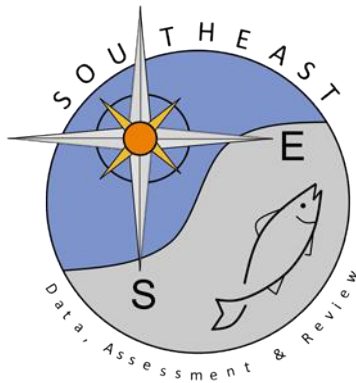


Commercial Landings of Gulf of Mexico Shrimp from Self-Reported Landings Survey 2005-2020

Rebecca Smith, Alan Lowther, Jo Williams

SEDAR87-DW-03

September 5, 2023



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:

Smith, R., Lowther, A., Williams, J. 2023. Commercial Landings of Gulf of Mexico Shrimp from Self-Reported Landings Survey 2005-2020. SEDAR87-DE-03. SEDAR, Miami, FL. 11pp.

SEDAR-87-DW-03

Commercial Landings of Gulf of Mexico Shrimp from
Self-Reported Landings Survey 2005-2020

Rebecca Smith*, Alan Lowther, Jo Williams

September 1, 2023

¹National Marine Fisheries Service, Southeast Fisheries Science Center, Fisheries Statistics Division, Survey Design, Data Management and Dissemination Branch

*Corresponding author: rebecca.smith@noaa.gov

Introduction

Commercial landings statistics are the quantities and value of seafood products caught by fishermen in the U.S. and sold to established (licensed) wholesale and retail seafood dealers. These data have been collected via an annual self-reported survey starting in 2005 to present for data collection associated with possession of a Gulf of Mexico Shrimp (SPGM) permit. Currently, there is a moratorium on commercial vessel permits for Gulf shrimp and applicable through October 26, 2026. The only valid commercial vessel permits for Gulf shrimp are commercial vessel moratorium permits for Gulf shrimp. In accordance with the procedures specified in the Fishery Management Plan for the Shrimp Fishery of the Gulf of Mexico (Gulf Shrimp FMP), all commercial vessel moratorium permits for Gulf shrimp have been issued. No additional permits will be issued. Vessels that want to fish and sell Gulf of Mexico Shrimp caught in the Gulf of Mexico federal waters must have this permit on board 50 CFR 622.50(a). Renewal of a commercial vessel moratorium permit for Gulf shrimp is contingent upon compliance with the recordkeeping and reporting requirements for Gulf shrimp specified in § 622.51(a)(4).

(4) ***Landings report.*** The owner or operator of a vessel for which a Federal commercial vessel permit for Gulf shrimp has been issued must annually report the permitted vessel's total annual landings of shrimp and value, by species, on a form provided by the SRD. Compliance with this reporting requirement is required for permit renewal.

Annually, these data are collected by NMFS Galveston Office by mailing the Landings survey to each valid and renewable SPGM permit holder to collect the previous year's total pounds and total dollar values for all commercial shrimp landed in Gulf of Mexico. In addition to the quantity and value, basic information on the gear used to catch the shrimp, the area where the fishing occurred and the total days at sea and total number trips are collected in a separate self-reported survey mailed to the same respondents. This Gear Characterization Survey referenced below is discussed in a separate working paper.

(3) ***Vessel and Gear Characterization Form.*** All owners or operators of vessels applying for or renewing a commercial vessel moratorium permit for Gulf shrimp must complete an annual Gulf Shrimp Vessel and Gear Characterization Form. The form will be provided by NMFS at the time of permit application and renewal. Compliance with this reporting requirement is required for permit issuance and renewal.

Methods

These self-reported commercial landings for Gulf of Mexico Shrimp, from now referred to as Shrimp landings, were compiled and accessed from an Oracle database housed at the Southeast Fisheries Science Center (SEFSC) in Miami, Florida. A materialized view in the database provides standardized and aggregated landings data (hereafter referred to as Shrimp landings). This is the first SEDAR utilizing Shrimp landings.

In April each year, NMFS Galveston Office mails the Landings survey to the full census of valid and renewable SPGM permits: a list provided to NMFS by the Southeast Regional Permit

Office (SERO). Each permit holder is required to return the completed survey prior to the expiration of the permit. The survey is nestled in the Southeast Region Permit Family of forms under OMB Control No. 0648-0205.

The Annual Landings Survey collects vessel landings from the previous year for each commercial shrimp species listed (below) in total pounds by condition of head off and/or head on; pounds and/or number of individual bait shrimp; and the total ex-vessel value of that specific species. Counting all shrimp pounds landed and value in ports on the Gulf of Mexico (Texas, Louisiana, Mississippi, Alabama, west coast of Florida including the Keys) regardless of where the shrimp were caught (including from bays, bayous, State inshore and offshore waters, or U.S. Federal waters exclusive economic zone (EEZ)).

Commercial Shrimp species:

- (1) Brown shrimp, *Farfantepenaeus aztecus*.
- (2) White shrimp, *Litopenaeus setiferus*.
- (3) Pink shrimp, *Farfantepenaeus duorarum*.
- (4) Royal red shrimp, *Hymenopenaeus robustus*.
- (5) Rock shrimp, *Sicyonia brevirostris*.

Stock Boundary

Commercial landings for Gulf of Mexico Shrimp were compiled from Texas through West Florida (Figure 1). This boundary follows the Gulf of Mexico Fisheries Management Council (GMFMC) boundary which is a line from Riley's Hump, the Tortugas and US 1, where the North of US1 is assigned to the GMFMC and South of US 1 is considered outside of the GMFMC region and is assigned to the South Atlantic FMC region.

Gear Groups

Gear Characterization for these data are collected in a separate self-reported survey and discussed in a separate working paper.

Data Compilation

The Southeast Fisheries Science Center (SEFSC) maintains a view in ORACLE of all data based on best practices. All data housed within ORACLE are self-reported landings from 2005-2020.

This is the first SEDAR where shrimp landings from this annual survey have been provided.

Results

Total heads-off pounds of commercial Shrimp landings by species are provided in Table 1. In order to calculate total head-off pounds, all heads-on pounds reported were converted to heads off using the recommended conversion factors used by NMFS. (Kutkuhn, 1962).

The data collected from the self-reported Landings survey provided here remain the same with the exception of certain years which have been impacted by changes to the data compilation methodology detailed below.

Changes made to the Landings Survey:

- The SPGM permit came into effect in 2006. NMFS started collecting the Shrimp landings survey in 2008. Therefore, NMFS collected the years of 2005, 2006 and 2007 at the same time during the year of 2008. Thereafter, each year's mailing of the survey was for the previous year's catch and values.
- For the years 2005, 2006, 2007 and 2008, the Landings survey collected Fishing Year Start and End dates. Starting in 2009, these variables were no longer collected, and all catch was considered to be for the full calendar year (January – December).

Literature Cited

Kutkuhn, Joseph H. 1962. Conversion of "whole" and "headless" weights in commercial Gulf of Mexico shrimps. *Special Scientific Report--Fisheries No. 409*. Special Scientific Report--Fisheries No. 409. 7 p. U. S. Fish and Wildlife Service.

Tables

Table 1. Total Heads-off weight for brown, pink, and white shrimp, 2005-2020, from annual shrimp landings survey.

Year	Heads-off pounds			Total
	Brown	Pink	White	
2005	33,856,762	4,728,122	28,407,268	66,992,151
2006	55,652,447	5,046,910	40,681,821	101,381,179
2007	45,402,386	3,583,098	35,905,553	84,891,036
2008	32,928,563	5,720,515	35,196,947	73,846,024
2009	58,840,517	4,774,440	44,129,396	107,744,353
2010	34,918,388	5,549,671	26,663,209	67,131,268
2011	47,908,601	4,574,465	30,749,771	83,232,837
2012	49,508,571	3,573,824	34,108,921	87,191,316
2013	44,220,669	4,054,075	27,936,477	76,211,221
2014	46,123,837	6,608,096	27,390,702	80,122,636
2015	53,395,155	6,005,056	31,092,873	90,493,084
2016	39,564,583	5,972,653	36,638,326	82,175,563
2017	47,930,880	11,479,125	40,902,651	100,312,655
2018	52,026,893	11,116,653	31,844,002	94,987,548
2019	34,953,237	7,688,379	36,613,617	79,255,233
2020	37,992,588	7,659,600	34,020,410	79,672,599

Figures

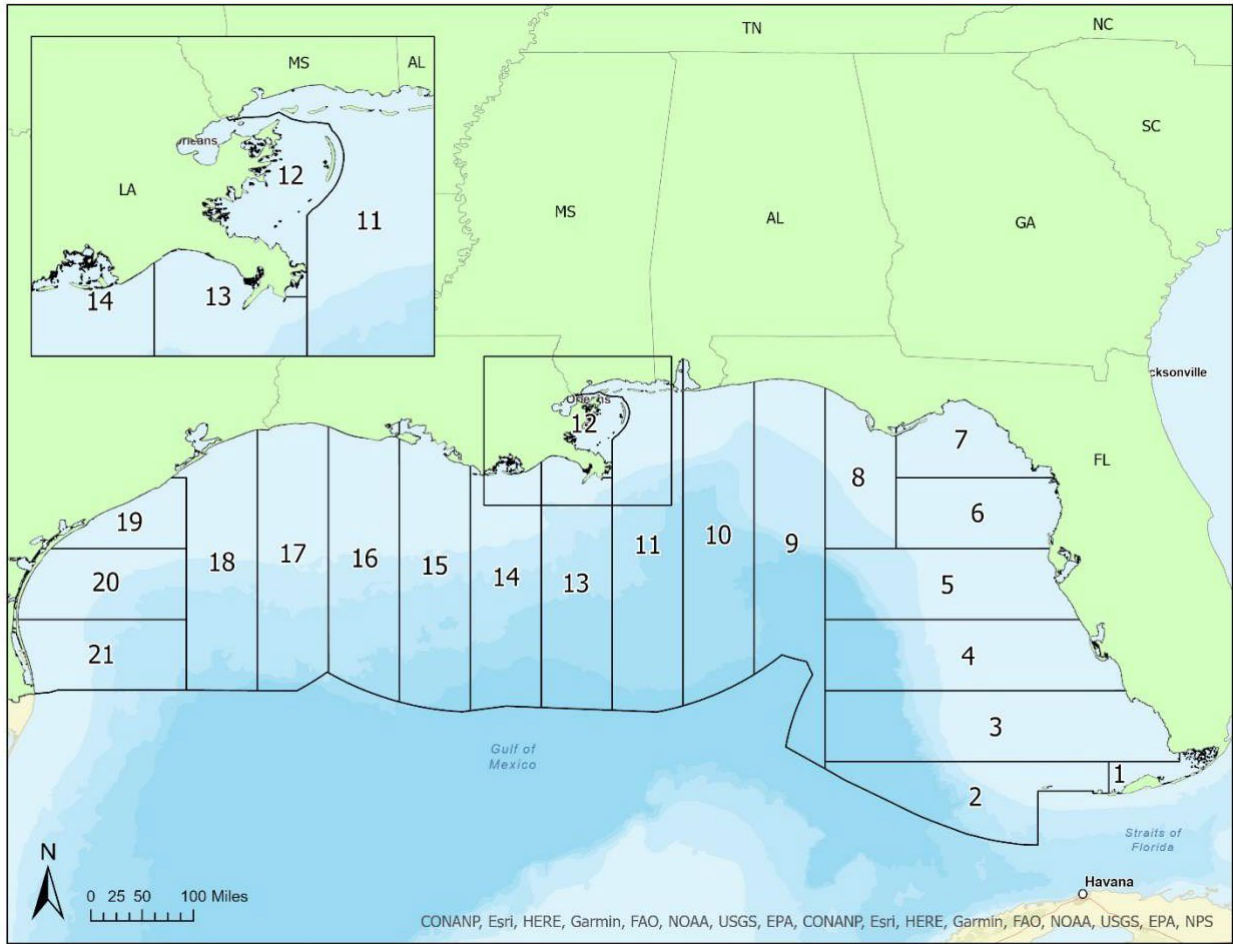


Figure 1. Gulf of Mexico commercial fishing areas

Appendix

Sample of current 2022 Annual Landings Survey Form including instruction page.

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Marine Fisheries Service
Southeast Fisheries Science Center
4700 Avenue U
Galveston, TX 77551



2022

GULF SHRIMP LANDINGS REPORT

INSTRUCTIONS

Please Note: It is **REQUIRED** that the following form be returned in order to be eligible to renew your **FEDERAL PERMIT FOR HARVESTING SHRIMP IN THE EXCLUSIVE ECONOMIC ZONE (EEZ)** of the Gulf of Mexico.

- 1 Attached is the *Gulf of Mexico Shrimp Federal Permit Reporting Form*. The owner of the federal permit listed is required to report all calendar year 2022 Gulf shrimp landings by the permitted vessel.
- 2 Please check that the owner and vessel information at the top of the page is correct. If not, please clearly print the correct information in the white space.
- 3 If the vessel associated with this permit did not land ANY Gulf shrimp in 2022, please check the "Not Shrimping" box, skip the table and sign the form.
- 4 If the vessel landed ANY Gulf shrimp in 2022, please fill in the table. For each species listed, enter the landings either as:
 - a. pounds by condition of head off and/or head on OR
 - b. pounds and/or number of individual bait shrimp AND
 - c. total ex-vessel value of that species.

Count ALL shrimp landed at ports on the Gulf of Mexico (Texas, Louisiana, Mississippi, Alabama, west coast of Florida including Keys) regardless of where they were caught (including from bays, bayous, State inshore and offshore waters, or Federal waters (EEZ)).

Missing entries in the table will be interpreted as ZERO landings or value in that category in 2022.

- 5 Sign the Form.

Mail the completed form in the enclosed postage paid Business Reply Envelope to the following address:
NOAA Fisheries Galveston Laboratory, Attention: Rebecca Smith, 4700 Avenue U, Galveston, TX 77551. If you have a question regarding the form, please email – rebecca.smith@noaa.gov.

[Please DO NOT add any additional postage, certified mail, return receipt request, etc. to the Business Reply Envelope because the US Postal Service will not deliver it to us.]

Incomplete or illegible forms will be returned.

If you have a question regarding the form, please email – Rebecca.Smith@noaa.gov

2022 Gulf Shrimp Landings Report

Gulf of Mexico Shrimp Federal Permit Reporting Form

Permit #:

Permit Holder Name:

Vessel Name:

State Registration #:

USCG Vessel ID:

Please provide any missing or incorrect information in the above heading.

For the vessel listed above, please report the **total shrimp landings in 2022** landed in ports on the Gulf of Mexico, **regardless where the shrimp were caught** (including from bays, bayous, State inshore and offshore waters, or Federal waters). In the table below, please provide landings by shrimp species and the ex-vessel value of shrimp by species.

Not Shrimping: Check box, if the vessel associated with permit **DID NOT land ANY shrimp** in the Gulf of Mexico in 2022.

Shrimp Species	Head OFF Pounds	Head ON Pounds	Bait by Individual	Bait By Pounds	Total Value (\$)
Brown	_____	_____	_____	_____	_____
Pink	_____	_____	_____	_____	_____
White	_____	_____	_____	_____	_____
Rock	_____	_____	_____	_____	_____
Seabob	_____	_____	_____	_____	_____
Royal Red	_____	_____	_____	_____	_____
Other Shrimp	_____	_____	_____	_____	_____

Authorized Signature: _____

Public reporting burden for this collection of information is estimated to average 5 minutes per response including the time for reviewing the instructions, searching the existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspects of this burden to Rebecca Smith, National Marine Fisheries Service, 4700 Ave U, Galveston, Texas 77551. This reporting is required under and is authorized under 50 CFR 622.5(a)(1)(iii). Information submitted will be treated as confidential in accordance with NOAA Administrative Orders. Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with, a collection of information subject to the requirements of the Paperwork Reduction Act, unless that collection displays a currently valid OMB Control Number. The NMFS requires this information for the conservation and management of marine fishery resources.

KNOWINGLY SUPPLYING FALSE INFORMATION IS A VIOLATION OF FEDERAL LAW PUNISHABLE BY A FINE AND/OR IMPRISONMENT. All data submitted will be handled as confidential material in accordance with NOAA Administrative Order 216-100, Protection of Confidential Fishery Statistics.