South Carolina Commercial Shrimp Fishery Preliminary Data Summary: Commercial Trawl Ticket Program

Eric Hiltz and Amy Dukes

SEDAR-PW6-WP08

Submitted: 30 June 2014



This information is distributed solely for the purpose of pre-dissemination peer review. It does not represent and should not be construed to represent any agency determination or policy.

Please cite this document as:

Hiltz, E. and A. Dukes. 2014. South Carolina Commercial Shrimp Fishery Preliminary Data Summary: Commercial Trawl Ticket Program. SEDAR-PW6-WP08. SEDAR, North Charleston, SC. 5 pp. South Carolina Commercial Shrimp Fishery Preliminary Data Summary Commercial Trawl Ticket Program

> Eric Hiltz, SCDNR Amy Dukes, SCDNR

SEDAR-PW6-WP08

Initial efforts to collect commercial landings data began in South Carolina in 1957 and were based on the monthly reporting system established by the U.S. Fish and Wildlife Service. Wholesale seafood dealers would supply landings data in monthly totals by species to the agency. Beginning in 1975, more specific commercial shrimp data collections began. High volume shrimp dealers (typically handling more than 1,000 pounds per month) were selected to report trip-level data, and were supplied with trip-tickets to complete at/after each offload. Working in conjunction with commercial fishermen, dealers collected and provided information on the vessel (name and registration number), offload date, area fished, fishing effort in whole days, pounds of shrimp landed by grade, wholesale price, and any by-catch species landed. In September of 2003, SCDNR began trip-level data collections across all fisheries following the established protocols set forth by the Atlantic Coastal Cooperative Statistics Program (ACCSP). Individual trip-ticket logbooks for specific fisheries were developed which collect detailed information on both catch and effort data on single commercial trip (See Figure 1 for an example of the trawl ticket). Data from 1980 to 2003 is available electronically in a monthly summary format and data from 2004 to the present is available electronically in a trip level format (see Figure 2 for a brief overview of the catch and effort).

Since 1975, port agents were assigned to each area of the state (south, central, and north) to serve as liaisons between the agency and the shrimping industry. Port agents serve as an integral part of the data collection system. Dock-side visitation allowed conversation with vessel captains to gain information normally not included on the trip-tickets, such water condition, quality of shrimp, and most impotently, shrimp composition by species. Species composition of the catch was determined by the port agents for as many grades and vessel trips as possible through a standard protocol (See figure 3 for an overview of the species composition). During this protocol, the port agent interviews the fisherman/dealer to collect the county landed, fisherman name, vessel information, offload data, area fished, distance from shore, head on/off, and packed grade. A three-pound sample is then collected, the shrimp are counted, and then separated by species (white, brown and pink) and recounted.

Figures:

Figure 1. South Carolina trawl trip ticket form.

SOUTH CAROLINA TRIP TICKET (TRAWL / CHANNEL NET)

5001	H CAROLINA TRIP 1	ICKEI (IK	AWL/ CIL	1000L	·L1)							- 1 -			
	DEALER NAME:								DEALER NUMBER:						
FISHERMAN NAME:									FISHERMAN OR CUSTOMER ID#:						
	NO. OF CREW: (INCLUDE CAPT)	VESSEL NUMBER:								VESSE NAME					
	TRIP START DATE: EX: MM/DD/YYYY	MO. DAY YR.						U	UNLOADING DATE: EX: MM/DD/YYYY MO. DAY			I yr			
CIRCLE GEAR		HEAD TOTAL						GOLDER		OT DOLLAR DATE					
	DAND FILL IN		HEAD ROPE	TO	W	NO OF		COUNT Write In			EADS ON OR FF BELOW	POUNDS	BOAT PRICE	TOTAL	
INFORMATION		# OF NETS	LENGTH (FEET)			NO. OF TOWS				Heads On	Heads Off 1				
215	SHRIMP TRAWL						1 -		-	Heads On	I Heads Off				
205	WHELK TRAWL									0	1				
205	CRAB TRAWL									Heads On 0	$\operatorname{Heads}_1 \operatorname{Off}$				
205	HORSESHOE TRAWL									Heads On	Heads Off 1				
180	CHANNEL NET						┙┝─		_						
	CIRCLE IF C OTHER	CATCH WAS THAN SOL			E				_	Heads On 0 Heads On	Heads Off 1 Heads Off				
73	NORTH CAROLINA	13	GEORGIA	53	FLC	ORIDA				Heads On 0	1				
CIRCLE WATERBODY WHERE MOST OF CATCH WAS			IADE	CI.	RCLE (ONE	īL			Heads On He					
	WHERE MOST OF CATCH WAS MADE 70701 GARDEN CITY - NC BORDER			1 0-3 mi	2					ROCK SHRIMP					
			0-3 mi	3-12 mi	3	11			Heads On	Heads Off 1					
7060				0-3 mi	3-12 mi	3	11			Heads On	Heads Off 1				
	71311 DEWEES INLET - CAPE ROMAIN			0-3 mi 1	3-12 mi	i >12 mi 3									
	71321 NORTH JETTY - DEWEES INLET			0-3 mi	3-12 mi	i >12 mi 3	⊣⊢		_						
7133	71331 STONO INLET - NORTH JETTY			0-3 mi	3-12 mi	i >12 mi	⊣⊢		-						
7121	71211 NORTH EDISTO - STONO INLET			0-3 mi	3-12 mi										
71221 SOUTH EDISTO - NORTH EDISTO			ro	0-3 mi	3-12 mi				_						
7123	71231 BAY POINT - SOUTH EDISTO			0-3 mi	3-12 mi				_						
7124	71241 CALIBOGUE SOUND - BAY POINT			0-3 mi	3-12 mi	-									
7125	251 GA BORDER - CALIBOGUE SOUND			0-3 mi	3-12 m	i >12 mi			_						
70640	400 WINYAH BAY (Channel Net Season)						┥┝─		_						
	706500 NORTH SANTEE BAY (Channel Net Season)														
OTHER CATCH															
COD	E SPECIES	POUNI	_	AT PRICE	1	OTAL									
7001	Blue Crabs, #1														
7000	Blue Crabs, mixed														
1209	Flounder														
0925	-									FUEL		gal. @	\$		
1970										OIL					
4060										ICE					
8030			_		-					OTHER					
2720													TOTAL		
3840	-														
5260			Bu.				- 1 -								
1150	Sharks List Species Below	v	Du.				11								
\vdash	Guardia Technologia						11								
\vdash	1						11								
							11								
							11						Dealer/	Fisherman Use	
	•														

1 -

Revised 7/10 Fm-049 10-7142 SC Department of Natural Resources, Fisheries Statistics Section, P.O. Box 12559, Charleston, SC 29422-2559 (843) 953-9313 FAX (843) 953-9362



Figure 2. Annual commercial shrimp harvest and effort in South Carolina.

Figure 3. Species composition of the commercial shrimp harvest in South Carolina. Only brown (*Farfantepenaeus aztecus*) and white (*Litopenaeus setiferus*) shrimp were included do to the low percentages of other species. A majority of the catch is not reported on a species level so species composition is estimated using results from port sampling.

