

CARO

#### 2020 North Carolina Landings and Harvest Trends





Marine Fisheries Commission | Brandi Salmon | November 2021



#### **Commercial Landings**







Department of Environmental Quality





**Commercial Landings** 

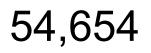
#### **Paper Tickets**

#### **Electronic Tickets**

#### 37,705

RISHER NAME				FISH DEA	H VLER #				NORT	H CAROLI	INA TRI	1 - 9 Р ТІСКЕТ	1426 (FINFISI	H)
LICENSE # V					CHECK BOX IF NO VESSEL USED						TRANSACTION #			
					orva / P				KIND		CODE	POUNDS	UNIT	TOTAL
								Eels, American		2200				
UNLOADING NO. OF DATE NO L DAY L VI OREIN							Gars/Skippers		6100					
CIRC	LE ALL GEARS (	ISED							Gray Trout	Pan	5252			
020	Beach Seine	340	Eel Pot			610	Bod	-n-Reel		Med.	5253			
030	Haul Seine	345	Fish Pot			660	Trol			Lg.	5254			
		0.0	Small Mesh						Hogfish/Pigfish		4500			
025	Swipe Net	426	Set Gill Net (< 5 in.		:5 in.)	677	Shar	rk Longline	Jumping Mullet		4350			
125	Purse Seine	427	Large Mesh Set Gill Net (>=5 in		=5in)	735	Cast	Net	Mullet	Red Roe	4357			
275	Pound Net	470	Drift Gill Net			760	Gigs			White Roe	4358			
310	Hoop/Fyke Net	475	Bunaround Net				congre		Little Tunny Whole	(False Alb.)	7300			
									Pompano	Small	4652			
	LE ONE WATERE	-					-			La.	4654			
01	Albemarle Soun	d 10		ituck S		33	Рал	lico River	Putters Whole (Se	· ·	6850			
02	Aligator River	11	Loci	wood	Folly	34	Рал	lico Sound	Puppy/Red Drum	Redfish	2150			
03	Bay River	12	Mas	onbord	o Sd.	45	Ros	noke Sound	Sea Mullet	110011211	4000			
05	Bogue Sound	29	Neu	se Rive	or	38	Shal	lotte River	Roe Shad (Am, Sh	(ha	5356			
06	Cape Fear Rive	30	New	River		39	Stun	np Sound	Buck Shad (Am. S		5359			
08	Core Sound	31	New	port Ri	iver	41	Tops	sail Sound	Jacks (Hickory Shi		3800			
09	Croatan Sound	43	Nort	h Rive k Soun	tl d	42	Whit	e Oak River	Sharks Mixed	Carcass	5410			
53	Inland Waterway - Brunswick						rway - Onslow		Snanks Mixed	Fins	5420			
20 Ocean 0-3 miles				Orange 0.0 million			les			Fins				
20 (North of Cape Hatteras) oc Ocean greater than 3 miles				21 (South of Cape			of Cape Hatteras) greater than 3 miles of Cape Hatteras)		Sheepshead		6000			
22 (North of Cape Hatteras) KIND									Spadefish		6650			
			COD	EF	POUND		INIT	TOTAL	Spanish Mackerel	Small Med.	6702			
Black Drum			210	0			NICE	PRICE		Lg.	6704			
Bluefish Small			135	_		-			Speckled Trout	Pan	5302			
Med.			135	_					opromos riour	Mod.	5303			
	Lg.		135	_		-				Lg.	5304			
	Lg. G	stad	136	_		-			Spot	-9	6750			
Rutterlish			1550		-			Starbutters		3700				
				1700					Striped Bass		6800			
Croaker Small				1952					Thread Herring					
0.000	Med.		195	_					White Perch		3750			
	La.		195	-		-			Menhaden Bait (LE	101				
Lg. Dogfish-Smooth Carcass			5940					Mixed Balt	137	4200				
Doglish-Smooth Fins			592	-		-			MINUT CALL		7900			
			595	_							-			
			230	-		-								
riouri	Small		230			-								
				_		-								
Med. Lg. Jumbo			-	2303 2304										
			-			-			1000					
			230	300					Dealer/Fisherman Use					

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Total Trip Tickets Processed in 2020



#### Department of Environmental Quality

#### Recreational Harvest

## COASTAL ANGLING PROGRAM



Department of Environmental Quality



23,746 interviews

**19,095** mail surveys



### 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





Department of Environmental Quality

### 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)

Department of Environmental Quality







#### 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

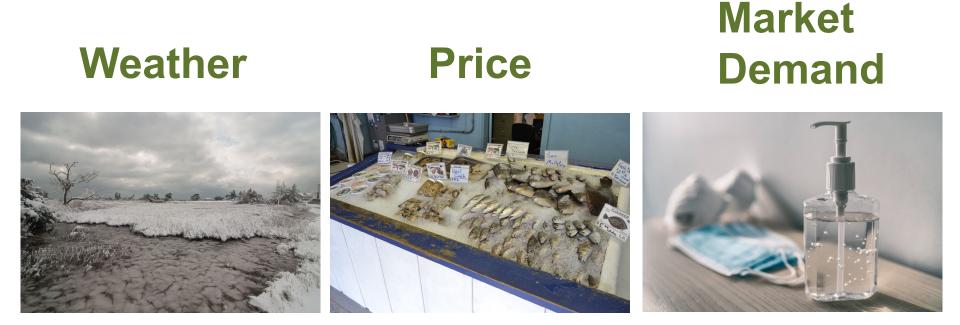






## Effort Drives Landings and Harvest

Several factors impact effort including:





## Effort Drives Landings and Harvest

Several factors impact effort including:

#### Stock Abundance

## Regulations

#### Economic Factors





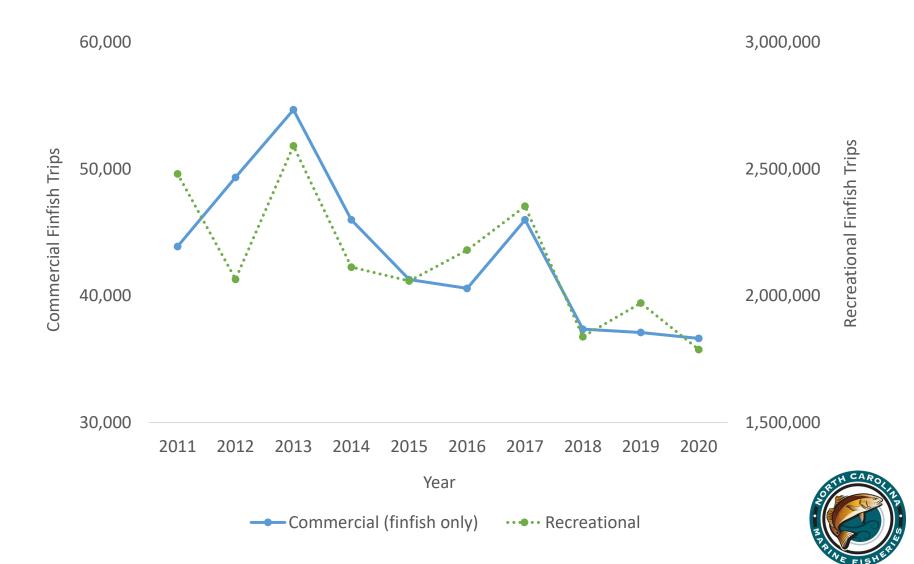




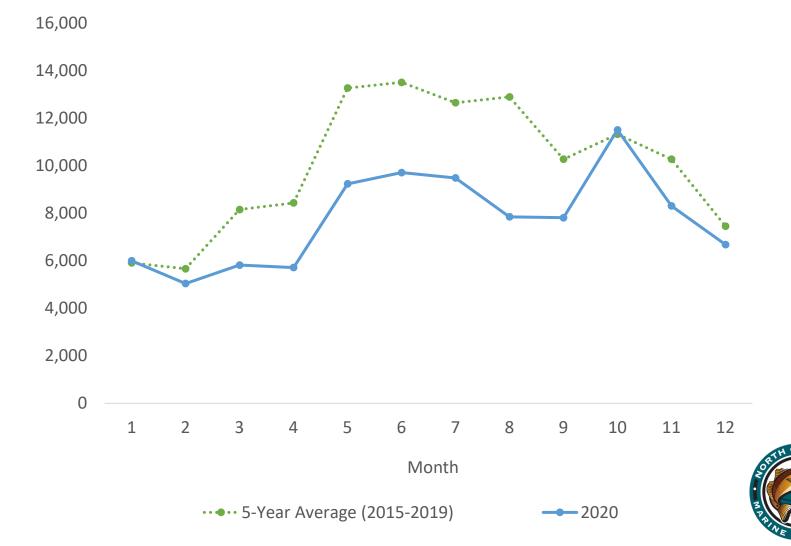
Fishing Trips with only Finfish



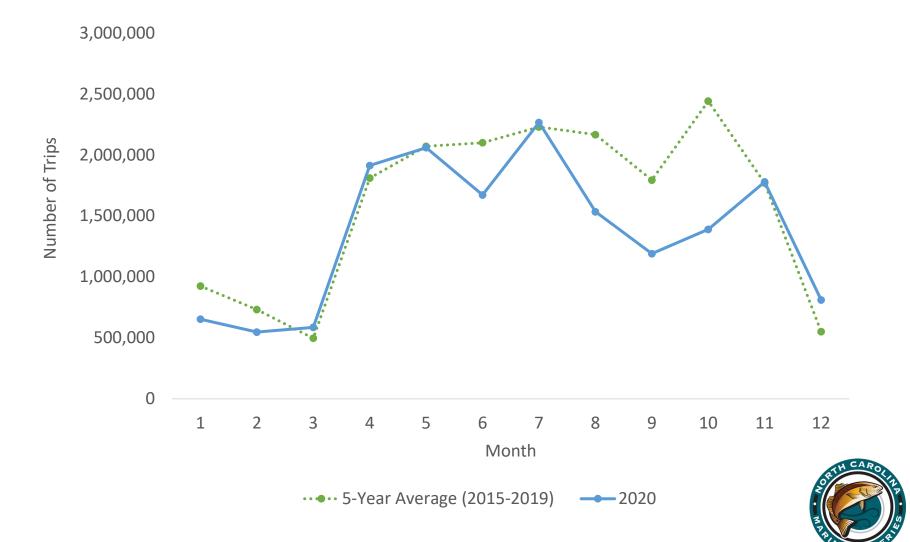
## Fishing Trips with only Finfish



## All Fishing Trips by Month - Commercial



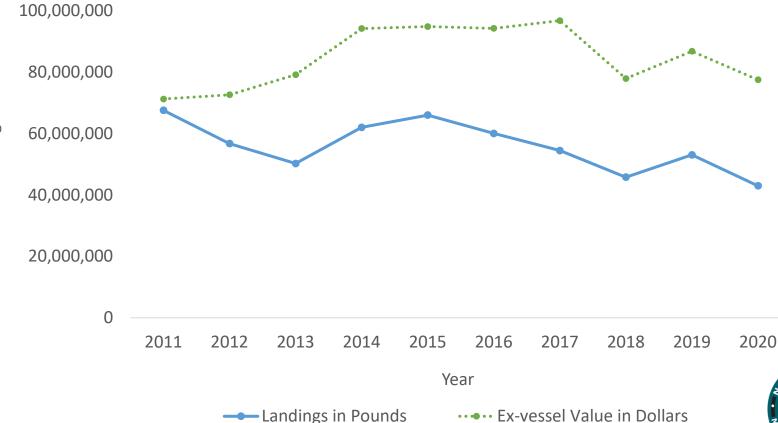
## All Fishing Trips by Month - Recreational



## Commercial

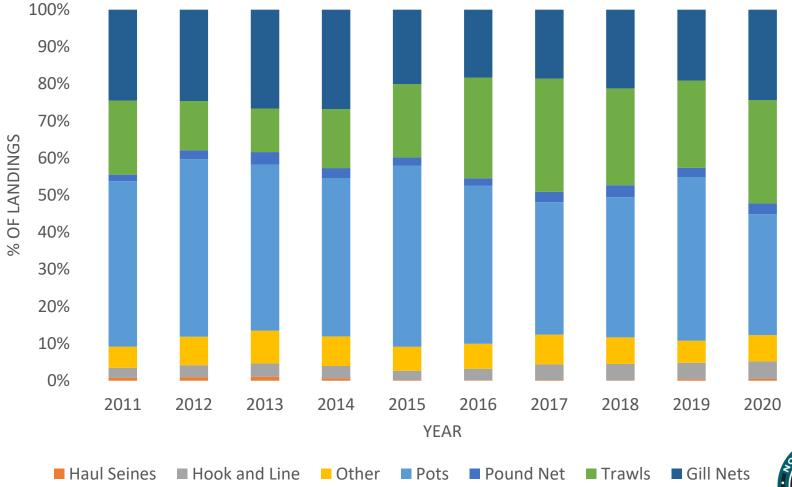
#### North Carolina Commercial Landings (pounds and value)

120,000,000

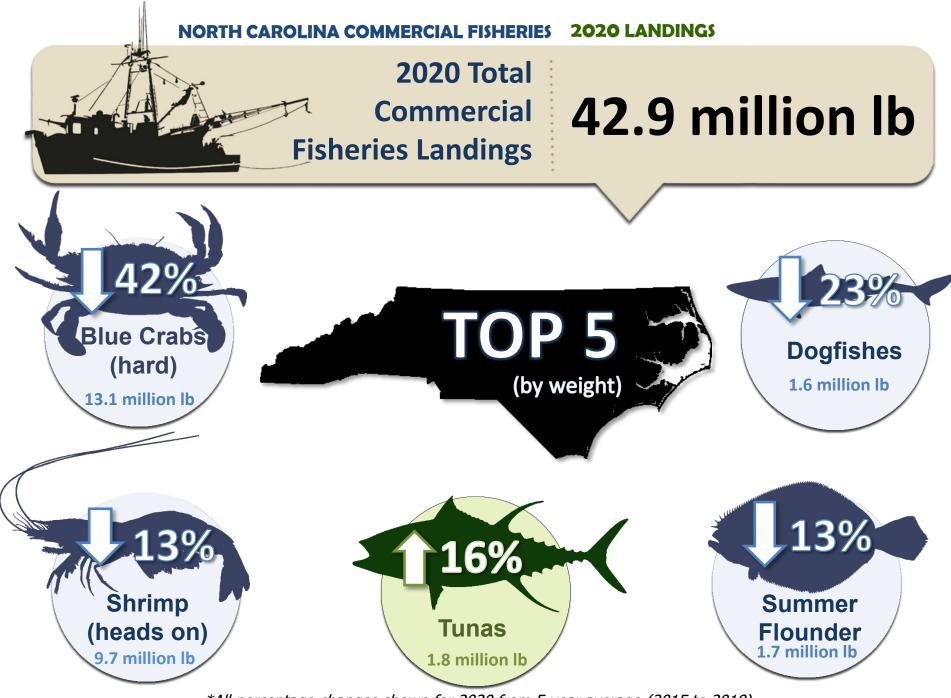


Landings and Value

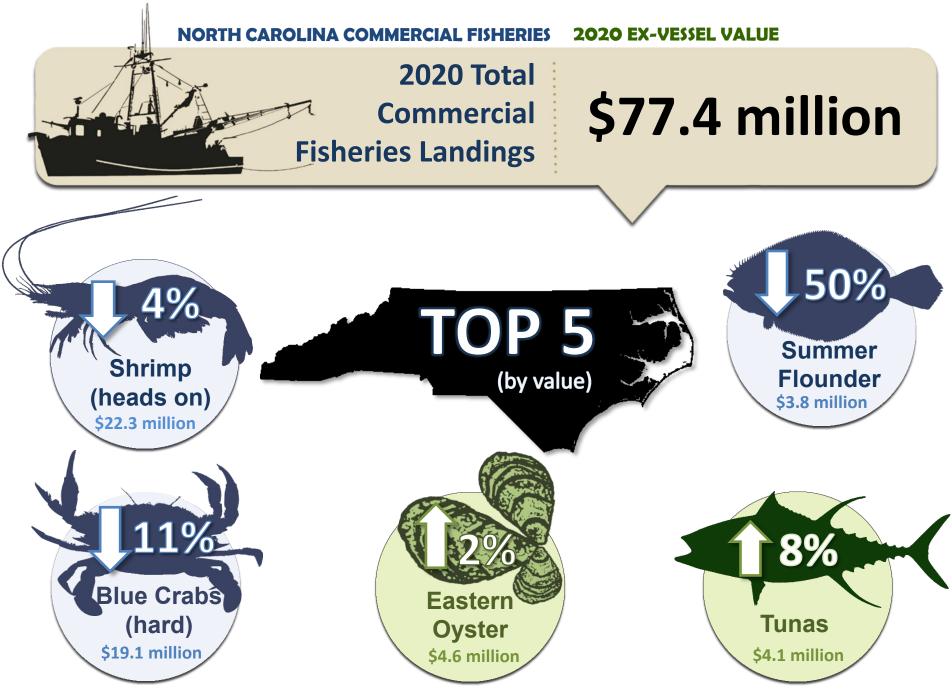
#### North Carolina Commercial Landings by Gear



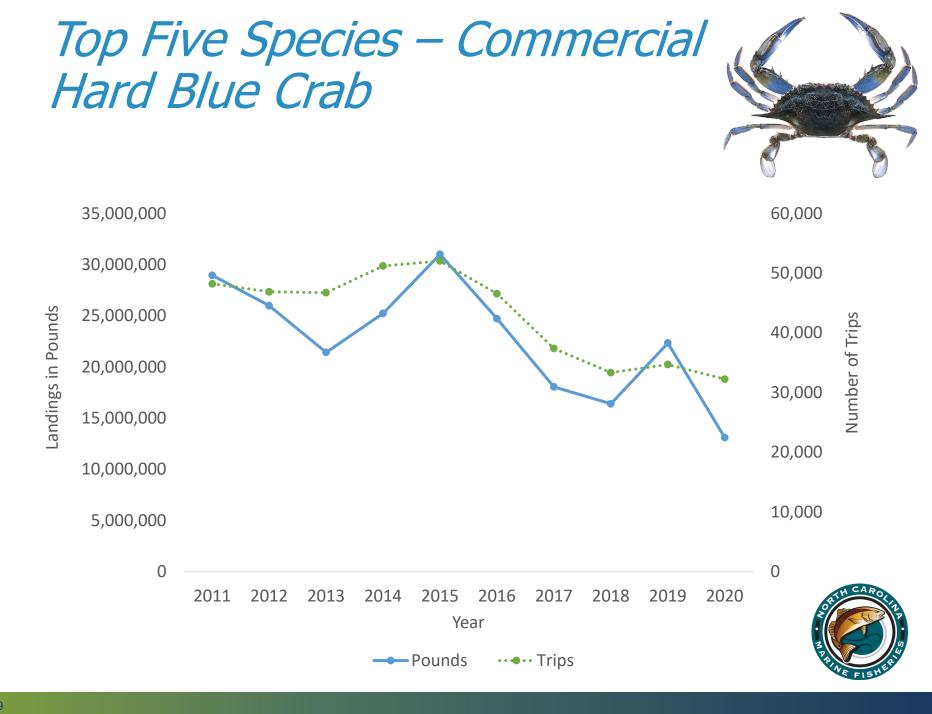




\*All percentage changes shown for 2020 from 5-year average (2015 to 2019)

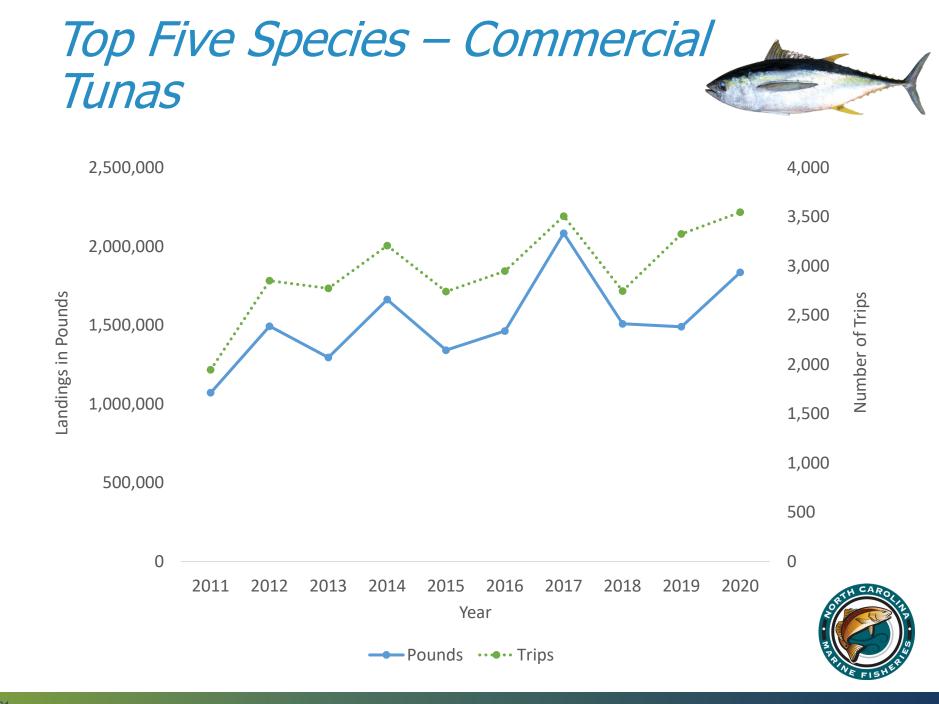


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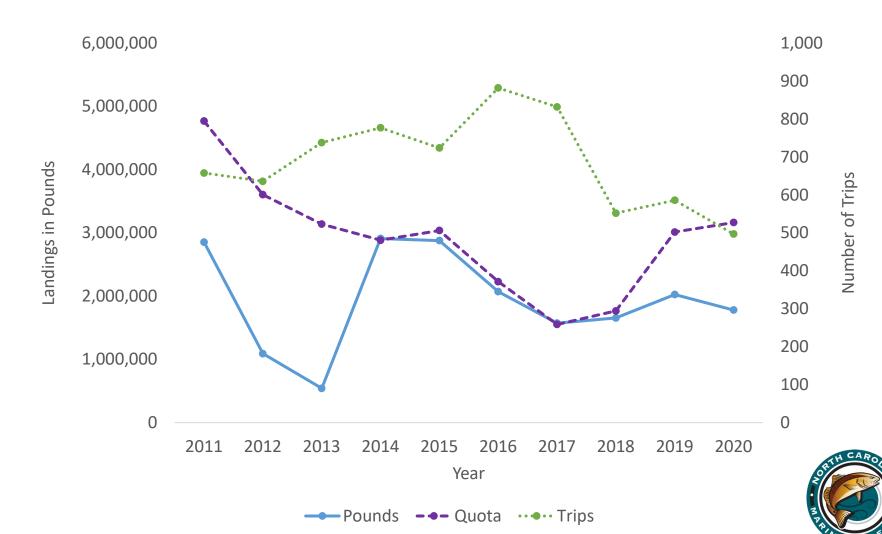
## Top Five Species – Commercial Penaeid Shrimp





# *Top Five Species – Commercial Summer Flounder*





22

# *Top Five Species – Commercial Eastern Oyster*





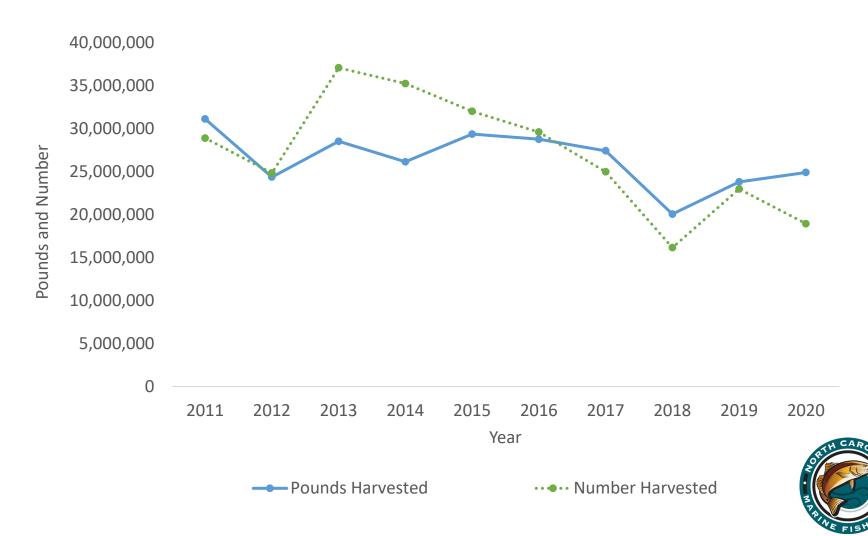
## Top Five Species – Commercial Dogfishes



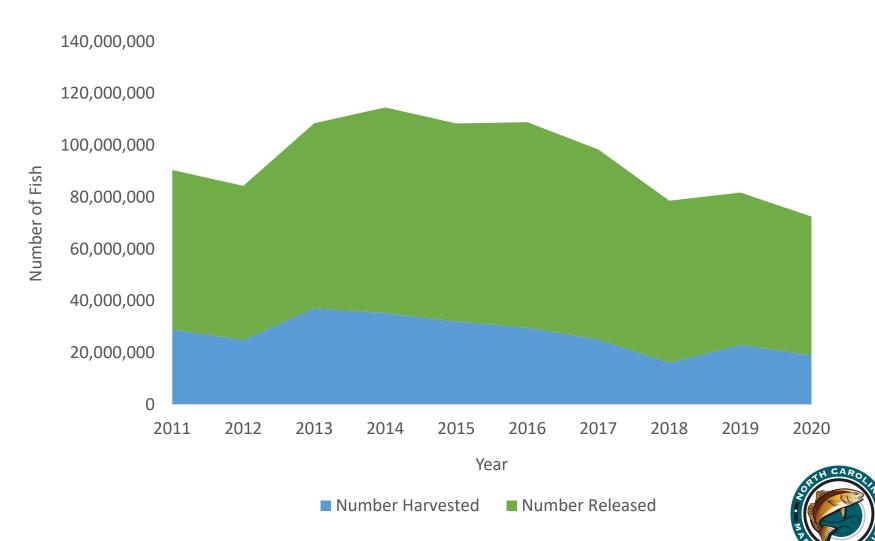
## Recreational

SHIMAN

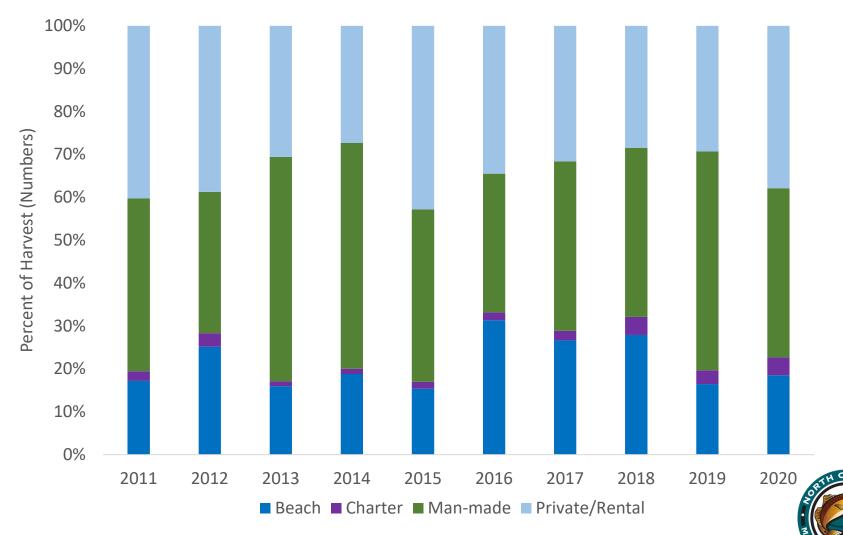
# North Carolina Recreational Harvest (pounds and numbers)



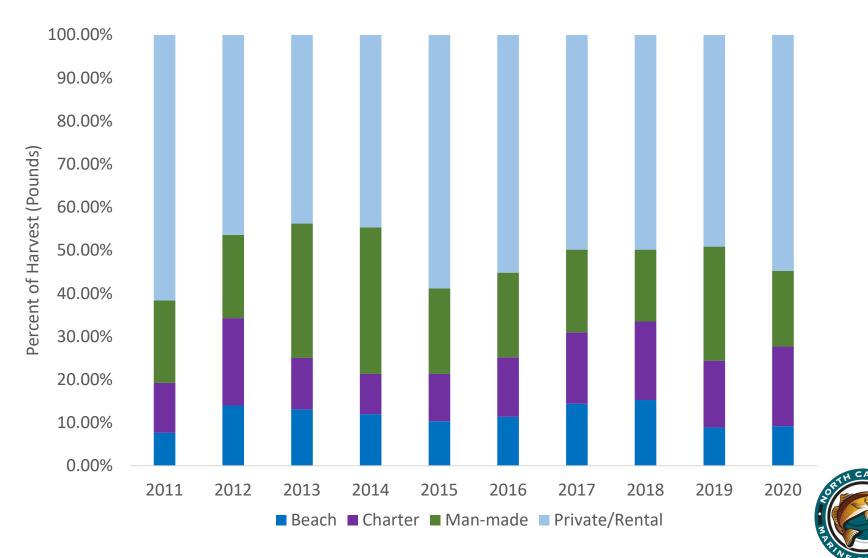
#### North Carolina Recreational Catch (harvest & releases)

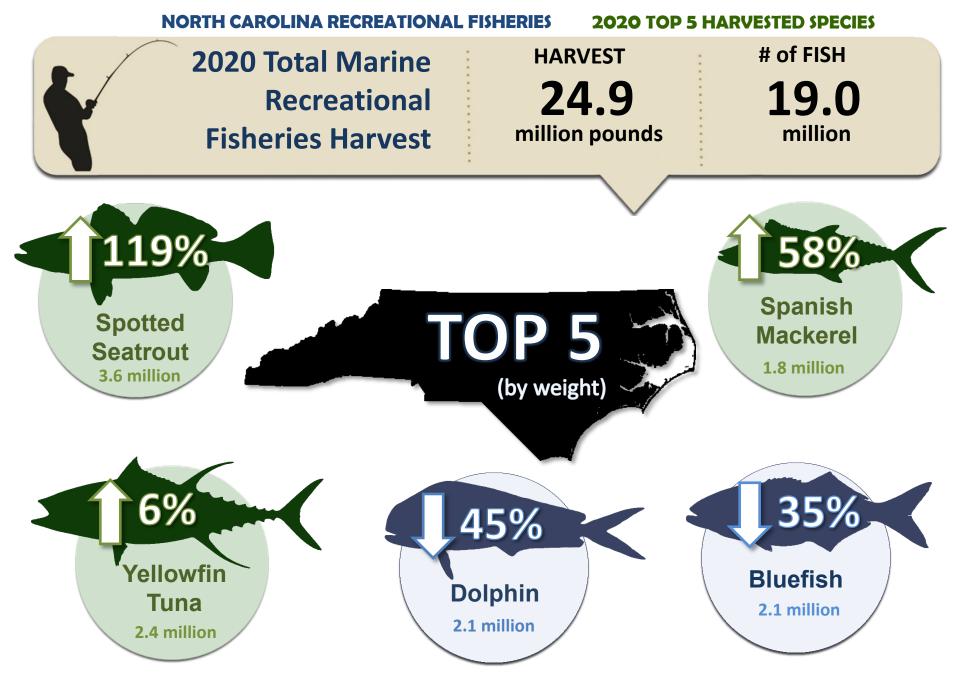


#### North Carolina Recreational Harvest (by mode; numbers)

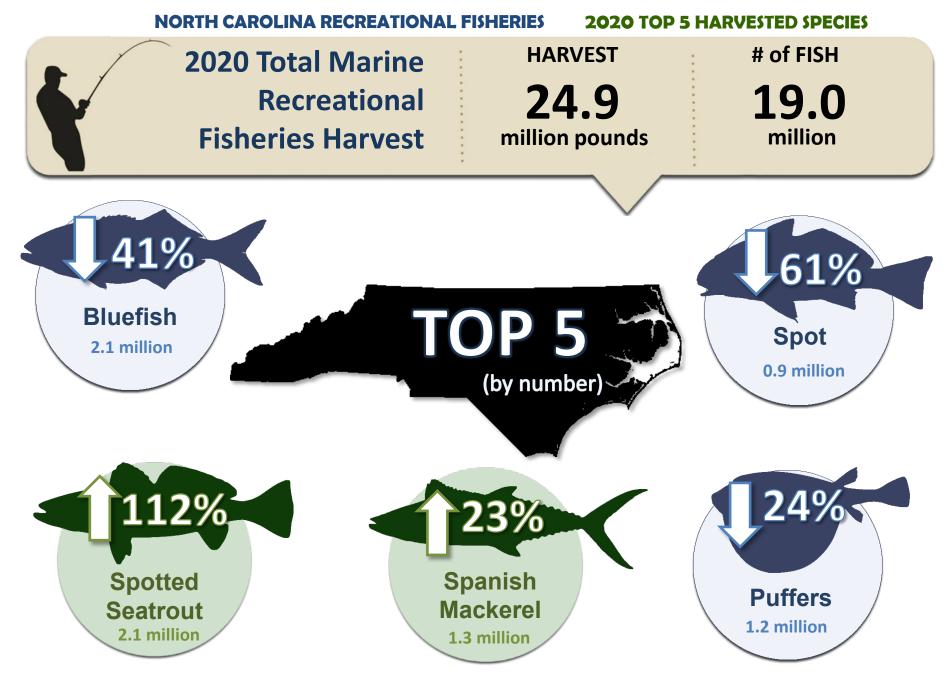


#### North Carolina Recreational Harvest (by mode; pounds)

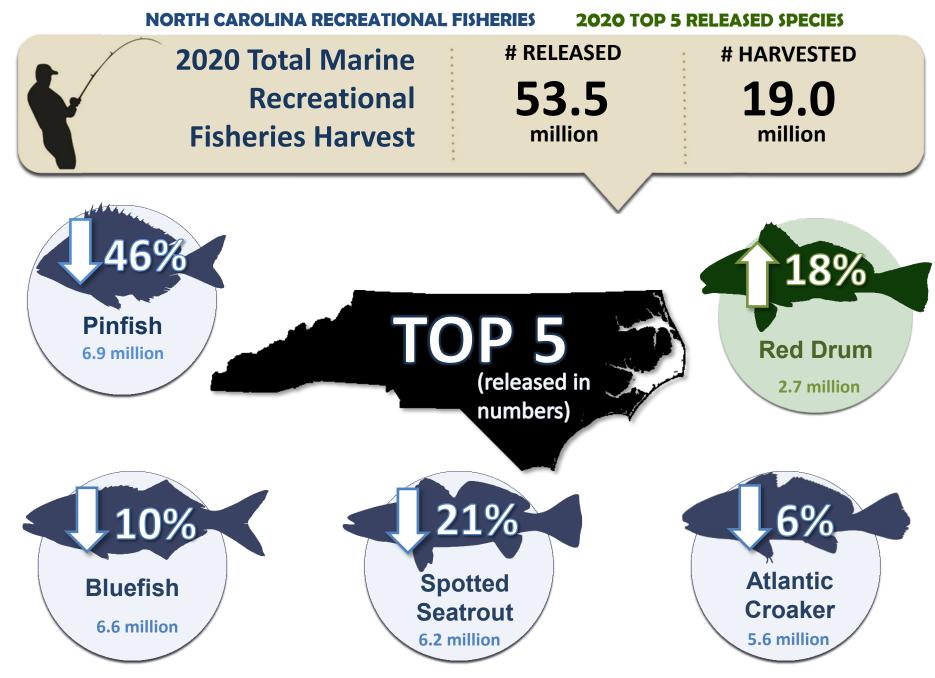




\*Based on FES; All percentage changes shown for 2020 from 5-year average (2015 to 2019)

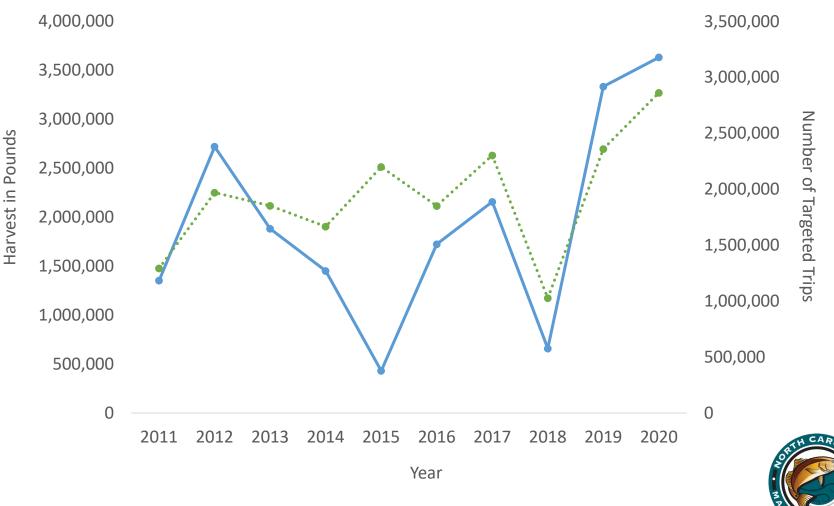


\*Based on FES; All percentage changes shown for 2020 from 5-year average (2015 to 2019)



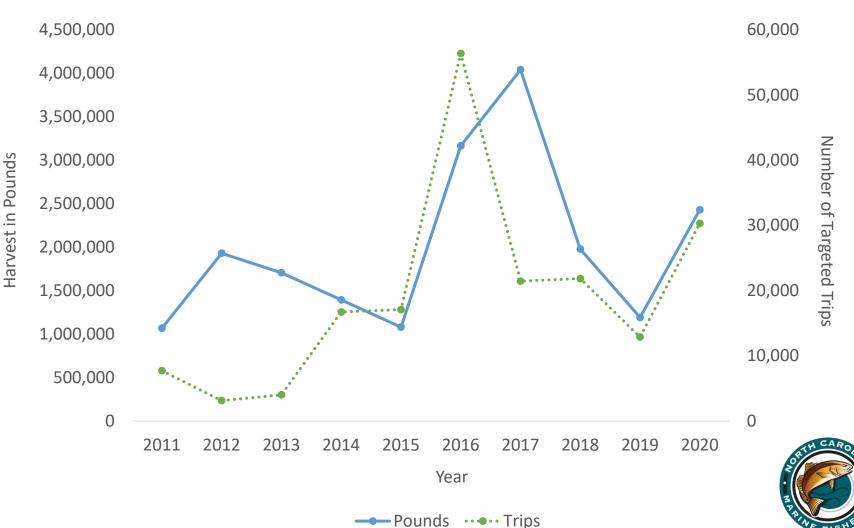
\*Based on FES; All percentage changes shown for 2020 from 5-year average (2015 to 2019)

### *Top Five Species – Recreational Spotted Seatrout*



Pounds ··· •·· Trips

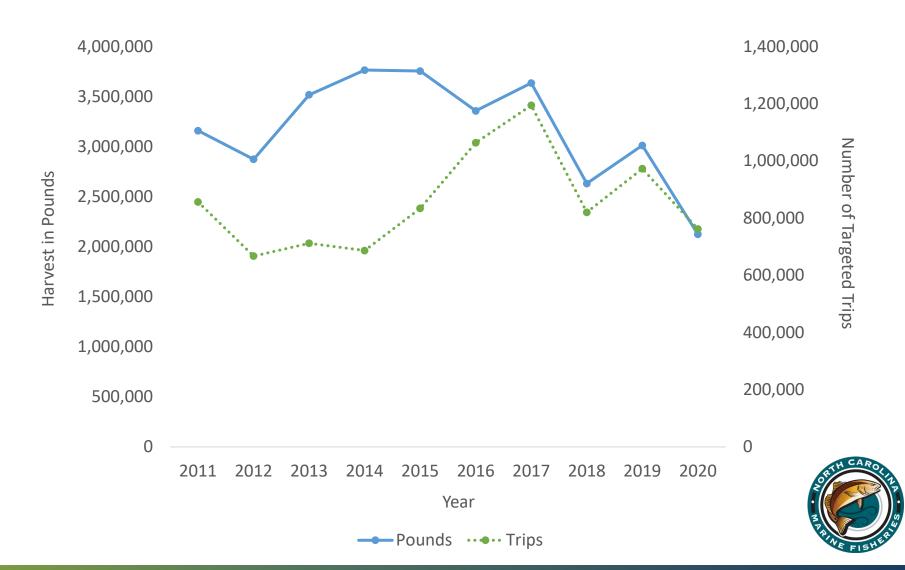
### Top Five Species – Recreational Yellowfin Tuna



## *Top Five Species – Recreational Dolphin*



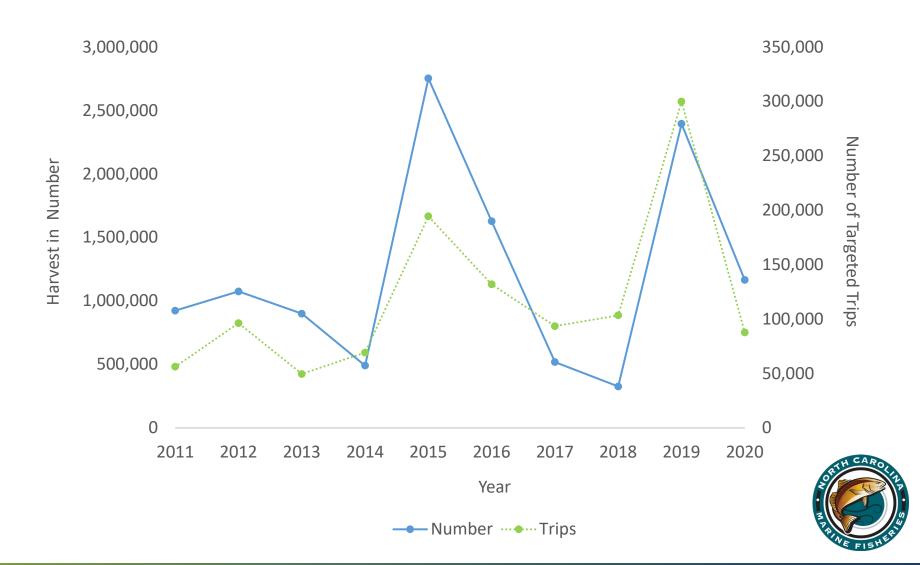
### *Top Five Species – Recreational Bluefish*

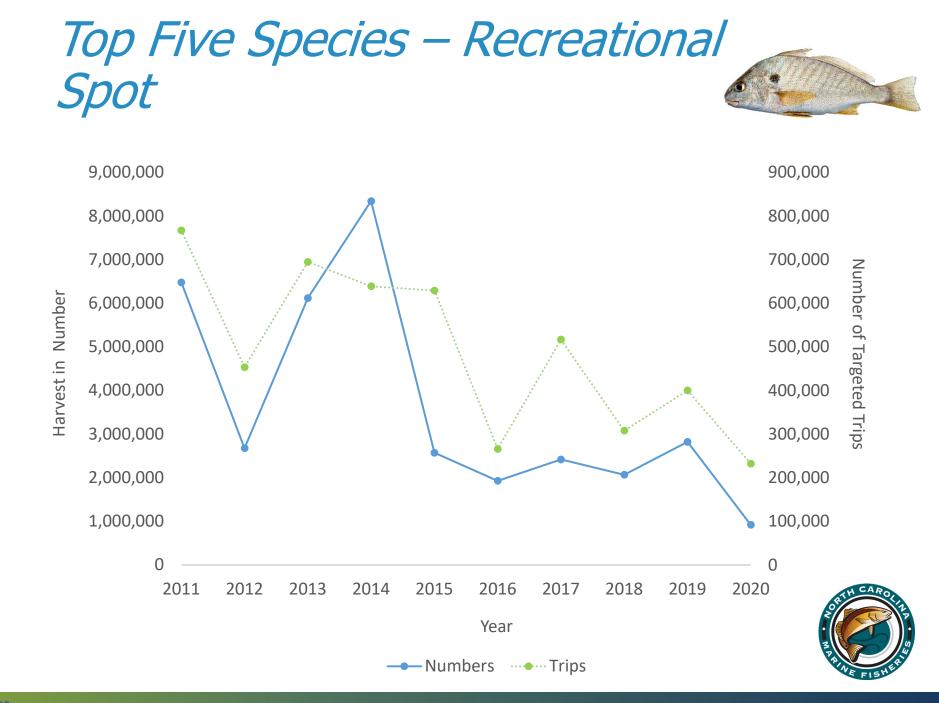


### Top Five Species – Recreational Spanish Mackerel



### Top Five Species – Recreational Puffers





#### Species Leads

SPECIES	LEAD BIOLOGIST	SPECIES	LEAD BIOLOGIST
Shrimp	Chris.Stewart@ncdenr.gov	Tunas	Trish.Murphey@ncdenr.gov
Blue Crab	Janelle.Johnson@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
Spotted Seatrout	Tracey.Bauer@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	Spiny Dogfish	David.Behringer@ncdenr.gov



#### Data Needs?

Commercial data:

Meredith.Whitten@ncdenr.gov Alan.Bianchi@ncdenr.gov

**Recreational data:** 

Andrew.Cathey@ncdenr.gov

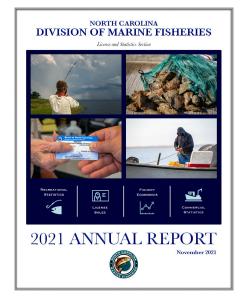
License data:

Brandi.Salmon@ncdenr.gov











# **Questions?**