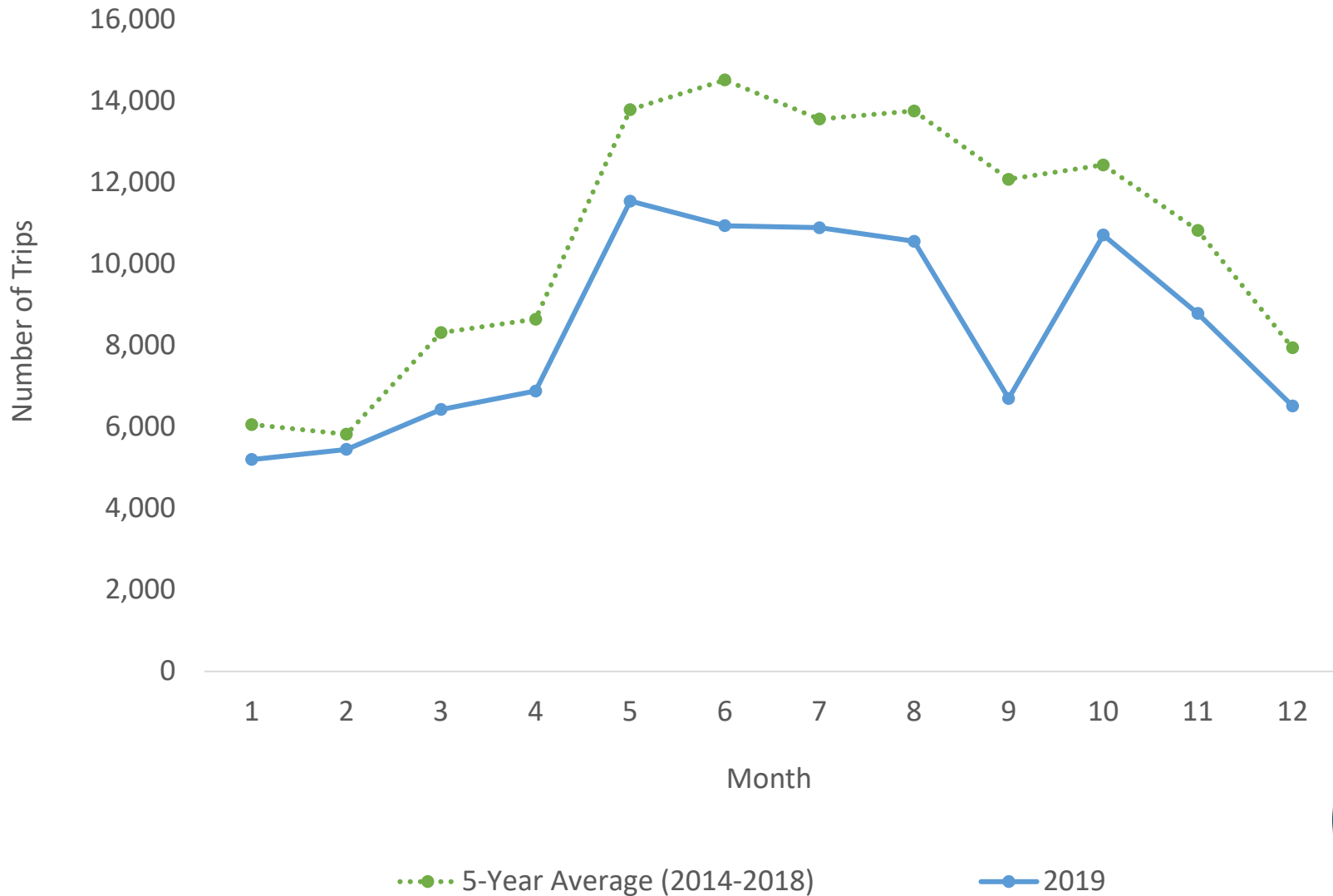
**Number of
Fishermen**



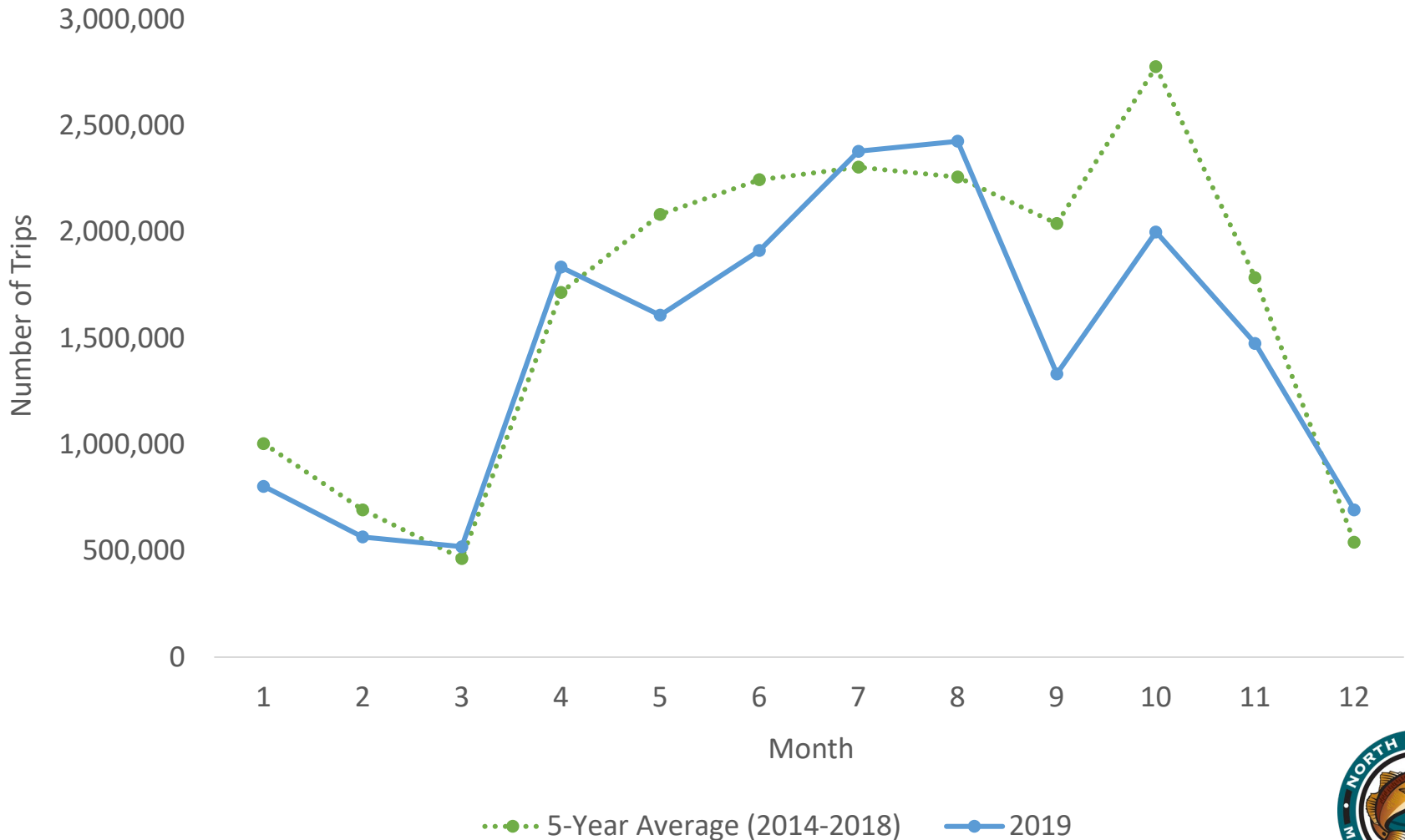
Fishing Trips



Fishing Trips by Month - Commercial



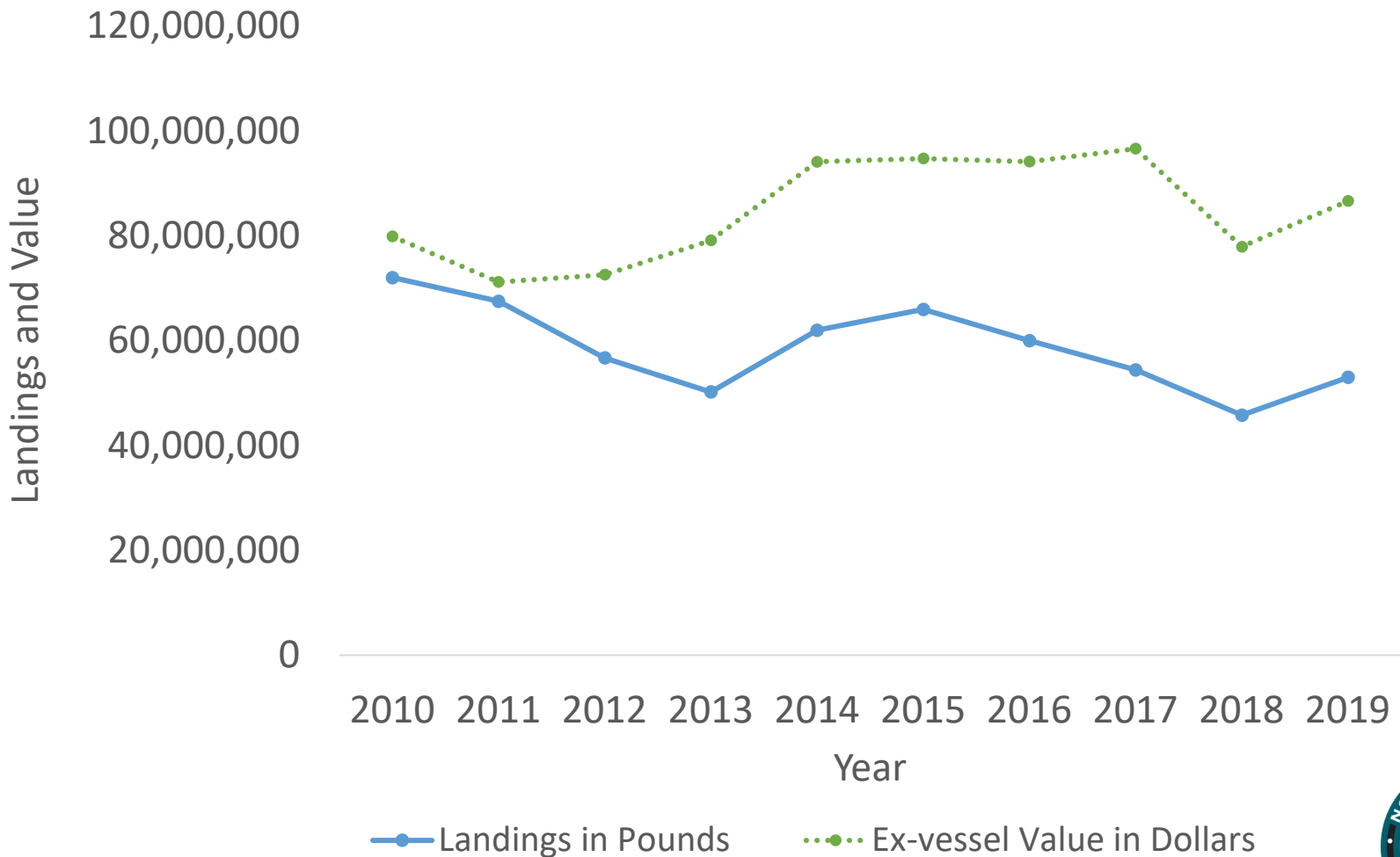
Fishing Trips by Month - Recreational



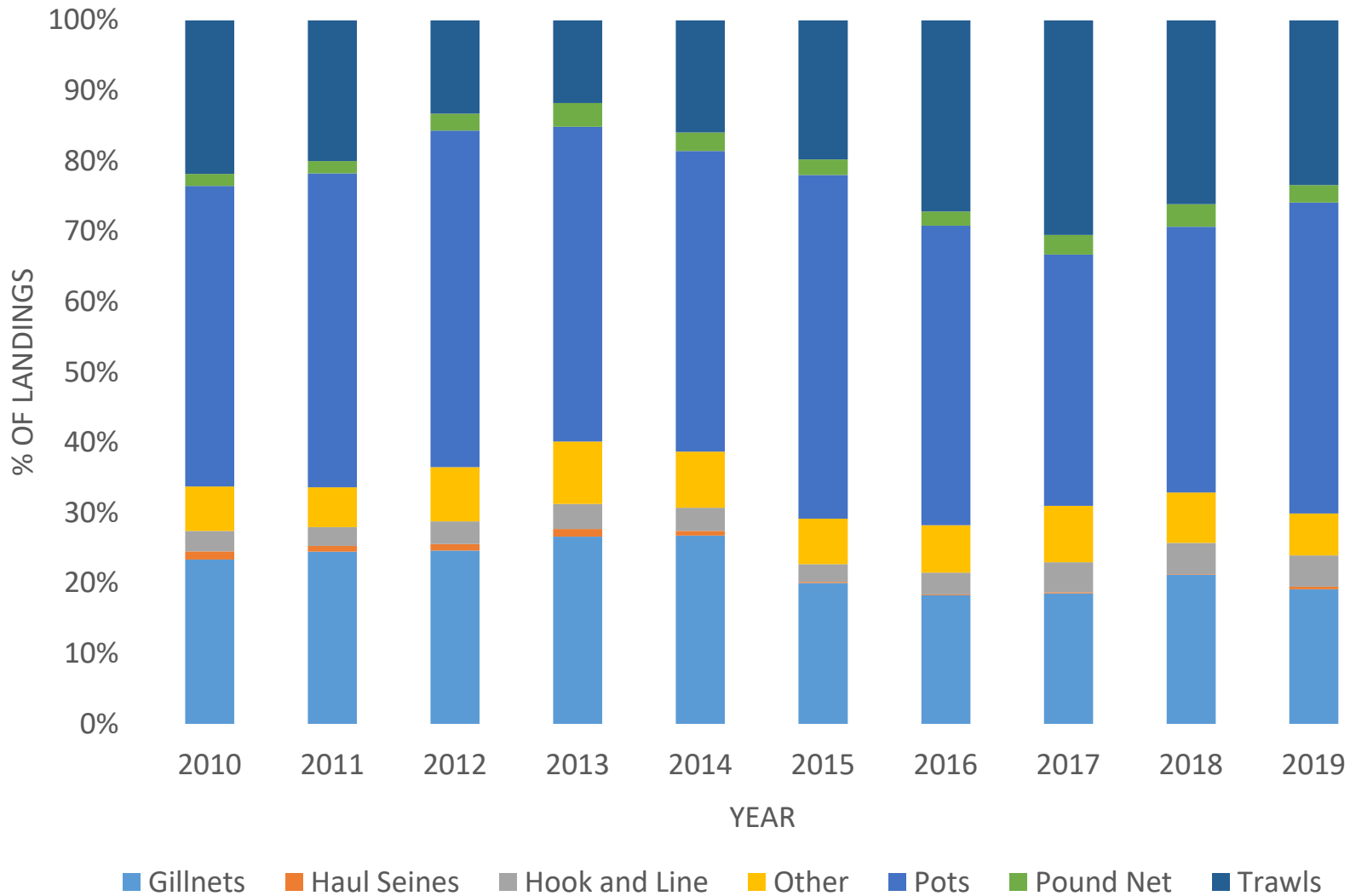
Commercial

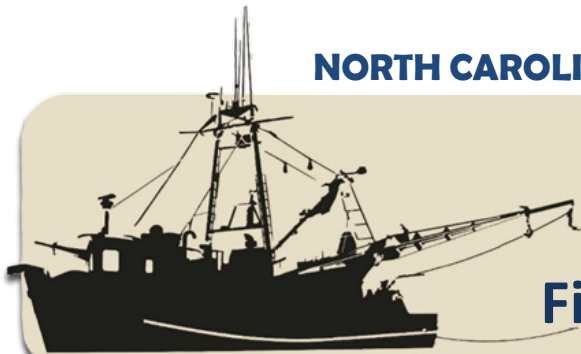


North Carolina Commercial Landings (pounds and value)



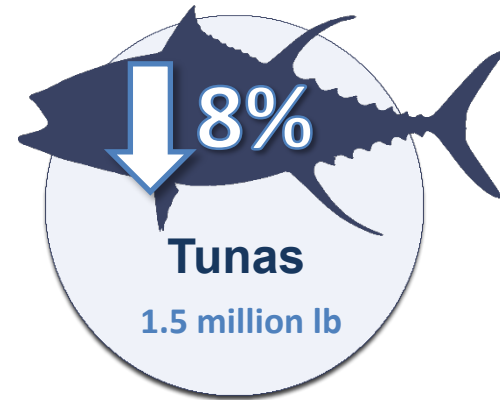
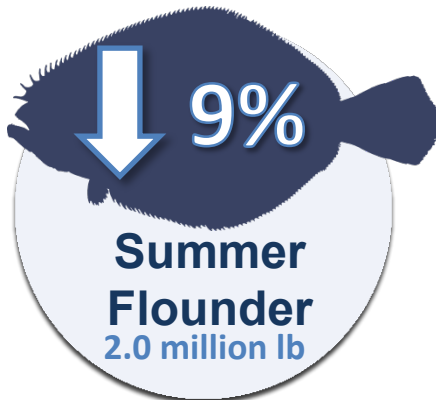
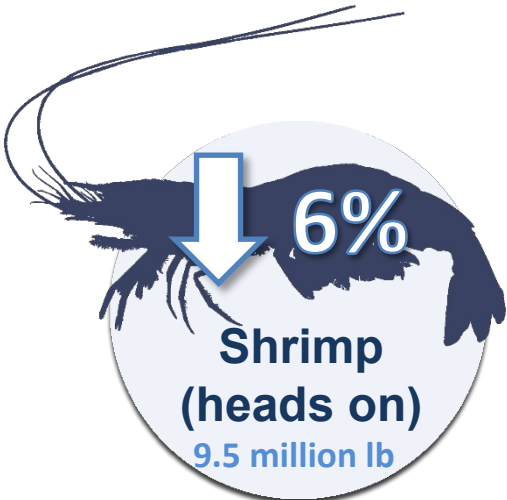
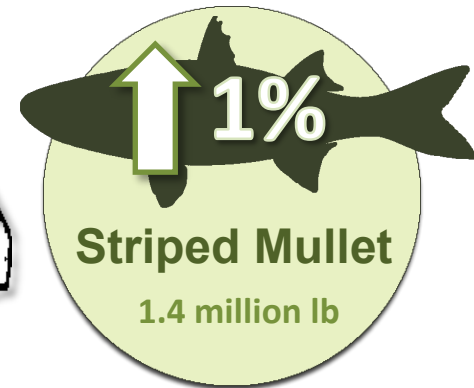
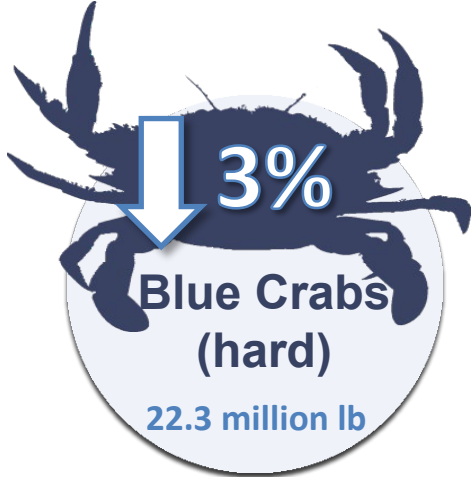
North Carolina Commercial Landings by Gear





**2019 Total
Commercial
Fisheries Landings**

53.0 million lb

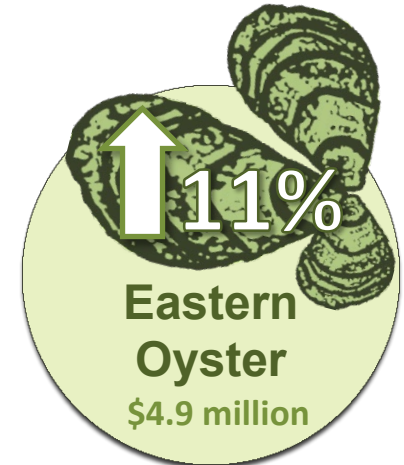
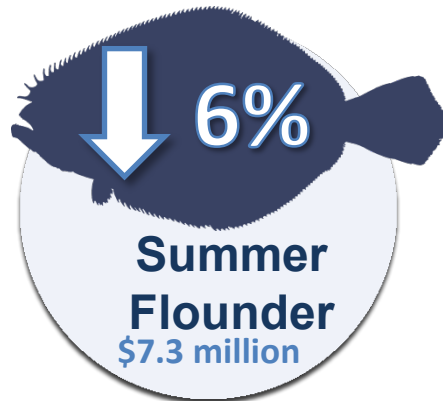
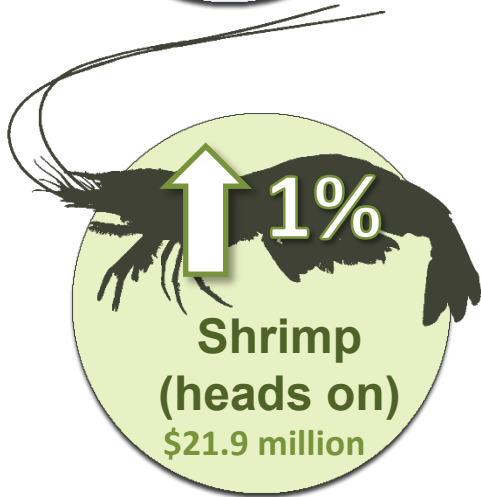
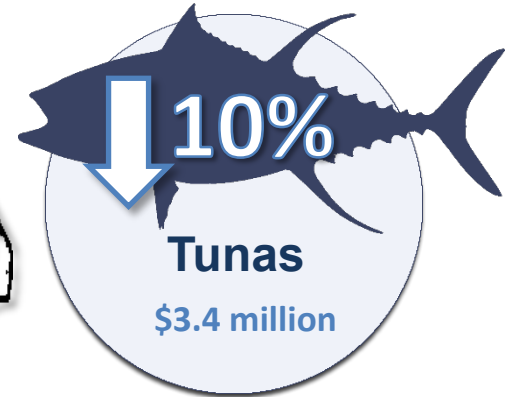
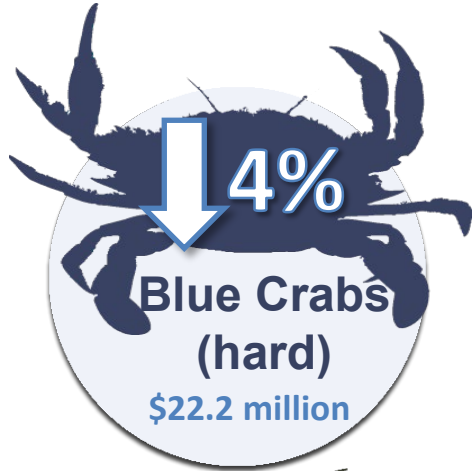


**All percentage changes shown for 2019 from 5-year average (2014 to 2018)*



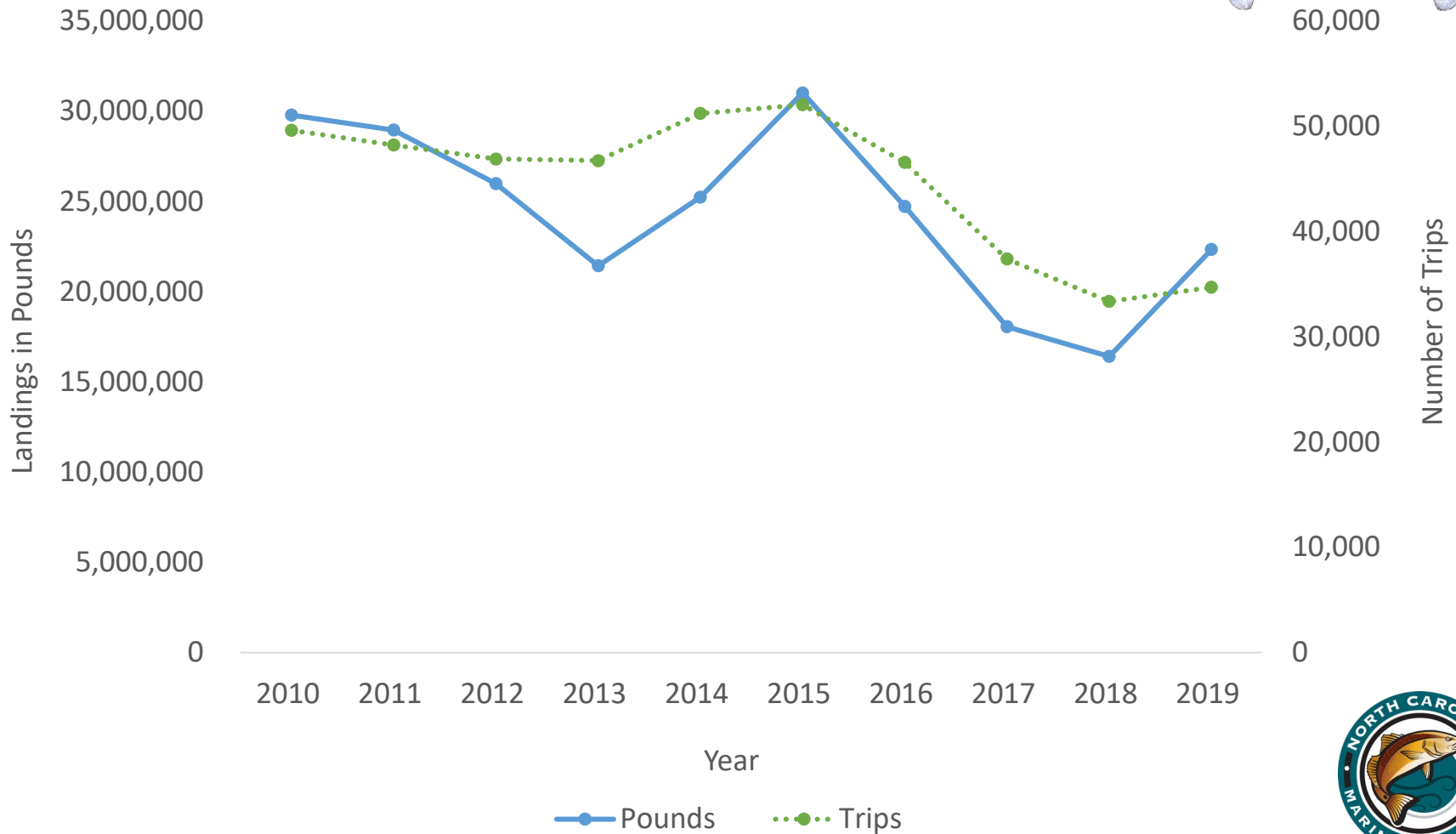
**2019 Total
Commercial
Fisheries Landings**

\$86.6 million

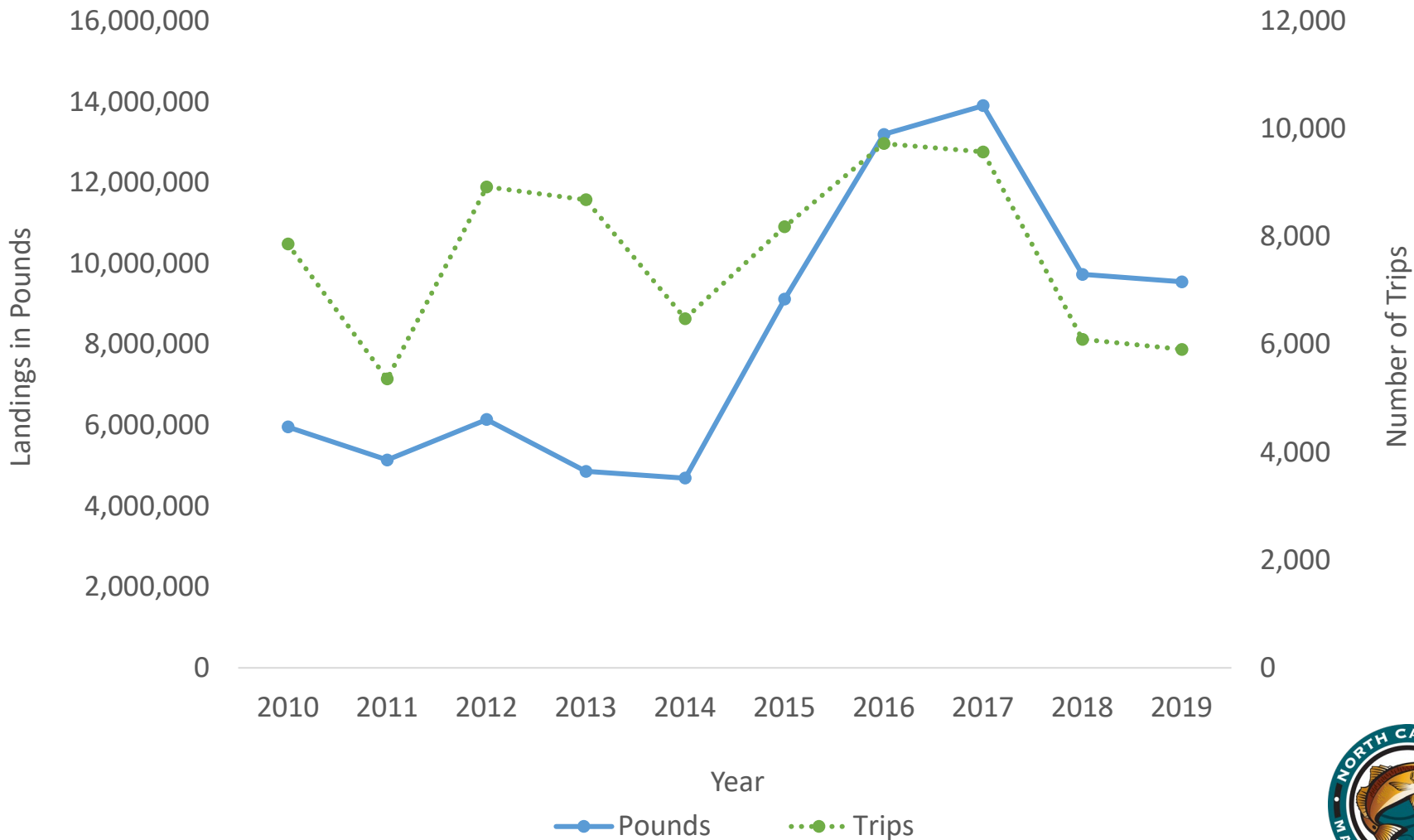


**All percentage changes shown for 2019 from 5-year average (2014 to 2018)*

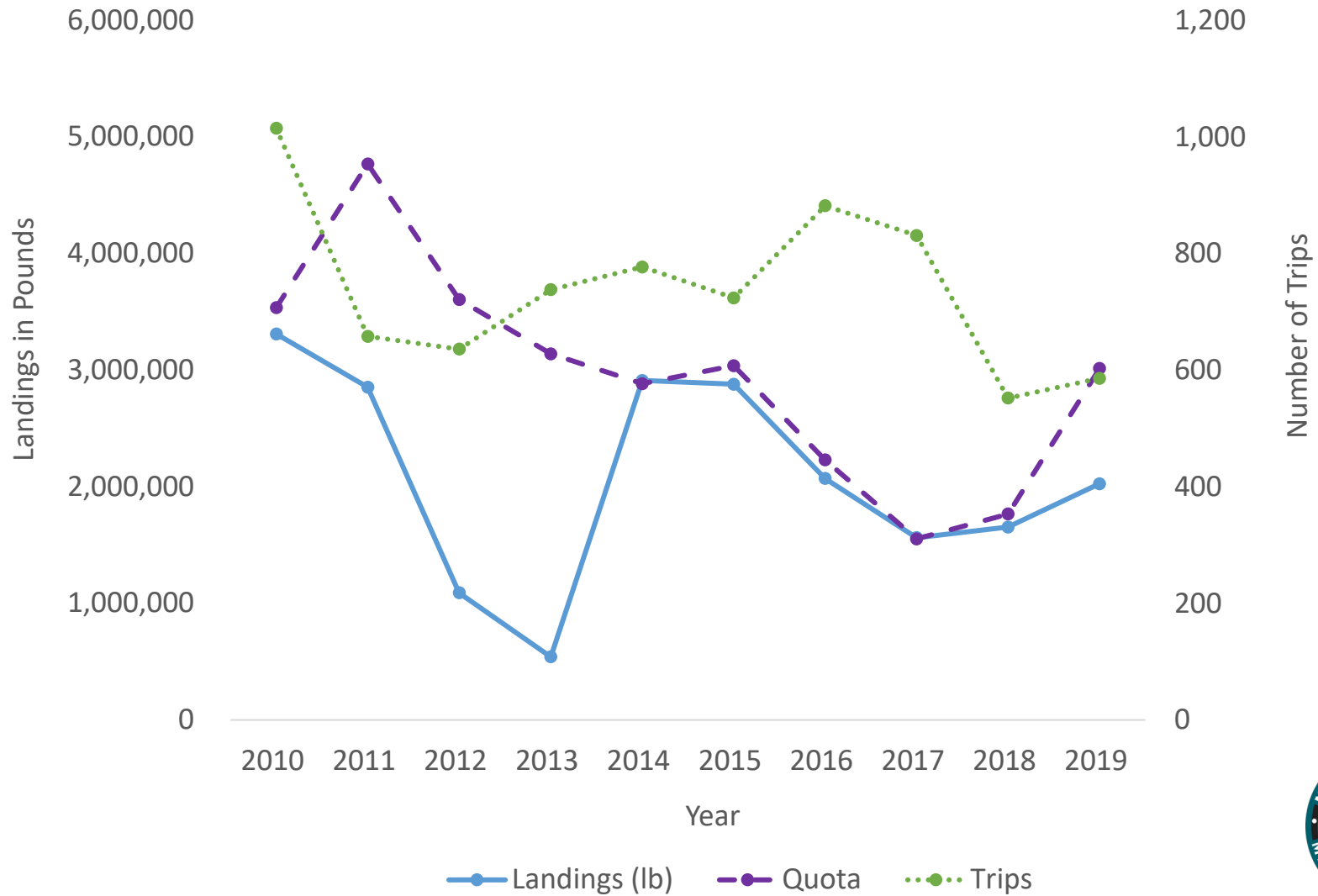
Top Five Species – Commercial Hard Blue Crab



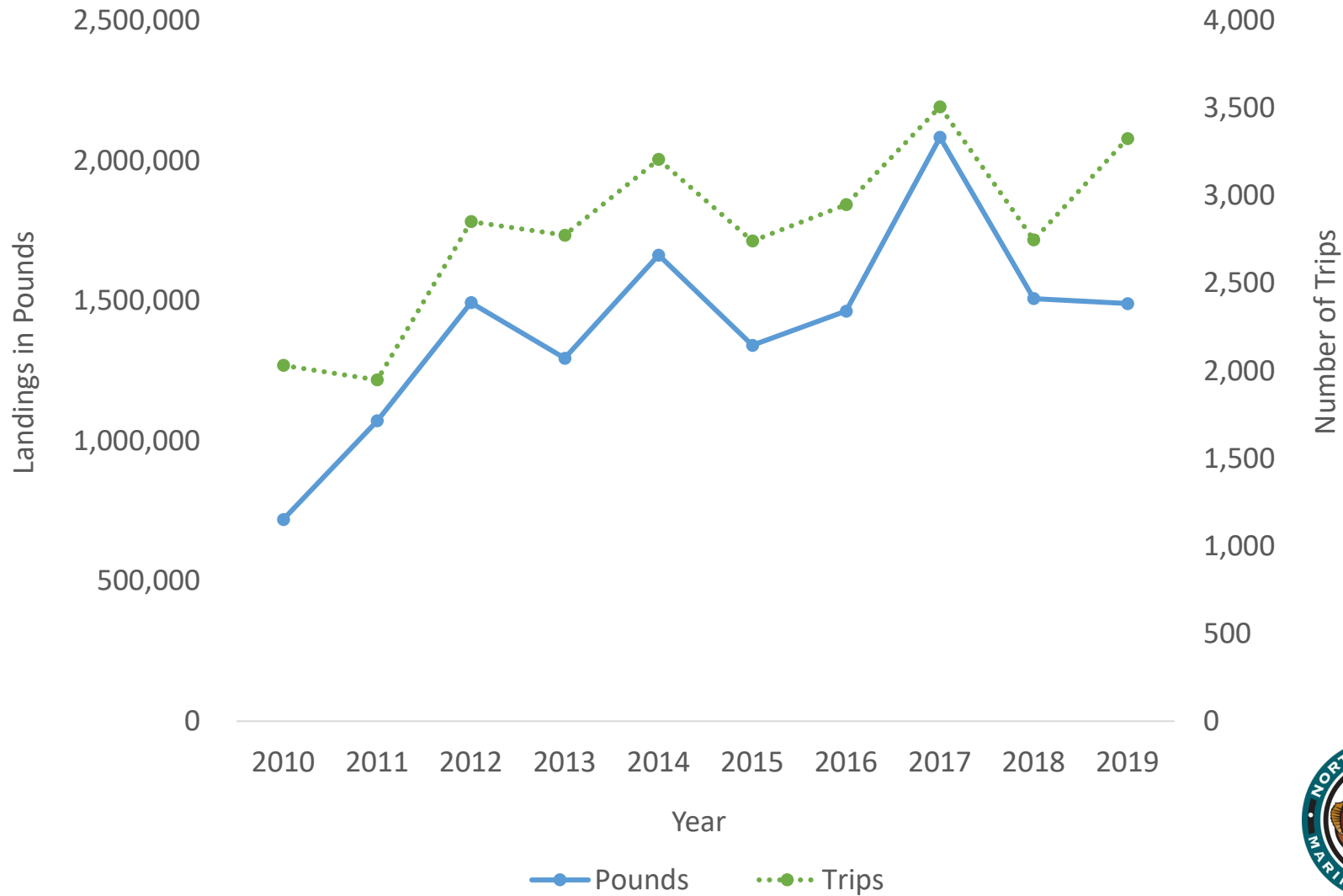
Top Five Species – Commercial Penaeid Shrimp



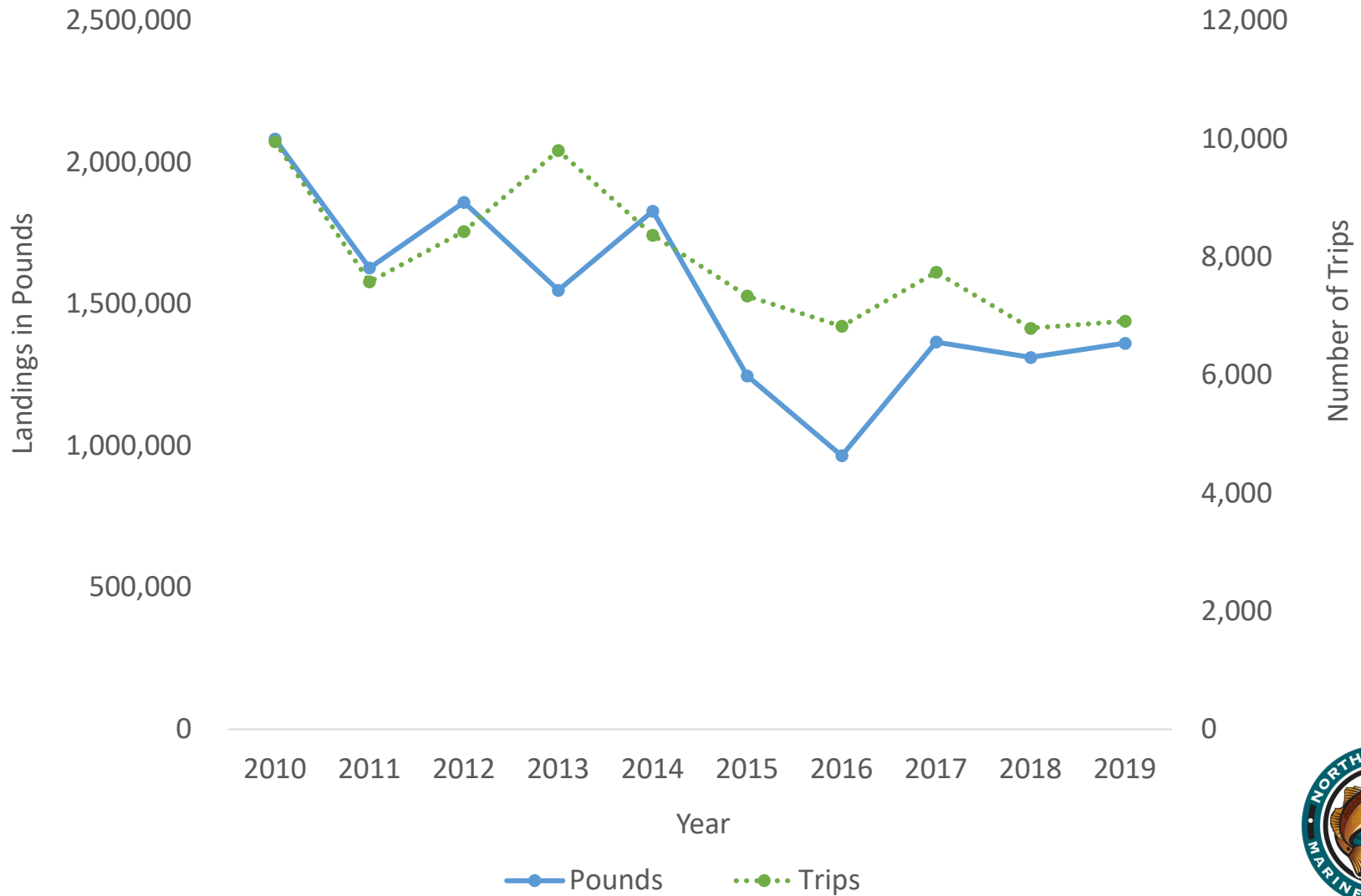
Top Five Species – Commercial Summer Flounder



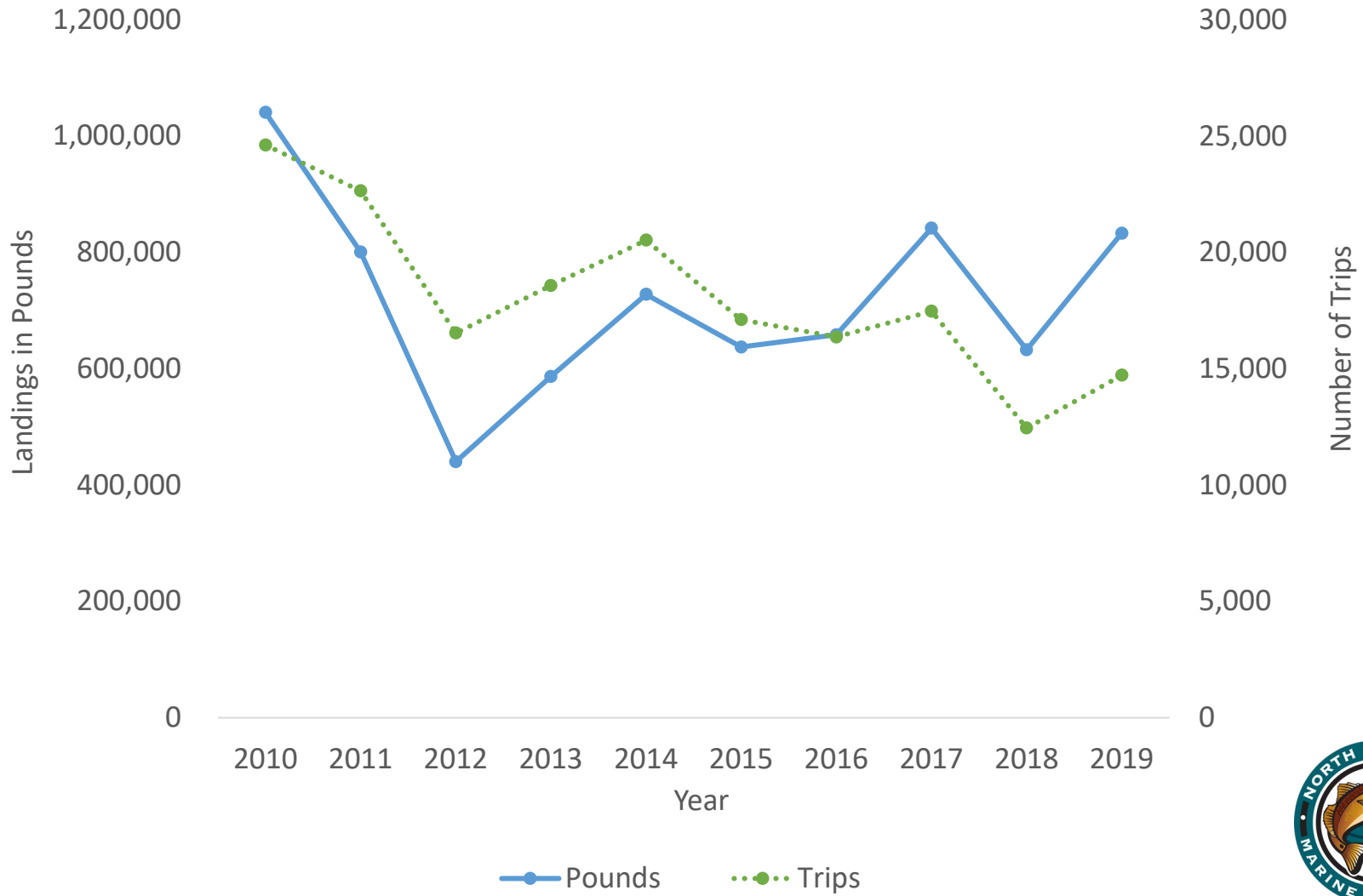
Top Five Species – Commercial Tunas



Top Five Species – Commercial Striped Mullet



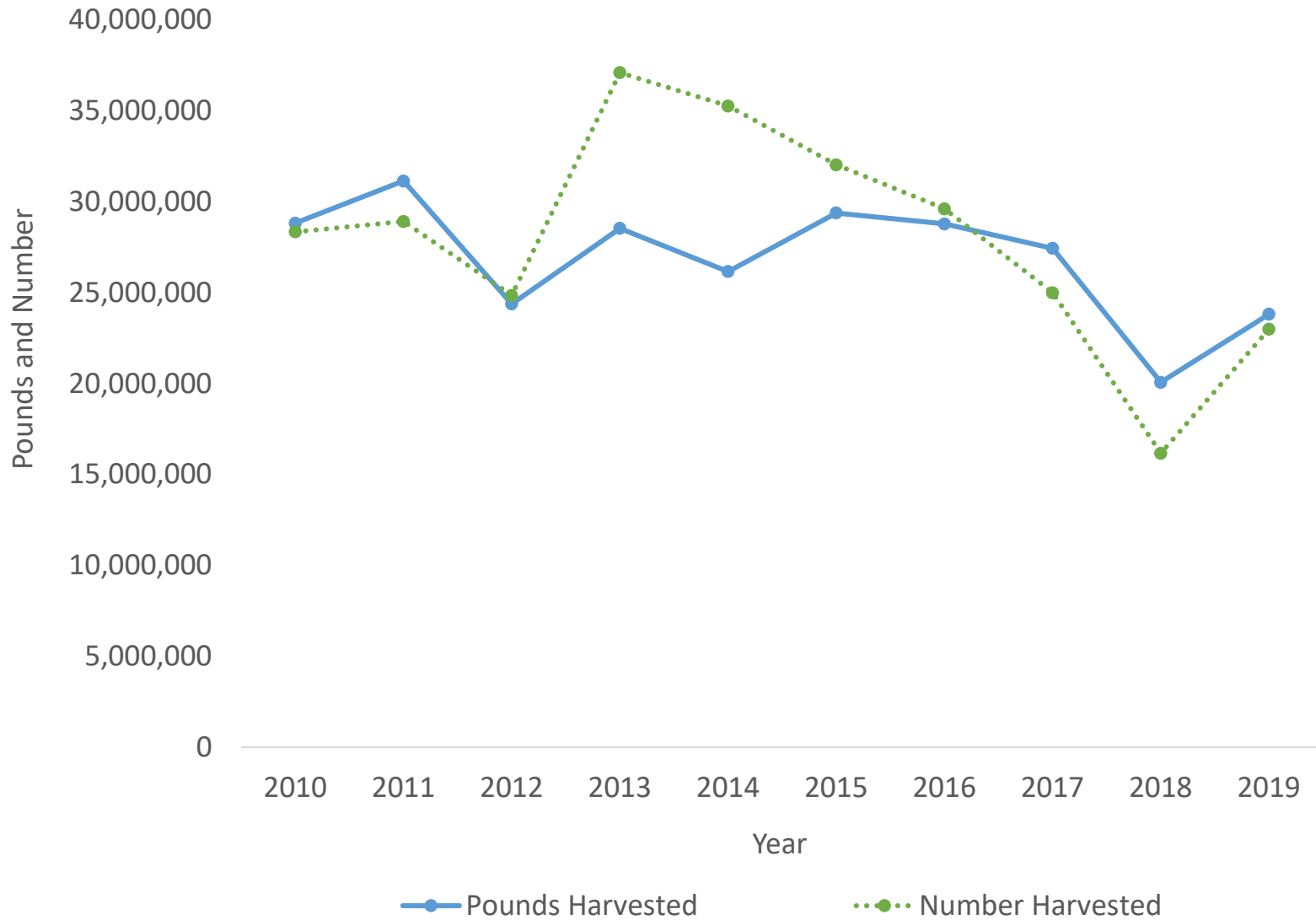
Top Five Species – Commercial Eastern Oyster



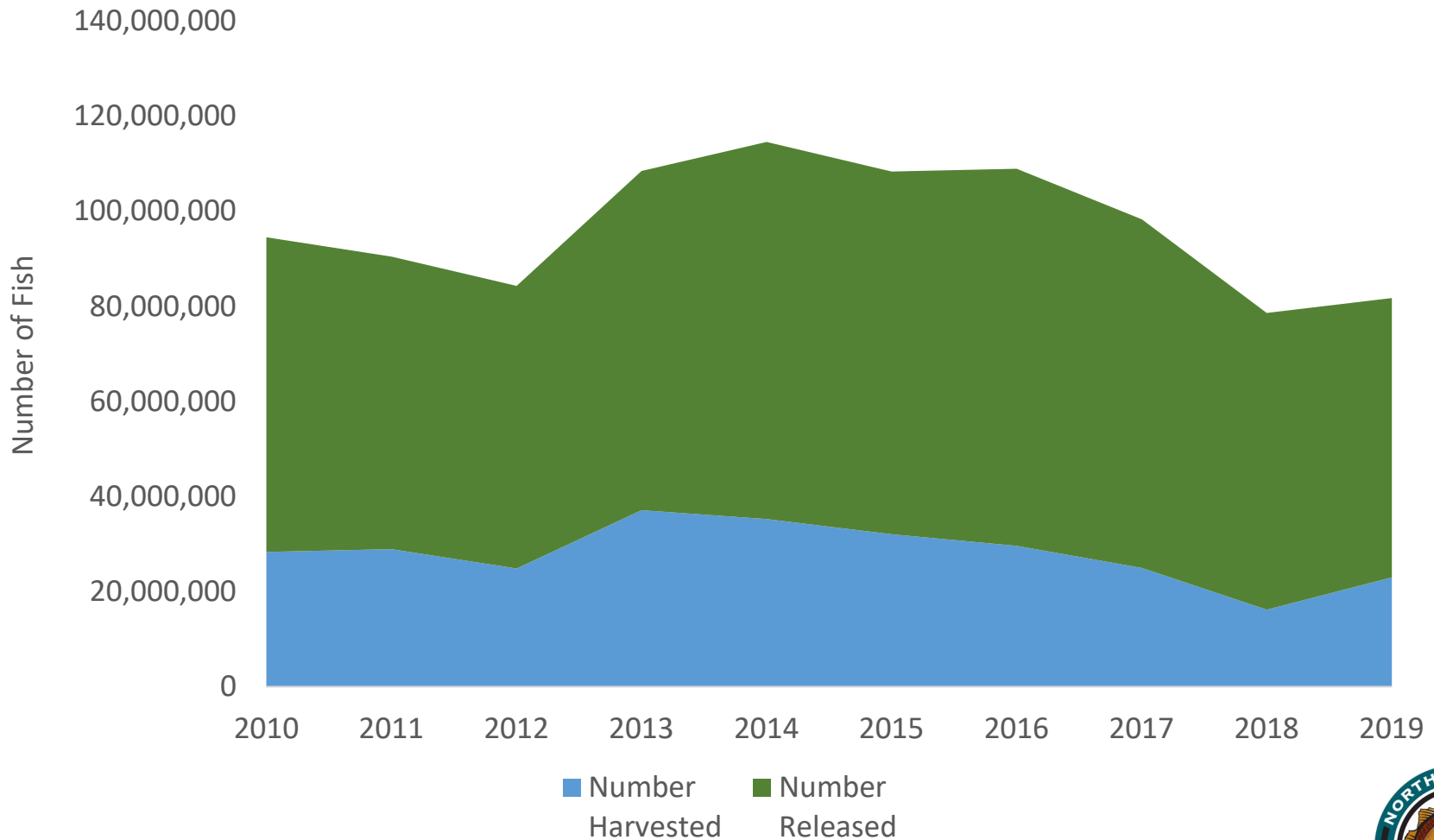
Recreational



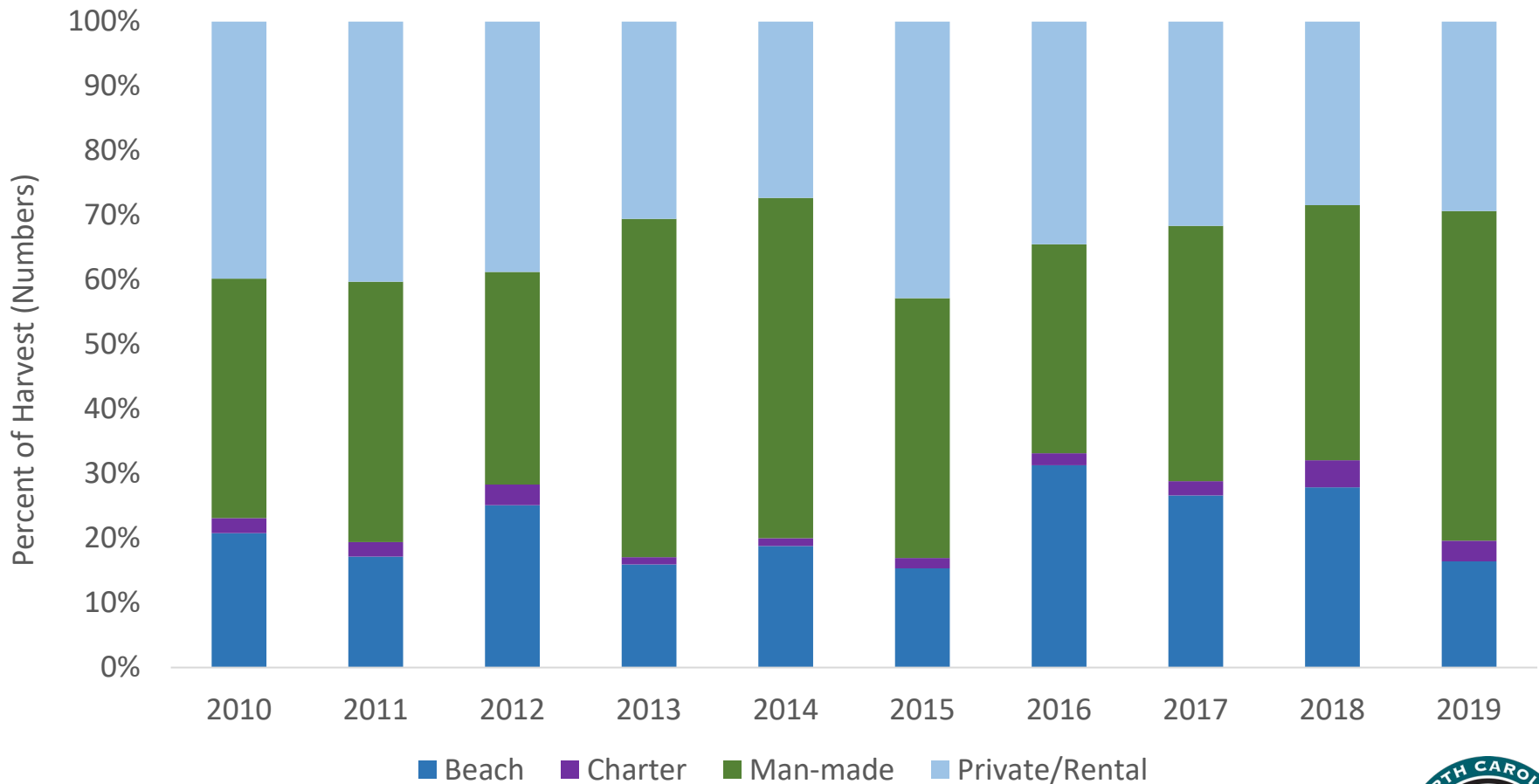
North Carolina Recreational Harvest (pounds and numbers)



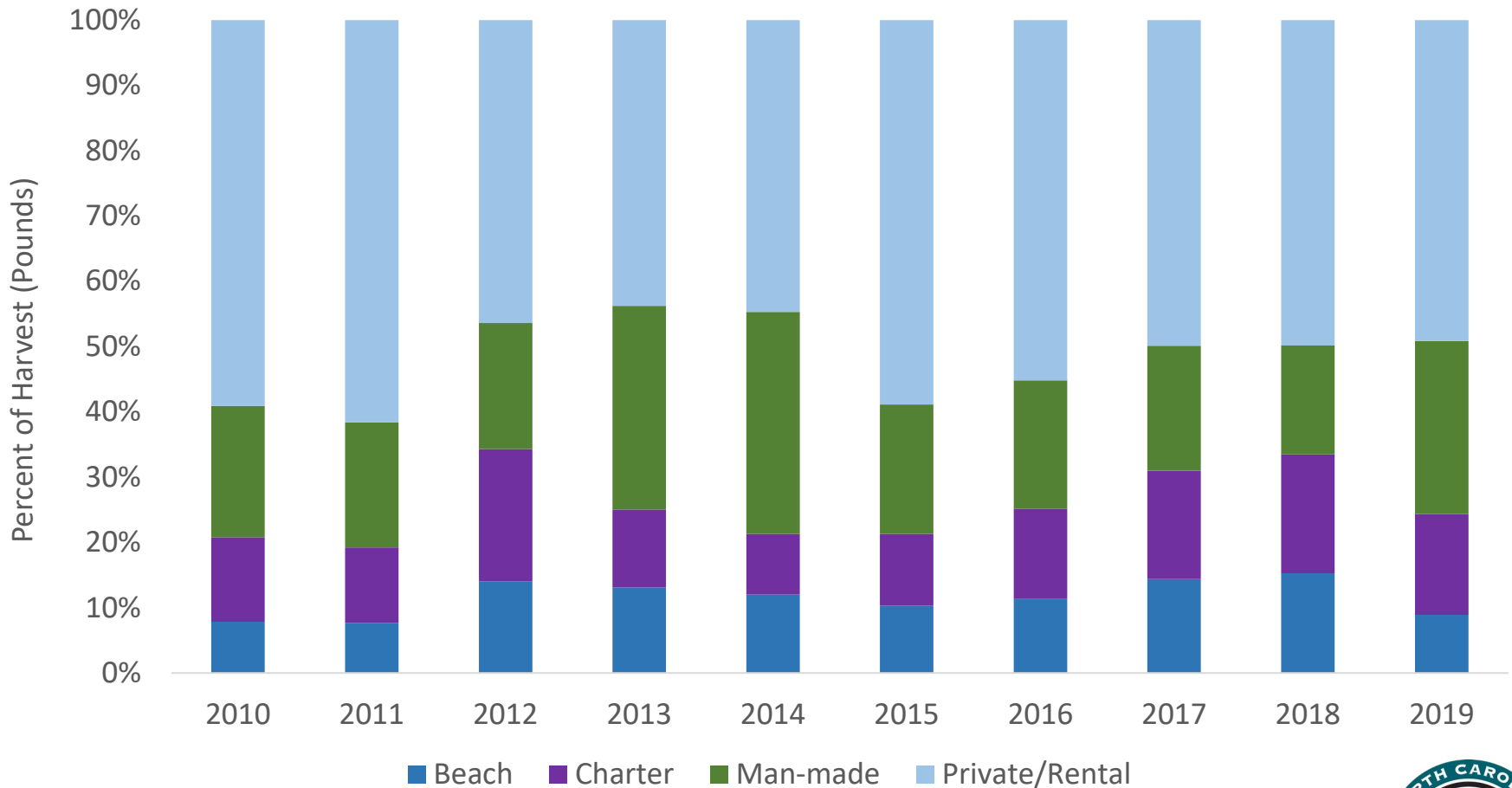
North Carolina Recreational Catch (harvest & releases)



North Carolina Recreational Harvest (by mode; numbers)



North Carolina Recreational Harvest (by mode; pounds)

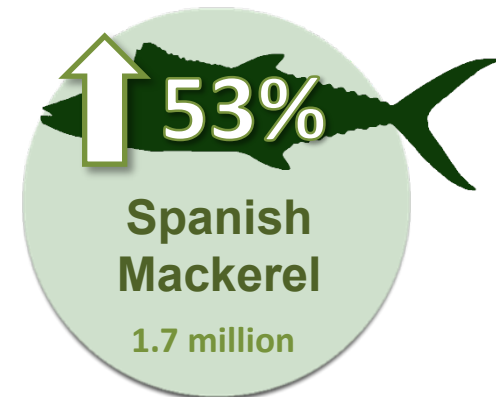
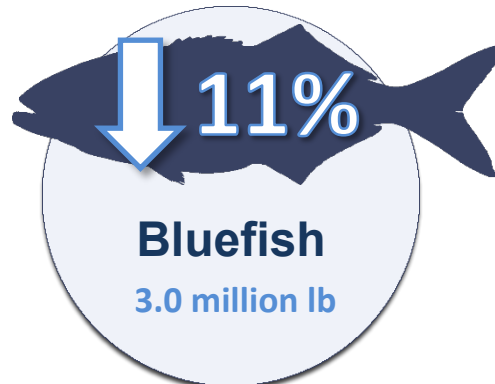
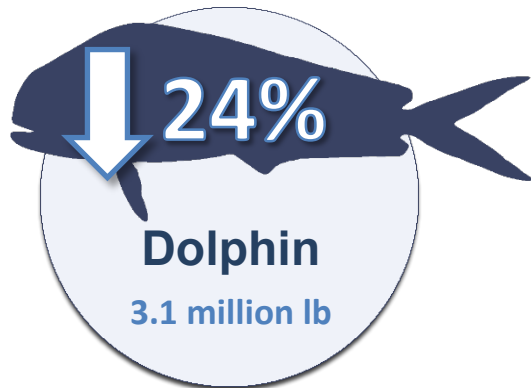
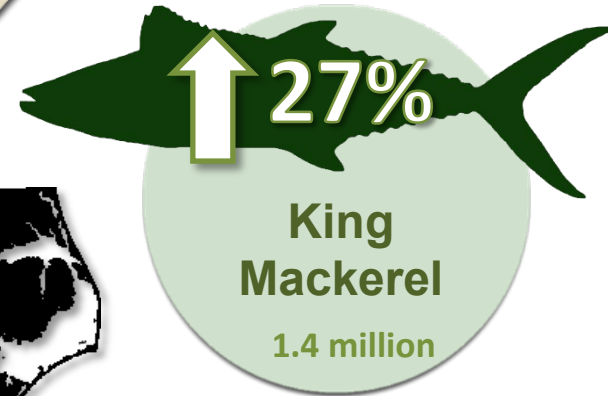
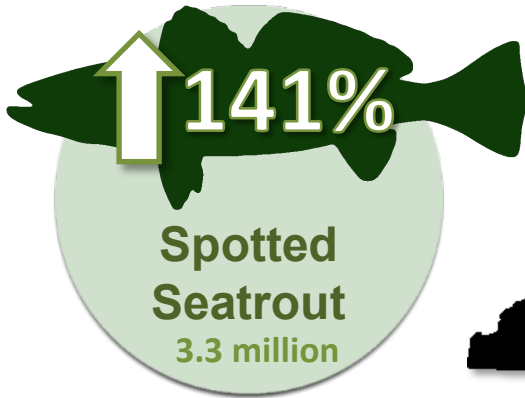




**2019 Total Marine
Recreational
Fisheries Harvest**

HARVEST
23.8
million pounds

of FISH
23.0
million



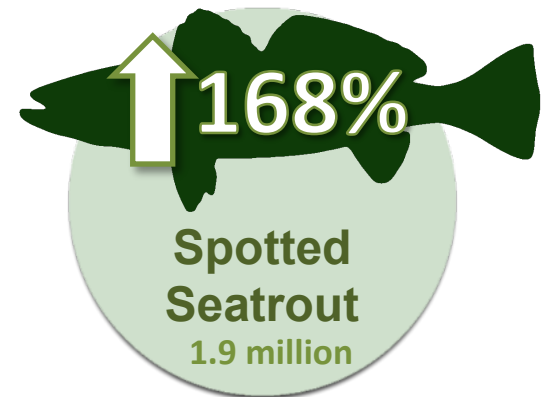
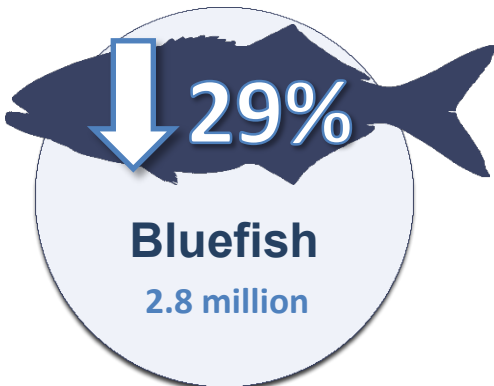
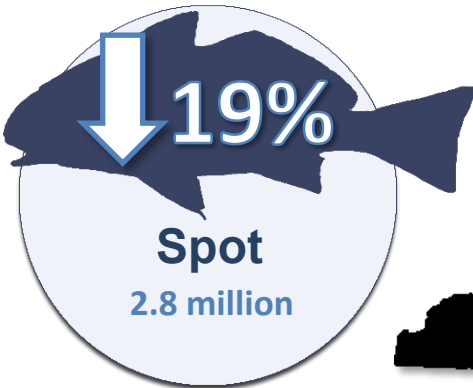
**Based on FES; All percentage changes shown for 2019 from 5-year average (2014 to 2018)*



**2019 Total Marine
Recreational
Fisheries Harvest**

HARVEST
23.8
million pounds

of FISH
23.0
million



**Based on FES; All percentage changes shown for 2019 from 5-year average (2014 to 2018)*



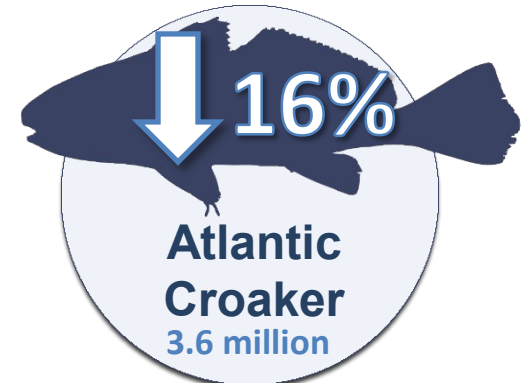
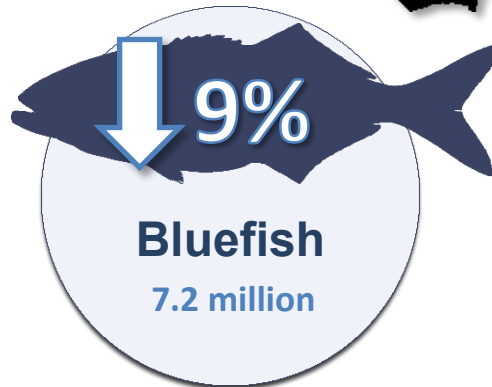
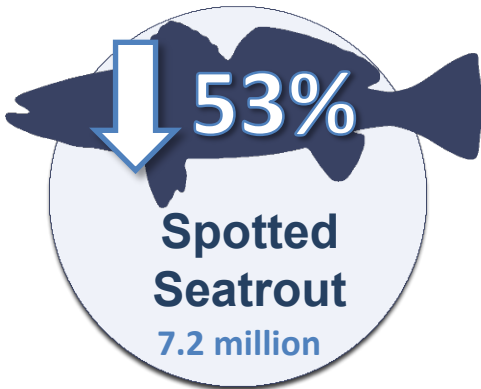
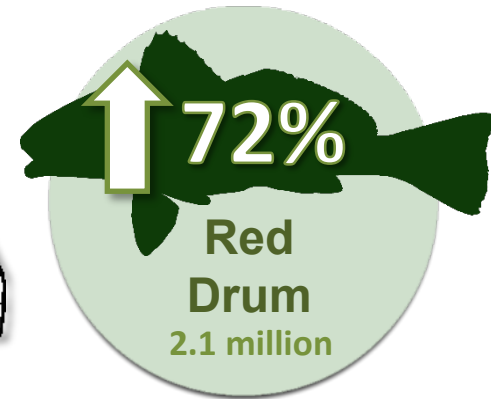
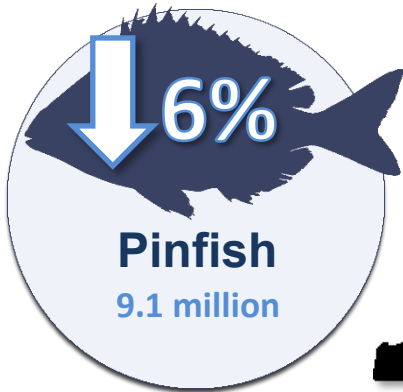
**2019 Total Marine
Recreational
Fisheries Harvest**

RELEASED

58.8
million

HARVESTED

23.0
million



**Based on FES; All percentage changes shown for 2019 from 5-year average (2014 to 2018)*

Top Five Species – Recreational Spotted Seatrout



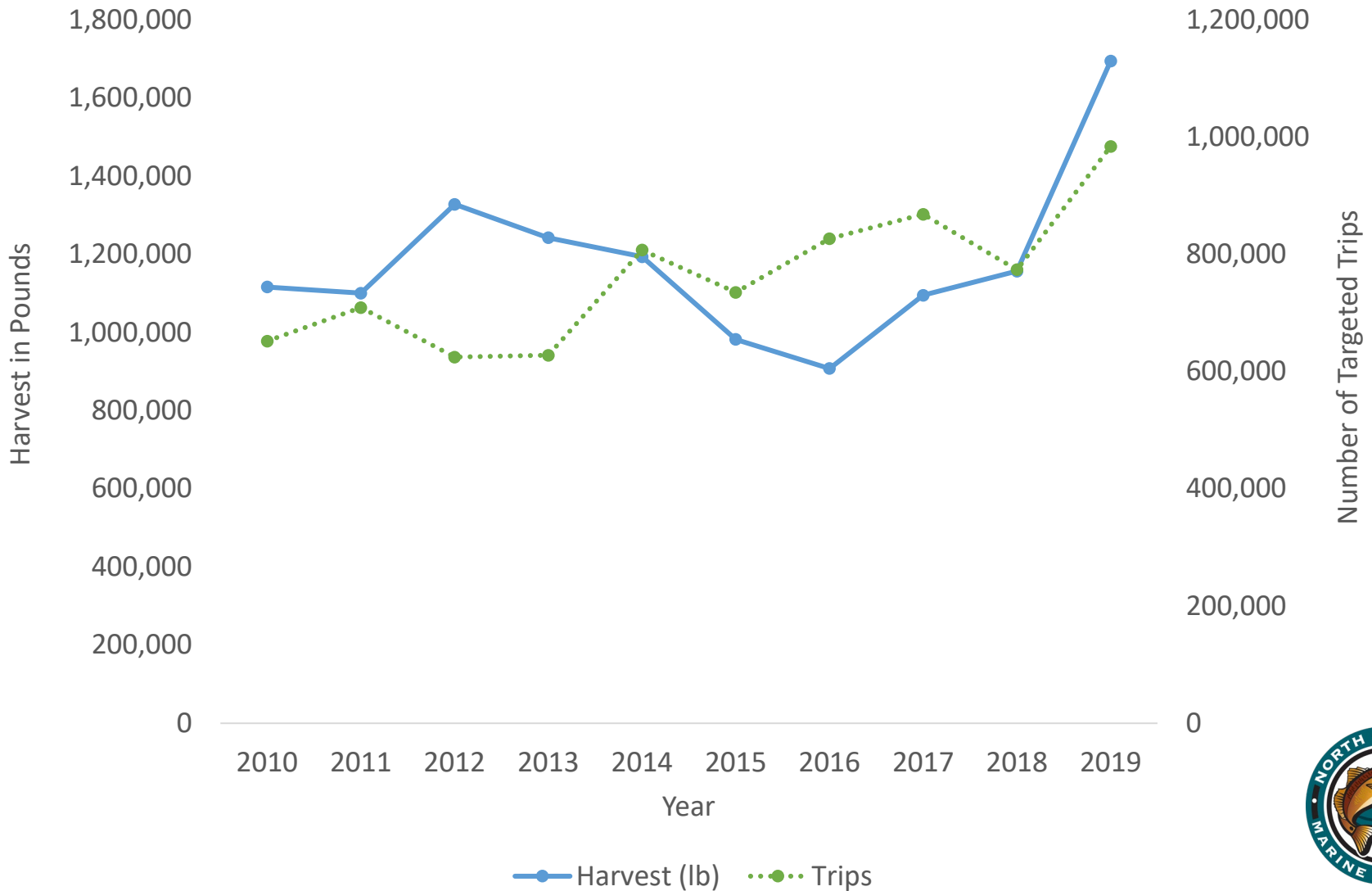
Top Five Species – Recreational Dolphin



Top Five Species – Recreational Bluefish



Top Five Species – Recreational Spanish Mackerel



Top Five Species – Recreational King Mackerel



Species Leads

SPECIES	LEAD BIOLOGIST	SPECIES	LEAD BIOLOGIST
Shrimp	Chris.Stewart@ncdenr.gov	Tunas	Steve.Poland@ncdenr.gov
Blue Crab	Daniel.Zapf@ncdenr.gov	Dolphin	Tracey.Bauer@ncdenr.gov
Summer Flounder	Lorena.delaGarza@ncdenr.gov	Red Drum	Lee.Paramore@ncdenr.gov
Bluefish	David.Behringer@ncdenr.gov	Kingfishes	Kevin.H.Brown@ncdenr.gov
Southern Flounder	Michael.Loeffler@ncdenr.gov	Spot	Morgan.Paris@ncdenr.gov
Eastern Oyster	Joe.Facendola@ncdenr.gov	Spanish Mackerel	Mclean.Seward@ncdenr.gov
Atlantic Croaker	Morgan.Paris@ncdenr.gov	Striped Mullet	Daniel.Zapf@ncdenr.gov
Spotted Seatrout	Tracey.Bauer@ncdenr.gov	King Mackerel	Mclean.Seward@ncdenr.gov



Data Needs?

Commercial data:

Amanda.L.Tong@ncdenr.gov

Alan.Bianchi@ncdenr.gov

Recreational data:

Andrew.Cathey@ncdenr.gov

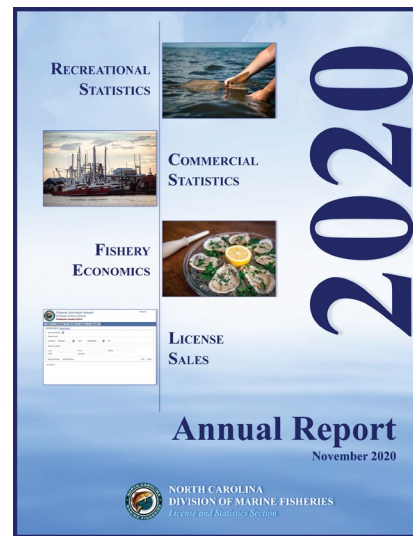
Socioeconomic:

David.Dietz@ncdenr.gov

LICENSE

&

STATISTICS





Questions?