

**LOUISIANA COMMERCIAL SHRIMP DEALERS: ANALYZING POINT OF FIRST
SALES DATA FOR THE LOUISIANA COMMERCIAL SHRIMP SECTOR: 2000 - 2009
WITH AN EXAMINATION OF CHANGES IN FIRST RECEIVERS' ACTIVITIES AFTER
HURRICANES KATRINA & RITA IN 2005 AND GUSTAV & IKE IN 2008**

National Oceanic and Atmospheric Administration (NOAA)
Award Number NA06NMF4540319 / Sub-Award Number CR-M-022-2006-01

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August, 2012

ACKNOWLEDGEMENTS

This report would not have been possible without the cooperation of numerous individuals at the Louisiana Department of Wildlife and Fisheries. Latika Bharadwaj, David R. Lavergne and Ebenezer O. Ogunyinka would like to thank the following individuals: John Roussel, Karen Foote, Joey Shepard, Marty Bourgeois, Harry Blanchet, Jim Hanifen, Jack Isaacs, Mike Harden, Michelle Kasprzak, Janis Landry, Bobby Savant and Lois Azzarello, and everybody in the Louisiana Department of Wildlife and Fisheries Marine Fisheries Division and Licensing Section who helped in this effort.

This project was sponsored, in part, by funds National Oceanic and Atmospheric Administration Grant Award Number: NA06NMF4540319 / GSMFC Sub Award Number: CR-M-022-2006-01

The Louisiana Department of Wildlife and Fisheries follows a non-discriminatory policy in programs and employment.

Chapter1.

1.1 Introduction

This report examines the participation and activities of licensed commercial seafood dealers that purchased shrimp directly from commercial fishermen between 2000 and 2009. The findings of this report are derived from data obtained in the Louisiana trip ticket program, a mandated recording program in which seafood dealers report the quantity and value of seafood that they buy directly from commercial fishermen to the Louisiana Department of Wildlife and Fisheries.

Data from the trip ticket program are regularly employed to determine the quantity of seafood species harvested commercially in the state. This report uses these data to compile a profile of the dealers who purchased shrimp in Louisiana between 2000 and 2009. It also examines changes and trends in the volume and dockside value of saltwater finfish with special attention paid to changes experienced after hurricanes Katrina and Rita in 2005 and hurricanes Gustav and Ike in 2008.

This report is part of a series of reports that examines the activities of commercial seafood dealers in Louisiana. Other reports in this series include a general overview of commercial seafood dealers and separate studies of dealers that purchased shrimp, oysters, saltwater finfish, and freshwater finfish.

1.2 Purpose of This Study

This study is part of an on-going project by Louisiana Department of Wildlife and Fisheries to monitor the recovery of fisheries from the impacts of the hurricanes Hurricane Katrina and Rita in 2005. After the incidence of hurricanes Gustav and Ike in September 2008, the scope of the report was expanded to analyze the commercial seafood dealers' activities following all four hurricanes. Specifically, objectives of the study are:

1. To better understand the impacts of hurricanes on seafood dealers operating in Louisiana's shrimp industry by using the Louisiana Department of Wildlife and Fisheries "trip ticket" data to track purchases by seafood dealers in the years before and after the hurricanes. The report presents analysis related to the volume and dockside value of crabs purchased by seafood dealers from 2000 to 2009.

2. To analyze the diversity of the size of shrimp dealers' operations by dividing dealers into different shrimp volume categories defined by the volume (in pounds) of shrimp they purchased in a given year. The report observes trends within and across categories from 2000 to 2009.
3. To explore the structure of the Louisiana shrimp dealer sector by examining dealers that hold different types of commercial seafood dealer license issued by Louisiana Department of Wildlife and Fisheries and the volume and dockside value of saltwater finfish that they purchased (at the point of first sale) from commercial fishermen in Louisiana from 2000 to 2009.
4. Discussion of trends in shrimp dealer activity in southeast Louisiana and southwest Louisiana.

The analyses will aid in understanding observable changes in Louisiana commercial seafood dealers' activities before and after the 2005 and 2008 hurricanes.

1.3. Commercial Seafood Dealers

A commercial seafood dealer is defined conceptually by the function it performs in the marketing chain and technically by the type of license it holds that grants it the legal right to perform that function. Functionally, a commercial seafood dealer is defined as any person, business, or other entity that purchases seafood directly from commercial fishermen for later resale. The term "dealer" may be applied to a wide array of diverse individuals and firms including, but not limited to, docks that buy seafood from fishermen and sell it to processors; seafood processors that buy some portion of the raw product directly from fishermen; and roadside peddlers, seafood shops, restaurants, groceries, and other retailers who get some or all of their seafood products directly from fishermen. The common element is buying or obtaining seafood directly from commercial fishermen.

1.3.1. LDWF Licensed Commercial Seafood Dealers

In this report, a licensed commercial seafood dealer is defined as any person, business, or other entity that holds any of several types of commercial seafood retail/wholesale dealer license that grants them the legal privilege to buy seafood directly from commercial fishermen in Louisiana for later resale to another person, business, or other entity. The term "dealer" may also be applied to two additional license types, called "fresh products licenses", for commercial fishermen or their spouses who sell some portion of their seafood harvests at retail or directly to the public.

The Louisiana Department of Wildlife and Fisheries (LDWF) issues several different types of commercial seafood dealer licenses, a selected list of which may be found in Table 1.1. A more comprehensive discussion of the Louisiana seafood dealer licensing system is included in another report in this series: *Louisiana Commercial Fisheries: Analyzing Seafood Dealer Participation and Monitoring Recovery after Hurricanes Katrina and Rita in 2005 and Gustav and Ike in 2008*.

The LDWF commercial dealer license database contains information about each license holder (type of dealer license type, address, and a unique license number) that were used, anonymously and confidentially, in this report in conjunction with additional information in the Louisiana trip ticket program database described below.

Table 1.1. Selected List of Louisiana Commercial Seafood Dealer Licenses

License Title:	Appropriate for:	Label in This Report:
Resident Seafood Wholesale/Retail Dealer License - Business	Louisiana land-based businesses that buy seafood directly from commercial fishermen for later resale	Resident business seafood dealer
Resident Seafood Wholesale/Retail Dealer License - Vehicle	Louisiana businesses that buy seafood directly from commercial fishermen and sell that seafood to the public out of a vehicle	Resident vehicle seafood dealer
Resident Fresh Products Dealer License	Louisiana resident licensed resident commercial fishermen who wishes to sell his or her catch directly to the public	Resident fresh products dealer
Resident Fresh Products Dealer - Spouse License	Spouse of a Louisiana resident licensed resident commercial fishermen who wishes to sell his or her spouse's catch directly to the public	Resident fresh products spouse dealer
Non-Resident Seafood Wholesale/Retail Dealer License - Business	Out of state land-based businesses that buy seafood directly from commercial fishermen for later resale	Non-resident business seafood dealer

1.4. Louisiana Trip Ticket Program

Since 1999, commercial fishermen and licensed commercial seafood dealers have been required to report the volume and dockside value of commercial seafood landed in Louisiana as part of the Louisiana trip ticket program. Commercial seafood dealers and commercial fishermen must complete a record of the

quantity and dockside value of the seafood exchanged at the “point of first sale”. Variables included in the trip ticket report of each transaction include the identification of the species, the volume landed, and the amount paid to the commercial fisherman among others. Dealers submit a copy of the report for each transaction to the Louisiana Department of Wildlife and Fisheries. A comprehensive discussion of the Louisiana trip ticket program and the data it collects are included in another report in this series: *Louisiana Commercial Fisheries: Analyzing Seafood Dealer Participation and Monitoring Recovery after Hurricanes Katrina and Rita in 2005 and Gustav and Ike in 2008*.

The data pertaining to the quantity, value, and species of seafood purchased by each dealer were obtained from the trip ticket program and joined, anonymously and confidentially, with corresponding data regarding the location and license type of each dealer by a common variable, the unique commercial seafood dealer license number. Data were analyzed using a variety of statistical packages: SAS, STATA and Microsoft Excel.

1.4.1. Louisiana Trip Ticket Data Considerations

The volume of seafood recorded in trip ticket transactions is an output for commercial fishermen but an input for commercial seafood dealers. The volume of seafood that a dealer reported in the trip ticket program may not represent the total amount of seafood that it purchased, only the quantity that it purchased directly from commercial fishermen in Louisiana. The quantity of seafood that a dealer acquired from other sources, such as processors, distributors, other dealers, or commercial fishermen in other states, is not measured in Louisiana trip ticket transactions.

The value of the seafood traded and recorded in trip ticket transactions is here called “dockside value.” The term “dockside value” represents a source of revenue for commercial fishermen and an expenditure for commercial seafood dealers. The dockside value is a measure of the amount of money each dealer spent in buying seafood directly from commercial fishermen. It may not measure the total amount of

money a dealer spent in acquiring seafood because a dealer may have also purchased seafood from additional sources (processors, distributors, other dealers, or commercial fishermen outside Louisiana) that are not recorded in trip ticket transactions.

Only one of many potential expenditures that seafood dealers incur in operating their businesses, dockside value may not reflect a dealer's total expenses or costs of operation. Further, no inference regarding revenues, profits, or returns can be made from trip ticket data.

1.5. Hurricane Incidents in Louisiana in 2005 and 2008

Louisiana was hit by four hurricanes that had a considerable impact on the state's residents, coastal and marine resources, and commercial seafood sectors within the 2000-2009 study timeframe. This report will examine changes in select parameters of seafood dealer activity that are measured by trip ticket data.

Hurricane Katrina made landfall as a Category 3 near Buras, Louisiana, in Plaquemines Parish in the southeastern portion of the state on August 29, 2005. It continued northward and made landfall again near the Louisiana-Mississippi boundary (Knabb, Rhome, and Brown, 2005). Hurricane Rita made landfall on September 24, 2005 in southwestern Louisiana between Johnson's Bayou and Sabine Pass as a Category 3 hurricane (Knabb, Brown, and Rhome, 2006). This report may refer to hurricanes Katrina and Rita as "the 2005 hurricanes" or "the 2005 storms". It will also make reference to 2005 as "the hurricane year of 2005."

Hurricane Gustav was a Category 2 hurricane when it made landfall near Cocodrie, Louisiana, on September 1, 2008 (Beven and Kimberlain, 2009). Hurricane Ike made landfall near Galveston Bay, Texas on September 13, 2008 (Berg, 2009). The effects of both storms were felt in Louisiana. Hurricanes Gustav and Ike may be called "the 2008 hurricanes" or "the 2008 storms" in this report. The year 2008 may be called "the hurricane year of 2008".

1.6. Geographic Regions

This report examines the activities of shrimp dealers in three different regions of the state based on the location of the commercial seafood dealer license holder. The three regions of Louisiana are defined below (Figure 1.1):

- a) Southeast Louisiana which includes the following parishes: Ascension, Jefferson, Orleans, Plaquemines, Lafourche, Livingston, St. Bernard, St. Charles, St. James, St. John the Baptist, St. Tammany, and Tangipahoa.
- b) Southwest Louisiana which includes the following parishes: Acadia, Assumption, Avoyelles, Calcasieu, Cameron, Iberia, Iberville, Jefferson Davis, Lafayette, Pointe Coupee, St. Landry, St. Martin, St. Mary, Terrebonne, and Vermilion.
- c) Rest of Louisiana which all other parishes in the state.

The parishes in southeast Louisiana were affected disproportionately by Hurricane Katrina in 2005. The parishes in southwest Louisiana were disproportionately affected by Hurricane Rita in 2005 and Hurricane Ike in 2008. Hurricane Gustav in 2008 made landfall in south central Louisiana and affected parishes in both southeast Louisiana and southwest Louisiana.

The geographical delineation is based on the location of the commercial seafood dealer and not the place of residence of commercial fishermen or the area in which they harvested their commercial seafood products.

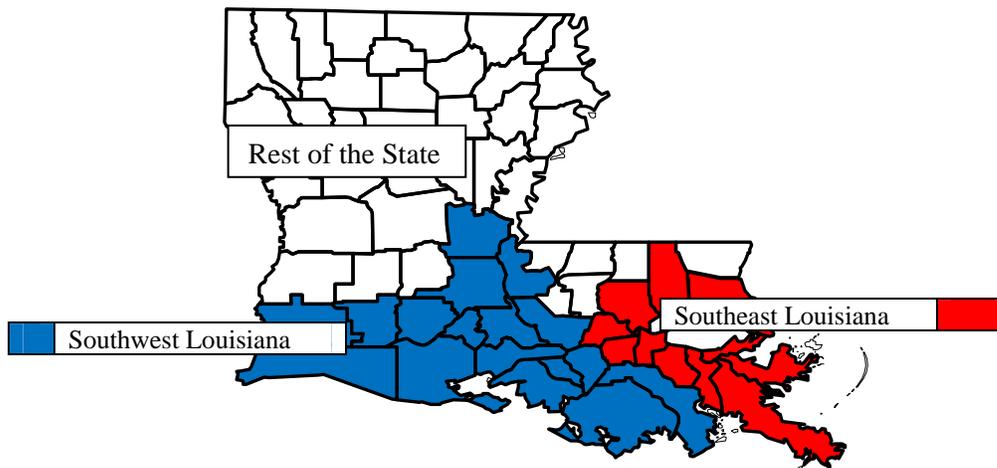


Figure 1.1. Designation of Southeast and Southwest Louisiana

1.6. Organization of the Study

This report is divided into six chapters. Chapter one outlined the background and objective of this study. Chapter two provides changes and trends for dealer participation and the volume and dockside value of purchases of commercial shrimp landings among all commercial seafood dealers from 2000 to 2009. Chapter three divides all commercial seafood dealers into shrimp volume categories based on the volume of shrimp that each purchased from commercial fishermen in a given year. Chapter four considers shrimp dealers in southeast Louisiana and southwest Louisiana, including a discussion of dealer activity among dealers with different license types in each region. Chapter five examines dealer activity among dealers that purchased brown shrimp and dealers that purchased white shrimp. Chapter six includes a summary and conclusions. Appendices contain summary tables of data examined in the report.

Chapter 2. Commercial Seafood Dealers in Louisiana That Purchased Shrimp

2.1. Introduction

Louisiana has regularly been one of the leading shrimp-producing states in the U.S. It generally ranks first in terms of volume and second in terms of dockside value (after Texas) in shrimp landings among all states. This chapter presents statistics related to the participation and activity of licensed commercial seafood dealers that purchased shrimp directly from commercial fishermen in Louisiana between 2000 and 2009.

2.2. Number of Active Shrimp Dealers

The number of “active shrimp dealers”, that is, licensed commercial seafood dealers that reported buying at least one pound of shrimp directly from commercial fishermen in a given year dropped from 370 in 2000 to 306 in 2001 but then climbed to 501 in 2003 and 512 in 2004, the year before hurricanes Katrina and Rita (Figure 2.1). The number of active shrimp dealers decreased to 393 in the hurricane year of 2005 but afterward climbed to 473 in 2006. The count dropped over the next two years, reaching 374 in the hurricane year of 2008. The number of active shrimp dealers increased to 494 in 2009.

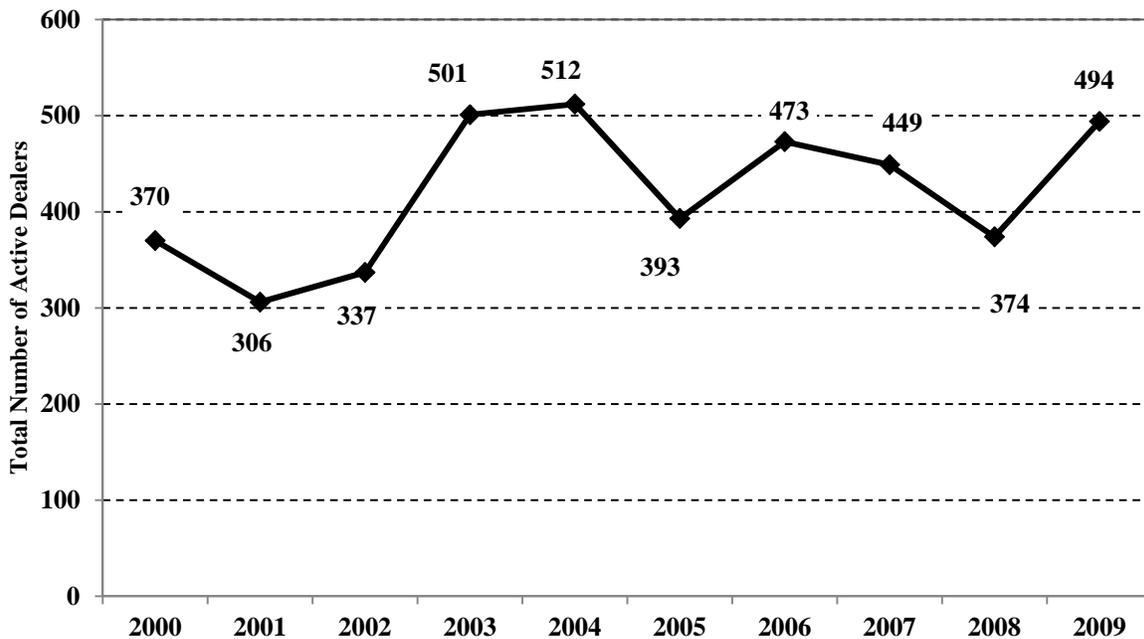


Figure 2.1. Number of Active Shrimp Dealers in Louisiana, By Year: 2000-2009

2.3. Volume and Dockside Value of Shrimp

In the five years before hurricanes Katrina and Rita in 2005, the volume of shrimp purchased by licensed commercial seafood dealers directly from commercial fishermen in Louisiana (Figure 2.2) fluctuated from a period maximum of 147.3 million pounds in 2000 down to 107.1 million in 2002 and then up to 134.0 million pounds in 2004. In the hurricanes year of 2005, volume fell to 102.3 million pounds. Volume climbed to 137.6 million pounds in 2006 but then declined to 110.7 million pounds in 2007. In the hurricane year of 2008, volume dropped to a period minimum of 95.0 million pounds. It then rose back to 2007 levels (110.9 million pounds) in 2009.

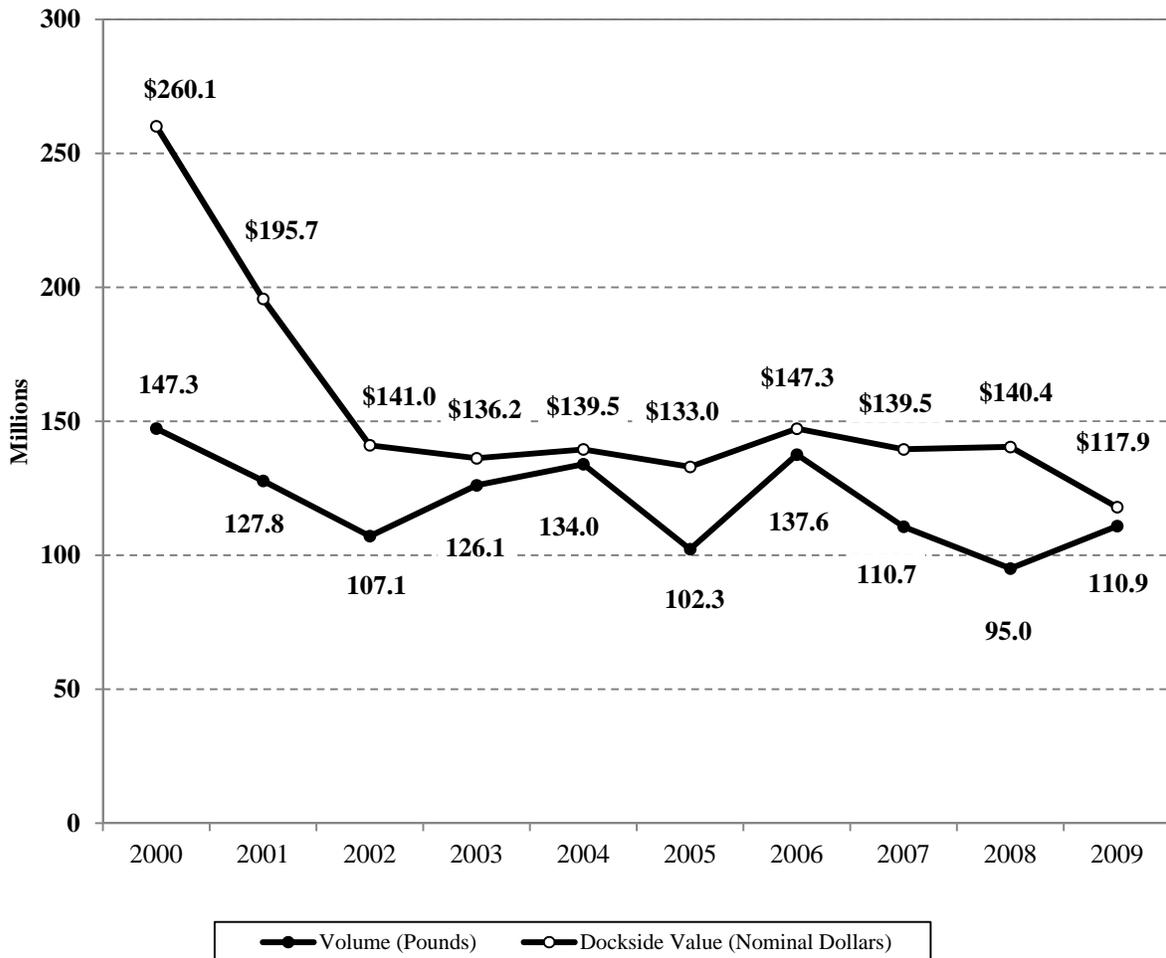


Figure 2.2. Cumulative Volume and Dockside Value of Shrimp Purchased by Louisiana Seafood Dealers Reported in Louisiana Trip Ticket Program, By Year 2000-2009

The dockside value of shrimp purchased directly from commercial fishermen by commercial seafood dealers in Louisiana (Figure 2.2) dropped from a period maximum of \$260.1 million in 2000 to \$141.0 million in 2002 and \$139.5 million in 2004, the year before hurricanes Katrina and Rita. In the hurricane year of 2005, dockside value slipped to \$130.0 million dollars. It rose in 2006, coinciding with an increase in volume, to \$147.3 million. Dockside value decreased to \$139.5 million in 2007 then increased moderately to \$140.4 million in the hurricane year of 2008. In 2009, dockside value decreased to a period minimum of \$117.9 million.

2.4. Average Nominal Dockside Price Paid for Shrimp

Average nominal dockside price per pound of shrimp was calculated by dividing the cumulative nominal dockside value for each year by the corresponding cumulative volume of shrimp purchased. The average nominal dockside price per pound of shrimp paid by commercial seafood dealers to commercial fishermen dropped from \$1.77 per pound in 2000 to \$1.04 in 2004 (Figure 23). In the hurricane year of 2005, the average dockside price rose to \$1.30 per pound of shrimp. The dockside price dropped in 2006 to \$1.07 per pound in 2006 but subsequently rose to \$1.26 per pound in 2007 and \$1.48 per pound in the hurricane year of 2008. The dockside price then dropped to \$1.06 per pound in 2009, the year of hurricanes Gustav and Ike.

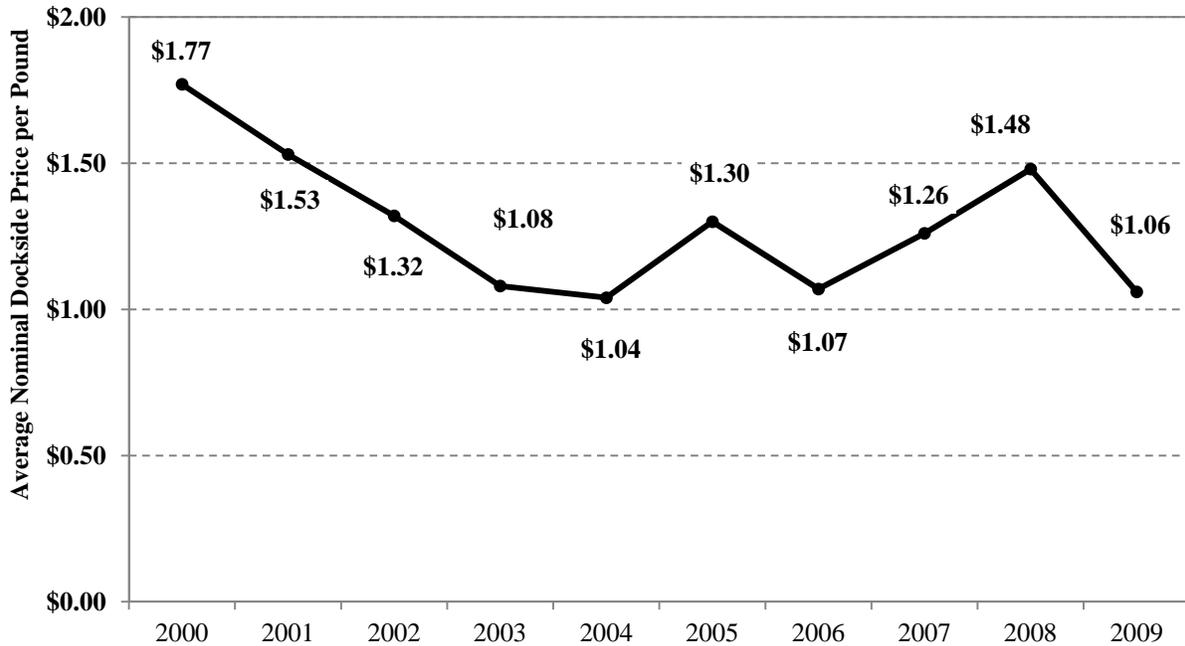


Figure 2.3. Average Nominal Price per Pound for Shrimp Purchased by Seafood Dealers in Louisiana According to the Louisiana Trip Ticket Program, By Year: 2000-2009

2.5. Percentage Changes in Active Dealer Numbers, Volume, and Docksider Value

The tables below (Tables 2.1, Table, 2.2, Table 2.3) show the percentage change of the relevant variable in one year (identified in the column header) relative to the “base year” identified at the start of each column. For example, in Table 2.1, the value in the “2006” row and the “2007” column (-5.1%) means the number of active shrimp dealers in 2007 (449) was 5.1 percent less than the number in 2006 (473). Similarly, in Table 2.3, the value in the “2004” row and the “2006” column (+5.6%) means the volume of shrimp purchased by dealers in 2006 (137,578,862 pounds) was 5.6 percent more than the volume in 2004 (133,974,004 pounds). (The table also shows that the number of active shrimp dealers in 2004 was 26.4 percent greater than the 2004 average. Volume in 2004 was 4.3 percent greater than the average volume between 2000 and 2004. Docksider value was 20.1 percent less than the 2000-2004 average docksider value.)

Table 2.1. Change in the Number of Active Shrimp Dealers in Specified Year as a Percentage of Number in Various Base Years

		2004	2005	2006	2007	2008	2009
Base Years	2000-2004 Average	+26.4%	-3.0%	+16.7%	+10.8%	-7.7%	+21.9%
	2004		-23.2%	-7.6%	-12.3%	-27.0%	-3.5%
	2005			+20.4%	+14.2%	-4.8%	+25.7%
	2006				-5.1%	-20.9%	+4.4%
	2007					-16.7%	+10.0%
	2008						+32.1%

Table 2. 2. Change in the Volume of Shrimp Purchased by Shrimp Dealers in Specified Year as a Percentage of Volume in Various Base Years

		2004	2005	2006	2007	2008	2009
Base Years	2000-2004 Average	+4.3%	-20.4%	+7.1%	-13.9%	-26.0%	-13.7%
	2004		-23.7%	+2.7%	-17.4%	-29.1%	-17.2%
	2005			+34.5%	+8.2%	-7.1%	+8.4%
	2006				-19.6%	-30.9%	-19.4%
	2007					-14.1%	+0.2%
	2008						+16.6%

Table 2.3. Change in the Dockside Value of Shrimp Purchased by Shrimp Dealers in Specified Year as a Percentage of Dockside Value in Various Base Years

		2004	2005	2006	2007	2008	2009
Base Years	2000-2004 Average	-20.1%	-23.8%	-15.6%	-20.0%	-19.5%	-32.4%
	2004		-4.6%	+5.6%	0.0%	+0.7%	-15.4%
	2005			+10.7%	+4.9%	+5.6%	-11.3%
	2006				-5.2%	-4.6%	-19.9%
	2007					+0.6%	-15.5%
	2008						-16.0%

Changes in shrimp dealer participation and activity following hurricanes Katrina and Rita can be examined by observing the percentage changes in volume, dockside value, and the number of active dealers in the hurricane year of 2005 and afterward to the values prior to the storms. The tables present two ways of making such a comparison by expressing the percentage change relative to measure in the single year before the storm (2004) and the percentage relative to the average values in the five-year period before the storm (2000 – 2004 average).

The number of active shrimp dealers in 2005 was 23.3 percent less than the number in 2004 and 3.0 percent less than the 2000-2004 average (Table 2.1). The number of active dealers remained below the

2004 count for the next several years. The number of active dealers in 2006 was 7.6 percent less and the number in 2007 was 12.3 percent below the number active in 2004.

A decrease in the number of active shrimp dealers represents a decrease in the number of firms buying shrimp in a particular year. It should not be interpreted as a permanent cessation of business. Some dealers may have shut down only temporarily and resumed buying oysters in later years. Other firms may have ceased buying shrimp from commercial fishermen but may bought them from alternative sources, such as other dealers or distributors, in transactions that do not require trip ticket reporting. Other firms may have ceased buying shrimp but continued buying and trading other species of seafood (such as oysters or crabs) or any other products from soup to nuts.

The volume purchased by active shrimp dealers in the hurricane year of 2005 was 23.7 percent less than the volume purchased in the year before the hurricane (Table 2.2) and 20.4 percent less than the 2000-2004 average volume. The volume in 2006 was 2.7 percent above the 2004 levels in 2006. The volume in 2007 was 17.4 percent below 2004 volume. Changes in the volume of shrimp may not be a product of hurricane damage alone. Other market and environmental factors may have contributed to the change in shrimp production.

The dockside value of shrimp purchased by active shrimp dealers (Table 2.3) in the hurricane year was 4.6 percent less than the 2004 value (but 23.6 percent less than the 2000-2004 average dockside value). In 2006, dockside value was 5.6 percent greater than 2004 value. A year later, in 2007, dockside value was roughly equivalent to the dockside value of 2004.

The change in dockside value may not be attributed to hurricane-related elements alone. Dockside value is the product of volume, which may vary due to a variety of natural and market factors, and price, which may also be related to national and international market forces quite separate from the hurricanes or other local conditions. Further, an increase (or decrease) in the dockside value of shrimp signifies an increase

(or decrease) in the value of the shrimp that dealers bought, an expenditure. A change in dockside value does not indicate a change in revenue or profit.

Changes in shrimp dealer participation and activity connected to hurricanes Gustav and Ike may be considered by examining the percentage changes in the number of active dealers and volume and dockside value of shrimp purchases in the hurricane year of 2008 and 2009 relative to the values for 2007, the year before hurricanes Gustav and Ike. The comparison is complicated by a number of factors, including the possibility that dealer variables in 2007 were themselves affected by hurricanes Katrina and Rita in 2005.

The number of active shrimp dealers in 2008 was 16.7 percent less than the number active in 2007, the year before hurricanes Gustav and Ike. In 2009 the number was actually 10.0 percent higher than the number active in 2007 (Table 2.1). An increase in the number of active shrimp dealers should not be equated with the creation or establishment of new businesses. Some firms may have begun or resumed purchasing shrimp on only a temporary basis.

The volume of shrimp purchased by active shrimp dealers in the hurricane year of 2008 was 14.1 percent less than the volume purchased in 2007 while the dockside value in 2008 was only 0.6 percent higher than the 2007 dockside value. The volume in 2009 was 0.2 percent greater and the dockside value in 2009 was 15.5 percent less than the corresponding measures for 2007.

Chapter 3.
Active Shrimp Dealers' Activities within Defined Shrimp Volume Categories

3.1. Delineation of Shrimp Volume Categories

The quantity of shrimp that dealers purchase often varies widely from dealer to dealer. A relatively large portion of the active shrimp dealer sector purchased a relatively small percentage of the total volume of shrimp. On the other hand, a relatively small percentage of the active shrimp dealer sector purchased large percentage of all the shrimp bought by shrimp dealers in Louisiana. This report divides all active shrimp dealers into five “shrimp volume” categories defined by the quantity of shrimp that dealers reported buying in a year in the Louisiana trip ticket program:

- (1) Less than 5,000 Pounds Category – All active shrimp dealers that purchased less than 5,000 pounds of shrimp in a particular calendar year
- (2) 5,000-100,000 Pounds Category - All active shrimp dealers that purchased between 5,000 and 100,000 pounds of shrimp in a particular calendar year
- (3) 100,000-500,000 Pounds Category-All active shrimp dealers that purchased between 100,000 and 500,000 pounds of shrimp in a particular calendar year
- (4) 500,000-1,000,000 Pounds Category- All active shrimp dealers that purchased between 500,000 and 1,000,000 pounds of shrimp in a particular calendar year
- (5) More than 1,000,000 Pounds Category - All active shrimp dealers that purchased more than 1,000,000 pounds of shrimp in a particular calendar year.

This chapter describes the number of active shrimp dealers within each shrimp volume category, the cumulative volume and dockside value of shrimp purchased by dealers within each shrimp volume category, and the average dockside price per pound that they paid for shrimp.

3.2. Less than 5,000 Pounds Category

In eight of the ten years in the 2000-2009 study time frame, the number of active shrimp dealers falling in the “less than 5,000 pounds” volume category constituted at least 60 percent of the active shrimp dealer sector in Louisiana. (They represented 51 percent of the sector in 2001 and 57 percent of the sector in 2002.) The total volume of shrimp purchased by dealers in this category was only 0.3 percent of the total volume of all shrimp purchased by all dealers between 2000 and 2009.

The number of active dealers in the “less than 5,000 pounds” volume category (Table 3.1) reached a period peak of 336 in 2004. The count dropped to 244 in the hurricane year of 2005 but then rose to just over 300 in 2006 and 2007. In the hurricane year of 2008, the number of dealers in this category fell to a period low of 224 in 2008. It rose to 315 in 2009.

The cumulative volume (Table 3.2) and dockside value (Table 3.3) of shrimp purchased by dealers in the “less than 5,000 pounds” category varied from 241.9 thousand pounds and \$556.2 thousand in 2000 down to 167.8 thousand pounds and \$405.1 thousand in 2001 up to 439.0 thousand pound and \$862.8 thousand in 2004. In the hurricane year of 2005 volume dropped to 271.5 thousand pounds and dockside value dropped to \$605.3 thousand. Volume and dockside value rose to 405.6 thousand pounds and \$864.2 thousand in 2007 and 388.5 thousand pounds and \$853.9 thousand among dealers in this volume category in 2007. In the hurricane year of 2008, volume fell to 300.5 thousand pounds and dockside value to \$789.6 thousand. Both measures rose to 409.8 thousand pounds and \$836.2 thousand in 2009.

The nominal price per pound of shrimp paid by dealers in the “less than 5,000 pounds” volume category was generally higher than that among any other volume category (Table 3.4). Price per pound of shrimp fell from \$2.30 per pound in 2000 to \$1.96 per pound in 2003 and rose to \$2.23 per pound in the hurricane year of 2005. Price per pound dropped to \$2.13 per pound in 2006 and rose over the next two years to reach \$2.66 per pound in the hurricane year of 2008. Price per pound among dealers in this category decreased to \$2.04 per pound in 2009.

Table 3.1. Number of Active Shrimp Dealers in Shrimp Volume Categories, By Year: 2000 – 2009

	Less than 5,000 lb.	5,000 – 100,000 lb.	100,000 – 500,000 lb.	500,000 – 1,000,000 lb.	More than 1,000,000 lb.
	Number of Active Dealers				
2000	224	46	30	17	53
2001	158	42	43	19	44
2002	194	51	39	21	32
2003	316	97	32	19	37
2004	336	96	22	18	40
2005	244	77	21	15	36
2006	302	108	10	14	39
2007	301	83	15	20	30
2008	224	83	21	17	29
2009	315	113	16	15	35

Table.3.2. Cumulative Volume of Shrimp Purchased by Active Shrimp Dealers in Shrimp Volume Categories, By Year: 2000 – 2009

	Less than 5,000 lb.	5,000 – 100,000 lb.	100,000 – 500,000 lb.	500,000 – 1,000,000 lb.	More than 1,000,000 lb.
	Thousands of Pounds				
2000	241.9	1,202.0	7,588.1	12,059.2	126,192.7
2001	167.8	923.0	13,101.6	14,349.4	99,246.8
2002	198.6	874.2	11,327.3	14,906.1	79,821.2
2003	377.9	1,722.9	8,985.2	14,129.1	100,901.8
2004	439.0	1,568.1	5,716.7	12,432.3	113,133.9
2005	271.5	1,699.8	6,470.6	10,904.1	82,930.1
2006	405.3	1,650.2	2,883.1	10,103.6	122,536.6
2007	388.5	1,369.6	4,217.5	14,580.0	90,097.3
2008	300.5	1,540.8	6,662.2	13,133.9	73,410.9
2009	409.8	1,765.2	4,074.0	10,378.5	94,246.1

Table.3.3. Cumulative Dockside Value of Shrimp Purchased by Active Shrimp Dealers in Shrimp Volume Categories, By Year: 2000 – 2009

	Less than 5,000 lb.	5,000 – 100,000 lb.	100,000 – 500,000 lb.	500,000 – 1,000,000 lb.	More than 1,000,000 lb.
	Thousands of Nominal Dollars				
2000	\$556.2	\$2,234.3	\$12,942.3	\$21,158.1	\$223,238.4
2001	\$405.1	\$1,762.6	\$22,029.5	\$19,726.8	\$151,752.4
2002	\$441.6	\$1,425.6	\$14,461.4	\$18,549.1	\$106,171.5
2003	\$741.8	\$2,457.9	\$8,335.8	\$14,812.3	\$109,860.7
2004	\$862.8	\$2,273.5	\$4,873.5	\$11,953.0	\$119,523.4
2005	\$605.3	\$2,680.3	\$7,444.5	\$11,779.5	\$110,497.6
2006	\$864.2	\$3,336.8	\$2,845.2	\$9,111.0	\$131,094.7
2007	\$853.9	\$2,663.0	\$4,653.6	\$14,408.2	\$116,949.6
2008	\$798.6	\$3,541.6	\$7,759.0	\$16,984.1	\$111,342.7
2009	\$836.2	\$3,804.4	\$4,311.2	\$8,566.0	\$100,420.3

Table.3.4. Average Nominal Dockside Price per Pound of Shrimp Purchased by Active Shrimp Dealers in Shrimp Volume Categories, By Year: 2000 – 2009

	Less than 5,000 lb.	5,000 – 100,000 lb.	100,000 – 500,000 lb.	500,000 – 1,000,000 lb.	More than 1,000,000 lb.
	Nominal Dollars per Pound				
2000	\$2.30	\$1.86	\$1.71	\$1.75	\$1.77
2001	\$2.41	\$1.91	\$1.68	\$1.37	\$1.53
2002	\$2.22	\$1.63	\$1.28	\$1.24	\$1.33
2003	\$1.96	\$1.43	\$0.93	\$1.05	\$1.09
2004	\$1.97	\$1.45	\$0.85	\$0.96	\$1.05
2005	\$2.23	\$1.58	\$1.15	\$1.08	\$1.33
2006	\$2.13	\$2.02	\$0.99	\$0.90	\$1.07
2007	\$2.20	\$1.94	\$1.10	\$0.99	\$1.30
2008	\$2.66	\$2.30	\$1.16	\$1.29	\$1.52
2009	\$2.04	\$2.16	\$1.06	\$0.83	\$1.07

3.3. 5,000 – 100,000 Pounds Category

The cumulative volume of shrimp purchased by dealers in the “5,000 – 100,000 pounds” volume category accounted for 1.2 percent of the total volume of shrimp purchased by all dealers between 2000 and 2009.

The number of dealers in this volume category (Table 3.1) rose from 46 in 2000 to 97 in 2003 and 96 in 2004. The category count fell to 77 in the hurricane year of 2005 then climbed to 108 in 2006. The number of dealers declined to 83 in 2007 and 2008 and then increased to a period maximum of 113 in 2009.

The cumulative volume of shrimp purchased by dealers in this category fell from 1.20 million pounds in 2000 to 874 thousand pounds in 2002 then climbed to 1.72 million pounds in 2002 (Table 3.2). The volume in the hurricane year of 2005 was 1.70 million pounds. Volume declined to 1.54 million pounds in the hurricane year of 2008 then rose to 1.77 million pounds in 2009.

Cumulative dockside value of shrimp purchased by dealers in the “5,000-100,000 pounds” volume category (Table 3.3) varied from \$2.23 million in 2000 down to \$1.43 million in 2002 up to \$2.46 million in 2003 and \$2.27 million in 2004. Category dockside value rose to \$2.68 million in the hurricane year of 2005 and \$3.34 million the following year. Dockside value dipped to \$2.66 million in 2007 but then climbed to level over \$3.5 million in 2008 and 2009.

The price per pound of shrimp paid by dealers in the “5,000 – 100,000 pound” volume category decreased from \$1.86 per pound in 2000 to \$1.43 per pound in 2003 and \$1.45 per pound in 2004 (Table 3.4). The price per pound rose to \$1.45 per pound in the hurricane year of 2005 then to \$2.02 per pound in 2006. Price per pound slid to \$1.94 per pound in 2007 but then increased to \$2.30 in the hurricane year of 2008 and \$2.16 per pound in 2009.

3.4. 100,000- 500,000 Pounds Category

The cumulative volume of shrimp purchased by dealers in the “100,000-50,000 pounds” volume category accounted for 5.9 percent of total volume of shrimp purchased by all shrimp dealers between 2000 and 2009. The number of dealers in this volume category declined from a period high of 43 in 2001 to 22 in 2004, 21 in the hurricane year of 2005, and 10 in 2006 (Table 3.1). The number rose to 21 in 2008 then slid to 16 in 2009.

The volume of shrimp among dealers in the “100,000-500,000 pounds” volume category decreased from a period maximum of 13.1 million pounds in 2001 to 5.72 million pounds in 2004 (Table 3.2). Category volume in the hurricane year of 2005 was 6.47 million pounds. Volume declined to 2.88 million pounds in 2006 but rose to 6.66 million pounds in the hurricane year of 2008 then declined to 4.07 million pounds in 2009.

The dockside value among dealers in this volume category fell from a period high of \$22.0 million in 2000 to \$4.87 million in 2004 (Table 3.3). Dockside value increased to \$7.44 million in the hurricane year of 2005 then decreased to \$2.85 million in 2006. Dockside value climbed to \$4.65 million in 2007 and \$7.76 million in 2008. Value fell to \$4.31 million in 2009.

The dockside value per pound of shrimp paid by dealers in the “100,000-500,000 pounds” shrimp volume category decreased from \$1.71 per pound in 2000 to \$0.85 per pound in 2004. Price per pound jumped to \$1.15 per pound in the hurricane year of 2005 but then decreased to \$0.99 per pound in 2006. Price per pound rose again to \$1.16 per pound in the hurricane year of 2008 and then dipped to \$1.06 per pound in 2009.

3.5. 500,000-1,000,000 Pounds Category

The cumulative volume of shrimp purchased by dealers in the “500,000-1,000,000 pounds” shrimp volume category was approximately 10.6 percent of the total volume of all shrimp purchased by active

shrimp dealers between 2000 and 2009. The number of active shrimp dealers in this volume category varied between 14 and 21 during the study timeframe (Table 3.1).

The cumulative volume of shrimp purchased by shrimp dealers in the “500,000-1,000,000 pounds” volume category was over 14 million pounds per year from 2001 to 2004 (Table 3.2). Category volume dropped to 12.43 million pounds in 2004 and 10.90 million pounds in 2005 and 10.10 million pounds in 2006. Volume climbed to 14.58 million in 2007 and subsequently declined to 13.13 million pounds in 2008 and 10.38 million pounds in 2009.

The cumulative dockside value of shrimp purchased by dealers in the “500,000-1,000,000 pounds” category decreased from \$21.16 million in 2000 to \$11.95 million in 2004 and \$11.78 million in the hurricane year of 2005 and \$9.11 million in 2006 (Table 3.3). Dockside value increased over the next two years to reach \$16.98 million in the hurricane year of 2008. In 2009 dockside value among dealers in this category was \$8.57 million.

The dockside value per pound of shrimp paid by dealers in the “500,000-1,000,000 pounds” shrimp volume category decreased from \$1.75 per pound in 2000 to \$0.96 per pound in 2004 (Table 3.4). Price per pound jumped to \$1.08 per pound in the hurricane year of 2005 but then decreased to \$0.90 per pound in 2006 and \$0.99 per pound in 2007. Price per pound rose again to \$1.29 per pound in the hurricane year of 2008 and then dipped to \$0.83 per pound in 2009.

3.6. More than 1,000,000 Pounds Category

The cumulative volume of shrimp purchased by dealers in the “more than 1,000,000 pounds” shrimp volume category amounted to 82.0 percent of the total volume of all shrimp purchased by all active shrimp dealers between 2000 and 2009. The number of shrimp dealers in this volume category fell from 53 in 2000 to 32 in 2002 and increased to 40 in 2004 (Table 3.1). The number of dealers in this category varied between 29 and 39 for the remainder of the period.

The volume of shrimp purchased by dealers in the “more than 1,000,000 pounds” category decreased from 126.2 million pounds in 2000 to 79.82 million pounds in 2002 (Table 3.2). Category volume rose to 113.13 million pounds in 2004. The volume decreased to 82.93 million pounds in the hurricane year of 2005, 122.54 million pounds in 2006, then dropped to 73.41 million pounds in the hurricane year of 2008. The volume of shrimp purchased by dealers in this volume category climbed to 94.25 million pounds in 2009.

The dockside value of shrimp purchased by shrimp dealers in the “more than 1,000,000 pounds” volume category (Table 3.3) decreased from a period maximum of \$223.24 million in 2000 to \$106.17 million in 2002 and then increased to \$119.86 million in 2004. Dockside value decreased to \$110.50 million in the hurricane year of 2005. Category dockside value spiked upward to \$131.10 in 2006 but then decreased to \$11.34 million in the hurricane year of 2008 and 4100.42 million in 2009.

The dockside value of shrimp purchased by shrimp dealers in the “more than 1,000,000 pounds” volume category (Table 3.3) decreased from a period maximum of \$223.24 million in 2000 to \$106.17 million in 2002 and then increased to \$119.86 million in 2004. Dockside value decreased to \$110.50 million in the hurricane year of 2005. Category dockside value spiked upward to \$131.10 in 2006 but then decreased to \$11.34 million in the hurricane year of 2008 and 4100.42 million in 2009.

The price per pound paid by shrimp dealers in the “more than 1,000,000 pounds” category (Table 3.4) fell from a period maximum of \$1.77 per pound in 2000 to a period minimum of \$1.05 per pound in 2004. In the hurricane year of 2005, price per pound of shrimp was \$1.33 per pound. Price per pound dropped to \$1.07 per pound in 2006, rose to \$1.52 per pound in the hurricane year of 2008, and then dropped back to \$1.07 per pound in 2009.

3.7. Percentage Changes in Volume and Dockside Value

To gain an appreciation of changes in shrimp dealer activity following hurricanes Katrina and Rita and hurricanes Gustav and Ike among dealers of different sizes, this section examines changes in the volume and dockside value among dealers in the two largest shrimp volume categories: dealers in the “500,000 – 1,000,000 pounds” category and the “more than 1,000,000” pounds category. The percentage changes in the number of dealers are not presented because the number of dealers was relatively small. As a result, relatively modest changes in the absolute number of dealers could produce relatively large percentage changes in the number of active dealers.

Other shrimp volume categories are excluded because they account for relatively small portions of total dealer purchases. Changes observed among these categories may not be representative of the broader shrimp dealer sector.

3.7.1. Percentage Changes in Volume and Dockside Value Following Hurricanes Katrina and Rita

Among shrimp dealers in the “500,000-1,000,000 pounds” category, the volume (Table 3.5) and dockside value (Table 3.6) of shrimp in the hurricane year of 2005 was 12.3 percent and 1.5 percent, respectively, lower than the corresponding measures in 2004. The volume and dockside value in 2006 were 18.7 percent and 23.8 percent, respectively, less than the volume and dockside value of 2004. In 2007, volume and dockside value of shrimp among dealers in this volume category were 17.3 percent and 20.5 percent greater than their 2004 estimates.

In the hurricane year of 2005, the volume (Table 3.6) and dockside value (Table 3.7) of shrimp purchased by dealers in the “more than 1,000,000 pounds” category were 27.1 percent and 7.6 percent less than the category value and dockside value in 2004. In the following year (2006), volume among dealers in this category was 7.7 percent higher and dockside value was 9.7 percent higher than the corresponding measures of 2004. In 2007, volume and dockside value were again lower than they were in 2004.

Table 3.5. Change in the Volume of Shrimp Purchased by Active Shrimp Dealers in the 500,000-1,000,000 Pound Shrimp Volume Category in Specified Year as a Percentage of Volume in Various Base Years

		2004	2005	2006	2007	2008	2009
Base Years	2000-2004 Average	-8.4%	-19.7%	-25.6%	+7.4%	-3.3%	-23.5%
	2004		-12.3%	-18.7%	+17.3%	+5.6%	-16.5%
	2005			-7.3%	+33.7%	+20.4%	-4.8%
	2006				+44.3%	+30.0%	+2.7%
	2007					-9.9%	-28.8%
	2008						-21.0%

Table 3.6. Change in the Dockside Value of Shrimp Purchased by Active Shrimp Dealers in the 500,000-1,000,000 Pound Volume Category in Specified Year as a Percentage of Dockside Value in Various Base Years

		2004	2005	2006	2007	2008	2009
Base Years	2000-2004 Average	-30.7%	-31.7%	-47.2%	-16.4%	-1.5%	-50.3%
	2004		-1.5%	-23.8%	+20.5%	+42.1%	-28.3%
	2005			-22.7%	+22.3%	+44.2%	-27.3%
	2006				+58.1%	+86.4%	-6.0%
	2007					+17.9%	-40.5%
	2008						-49.6%

Table 3.7. Change in the Volume of Shrimps Purchased by Active Shrimp Dealers in the More than 1,000,000 Pound Shrimp Volume Category in Specified Year as a Percentage of Volume in Various Base Years

		2004	2005	2006	2007	2008	2009
Base Years	2000-2004 Average	+9.4%	-20.3%	+17.8%	-13.4%	-29.4%	-9.4%
	2004		-27.1%	+7.7%	-20.8%	-35.5%	-17.2%
	2005			+47.8%	+8.6%	-11.5%	+13.6%
	2006				-26.5%	-40.1%	-23.1%
	2007					-18.5%	+4.6%
	2008						+28.4%

Table 3.8. Change in the Dockside Value of Shrimps Purchased by Active Shrimp Dealers in the More than 1,000,000 Pound Volume Category in Specified Year as a Percentage of Dockside Value in Various Base Years

		2004	2005	2006	2007	2008	2009
Base Years	2000-2004 Average	-15.9%	-22.2%	-7.8%	-17.7%	-21.6%	-29.3%
	2004		-7.6%	+9.7%	-2.2%	-6.8%	-16.0%
	2005			+18.6%	+5.8%	+0.8%	-9.1%
	2006				-10.8%	-15.1%	-23.4%
	2007					-4.8%	-14.1%
	2008						-9.8%

3.7.2. Percentage Changes in Volume and Dockside Value Following Hurricanes Gustav and Ike

In the hurricane year of 2008, the cumulative volume of shrimp purchased by dealers in the “500,000-1,000,000 pounds” volume category was 9.9 percent less than the volume purchased in 2007 (Table 3.5). The cumulative dockside value (Table 3.6) among dealers in this volume category in 2008 was 17.9 percent higher than the dockside value of one year earlier. In 2009, the volume of shrimp purchased by dealers in this category was 28.8 percent lower than the volume of 2007 while the dockside value was 40.5 percent lower than the dockside value of 2007.

Among shrimp dealers in the “more than 1,000,000 pounds” volume category, the volume (Table 3.7) and dockside value (Table 3.8) in 2005 were 18.5 percent and 4.8 percent lower, respectively, than the volume and dockside value of 2004. The volume in 2009 was 4.6 percent higher than 2007 volume but the dockside value was 14.1 percent lower than the 2007 dockside value.

Chapter 4. Active Shrimp Dealers in Southeast Louisiana and Southwest Louisiana

4.1. Introduction

This section examines differences in the participation and activity of active resident shrimp dealers based on the parish in which each is located. Statistics for the volume and dockside value of shrimp thus pertain to the dealers' location and not the area from which the shrimp were harvested.

The geographic divisions examined in this section are identical to the regions defined as southeast Louisiana and southwest Louisiana in Chapter 1 of this report (Figure 1.1). Southeast Louisiana roughly consists of 12 (primarily coastal) parishes from Lafourche Parish eastward to Mississippi state boundary. Southwest Louisiana is made up of 15 parishes, primarily coastal parishes from Terrebonne Parish westward to the Texas state boundary plus several parishes in the vicinity of the Atchafalaya Basin.

This chapter studies only those active shrimp dealers with resident commercial seafood dealer licenses and excludes those with non-resident commercial seafood dealer licenses. Because the volume of shrimp purchased by dealers with resident commercial seafood licenses accounted for 99 percent of the total volume of shrimp purchased by all types of dealers across the entire 2000-2009 study timeframe, the dealers examined here represent the vast majority of active shrimp dealers' activities.

4.2. Number of Active Shrimp Dealers by Region

The number of active shrimp dealers in southwest Louisiana has consistently been greater than the number in southeast Louisiana throughout the 2000-2009 study timeframe. The number of active shrimp dealers in southwest Louisiana (Figure 4.1) reached a period maximum of 287 in 2004, dropped to 210 in the hurricane year of 2005, climbed to 273 in the following year, and declined to 209 in 2008, and then rose to 264 in 2009.

The number of active shrimp dealers in southeast Louisiana attained a period maximum of 221 in 2003 then declined to 174 in the hurricane year of 2005 (Figure 4.1). The number of dealers in southeast Louisiana rose to 189 in 2006 but then declined to 151 in the hurricane year of 2008. The number of active southeast Louisiana shrimp jumped to 212 in 2009.

There are a small number of active shrimp dealers with addresses in the “rest of the state”, that is, parts of Louisiana outside the regions defined in this report as southeast or southwest Louisiana. The number has never been greater than 13 in any year within the study timeframe.

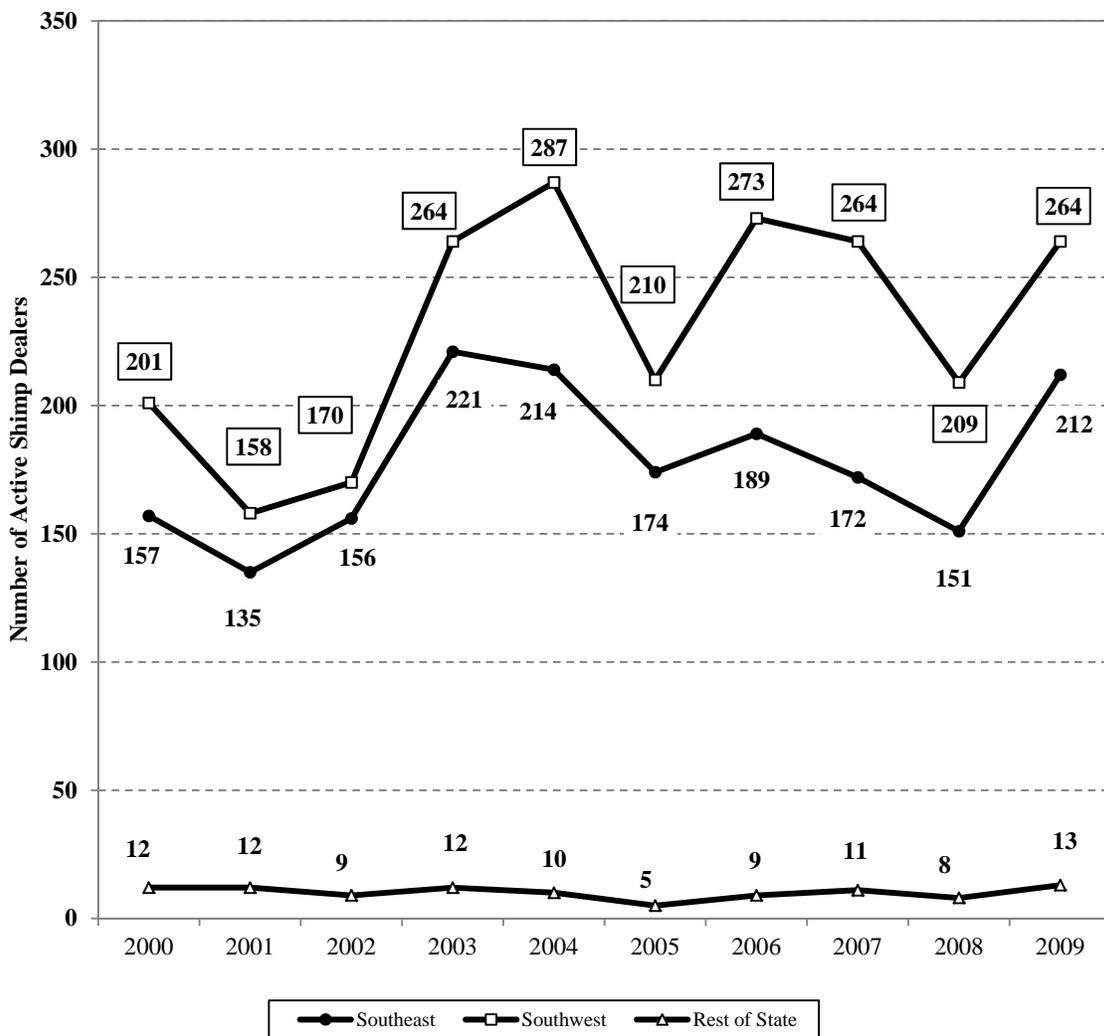


Figure 4.1. Number of Active Shrimp Dealers in Southeast and Southwest Louisiana, By Year: 2000 to 2009

4.3. Volume and Dockside Value of Shrimp by Region

Though there were more active shrimp dealers in southwest Louisiana than southeast Louisiana, the dealers in southeast Louisiana reported purchasing a larger volume and dockside value of shrimp than those in southwest Louisiana for all but one year in the study timeframe: the hurricane year of 2005.

4.3.1. Volume and Dockside Value among Dealers in Southeast Louisiana

Among southeast Louisiana dealers, volume fell from a regional period high of 78.0 million pounds in 2000 to 61.1 million pounds in 2002 then rose to 77.3 million pounds in 2004 (Figure 4.2). Volume fell to a regional period minimum of 50.2 million in the hurricane year of 2005. It increased to 75.5 million pounds in 2006 then decreased to 55.9 million pounds in the hurricane year of 2008 but rose to 62.1 million pounds in 2009.

The dockside value of shrimp purchased by southeast Louisiana dealers fell from \$135.4 million in 2000 to \$72.9 million in 2003 and \$77.0 million in 2004 (Figure 4.3). Dockside value for the region fell to \$63.5 million in the hurricane year of 2005 then climbed over the next few years to reach \$83.8 million in the hurricane year of 2008. In the following year, regional dockside value decreased to \$66.0 million.

4.3.2. Volume and Dockside Value among Dealers in Southwest Louisiana

The volume of shrimp purchased by dealers in southwest Louisiana fell from a regional period maximum of 68.7 million pounds in 2000 to 45.2 million pounds in 2002 (Figure 4.2). The regional volume rose to approximately 55 million pounds in 2003 and 2004 then declined to 52.0 million pounds in the hurricane year of 2005. The volume of shrimp in southwest Louisiana rose to 61.7 million pounds in 2006 and then declined to a period regional minimum of 37.8 million pounds in the hurricane year of 2008. In 2009, the volume among sealers in southwest Louisiana was 48.2 million pounds.

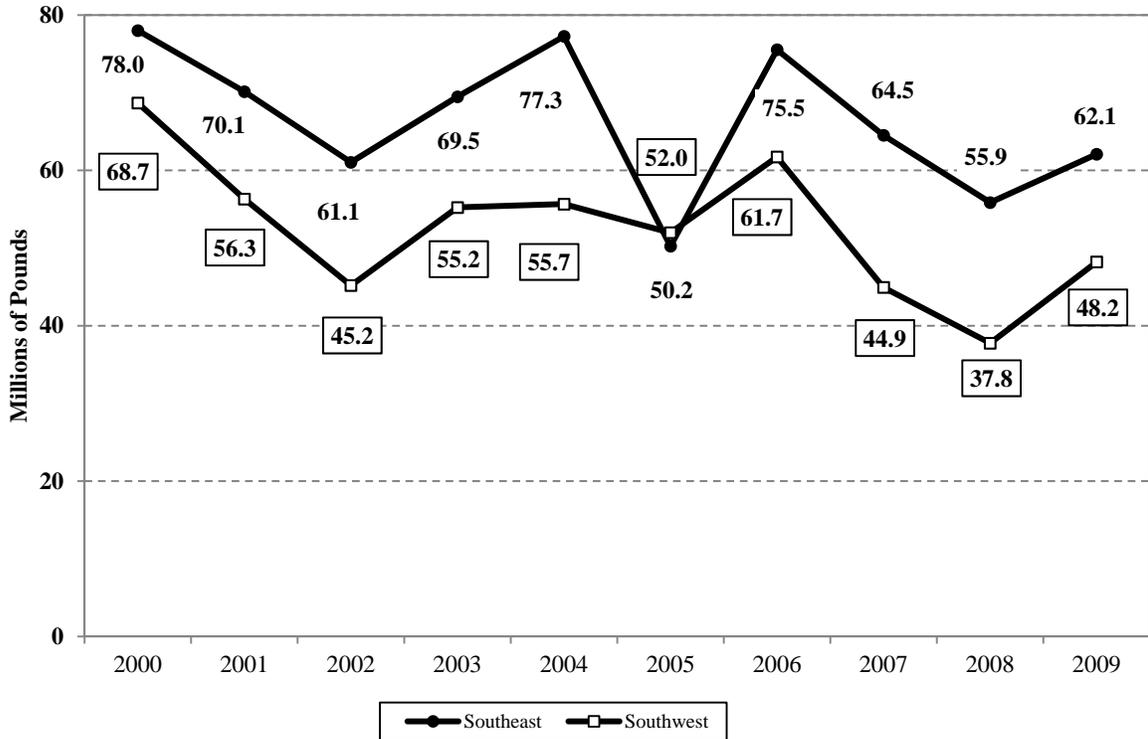


Figure 4.2. Volume of Shrimp Purchased by Active Shrimp Dealers in Southeast Louisiana and Southwest Louisiana as Reported in Louisiana Trip Ticket Program, By Year: 2000 - 2009

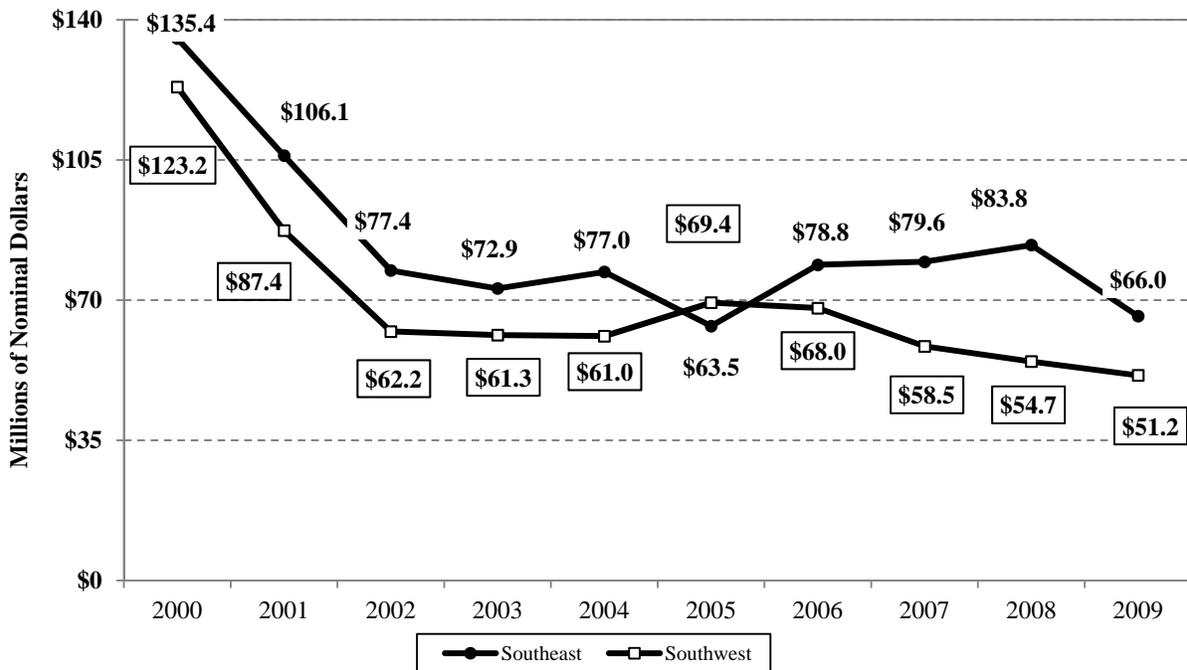


Figure 4.3. Dockside Value of Shrimp Purchased by Active Shrimp Dealers in Southeast Louisiana and Southwest Louisiana as Reported in Louisiana Trip Ticket Program: By Year, 2000 - 2009

The dockside value of shrimp purchased by dealers in southwest Louisiana dropped from \$123.2 million in 2000 to less than half as much, \$61.0 million in 2004 (Figure 4.3). The dockside value of shrimp in southwest Louisiana rose to \$69.4 million in the hurricane year of 2005 and to \$68.0 million in 2006. The regional dockside value declined over the next three years to \$51.2 million in 2009.

4.4. Average Nominal Dockside Price per Pound of Shrimp by Region

During the first eight years of the study timeframe, shrimp dealers in southwest Louisiana paid a higher average nominal dockside price per pound of shrimp than those in southeast Louisiana (Figure 4.5). In the hurricane year of 2008, southwest Louisiana shrimp dealers had a lower average dockside price (\$1.45 per pound) than southeast Louisiana shrimp dealers (\$1.50 per pound). In 2009, the average dockside price per pound was equal for dealers in both regions (\$1.06 per pound).

For dealers in southeast Louisiana, average price per pound dropped from a regional period maximum of \$1.74 per pound to \$1.00 per pound in 2004. The average price per pound in the region rose to \$1.26 per pound in the hurricane year of 2005. It fell to \$1.04 per pound in 2006 then climbed to \$1.50 per pound in the hurricane year of 2008 but decreased to \$1.06 per pound in 2009.

For dealers in southwest Louisiana, the average dockside price per pound declined from \$1.79 per pound in 2000 to \$1.10 per pound in 2004 and rose to \$1.33 per pound in the hurricane year of 2005. Average price per pound in southwest Louisiana dipped to \$1.04 per pound in 2006, climbed over the next two years to \$1.45 per pound in the hurricane year of 2008, and then dropped to \$1.06 per pound in 2009.

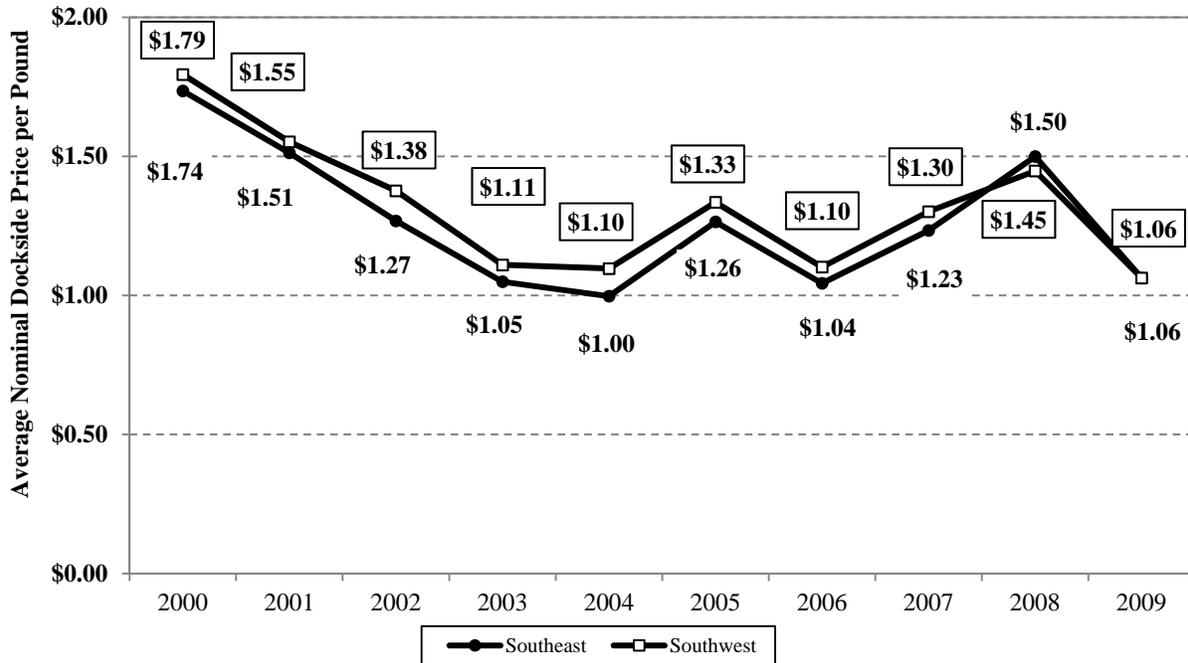


Figure 4.4. Nominal Dockside Price per Pound of Shrimp Purchased by Active Shrimp Dealers in Southeast Louisiana and Southwest Louisiana as Reported in Louisiana Trip Ticket Program, By Year: 2000 - 2009

4.5. Percentage Change in Active Dealers Numbers, Volume, and Dockside Value Following Hurricanes Katrina and Rita

This section presents estimates of the percentage changes in the number of active shrimp dealers and the volume and dockside value of the shrimp they purchased in the years following the 2005 storms relative to the corresponding measures in 2004. Though the region delineated as southeast Louisiana was disproportionately affected by Hurricane Katrina and the region labeled southwest Louisiana was disproportionately affected by Hurricane Rita, it is difficult to assess the extent to which any particular hurricane contributed to change in dealer activities in any specific region in a particular year.

4.5.1. Percentage Change in Active Dealer Numbers, Volume and Dockside Value among Dealers in Southeast Louisiana

Compared to the number of active dealers in southeast Louisiana in 2004, the number of dealers in the region in the hurricane year of 2005 was down 18.7 percent (Table 4.1). The numbers of active dealers in 2006 and 2007 were 11.7 percent and 19.6 percent, respectively, less than the number active in 2004.

The volume of shrimp purchased by southeast Louisiana dealers was down 35.0 percent relative to 2004 (Table 4.2). The volume in 2006 was 2.2 percent less than the volume of 2004. In 2007 volume in southeast Louisiana was down 16.5 percent relative to the regional volume in 2004.

The dockside value of shrimp bought by dealers in southeast Louisiana was 17.6 percent less than the dockside value of 2004 for the region (Table 4.3). In 2006, regional dockside value rose to a level 2.7 percent greater than the 2004 dockside value. In 2007, dockside value for southeast Louisiana was 3.3 percent above the dockside value in 2004 for dealers in southeast Louisiana.

Table 4.1. Change in Number of Dealers in Southeast Louisiana in Specified Year as a Percentage of Number in Various Base Years

		2004	2005	2006	2007	2008	2009
Base Years	2000-2004 Average	+21.2%	-1.5%	+7.0%	-2.6%	-14.5%	+20.0%
	2004		-18.7%	-11.7%	-19.6%	-29.4%	-0.9%
	2005			+8.6%	-1.1%	-13.2%	+21.8%
	2006				-9.0%	-20.1%	+12.2%
	2007					-12.2%	+23.3%
	2008						+40.4%

Table 4.2. Change in the Volume of Shrimp Purchased by Shrimp Dealers in Southeast Louisiana in Specified Year as a Percentage of Volume in Various Base Years

		2004	2005	2006	2007	2008	2009
Base Years	2000-2004 Average	+8.5%	-29.4%	+6.1%	-9.4%	-21.5%	-12.8%
	2004		-35.0%	-2.2%	-16.5%	-27.7%	-19.6%
	2005			+50.4%	+28.4%	+11.2%	23.6%
	2006				-14.6%	-26.1%	-17.8%
	2007					-13.4%	-3.8%
	2008						+11.2%

Table 4.3. Change in the Dockside Value of Shrimp Purchased by Shrimp Dealers in Southeast Louisiana in Specified Year as a Percentage of Dockside Value in Various Base Years

		2004	2005	2006	2007	2008	2009
Base Years	2000-2004 Average	-17.8%	-32.3%	-15.9%	-15.1%	-10.7%	-29.6%
	2004		-17.6%	+2.3%	+3.3%	+8.7%	-14.4%
	2005			+24.1%	+25.3%	+31.9%	+3.9%
	2006				+1.0%	+6.3%	-16.3%
	2007					+5.3%	-17.1%
	2008						-21.2%

4.5.2. Percentage Change in Active Dealer Numbers, Volume and Dockside Value among Dealers in Southwest Louisiana

The number of active shrimp dealers in southwest Louisiana in the hurricane year of 2005 was 26.8 percent less than the number active in the region in 2004 (Table 4.4). The numbers active in 2006 and 2007 were respectively, 4.9 percent and 8.0 percent less than the number active in the year before hurricanes Katrina and Rita.

In the hurricane year of 2005, the volume of shrimp purchased by dealers in southwest Louisiana was 6.6 percent less than the regional volume in 2004 (Table 4.5). In the following year, volume was 10.9 percent greater than the 2004 volume. In 2007, the volume was back down to a level 19.3 percent below the volume of 2004.

The dockside value of shrimp among southwest Louisiana dealers was 13.7 percent greater in the hurricane year of 2005 than in 2004 (Table 4.6). In 2006, dockside value for southwest Louisiana dealers was 11.5 percent the dockside value of 2004. In 2007, dockside value was 4.2 percent less than that of 2004.

Table 4.4. Change in the Number of Active Shrimp Dealers in Southwest Louisiana in Specified Year as a Percentage of Number in Various Base Years

		2004	2005	2006	2007	2008	2009
Base Years	2000-2004 Average	+32.9%	-2.8%	+26.4%	+22.2%	-3.2%	+22.2%
	2004		-26.8%	-4.9%	-8.0%	-27.2%	-8.0%
	2005			+30.0%	+25.7%	-0.5%	+25.7%
	2006				-3.3%	-23.4%	-3.3%
	2007					-20.8%	0.0%
	2008						+26.3%

Table 4.5. Change in the Volume of Shrimp Purchased by Shrimp Dealers in Southwest Louisiana in Specified Year as a Percentage of Volume in Various Base Years

		2004	2005	2006	2007	2008	2009
Base Years	2000-2004 Average	-1.0%	-7.5%	+9.8%	-20.0%	-32.8%	-14.2%
	2004		-6.6%	+10.9%	-19.3%	-32.1%	-13.4%
	2005			+18.8%	-13.5%	-27.4%	-7.3%
	2006				-27.2%	-38.8%	-21.9%
	2007					-16.0%	+7.3%
	2008						+27.7%

Table 4.6. Change in the Dockside Value of Shrimp Purchased by Shrimp Dealers in Southwest Louisiana in Specified Year as a Percentage of Dockside Value in Various Base Years

		2004	2005	2006	2007	2008	2009
Base Years	2000-2004 Average	-22.8%	-12.2%	-13.9%	-26.0%	-30.8%	-35.2%
	2004		+13.7%	+11.5%	-4.2%	-10.4%	-16.1%
	2005			-2.0%	-15.7%	-21.2%	-26.2%
	2006				-14.0%	-19.6%	-24.7%
	2007					-6.5%	-12.4%
	2008						-6.3%

4.6. Percentage Change in Active Dealers Numbers, Volume, and Dockside Value Following Hurricanes Gustav and Ike

This section presents estimates of the percentage changes in the number of active shrimp dealers and the volume and dockside value of the shrimp they purchased in the years following the 2008 storms relative to the corresponding measures in 2007. Hurricane Gustav disproportionately affected an area in central Louisiana that coincides with the eastern part of the area defined as southwest Louisiana and the western portion of the area defined as southeast Louisiana. Hurricane Ike had a disproportionate effect on sections of southwest Louisiana. Nevertheless, it is difficult to assess the extent to which any particular hurricane contributed to change in dealer activities in any specific region in a particular year.

4.6.1. Percentage Change in Active Dealer Numbers, Volume and Dockside Value among Dealers in Southeast Louisiana

In the hurricane year of 2008, the number of active dealers in southeast Louisiana was 12.2 percent less than the number active in the region in 2007 (Table 4.1). The number active in 2009 was 23.3 percent greater than the number active in 2007.

The volume of shrimp purchased by dealers in southeast Louisiana was 13.4 percent below the 2007 volume in the hurricane year of 2008 and 3.8 percent below 2007 volume in 2009 (Table 4.2).

Meanwhile, the dockside value of the shrimp purchased by dealers in the hurricane year of 2008 was 5.3 above the dockside value of 2007 (Table 4.3). In 2009, regional dockside value was 17.1 percent below the dockside value of 2007.

4.6.2. Percentage Change in Active Dealer Numbers, Volume and Dockside Value among Dealers in Southwest Louisiana

The number of active shrimp dealers in southwest Louisiana in the hurricane year of 2008 fell 20.8 percent below the number active in 2007 (Table 4.4). The number active in the region in 2009 was back to a number equal to that of 2007.

The volume of shrimp purchased by active southwest Louisiana shrimp dealers in 2008 was 16.0 percent below the regional volume of 2007 (Table 4.5). The volume for the region in 2009 was 7.3 percent above that of 2007.

The dockside value of shrimp among southwest Louisiana dealers in the hurricane of 2008 was 6.5 percent below that of the previous year (Table 4.6). In 2009, regional dockside value was 12.4 percent below the 2007 value.

4.7. Shrimp Dealer Activity in Southeast Louisiana by Resident License Type Category

Previous sections of this report examined various measures of shrimp dealer activity in southeast Louisiana: the number of active dealers (§4.2), the volume and dockside value of the shrimp they purchased (§4.3.1), the average dockside price they paid per pound of shrimp (§4.4), and percentage changes in shrimp dealers activity following hurricanes Katrina and Rita (§4.5.1) and hurricanes Gustav and Ike (§4.6.1). This section presents various measures of shrimp dealer activity for three different types of resident commercial seafood dealers in southeast Louisiana: active resident shrimp dealers, active resident vehicle shrimp dealers, and active resident fresh products shrimp dealers (Table 4.7).

Table 4.7. Definition of Various Types of Active Shrimp Dealers

Active Resident Business Shrimp Dealer	An individual or business that held a resident wholesale/retail dealer – business license and reported buying at least one pound of shrimp directly from a commercial fishermen on trip ticket reports in a particular year
Active Resident Vehicle Shrimp Dealer	An individual or business that held a resident wholesale/retail dealer – business license and reported buying at least one pound of shrimp directly from a commercial fishermen on trip ticket reports in a particular year
Active Resident Fresh Products Shrimp Dealer	An individual or business that held a resident fresh products license and reported at least one pound of shrimp on trip ticket reports in a particular year

For eight of the ten years in the study timeframe, there were more southeast Louisiana dealers in the resident business dealer category than any other single dealer license category (Figure 4.6). (The exceptions were 2006 and 2009 when fresh products dealers outnumbered resident business dealers in the region.) The number of resident business dealers in southeast Louisiana followed a general declining trend between 2000 and 2009 while the number of fresh products dealers in the region demonstrated an erratic upward trend. The number of active resident vehicle dealers was fairly stable throughout the period.

From 2001 to 2009, resident business dealers in southeast Louisiana paid a lower average nominal dockside price per pound of shrimp than other types of resident shrimp dealers (Figure 4.7). Resident fresh products dealers reported the highest average nominal dockside price per pound among all resident shrimp dealer types in southeast Louisiana.

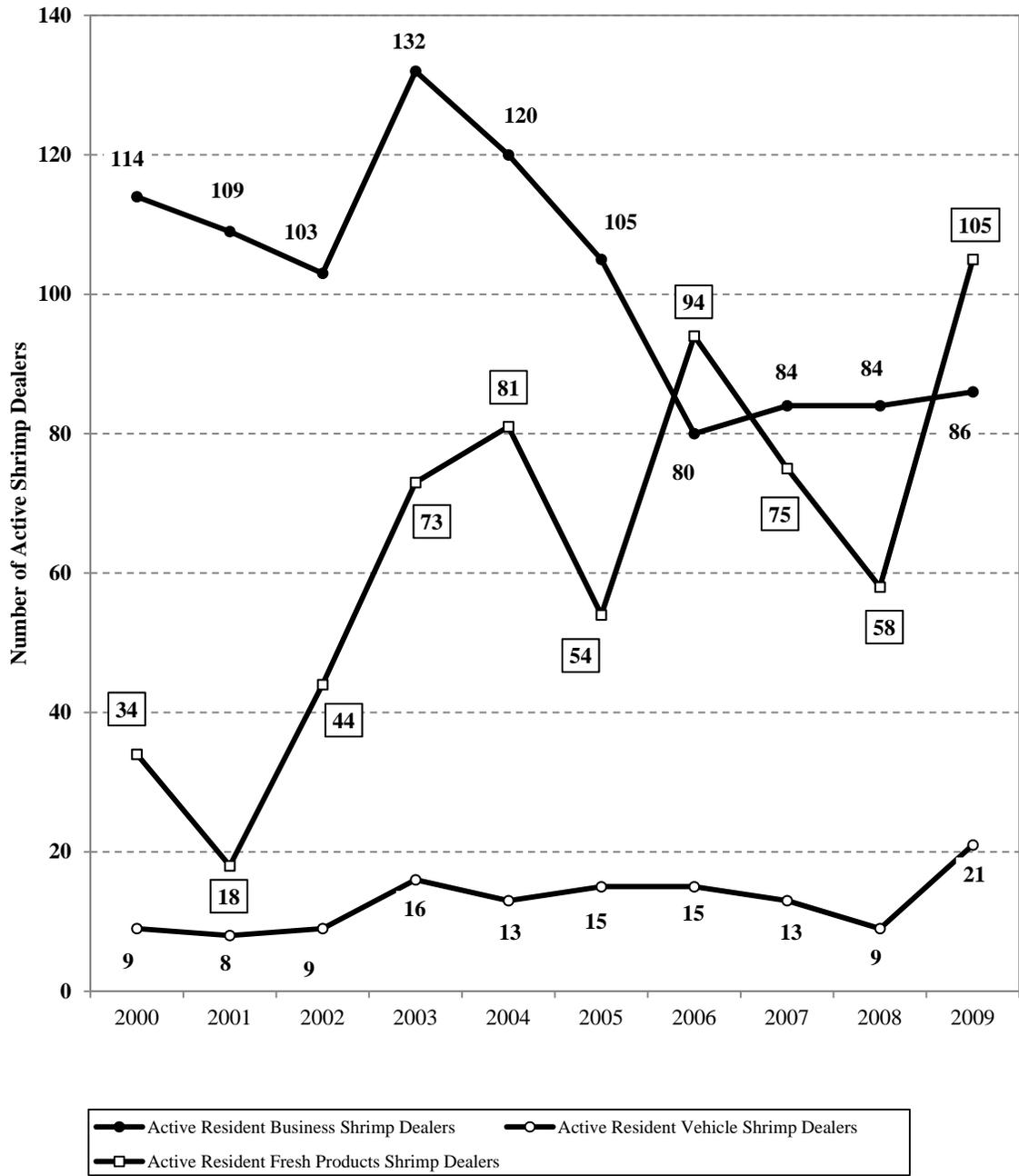


Figure 4.6. Number of Active Resident Shrimp Dealers in Southeast Louisiana by Seafood Dealer License Type, By Year: 2000-2009

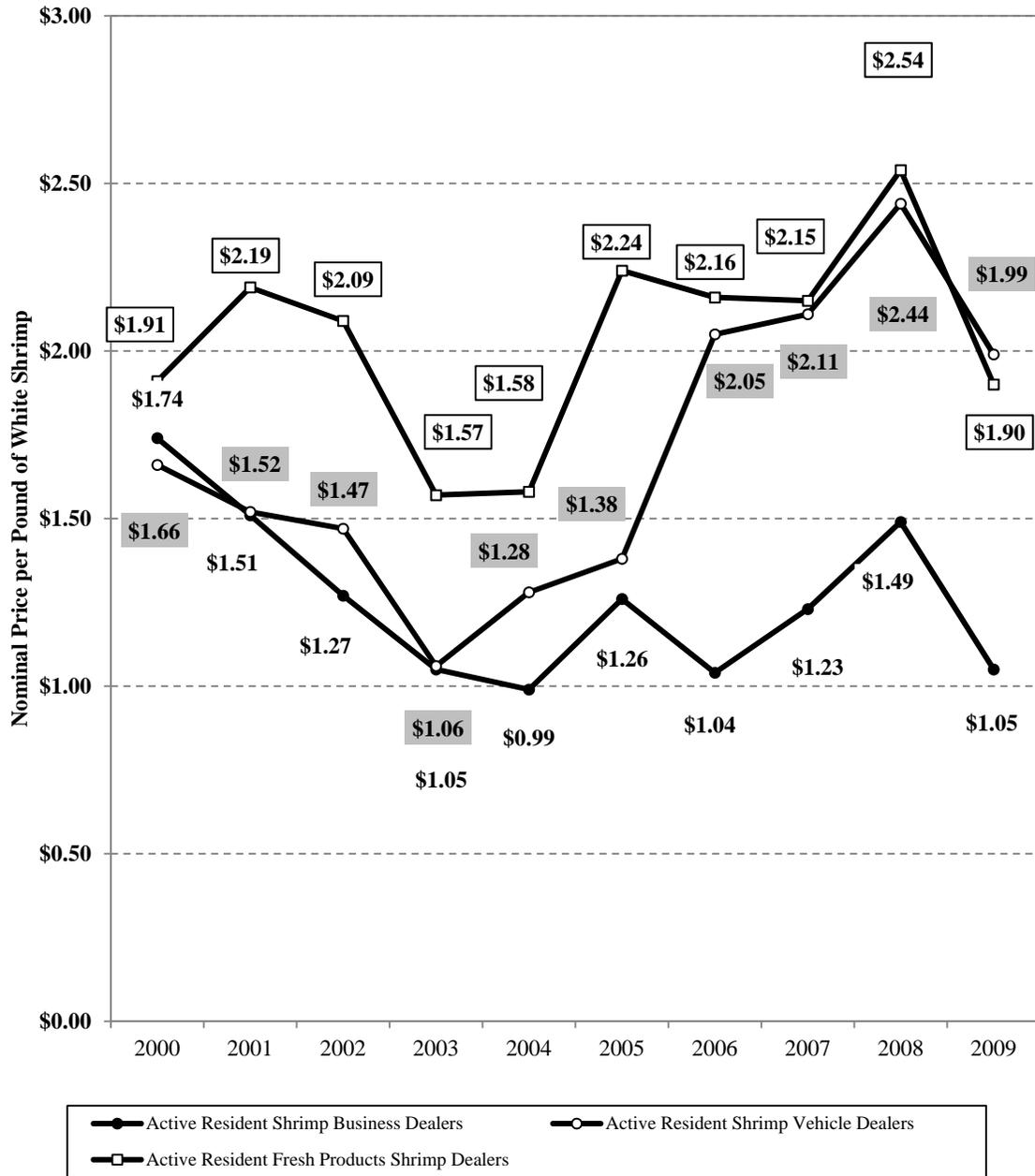


Figure 4.7. Price per Pound Paid for by Active Shrimp Dealers in Southeast Louisiana by Seafood Dealer License Type, By Year: 2000-2009

4.7.1. Resident Business Dealers in Southeast Louisiana

The number of active resident business shrimp dealers in southeast Louisiana varied from 114 in 2000 to 103 in 2002 up to 132 in 2003. Thereafter, the number of resident business shrimp dealers in the region declined to 106 in the hurricane year of 2005, 80 in 2008, and 86 in 2009 (Figure 4.6).

The volume of shrimp purchased by resident business shrimp dealers in southeast Louisiana fluctuated from 77.7 million pounds in 2000 to 60.8 million pounds in 2002 to 75.6 million pounds in 2004 (Figure 4.8). The volume fell to 48.8 million pounds in the hurricane year of 2005, jumped to 75.1 million pounds in 2006 and thereafter declined to 55.5 million pounds in the hurricane year of 2008 and 61.2 million in 2009.

The dockside value of shrimp purchased by resident business shrimp dealers in southeast Louisiana fell from \$134.8 million in 2000 to \$74.8 million in 2004 and \$60.8 million in the hurricane year of 2005 (Figure 4.8). Dockside value among dealers of this type in southeast Louisiana rose over the next three years to \$83.8 million in the hurricane year of 2008 but was down to \$64.5 million in 2009.

The average dockside price per pound of shrimp paid by resident business shrimp dealers in southeast Louisiana (Figure 4.7) fell from \$1.74 per pound in 2000 to \$0.99 per pound in 2004. Average price per pound among this type of dealer rose to \$1.26 per pound in the hurricane year of 2005, dropped to \$1.04 per pound in 2006, climbed to \$1.49 per pound in the hurricane year of 2008, and slipped to \$1.05 per pound in 2009.

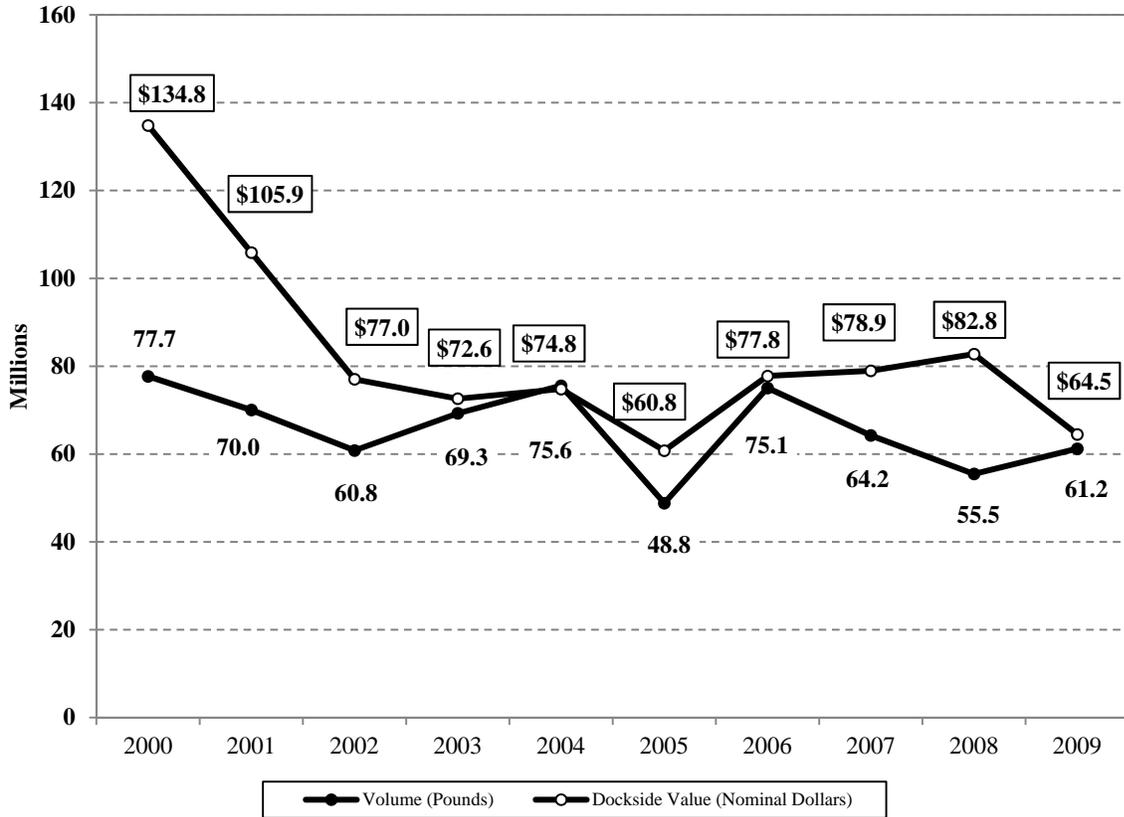


Figure 4.8. Cumulative Volume and Dockside Value of Shrimp Purchased by Resident Business Shrimp Dealers in Southeast Louisiana, By Year 2000-2009

4.7.2. Resident Vehicle Dealers in Southeast Louisiana

The number of active resident vehicle dealers in southeast Louisiana was relatively low (21 or less) throughout the study timeframe (Figure 4.6). The volume of shrimp they purchased (Figure 4.9) was about 250 thousand pounds or less in all but two years, 2004 and 2005, when volume exceeded 1.5 million pounds. The dockside value of the shrimp they bought was less than half a million dollars in every year except 2004 and 2005 when dockside value was over two million dollars.

The average price per pound paid by resident vehicle dealers in southeast Louisiana fell from \$1.66 per pound in 2000 to \$1.06 per pound in 2003 (Figure 4.7). Price per pound rose to \$1.38 per pound in the hurricane of 2005 and \$2.44 in 2008 and then dropped to \$1.99 per pound in 2009.

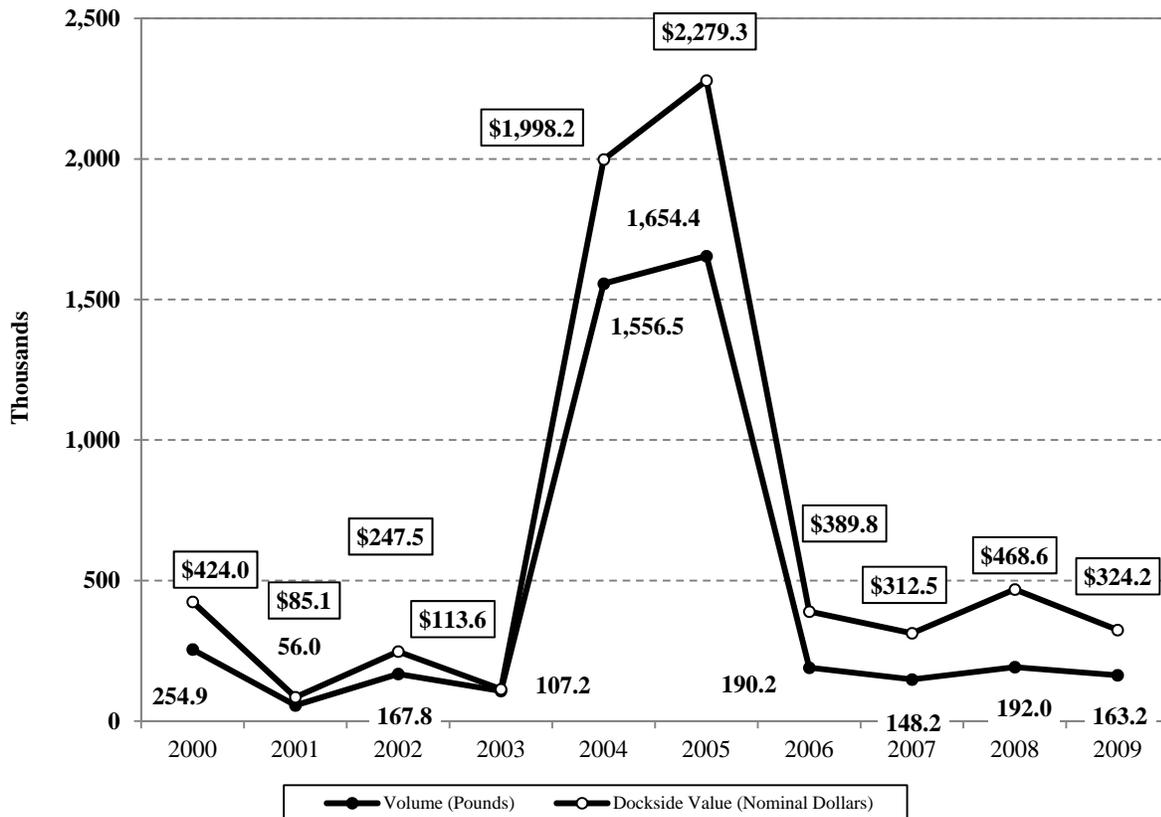


Figure 4.9. Cumulative Volume and Dockside Value of Shrimp Purchased by Resident Vehicle Shrimp Dealers in Southeast Louisiana, By Year 2000-2009

4.7.3. Resident Fresh Products Shrimp Dealers in Southeast Louisiana

Active resident fresh products shrimp dealers in southeast Louisiana increased in number from 18 in 2000 to 81 in 2004 (Figure 4.6). In the hurricane year of 2005, the number of fresh products dealers in the region declined to 54. Afterwards, their numbers increased to 94 in 2006, fell to 58 in the hurricane year of 2008, and then climbed to a period maximum of 105 in 2009.

The volume and dockside value of shrimp among resident fresh products dealers in southeast Louisiana (Figure 4.10) rose from 47.0 thousand pounds and \$89.6 thousand in 2000 to 303.1 thousand pounds and \$654.4 thousand in 2006. Volume and dockside value dropped to 146.3 thousand pounds and \$314.5

thousand in 2007. Both parameters climbed to 293.4 thousand pounds and \$557.4 thousand dollars in 2009. The volume and dockside value of shrimp among fresh products dealers in southeast Louisiana rose dramatically in relative terms across the study timeframe. (Volume and dockside value in 2009 were about six times larger than their respective values in 2000.) Nevertheless, dealers of this type accounted for relatively small portions of the volume of all shrimp purchased by dealers in the region. Resident fresh products dealers accounted for 0.06 percent of all resident shrimp dealers' volume in 2000 and 0.5 percent in 2009.

Average price per pound among resident fresh products shrimp dealers in southeast Louisiana fluctuated from \$1.91 per pound in 2000 to \$2.19 per pound in 2001 down to \$1.57 per pound in 2003 and \$1.58 per pound in 2004 (Figure 4.7). The average price per pound of shrimp for resident fresh products dealers in southeast Louisiana exceeded \$2.00 per pound between 2005 and 2008 and was \$1.99 per pound in 2009.

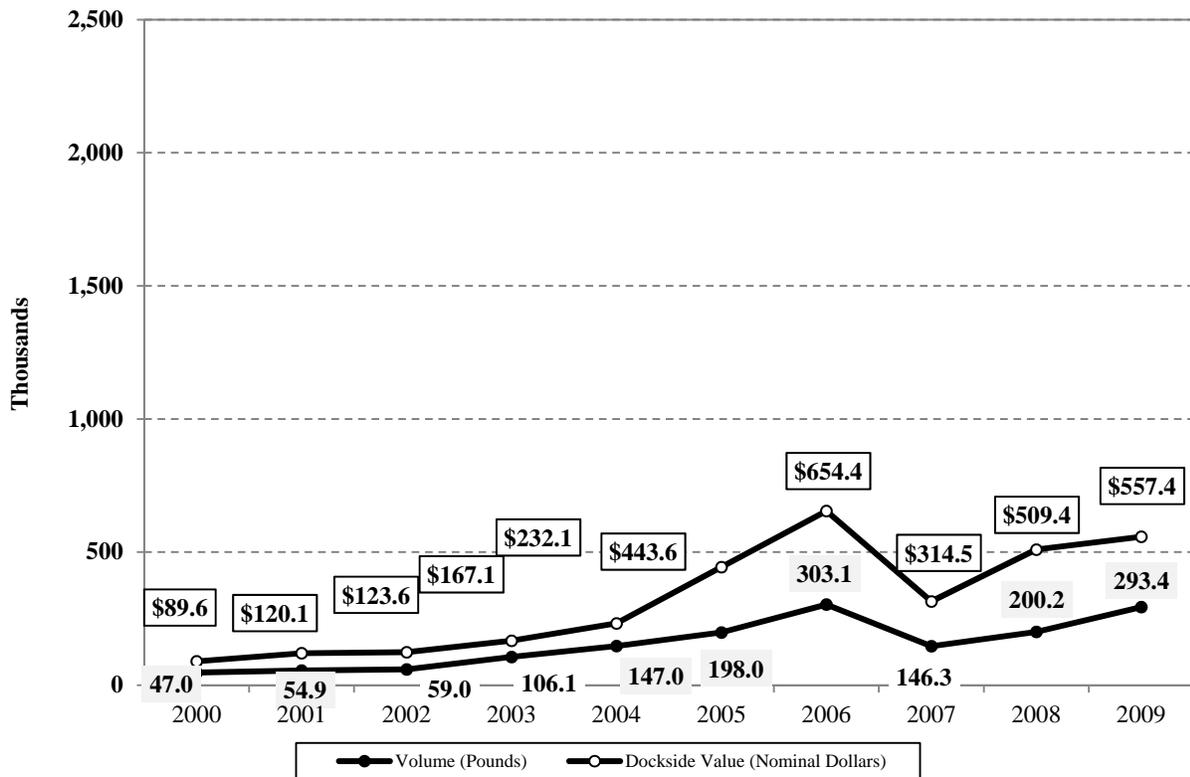


Figure 4.10. Cumulative Volume and Dockside Value of Shrimp Purchased by Resident Fresh Products Shrimp Dealers in Southeast Louisiana, By Year 2000-2009

4.8. Shrimp Dealer Activity in Southwest Louisiana by Resident License Type Category

Numerous measures of dealer activity among southwest Louisiana shrimp dealers were examined in previous sections of this report: the number of active dealers (§4.2), the volume and dockside value of the shrimp they purchased (§4.3.2), the average dockside price they paid per pound of shrimp (§4.4), and percentage changes in shrimp dealers activity following hurricanes Katrina and Rita (§4.5.2) and hurricanes Gustav and Ike (§4.6.2). This section presents various measures of shrimp dealer activity for three different types of resident commercial seafood dealers in southwest Louisiana: active resident shrimp dealers, active resident vehicle shrimp dealers, and active resident fresh products shrimp dealers.

From 2003 to the end of the study timeframe, the number of resident fresh products dealers in southwest Louisiana was greater than the number of dealers in any other single license type category in the region (Figure 4.11). The number of fresh products dealers in the region plotted a variable but generally upward trend in opposition to the downward trend observable for resident business shrimp dealers in the region.

The number of active resident fresh products shrimp dealers in southwest Louisiana was greater than the number of fresh products shrimp dealers in southeast Louisiana. In contrast, the number of resident business shrimp dealers in southwest Louisiana was less than the number of such dealers in southeast Louisiana (Figure 4.6).

The average price per pound of shrimp among resident fresh products dealers in southwest Louisiana was higher than the average price per pound in other license type categories for the region (Figure 4.12). The lowest average price per pound was observed among resident vehicle dealers.

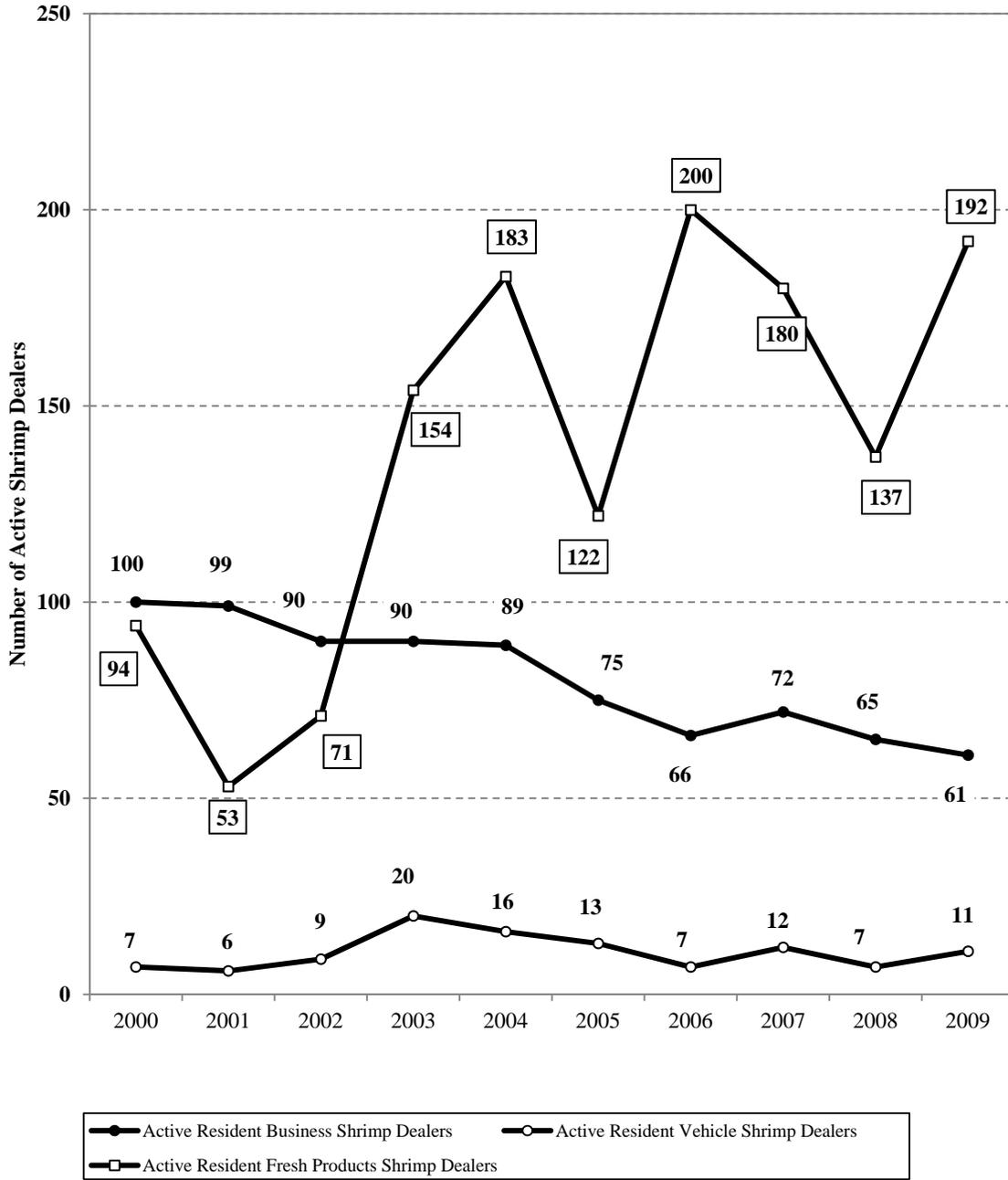


Figure 4.11 Number of Active Resident Shrimp Dealers in Southwest Louisiana by Seafood Dealer License Type, By Year: 2000-2009

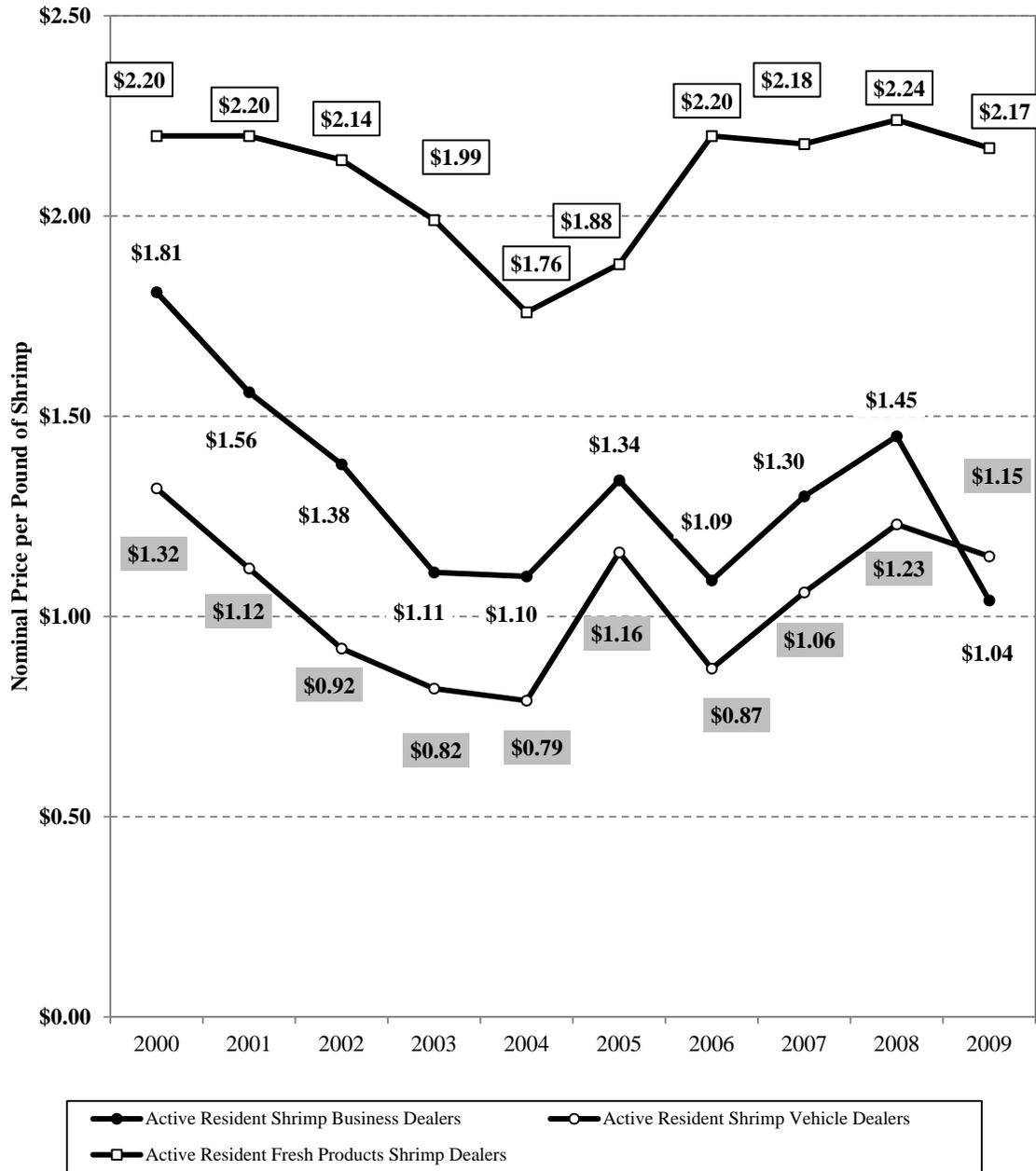


Figure 4.12. Price per Pound of Shrimp by Active Shrimp Dealers in Southwest Louisiana by Seafood Dealer License Type, By Year: 2000-2009

4.8.1. Resident Business Dealers in Southwest Louisiana

The number of active resident business dealers in southwest Louisiana declined throughout the study timeframe from 100 in 2000 to 75 in the hurricane year of 2005 to 65 in the hurricane year of 2008 and 61 in 2009 (Figure 4.11). Volume among dealers of this type in the region fell from 66.8 million pounds in 2000 to approximately 53 million pounds in 2003 and 2004 to 49.2 million pounds in the hurricane year of 2005 (Figure 4.13). Volume among resident business dealers in southwest Louisiana rose to 59.2 million pounds in 2006 and thereafter declined to 36.1 million pounds in 2008 and 46.2 million pounds in 2009.

The dockside price of shrimp among resident business shrimp dealers in southwest Louisiana fell from \$120.6 million in 2000 to \$58.7 million in 2004 (Figure 4.13). Dockside value rose to \$65.8 million in the hurricane year of 2005 and \$64.7 million in 2006. It then declined to \$52.3 million in the hurricane year of 2008 and \$48.1 million in 2009.

The average price per pound of shrimp paid by resident business dealers in southwest Louisiana dropped from \$1.81 per pound in 2000 to \$1.10 per pound in 2005 (Figure 4.12). The per-pound price rose to \$1.34 per pound in the hurricane year of 2005. In 2006 it was \$1.09 per pound. The price per pound of shrimp paid by resident business dealers in southwest Louisiana rose to \$1.45 per pound in the hurricane year of 2008 and then dropped to \$1.15 per pound in 2009.

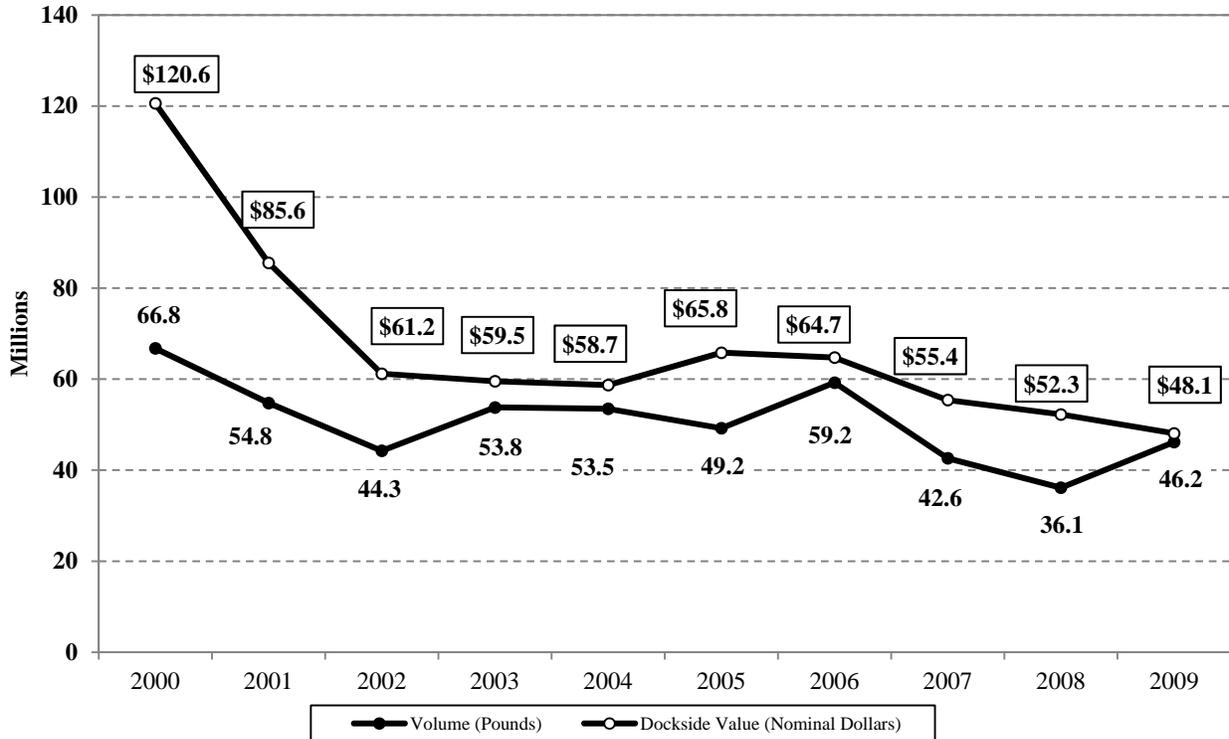


Figure 4.13. Cumulative Volume and Dockside Value of Shrimp Purchased by Resident Business Shrimp Dealers in Southwest Louisiana, By Year 2000-2009

4.8.2. Resident Vehicle Dealers in Southwest Louisiana

The number of active resident vehicle shrimp dealers in southwest Louisiana was relatively modest throughout the study timeframe, reaching a regional period maximum of 20 in 2003 (Figure 4.11). The volume and dockside value of shrimp purchased by resident vehicle shrimp dealers in southwest Louisiana (Figure 4.14) fell from 1.80 million pounds and \$2.38 million in 2000 to 818.0 thousand pounds and \$748.5 thousand in 2002. Both measures climbed to reach 2.25 million pounds and \$2.61 million in the hurricane year of 2005 and subsequently declined to 1.26 million pounds and \$1.45 million in 2009.

The average price per pound of shrimp paid by resident vehicle dealers fell from \$1.32 per pound in 2000 to \$0.79 per pound in 2004 (Figure 4.12). Price per pound rose to \$1.16 per pound in the hurricane year of 2005, dropped to \$0.87 per pound in 2006 and rose to reach \$1.23 per pound in 2008 and \$1.15 per pound in 2009.

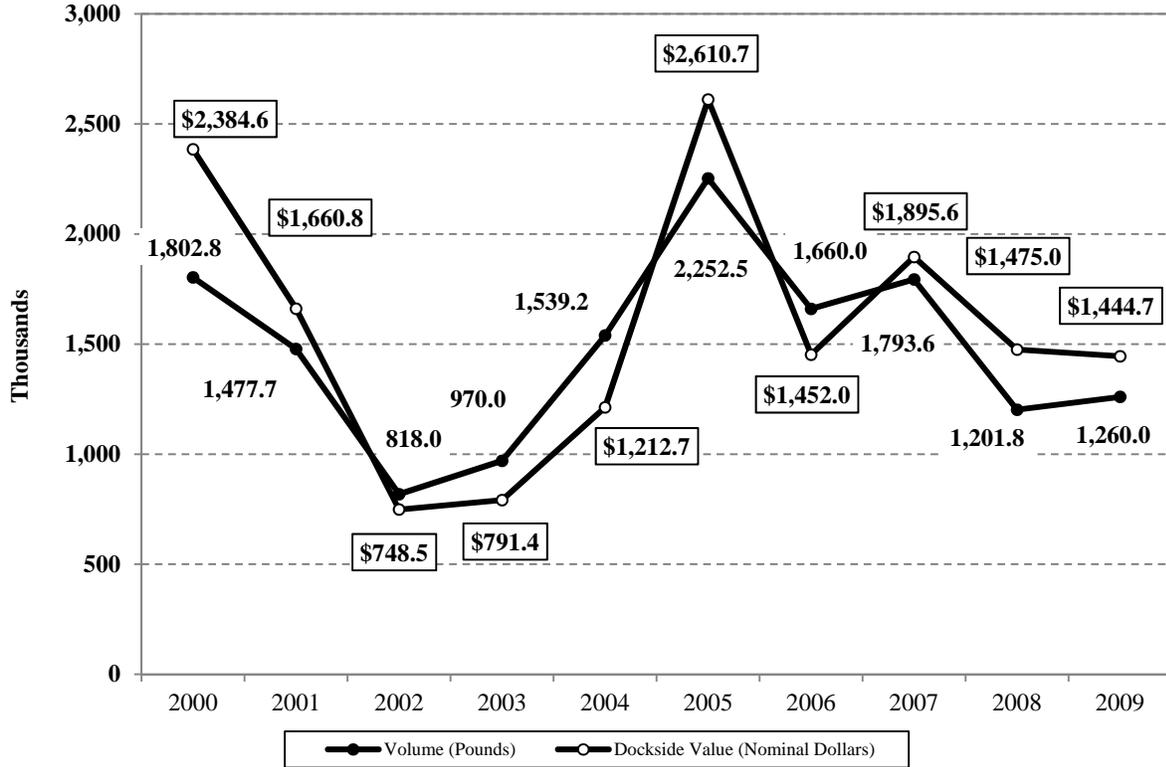


Figure 4.14. Cumulative Volume and Dockside Value of Shrimp Purchased by Resident Vehicle Shrimp Dealers in Southwest Louisiana, By Year 2000-2009

4.8.3. Resident Fresh Products Dealers in Southwest Louisiana

The number of active fresh products shrimp dealers in southwest Louisiana has varied considerably throughout the study timeframe (Figure 4.11). The regional count had veered from 94 in 2000 to 53 in 2001 up to 183 in 2004, down to 122 in the hurricane year of 2005, up to 200 in 2006, down to 137 in the hurricane year of 2008, and back up to 192 in 2009.

The volume and dockside value of shrimp among fresh products dealers in southwest Louisiana also followed an erratic trend. Volume and dockside value among southwest Louisiana fresh products dealers (Figure 4.15) fell from 110.6 thousand pounds and \$243.6 thousand in 2000 to 71.9 thousand pounds and \$158.0 thousand in 2001 up to 625.2 thousand pounds and \$1.10 million in 2004. These parameters dipped to 508.0 thousand pounds and \$953.4 thousand in the hurricane year of 2005 but then spiked up to

825.1 thousand pounds and 41.82 million in 2006. Volume and dockside value fell to 417.1 thousand pounds and \$1.16 million in the hurricane year of 2008. The value of shrimp among resident fresh products dealers in southwest Louisiana rose to 782.0 thousand pounds and dockside value rose to \$1.69 million in 2009.

The volume of shrimp purchased by resident fresh products shrimp dealers in southwest Louisiana increased considerably in relative terms across the 2000-2009 study timeframe. (The volume in 2009 was seven times that in 2000.) The volume among resident fresh products dealers represented only 0.16 percent of the total volume of shrimp purchased by all resident commercial seafood dealers in southwest Louisiana in 2000. In 2009, their volume accounted for 1.6 percent of the regional total.

The average dockside price per pound among resident fresh products dealers in southwest Louisiana decreased from \$2.20 per pound in 2000 to \$1.76 per pound in 2004. Their per-pound price rose to \$1.88 per pound in the hurricane year of 2005 and afterward climbed to \$2.24 in the hurricane year of 2008 and \$2.17 per pound in 2009.

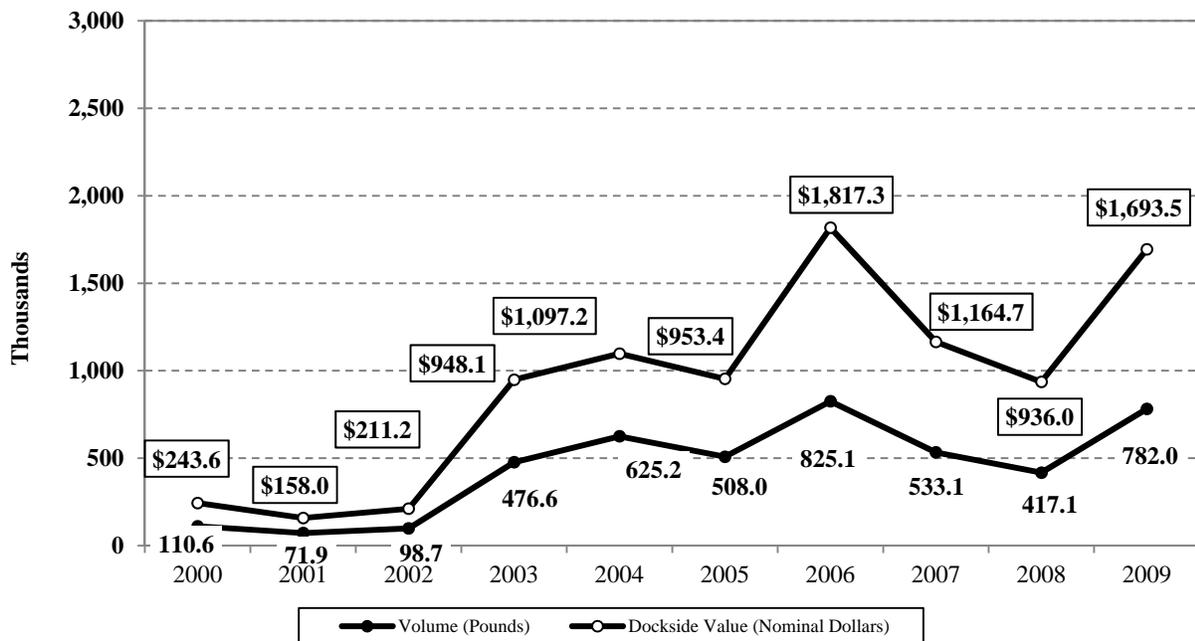


Figure 4.15. Cumulative Volume and Dockside Value of Shrimp Purchased by Resident Fresh Products Shrimp Dealers in Southwest Louisiana, By Year 2000-2009

4.9. Conclusion

This chapter examined dealer activity among active resident shrimp dealers in two separate regions defined as southeast Louisiana and southwest Louisiana during the 2000-2009 study timeframe. It ended with a detailed examination of dealer activity among three different license type categories in each region. The following chapter will examine differences in dealer activity among dealers that bought white shrimp and dealers that bought brown shrimp. It will also include a detailed examination based on dealers in different license type categories.

Chapter 5. Resident Shrimp Dealers That Purchased Brown Shrimp and White Shrimp

5.1. Introduction

Previous chapters in this report have examined dealer activity among commercial seafood dealers in Louisiana that purchased at least one pound of any species of shrimp. This chapter describes dealer activity related to the two species of shrimp, brown shrimp and white shrimp, that constitute the vast majority of shrimp landings in Louisiana. This report does not include examinations of dealer activity for other species of shrimp because their volumes are relatively small compared to brown shrimp and white shrimp and because the number of dealers reporting purchases of those species is often too small to facilitate the types of detailed analysis presented in this chapter. (To maintain source confidentiality, the authors of this report require that any category must have at least five subjects or dealers before disclosing the results.)

This chapter will conclude with an examination of dealer activity related to brown shrimp and white shrimp by active shrimp dealers in three separate categories of resident commercial dealer licenses: resident business shrimp dealers, resident vehicle shrimp dealers, and resident fresh products dealers.

This chapter excludes dealer activity among non-resident shrimp dealers (which represented only a small percentage of total shrimp volume) in an effort to maintain source confidentiality.

5.2. Number of Active Shrimp Dealers That Purchased Brown Shrimp and White Shrimp

The number of dealers that purchased brown shrimp was consistently smaller than the number that bought white shrimp throughout the study timeframe (Figure 5.1). (These characterizations are not mutually exclusive because many dealers buy both species.) The number of dealers buying brown shrimp fell from 244 in 2000 to 205 in 2001 and then rose to about 250 in 2003 and 2004. The number decreased to 196 in the hurricane year of 2005, rose slightly in 2006 and 2006, and then dropped again to 167 in the hurricane year of 2008. The number of dealers buying brown shrimp was up to 200 in 2009.

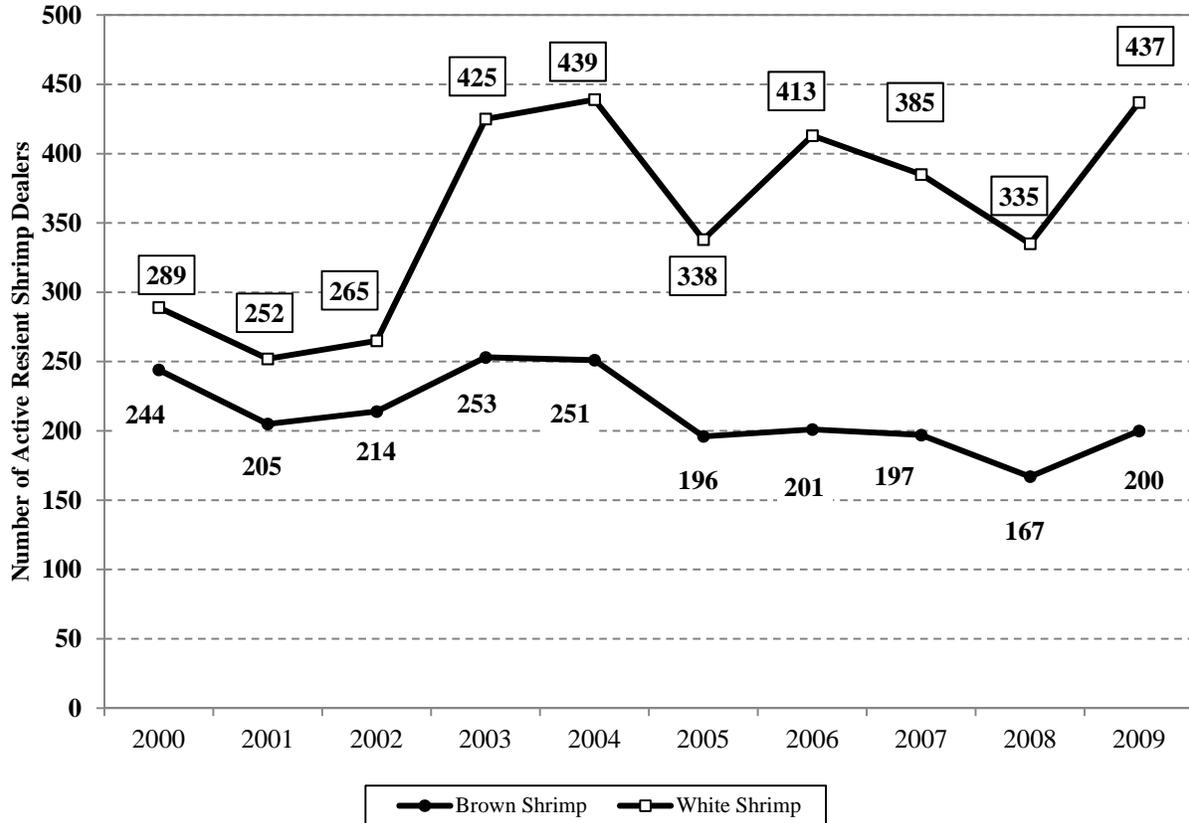


Figure 5.1 Number of Active Resident Shrimp Dealers Reporting Purchases of Brown Shrimp and White Shrimp, By Year 2000-2009

The number of dealers that purchased white shrimp fell from 289 in 2000 to 252 in 2001 and rose to 425 in 2003 and 439 in 2004. The number dropped to 338 in the hurricane year of 2005, jumped up to 413 in 2006, and decreased to 335 in the hurricane year of 2008. The number of dealers buying white shrimp climbed to 439 in 2009.

5.3. Volume of Brown Shrimp and White Shrimp

The volume of brown shrimp purchased by resident dealers was less than the volume of white shrimp for all but two years (2001 and 2002) in the study timeframe (Figure 5.2). The volume of brown shrimp fell from 61.7 million pounds in 2000 and 64.0 million pounds in 2001 to 38.9 million pounds in the hurricane year of 2005. The volume of brown shrimp rose to 48.0 million pounds in 2006 and then declined to 27.7 million pounds in the hurricane year of 2008 and 32.8 million pounds in 2009.

The volume of white shrimp purchased by resident dealers fell from 78.2 million pounds in 2000 to 46.9 million pounds in 2002 and then rose to 74.6 million pounds in 2004. White shrimp volume dropped to 61.3 million pounds in the hurricane year of 2005, spiked to 88.6 million pounds in 2006, slid to 64.3 million pounds then climbed to 77.6 million pounds in 2009.

5.4. Dockside Value of Brown Shrimp and White Shrimp

The dockside value of brown shrimp purchased by shrimp dealers in Louisiana (Figure 5.4) has declined from \$98.6 million in 2000 to \$41.0 million in the hurricane year of 2005 to \$25.9 million in the hurricane year of 2008 and \$24.8 million in 2009. The dockside value of brown shrimp at the end of the study timeframe in 2009 was about one-quarter of the dockside value at the beginning of the time frame in 2000.

The dockside value of white shrimp decreased from \$78.0 million in 2000 to \$46.8 million in 2002.

Dockside value climbed to \$74.6 million in 2004, decreased to \$61.4 million in the hurricane year of 2005, and rebounded to \$88.6 million (a period maximum) in 2006. The dockside value of white shrimp decreased to \$64.2 million in 2007 and subsequently rose to \$77.0 million in 2009.

5.5. Average Nominal Dockside Price per Pound of Brown Shrimp and White Shrimp

The average dockside price per pound paid by dealers for brown shrimp was consistently less than the average dockside price per pound for white shrimp (Figure 5.4). The average price per pound of brown shrimp fell from \$1.61 per pound in 2000 to less than half that amount, \$0.74 per pound, in 2004. The average price per pound of brown shrimp rose to \$1.06 per pound in the hurricane year of 2005 but then declined to \$0.81 per pound in 2006, \$0.95 per pound in the hurricane year of 2008, and \$0.74 per pound in 2009.

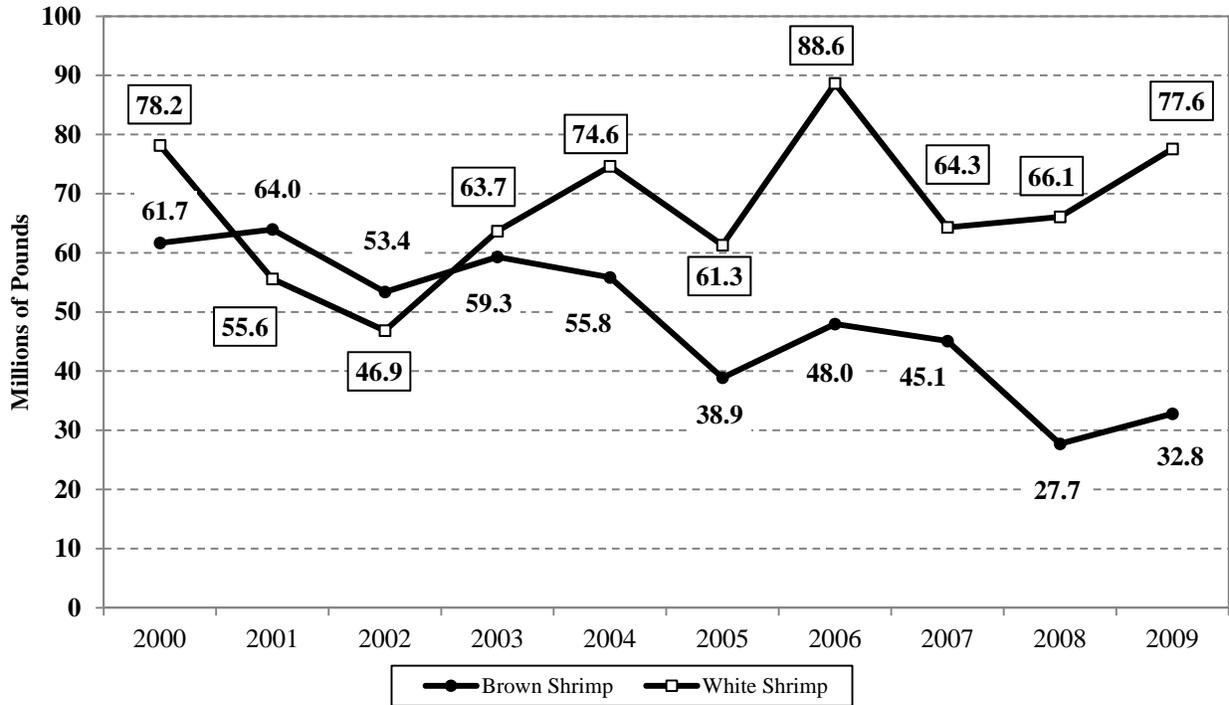


Figure 5.2. Cumulative Volume of Brown Shrimp and White Shrimp Purchased by Resident Seafood Dealers Reported in Louisiana Trip Ticket Program, By Year: 2000-2009

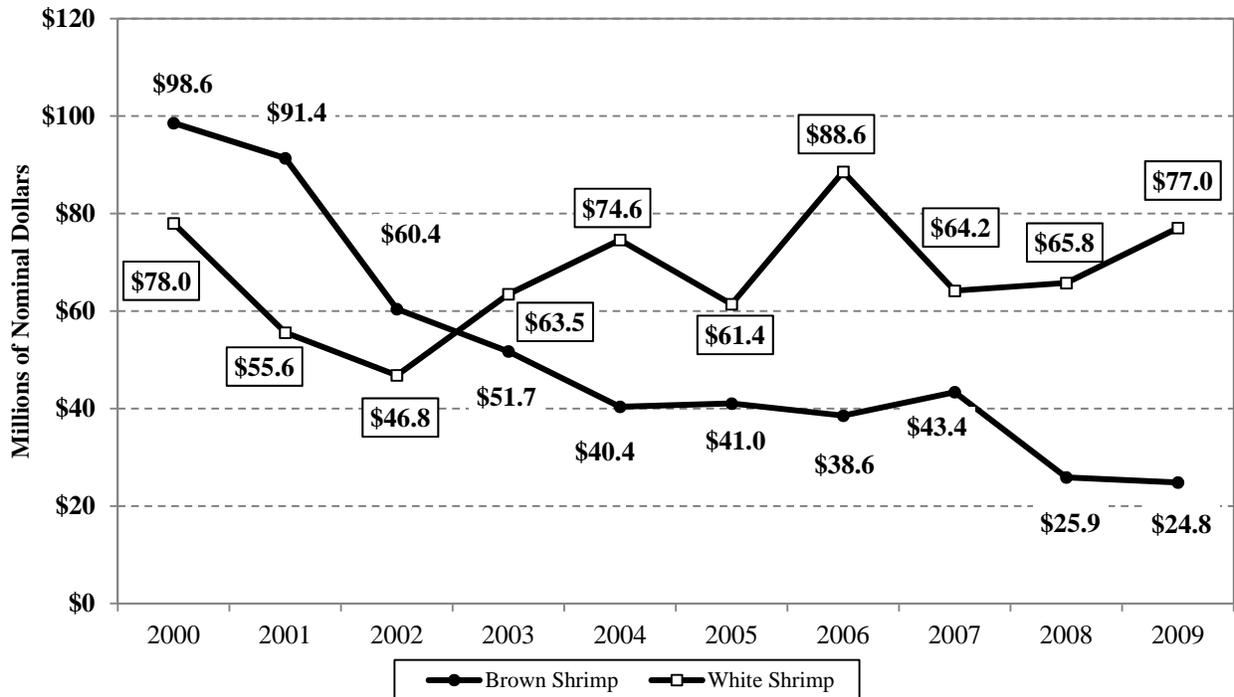


Figure 5.3. Cumulative Dockside Value of Brown Shrimp and White Shrimp Purchased by Resident Seafood Dealers Reported in Louisiana Trip Ticket Program, By Year: 2000-2009

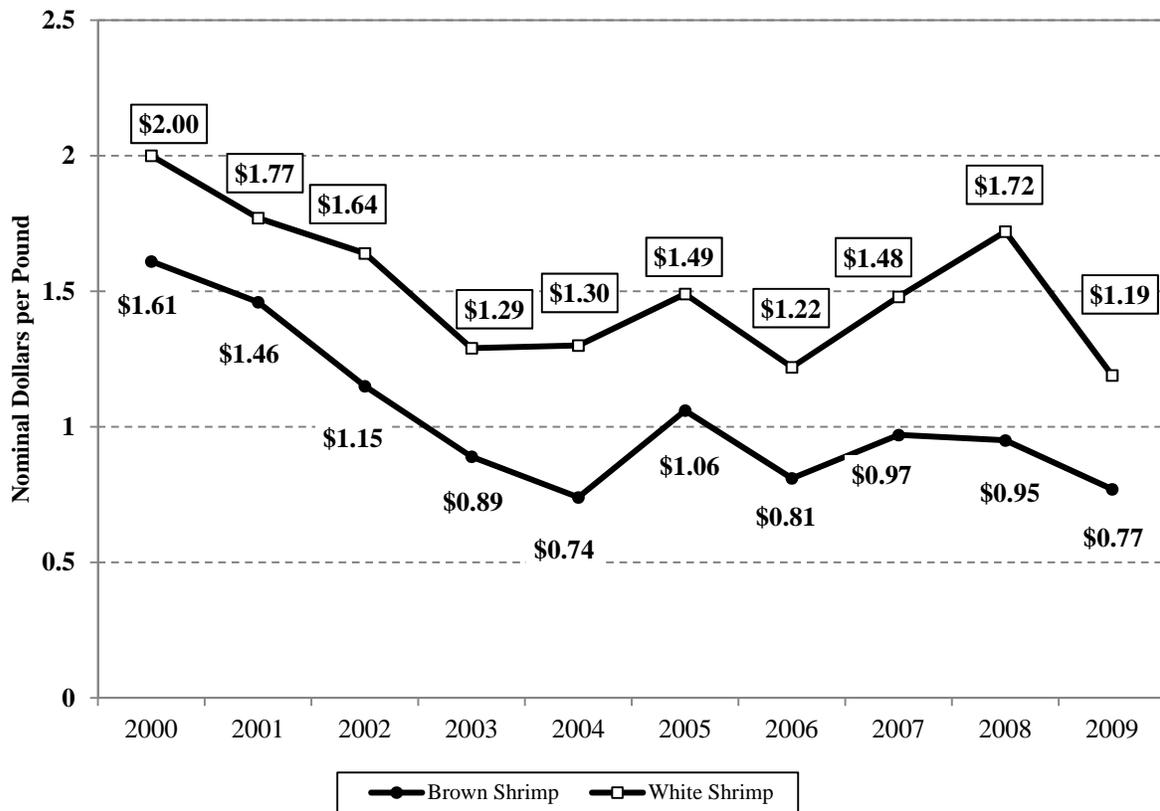


Figure 5.4. Average Nominal Price per Pound of Brown Shrimp and White Shrimp Purchases By Active Resident Shrimp Dealers, By Year 2000-2009

The average price per pound of white shrimp (Figure 5.4) fell from \$2.00 per pound in 2000 to about \$1.30 per pound in 2003 and 2004. The average price rose to \$1.49 in the hurricane year of 2005 then declined to \$1.34 per pound in 2006. It rose to \$1.72 in the hurricane year of 2008 then dropped to \$1.19 per pound in 2009.

5.6. Percentage Change in Active Dealers Numbers, Volume, and Dockside Value Following Hurricanes Katrina and Rita

This section presents estimates of the percentage changes in the number of shrimp dealers buying brown shrimp and white shrimp and the volume and dockside value of each species purchased in the years following the 2005 storms relative to the corresponding measures in 2004. Since shrimp production is related to a number of different factors, it is difficult to assess the extent to which the hurricanes contributed to change in dealer activities related to brown shrimp or white shrimp.

5.6.1. Percentage Change in Active Dealer Numbers, Volume and Dockside Value for Brown Shrimp

In the hurricane year of 2005, the number of dealers buying brown shrimp was 21.9 percent lower than the number buying the species in 2004 (Figure 5.1). The numbers in 2006 were down 19.9 percent and 21.5 percent, respectively, compared to the 2004 number.

The volume of brown shrimp purchased by resident dealers in the hurricane year of 2005 was down 29.4 percent relative to brown shrimp volume in 2004 (Figure 5.2). Volume of brown shrimp in 2006 was 13.2 less than volume in 2004 and volume in 2007 was 18.5 percent less than 2004 brown shrimp volume.

The dockside value of brown shrimp purchased by resident dealers in Louisiana in the hurricane year of 2005 was 1.6 percent greater than the dockside value in the previous year (Figure 5.3). In 2006 the dockside value of brown shrimp was percent less than 2004 dockside value. Dockside value was 7.4 percent greater than the dockside value of brown shrimp of 2004.

5.6.2. Percentage Change in Active Dealer Numbers, Volume and Dockside Value for White Shrimp

The number of dealers buying white shrimp in the hurricane year of 2005 was 23.9 percent less than the number in 2004 (Table 5.4). The counts in 2006 and 2007 were 5.9 percent and 12.3 percent, respectively, than the count in 2004.

The volume of white shrimp in 2005 was 17.7 percent less than the volume of white shrimp in 2004 (Table 5.5). A year later, in 2006, the volume of white shrimp was 18.7 percent greater than the volume of 2004. It was back down to a level 14.0 percent less than 2004 volume in 2007.

The dockside value of white shrimp in 2005 was 5.8 percent less than the dockside value of 2004 (Table 5.6). Dockside value in 2006 was 11.4 percent greater than 2004 dockside value. In 2007 dockside value was 1.9 percent less than the dockside value of white shrimp in 2007.

Table 5.1. Percentage Change in the Number of Dealers that Purchased Brown Shrimp in Louisiana in Specified Year as a Percentage of Volume in Various Base Years

		2004	2005	2006	2007	2008	2009
Base Years	2000-2004 Average	+7.5%	-16.0%	-13.9%	-15.6%	-28.4%	-14.3%
	2004		-21.9%	-19.9%	-21.5%	-33.5%	-20.3%
	2005			+2.6%	+0.5%	-14.8%	+2.0%
	2006				-2.0%	-16.9%	-0.5%
	2007					-15.2%	+1.5%
	2008						+19.8%

Table 5.2. Percentage Change in the Volume of Brown Shrimp Purchased by Resident Shrimp Dealers in Louisiana in Specified Year as a Percentage of Volume in Various Base Years

		2004	2005	2006	2007	2008	2009
Base Years	2000-2004 Average	-5.2%	-33.0%	-17.7%	-22.7%	-52.7%	-44.3%
	2004		-29.4%	-13.2%	-18.5%	-50.1%	-41.2%
	2005			+22.8%	+15.4%	-29.3%	-16.8%
	2006				-6.0%	-42.5%	-32.2%
	2007					-38.8%	-27.9%
	2008						+17.8%

Table 5.3. Percentage Change in the Dockside Value of Brown Shrimp Purchased by Resident Shrimp Dealers in Louisiana in Specified Year as a Percentage of Dockside Value in Various Base Years

		2004	2005	2006	2007	2008	2009
Base Years	2000-2004 Average	-41.1%	-40.1%	-43.7%	-36.7%	-62.2%	-63.8%
	2004		+1.6%	-4.5%	+7.4%	-35.9%	-38.5%
	2005			-6.0%	+5.7%	-36.9%	-39.5%
	2006				+12.5%	-32.9%	-35.6%
	2007					-40.3%	-42.8%
	2008						-4.0%

Table 5.4. Percentage Change in the Number of Dealers that Purchased White Shrimp in Louisiana in Specified Year as a Percentage of Volume in Various Base Years

		2004	2005	2006	2007	2008	2009
Base Years	2000-2004 Average	+31.4%	+1.2%	+23.7%	+15.3%	+0.3%	+30.8%
	2004		-23.0%	-5.9%	-12.3%	-23.7%	-0.5%
	2005			+22.2%	+13.9%	-0.9%	+29.3%
	2006				-6.8%	-18.9%	+5.8%
	2007					-13.0%	+13.5%
	2008						+30.4%

Table 5.5. Percentage Change in the Volume of White Shrimp Purchased by Resident Shrimp Dealers in Louisiana in Specified Year as a Percentage of Volume in Various Base Years

		2004	2005	2006	2007	2008	2009
Base Years	2000-2004 Average	+17.1%	-3.6%	+39.1%	+0.8%	+3.3%	21.0%
	2004		-17.7%	+18.7%	-14.0%	-11.8%	+3.3%
	2005			+44.3%	+4.5%	+7.1%	+25.5%
	2006				-27.6%	-25.8%	-13.0%
	2007					+2.5%	+20.1%
	2008						+17.1%

Table 5.6. Percentage Change in the Dockside Value of Brown Shrimp Purchased by Resident Shrimp Dealers in Louisiana in Specified Year as a Percentage of Dockside Value in Various Base Years

		2004	2005	2006	2007	2008	2009
Base Years	2000-2004 Average	-4.9%	-10.5%	+6.0%	-6.7%	+11.0%	-10.0%
	2004		-5.8%	+11.4%	-1.9%	+16.7%	-5.4%
	2005			+18.4%	+4.2%	+24.0%	+0.5%
	2006				-12.0%	+4.7%	-15.1%
	2007					+19.0%	-3.6%
	2008						-18.9%

5.7. Percentage Change in Active Dealers Numbers, Volume, and Dockside Value Following Hurricanes Gustav and Ike

This section presents estimates of the percentage changes in the number of shrimp dealers buying brown shrimp and white shrimp and the volume and dockside value of each species purchased in the years following the 2008 storms relative to the corresponding measures in 2007. Since shrimp production is related to a number of different factors, it is difficult to assess the extent to which the hurricanes contributed to change in dealer activities related to brown shrimp or white shrimp.

5.7.1. Percentage Change in Active Dealer Numbers, Volume and Dockside Value for Brown Shrimp

The number of dealers purchasing brown shrimp in the hurricane year of 2008 was 15.2 percent the number of 2004 (Table 5.1). The number in 2009 was 1.5 percent above the number purchasing brown shrimp in 2007. Compared to the volume of 2007, the volume of white shrimp in 2008 was down 38.8

percent and the volume of 2009 was down 27.9 percent (Table 5.2). The dockside values of brown shrimp (Table 5.3) in 2008 and 2009 were each about 40 percent below the dockside value of 2007.

5.7.2. Percentage Change in Active Dealer Numbers, Volume and Dockside Value for White Shrimp

In the hurricane year of 2008, the number of dealers buying white shrimp was 13.0 percent less than the number buying white shrimp in 2007 (Figure 5.4). A year later, the number buying white shrimp was 13.5 percent greater than the number in 2007.

The volume of white shrimp in 2008 was 2.5 percent greater than the volume of 2007 (Table 5.5). In 2009, volume was about 20 percent greater than the 2007 volume. The dockside value of white shrimp in 2008 was 19.0 percent greater than the dockside value of 2007 (Table 5.6). In 2009, dockside value was 3.6 percent less than the 2007 dockside value of white shrimp.

5.8. Dealer Activity among Resident Dealers That Purchased Brown Shrimp, By License Type

Previous sections of this chapter examined the number of dealers that purchased brown shrimp (§5.2), the volume (§5.3), dockside value (§5.4), and dockside price (§5.5) of brown shrimp, and percentage changes in dealer activity pertaining to brown shrimp following hurricanes Katrina and Rita (§5.6.1) and hurricanes Gustav and Ike (§5.7.1). This section examines different measures of dealer activity among resident business shrimp dealers, resident vehicle shrimp dealers, and resident fresh products shrimp dealers.

In every year in the study timeframe, more dealers with resident business dealer licenses purchased brown shrimp than any other type of seafood dealers (Figure 5.5). The number of active dealers buying brown shrimp in this license category consistently decreased while the number in the fresh products license category increased, narrowing the difference between them. In 2000, the difference between the number of dealers buying brown shrimp in the resident business shrimp dealer category (170) and the number in the fresh products shrimp dealer category (64) was 106. In 2009, the difference was only 13.

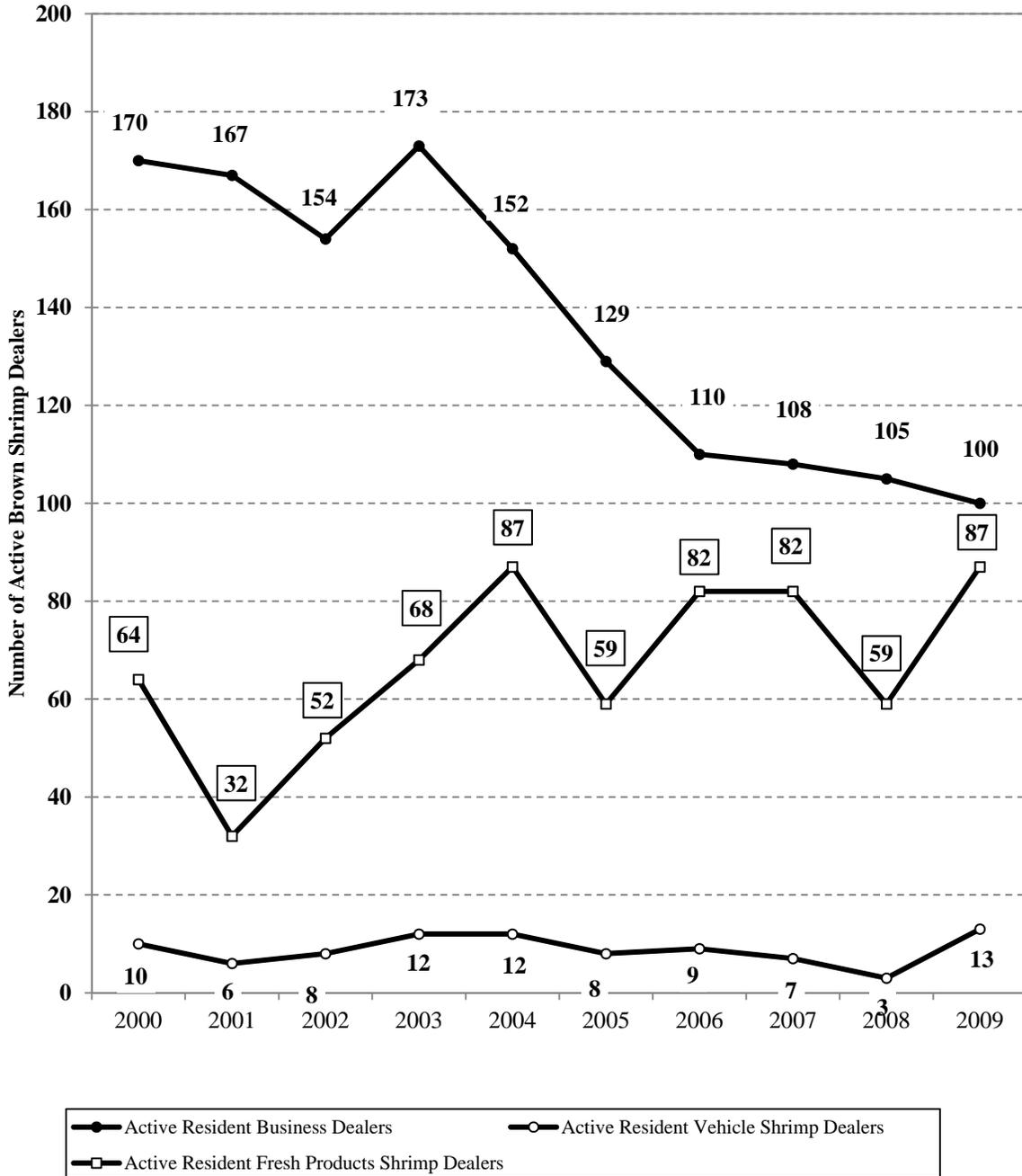


Figure 5.5. Number of Active Resident Shrimp Dealers That Purchased Brown Shrimp, By Seafood Dealer License Type, By Year: 2000-2009

The average price per pound of brown shrimp among fresh products dealers was consistently higher than the consistently greater than the per-pound price among resident business (Figure 5.6) and resident vehicle shrimp dealers (Table 5.7).

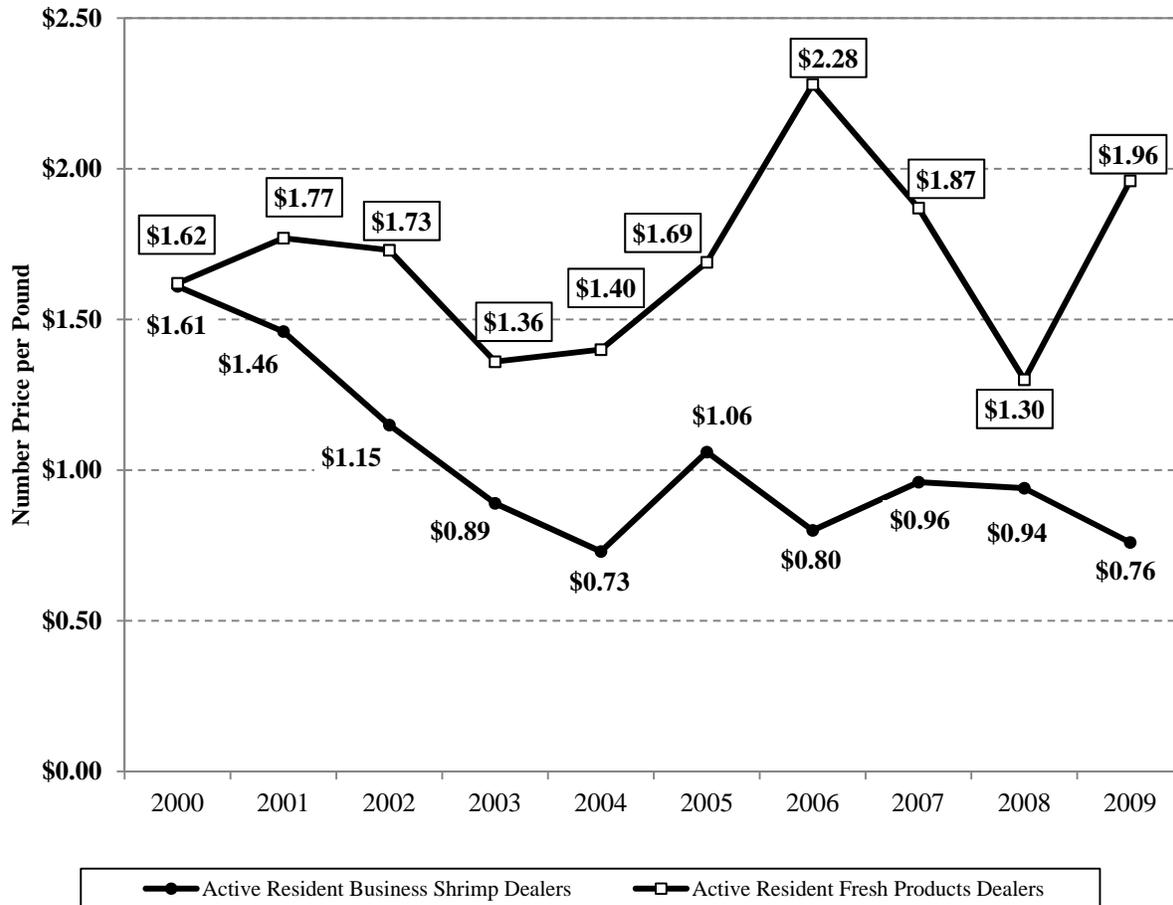


Figure 5.6. Price per Pound Paid for Brown Shrimp by Active Resident Brown Shrimp Dealers By Seafood Dealer License Type, By Year: 2000-2009

5.8.1. Resident Business Shrimp Dealers That Purchased Brown Shrimp

The number of resident business shrimp dealers that purchased brown shrimp (Figure 5.5) dipped from 170 in 2000 to 154 in 2002 and then stepped up to a period maximum of 173 in 2003. A downward trend began in 2004, reaching 129 in the hurricane year of 2005, 105 in the hurricane year of 2008, and 100 in 2009.

The volume of brown shrimp purchased directly from commercial fishermen by resident business dealers (Figure 5.7) dropped from 60.8 million pounds in 2000 and 62.2 million pounds in 2001 to 53.9 million pounds in 2004 and 38.2 million pounds in the hurricane year of 2005. Brown shrimp volume rose to

47.2 million pounds in 2006, then declined to 27.1 million pounds in the hurricane year of 2008 and rose to 32.1 million pounds in 2009.

The dockside value of brown shrimp among resident business shrimp dealers (Figure 5.7) decreased from \$97.7 million in 2000 and \$90.5 million in 2001 to \$39.5 million in 2004. The dockside value of brown shrimp was up slightly to \$40.3 million in the hurricane year of 2005 but then down to \$37.9 million in 2006. By 2009, the dockside value of brown shrimp had declined to \$24.5 million.

The average price per pound for brown shrimp paid by resident business shrimp dealers fell from \$1.61 per pound in 2000 to \$0.73 per pound in 2004 (Figure 5.6). It rose to \$1.06 per pound of brown shrimp in the hurricane year of 2005 and then resumed its downward trajectory to \$0.94 per pound in the hurricane year of 2008 and \$0.76 per pound in 2009.

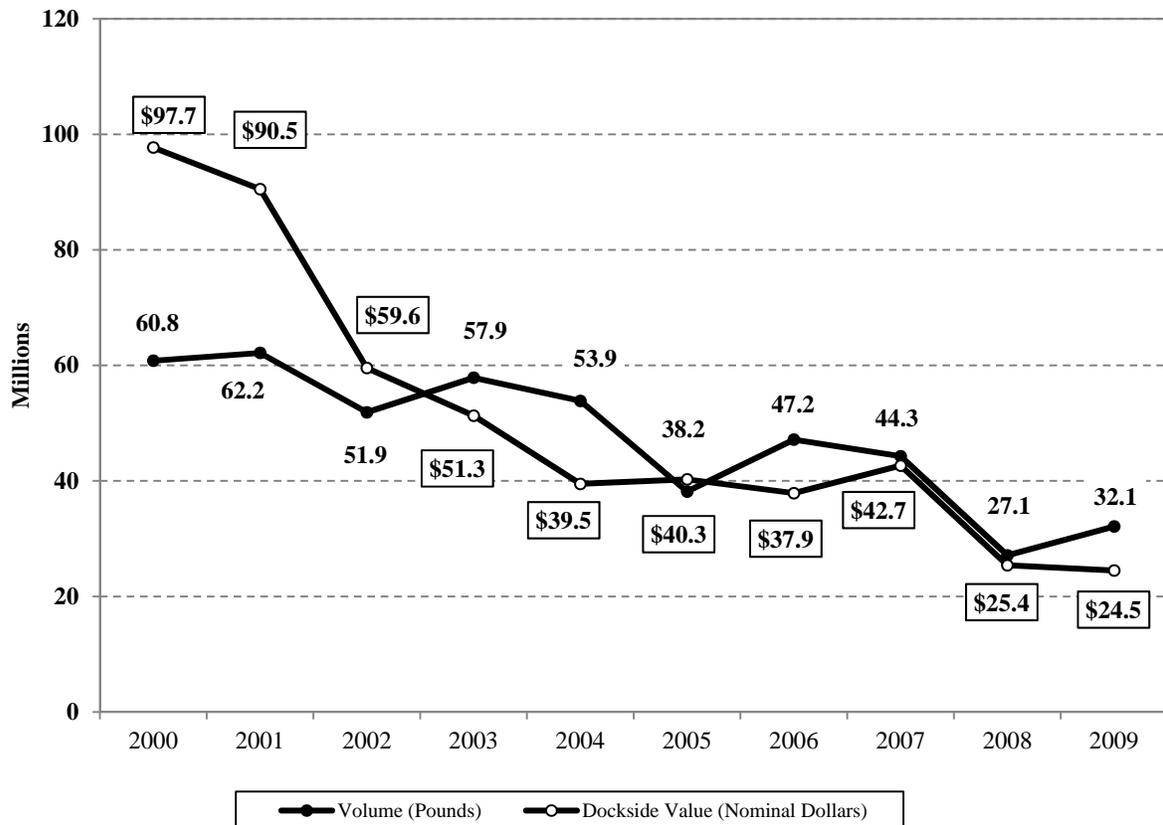


Figure 5.7. Cumulative Volume and Dockside Value of Brown Shrimp Purchased by Resident Business Shrimp Dealers, By Year: 2000-2009

5.8.2. Resident Vehicle Shrimp Dealers That Purchased Brown Shrimp

The number of resident vehicle shrimp dealers purchasing brown shrimp was fairly low (13 or fewer) throughout the study timeframe (Figure 5.5 and Table 5.7). In the hurricane year of 2008, the number of resident vehicle shrimp dealers buying brown shrimp was only three, a value less than the minimum of five selected by the authors of this report to permit public disclosure of category summary values. (The volume and dockside value of brown shrimp among dealers of this type are according withheld from Table 5.1.)

The volume of brown shrimp purchased by resident vehicle dealers (Table 5.7) varied from about half a million pounds in 2000 and 2002 to 1.09 million pounds in 2004 and thereafter slid to 660.1 thousand pounds in the hurricane year of 2005 and 97.4 thousand pounds in 2009. The dockside value of brown shrimp among this type of dealer reached a period category maximum of \$817.2 thousand in 2002 and dropped to a period category minimum of \$59.1 thousand in 2009.

The average nominal dockside price per pound for brown shrimp paid by resident vehicle dealers decreased from \$1.60 per pound in 2000 to \$0.71 per pound in 2004 (Table 5.7). It rose to \$1.01 per pound of brown shrimp in the hurricane year of 2005 and subsequently decreased to \$0.61 per pound in 2009.

Table 5.7. Volume, Dockside Value, and Average Price per Pound of Brown Purchased by Active Resident Vehicle Shrimp Dealers, By Year: 2000 – 2009

Year	Number of Active Vehicle Brown Shrimp Dealers	Volume (Pounds)	Dockside Value (Nominal Dollars)	Average Price per Pound (Nominal Dollars)
2000	10	474,903	\$753,360	\$1.60
2001	6	534,700	\$752,575	\$1.41
2002	8	741,264	\$817,177	\$1.10
2003	12	395,358	\$310,690	\$0.79
2004	12	1,091,796	\$776,648	\$0.71
2005	8	660,080	\$669,197	\$1.01
2006	9	443,182	\$368,713	\$0.83
2007	7	435,411	\$416,247	\$0.96
2008	3	*	*	*
2009	13	97,353	\$59,134	\$0.61

5.8.3. Resident Fresh Products Dealers That Purchased Brown Shrimp

The number of resident fresh products shrimp dealers that purchased brown shrimp dropped by half from 64 in 2000 to 32 in 2001 and then began a three-year climb to 87 in 2004 (Figure 5.5). The count dropped to 59 in the hurricane year of 2005 and rose to 82 in 2006 and 2007. The number of fresh products dealers buying brown shrimp slid back to 59 in the hurricane year of 2008 and then climbed back to 87 in 2009.

The volume of brown shrimp among resident fresh products decreased from 50.6 thousand pounds in 2000 to 31.3 thousand pounds in 2002 then increased to about 75 thousand pounds in 2003 and 2004 (Figure 5.8). Volume dropped to 52.3 thousand pounds in 2005 but then quadrupled to 214.1 thousand pounds in the hurricane year of 2008. The volume of brown shrimp among resident fresh products dealers fell back down to 138.5 thousand pounds in 2009.

The dockside value of brown shrimp reported by fresh products dealers declined from \$82.3 thousand in 2000 to \$54.0 thousand in 2002 before increasing to values over \$100 thousand dollars in 2003 and 2005 (Figure 5.8). Dockside value decreased in the hurricane year of 2005 to \$88.5 thousand. It then rose to \$307.5 thousand in 2006 and then decrease to \$271.4 thousand in 2009.

Resident fresh products shrimps purchased only a small percentage of the brown shrimp in Louisiana. The volume of brown shrimp among fresh products dealers in 2009 constituted only 0.4 percent of the brown shrimp purchased by all types of resident shrimp dealers that year.

The price per pound of brown shrimp among resident fresh products dealers declined from \$1.62 per pound in 2000 and \$1.77 per pound in 2001 to \$1.36 per pound in 2003 and \$1.40 per pound in 2004 (Figure 5.6). Price per pound of brown shrimp among resident fresh products dealers rose to \$2.28 per pound in 2006, dropped to \$1.30 per pound in the hurricane year of 2008, and then rose to \$1.96 per pound in 2009.

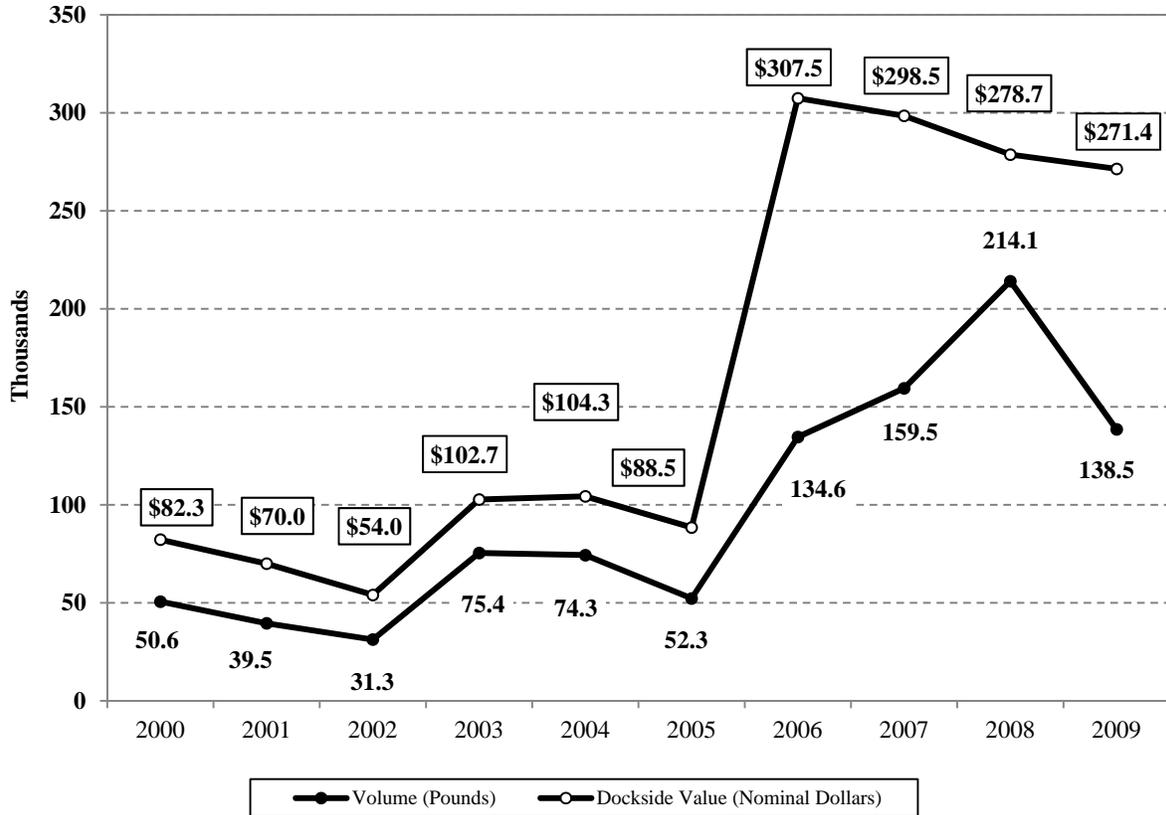


Figure 5.8. Cumulative Volume and Dockside Value of Brown Shrimp Purchased by Resident Fresh Products Shrimp Dealers, By Year 2000-2009

5.9. Dealer Activity among Resident Dealers That Purchased White Shrimp, By License Type

This chapter has previously presented estimates of various elements of dealer activity for those dealers that purchased white shrimp, including the number of dealers that purchased white shrimp (§5.2), the volume (§5.3), dockside value (§5.4), and dockside price (§5.5) of white shrimp, and percentage changes in dealer activity pertaining to white shrimp following hurricanes Katrina and Rita (§5.6.2) and hurricanes Gustav and Ike (§5.7.2). This section examines dealer activity pertaining to white shrimp by three different types of resident commercial seafood dealers in Louisiana: resident business shrimp dealers, resident vehicle shrimp dealers, and resident fresh products shrimp dealers.

In the first three years of the study timeframe, the number of resident business dealers that bought white shrimp was larger than the number of fresh products dealers that bought white shrimp (Figure 5.9). From

2003 to 2009, however, fresh products dealers have generally outnumbered resident business dealers among dealers buying white shrimp,

In every resident license type category, more dealers bought white shrimp than brown shrimp. In every year, the number of resident business dealers that purchased white shrimp was larger than the number of resident business dealers that purchased brown shrimp (Figure 5.5). The same was true among resident vehicle dealers and resident fresh products dealers.

The average price per pound of white shrimp was observed among resident fresh products dealers (Figure 5.10). The lowest average price per pound was generally seen among resident vehicle dealers.

5.9.1. Resident Business Shrimp Dealers That Purchased White Shrimp

The number of resident business shrimp dealers that purchased white shrimp decreased from 187 in 2000 to 166 in 2003 and then climbed to a period category maximum of 194 in 2003 (Figure 5.10). Since then, the number of resident business dealers buying shrimp declined to 155 in the hurricane year of 2005 to 181 in the hurricane year of 2008 and 137 in 2009.

The volume of white shrimp purchased by resident business shrimp dealers fell from 76.3 million in 2000 to 46.4 million pounds in 2002 and then increased to 71.9 million pounds in 2004 (Figure 5.11). Volume dropped to 57.5 million pounds in the hurricane year of 2005, and jumped to a period category maximum of 86.2 million pounds in 2006. The dockside value in 2007 was 62.2 million pounds. It increased to 74.8 million dollars in 2009.

The dockside value of white shrimp purchased by resident business shrimp dealers decreased from \$153.5 million in 2000 to \$76.1 million in 2003 and climbed to \$93.0 million in 2004 (Figure 5.11). Value dropped to \$85.5 million in the hurricane year of 2005 and then varied from \$104.2 million in 2006 to \$92.0 million in 2007, \$110.1 million in 2008, and \$87.9 million in 2009.

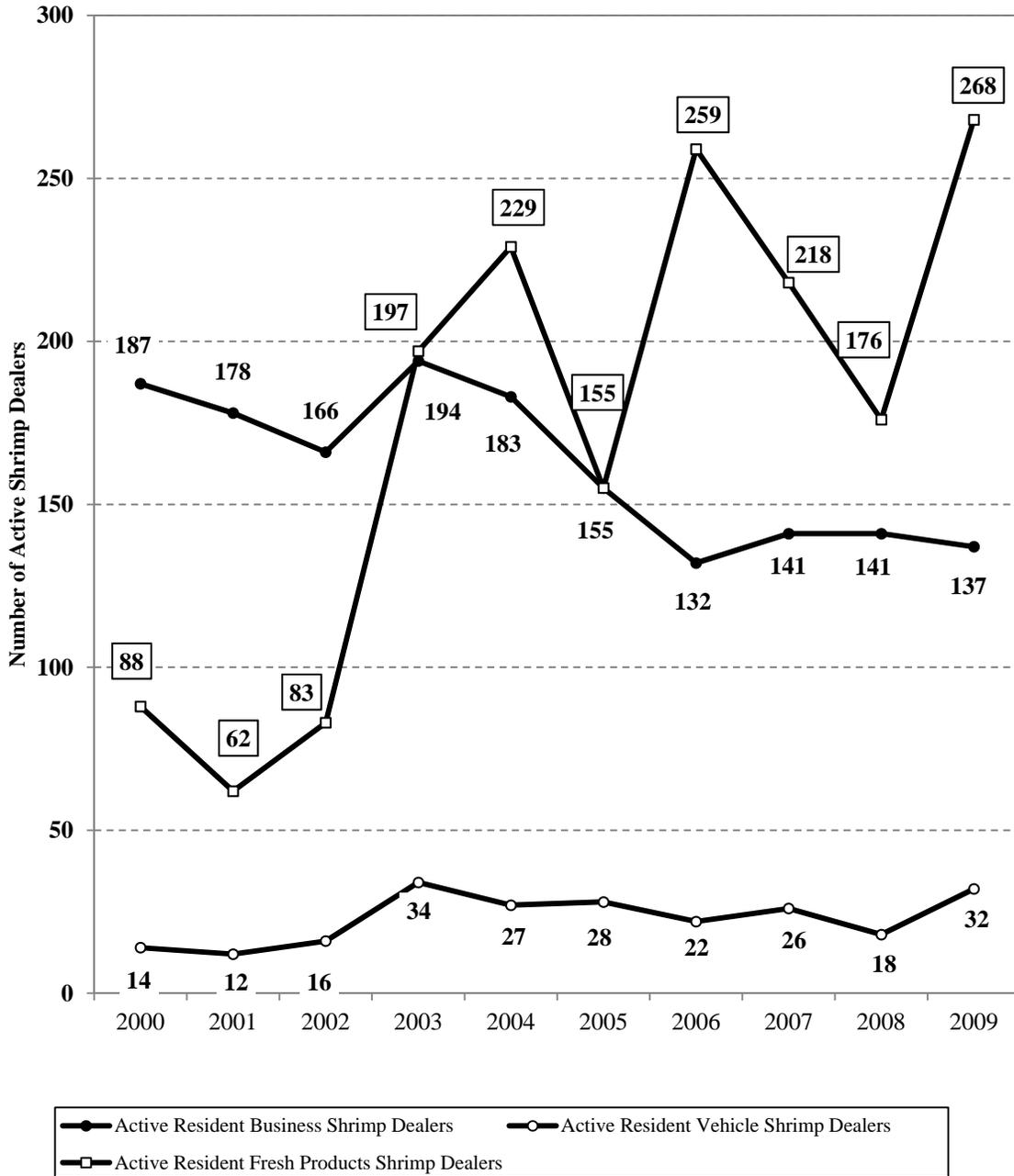


Figure 5.9. Number of Active Resident Shrimp Dealers That Purchased White Shrimp, By Seafood Dealer License Type, By Year: 2000-2009

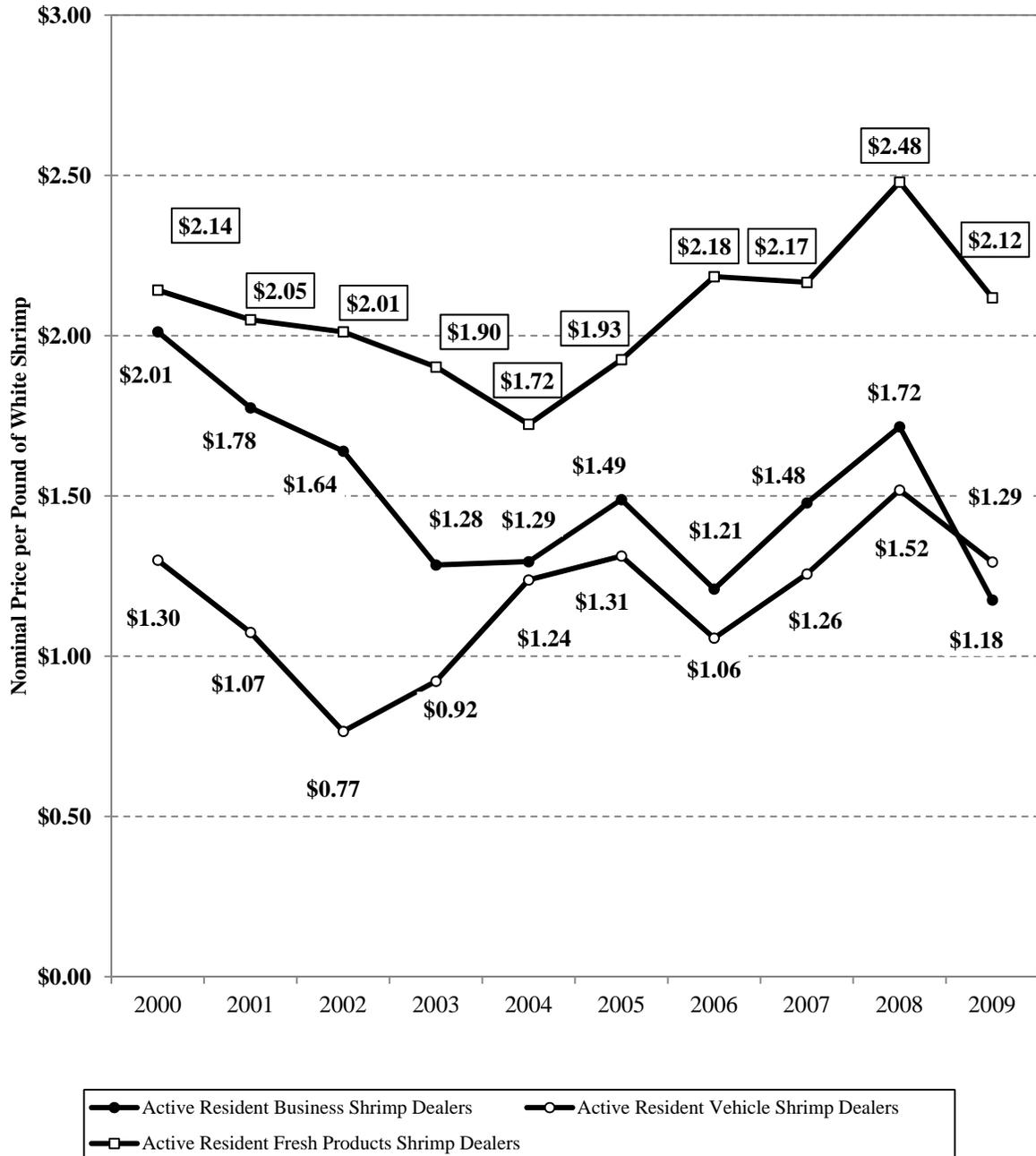


Figure 5.10. Price per Pound Paid for White Shrimp by Active Resident Shrimp Dealers by Seafood Dealer License Type, By Year: 2000-2009

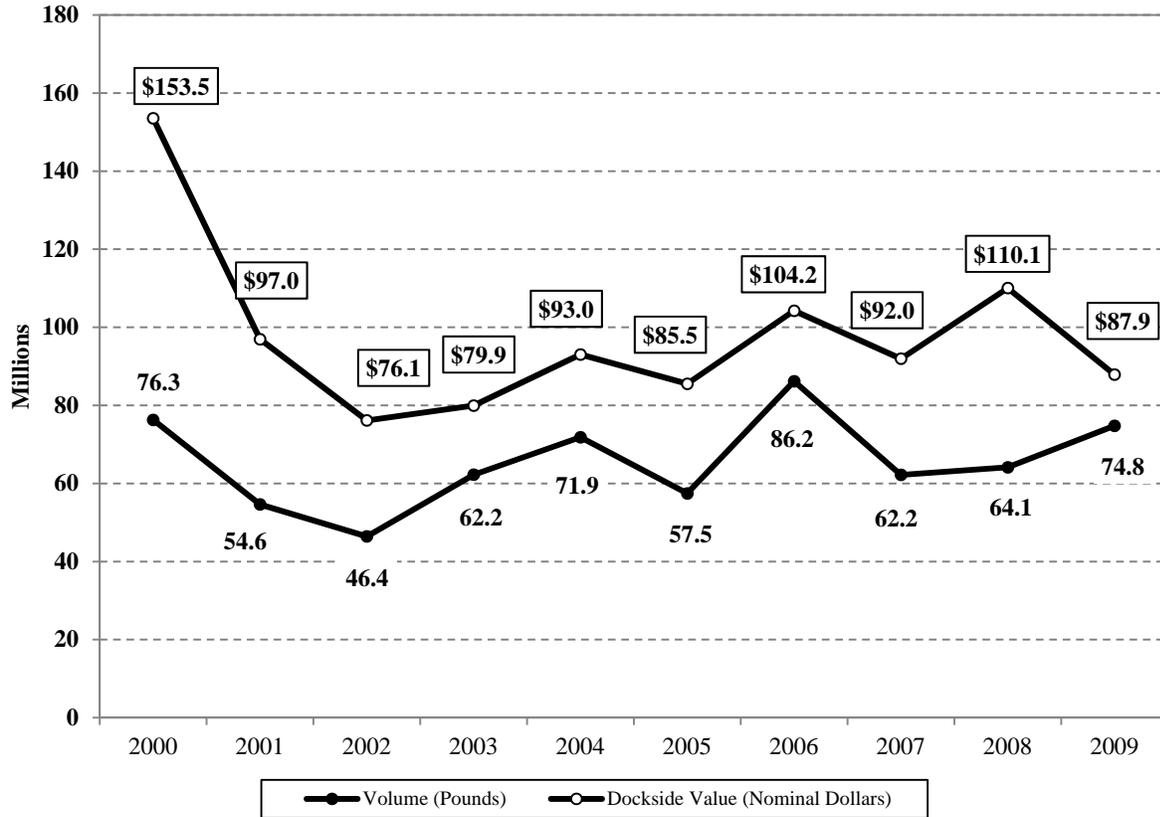


Figure 5.11. Cumulative Volume and Dockside Value of White Shrimp Purchased by Resident Business Shrimp Dealers, By Year 2000-2009

The average dockside price per pound for white shrimp paid by resident business shrimp dealers dropped from \$2.01 per pound in 2000 to \$1.28 per pound in 2003 and \$1.29 per pound in 2004 (Figure 5.10). It rose to \$1.21 per pound in the hurricane year of 2005, dropped to \$1.21 per pound in 2006, and then climbed to \$1.72 per pound in the hurricane year of 2008. In 2009 the average dockside price per pound of white shrimp among resident business dealers decreased to \$1.18 per pound.

5.9.2. Resident Vehicle Shrimp Dealers That Purchased White Shrimp

The number of resident vehicle shrimp dealers that purchased white shrimp rose from 14 in 2000 and 12 in 2001 to 34 in 2003 (Figure 5.9). The count declined to 18 by the hurricane year of 2008 then climbed to 32 in 2009.

The volume of white shrimp purchased by resident vehicle shrimp dealers dropped from 1.6 million pounds in 2000 to 200 thousand pounds in 2002. The volume of white shrimp among this category of shrimp dealer rose to 2.0 million pounds in 2004 and 3.2 million pounds in the hurricane year of 2005 (Figure 5.12). Volume dropped to levels beneath 1.5 million pounds for the remainder of the study timeframe.

The dockside value of white shrimp decreased from \$2.1 million in 2000 to \$200 thousand in 2002, climbed to a period maximum of \$4.2 million in the hurricane year of 2005, and slid to levels of two million dollars or less from 2006 to 2009.

The average price per pound of white shrimp paid by resident vehicle shrimp dealers fell from \$1.30 per pound in 2000 to \$0.77 per pound in 2002 (Figure 5.10). That price rose to \$1.31 per pound in the hurricane year of 2005, dropped to \$1.06 per pound in the following year, and then rose to \$1.52 per pound in the hurricane year of 2008, and subsequently dropped back down to \$1.29 per pound in 2009.

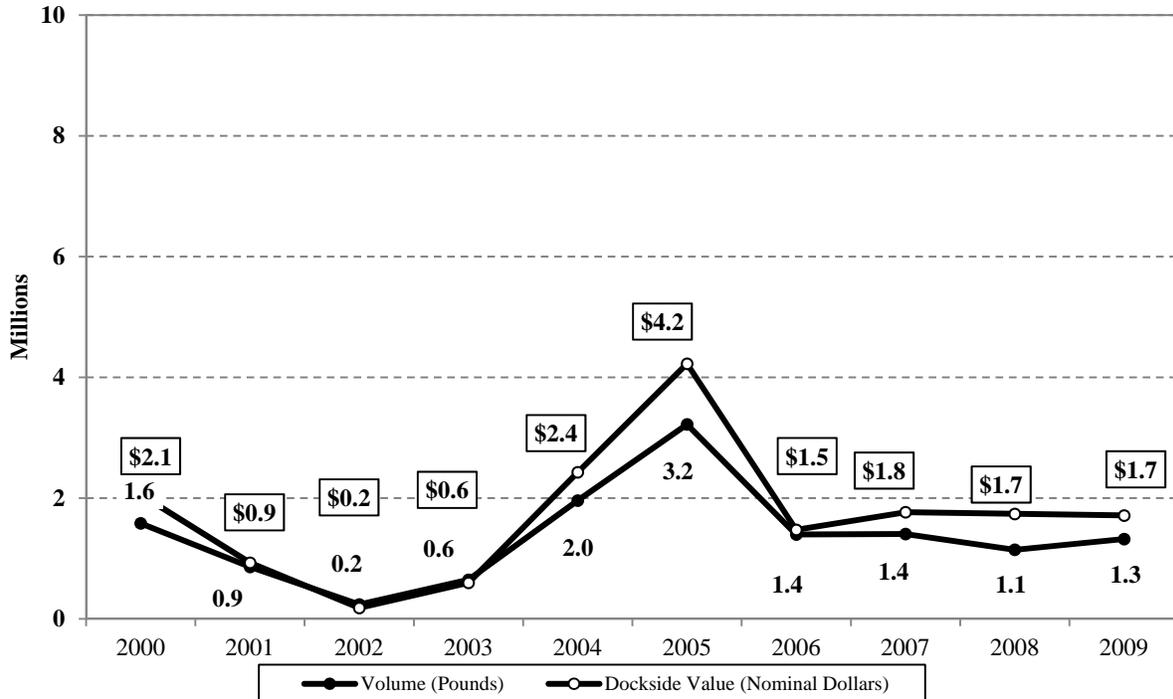


Figure 5.12. Cumulative Volume and Dockside Value of White Shrimp Purchased by Resident Vehicle Shrimp Dealers, By Year: 2000-2009

5.9.3. Resident Fresh Products Shrimp Dealers That Purchased White Shrimp

The number of resident fresh products dealers that purchased white shrimp rose from 88 in 2000 and 62 in 2001 to 229 in 2004 (Figure 5.9). The number dropped to 155 in the hurricane year of 2005, spiked to 259 in 2006, and then slid down to 176 in the hurricane year of 2008. The number of resident fresh products dealer that purchased white shrimp then rose to a period category maximum of 268 in 2009.

The volume of white shrimp among resident fresh products dealers jumped from 131 thousand pounds in 2000 and 106.9 thousand pounds in 2001 to 789.0 thousand pounds in 2004, 727.5 thousand pounds in the hurricane year of 2005, and 1.01 million pounds in 2006 (Figure 5.13). Volume fell to 489.2 thousand pounds in 2008 then rose to 947.2 thousand pounds in 2009.

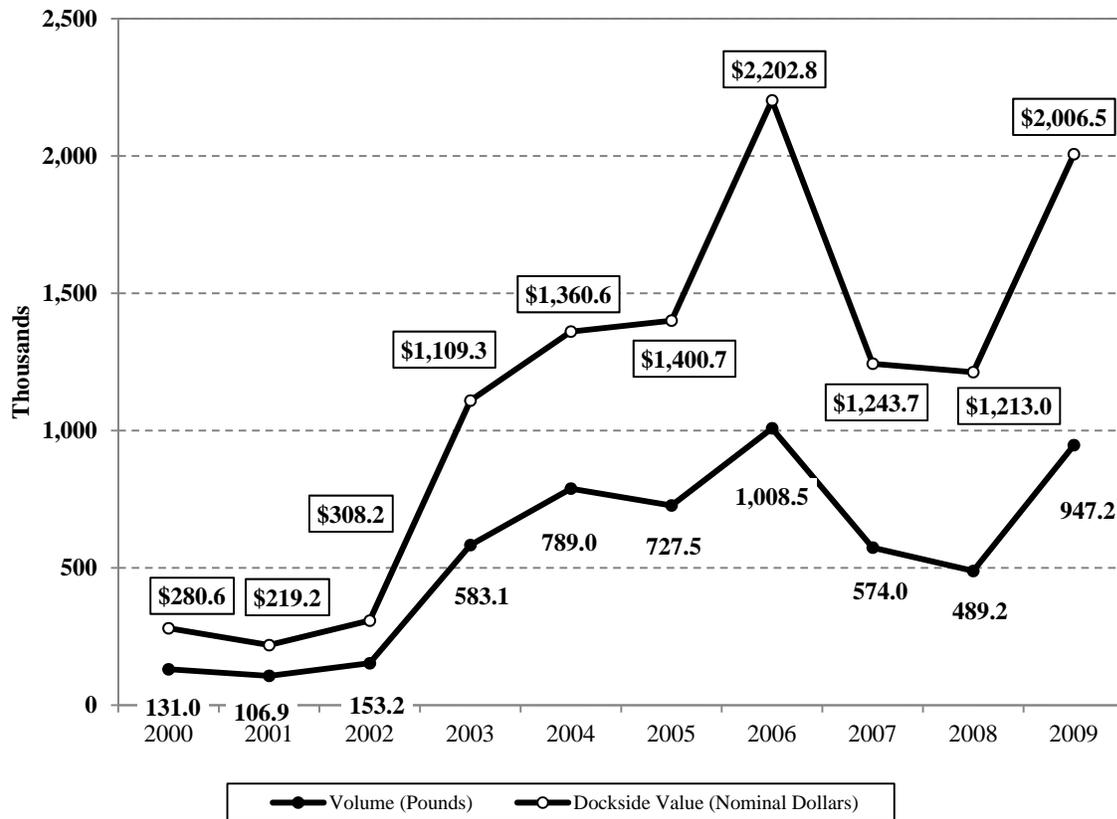


Figure 5.13. Cumulative Volume and Dockside Value of White Shrimp Purchased by Resident Fresh Products Shrimp Dealers, By Year: 2000-2009

The dockside value of white shrimp among resident fresh products dealers climbed from \$280.9 million in 2000 to \$219.2 million in 2001 (Figure 5.13). Dockside value leapt to \$1.36 million in 2004, \$1.40 million in the hurricane year of 2005, and \$2.20 million in 2006. The dockside value of white shrimp dropped to \$1.21 million in the hurricane year of 2008 and then rose to \$2.01 million in 2009.

Only a small percentage of the white shrimp in Louisiana was accounted for by resident fresh products dealers. The volume of white shrimp among fresh products dealers in 2009 constituted only 1.2 percent of the white shrimp purchased by all types of resident shrimp dealers that year.

The price per pound of white shrimp among resident fresh products dealers fell from \$2.14 in 2000 to \$1.72 per pound in 2004 (Figure 5.10). The price per pound rose to \$1.93 per pound in the hurricane year of 2005 to \$2.48 in the hurricane year of 2008 then declined to \$2.12 per pound in 2009.

Chapter 6. Summary and Conclusion

6.1. Introduction

This report has presented estimates and trends for various parameters related to the participation and activities of commercial seafood dealers that purchased shrimp in Louisiana during the 2000-2009 timeframe using data from the LDWF trip ticket program and associated LDWF commercial dealer license datasets. It examined changes in the number of active dealers purchasing shrimp and the volume and dockside value of the shrimp that they purchased directly from commercial fishermen. It included analyses of relative changes in dealer activities following two hurricanes in 2005 (hurricanes Katrina and Rita) and two hurricanes in 2008 (hurricanes Gustav and Ike).

The number of active shrimp dealers is a count of the number of commercial seafood dealer license holders that reported purchasing shrimp directly from commercial fishermen in a particular year. The number of active freshwater dealers dropped 23.2 percent in the hurricane year of 2005 compared to 2004 and was 12.3 percent below the 2004 level in 2007, the year before hurricanes Gustav and Ike. In the hurricane year of 2008, the number of active shrimp dealers was 16.7 percent below the number in 2007. In 2009, the number of dealers purchasing shrimp directly from commercial fishermen was 10.0 percent above the number in 2007 but 3.5 percent below the number active in 2004.

The volume of shrimp purchased directly from commercial fishermen by seafood dealers in Louisiana in 2005 was 23.7 percent below the volume in 2004. In 2007, the volume of shrimp was 17.4 percent below the volume of 2004. The volume in the hurricane year of 2008 was 14.1 percent below the volume of 2007. In 2009, the volume of shrimp purchased directly from commercial fishermen was roughly equal to the volume of 2007 but still 17.2 percent below the volume of 2004.

The dockside value of shrimp purchased by seafood dealers according to trip ticket data in the hurricane year of 2005 was 4.6 percent below the dockside value of 2004. But by 2007, shrimp's dockside value was equal to the 2004 value. In the hurricane year of 2008, dockside value was slightly above the

dockside value of 2007 and in 2009 dockside value was 15.5 percent below the 2007 dockside value and 15.4 percent below the 2004 dockside value.

Shrimp dealers are a diverse group of individuals and firms that display great variety in the quantity of shrimp that they purchase. Shrimp dealers that purchase less than 5,000 pounds in a year usually made up about sixty percent of the total number of active shrimp dealers in a year. Their total purchases across the 2000-2009 study timeframe represented about 0.3 percent of the combined total volume of all active shrimp dealers in that time period. In contrast, the dealers that purchased more than one million pounds of shrimp accounted for 82.0 percent of the combined total volume of all shrimp purchased by all active shrimp dealers from 2000 to 2009.

Resident business dealers bought about 97.7 percent of the combined total volume of brown shrimp and 97.1 percent of the total volume of white shrimp purchased by resident shrimp dealers during the study timeframe. Resident fresh products dealers accounted about 0.2 percent of the volume of brown shrimp and 0.8 percent of the white shrimp among seafood dealers from 2000 to 2009. (Although a small portion of total shrimp, the volume of brown shrimp among fresh products dealers increased at least threefold and the volume of brown shrimp at least fivefold from 2000 to 2009.)

6.2. Data Limitations and Topics for Further Study

This report used the extensive data derived from the LDWF trip ticket program and the LDWF commercial dealer license dataset to illustrate changes in the number of seafood dealers buying shrimp and the volume and dockside value of the shrimp they purchased directly from commercial fishermen in every year during the 2000 to 2009 study timeframe. This report was unable to discern to what extent any observed fluctuations in any of the examined parameters were attributable to hurricanes Katrina and Rita or hurricanes Gustav and Ike.

This report also presented the number of shrimp dealers purchasing a volume of shrimp within defined shrimp volume categories in every year within the study timeframe. The placement of a dealer within a

particular volume category was not a permanent assignment. A dealer might be in one volume category in one year and in a different volume category in subsequent years as its volume fluctuated. This report did not examine the extent of inter-category mobility of the sort described above.

This report employed a fairly broad definition of “active shrimp dealer”, any individual or business that purchased at least one pound of shrimp directly from commercial fishermen in a year. It was unable to distinguish those firms for which buying and selling shrimp was the business’ primary function from those for which buying shrimp was one perhaps relatively minor function among many different business activities.

This report did not examine the diversity of shrimp dealers’ seafood operations. It did not look at the variety, volume, and dockside value of other sorts of seafood that these firms may have purchased directly from commercial fishermen. Further, it was unable to determine the total expenditures these businesses incurred in buying shrimp (and other types of seafood) from sources other than commercial fishermen, such as processors, distributors, and other dealers.

Further, this report examined the volume and dockside value of shrimp, one of many expenditures incurred by the dealers that participated in the trip ticket program. It contains no information regarding total expenditures or revenues and thus implies nothing regarding the profitability or economic viability of these firms.

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Appendix A

Table A.1 **Volume, Dockside Value, and Average Dockside Price per Pound of Shrimp Purchased by Commercial Seafood Dealers in Louisiana: 2000-2009**

Table A.2. **Number of Dealers Buying Shrimp in Different Shrimp Volume Categories: 2000-2009**

Table A.3. **Cumulative Volume of Shrimp Purchased by Dealers in Different Shrimp Volume Categories: 2000-2009**

Table A.4. **Cumulative Dockside Value of Shrimp Purchased by Dealers in Different Shrimp Volume Categories: 2000-2009**

Table A.1. Volume, Dockside Value, and Average Price per Pound of Shrimp Purchased by Commercial Seafood Dealers in Louisiana: 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Volume of Shrimp Purchases	147,283,776	127,788,638	107,127,435	126,116,897	133,974,004	102,276,068	137,578,862	110,652,876	95,048,192	110,873,645
Value of Shrimp Purchases	\$260,129,835	\$195,676,334	\$141,049,198	\$136,208,624	\$139,486,192	\$133,007,194	\$147,251,829	\$139,528,307	\$140,425,937	\$117,938,114
Average Price per Pound	\$1.77	\$1.53	\$1.32	\$1.08	\$1.04	\$1.30	\$1.07	\$1.26	\$1.48	\$1.06

Table A.2 Number of Dealers Buying Shrimp in Different Shrimp Volume Categories: 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	(Number of Active Dealers)									
Less than 5,000 Pounds	224	158	194	316	336	244	302	301	224	315
5,000-100,000 Pounds	46	42	51	97	96	77	108	83	83	113
100,00-500,000 Pounds	30	43	39	32	22	21	10	15	21	16
500,000-1,000,000 Pounds	17	19	21	19	18	15	14	20	17	15
More than 1,000,000 Pounds	53	44	32	37	40	36	39	30	29	35

Table A.3. Cumulative Volume of Shrimp Purchased by Dealers in Different Shrimp Volume Categories: 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	(Pounds)									
Less than 5,000 Pounds	241,938	167,796	198,606	377,853	438,970	271,540	405,333	388,491	300,531	409,825
5,000-100,000 Pounds	1,202,016	922,998	874,178	1,722,900	1,568,080	1,699,759	1,650,206	1,369,578	1,540,788	1,765,194
100,00-500,000 Pounds	7,588,062	13,101,631	11,327,332	8,985,190	5,716,670	6,470,596	2,883,105	4,217,527	6,662,178	4,074,034
500,000-1,000,000 Pounds	12,059,249	14,349,422	14,906,084	14,129,127	12,432,330	10,904,120	10,103,581	14,579,995	13,133,889	10,378,518
More than 1,000,000 Pounds	126,192,656	99,246,807	79,821,235	100,901,827	113,818,409	82,930,054	122,536,637	90,097,284	73,410,803	94,246,072

Table A.4. Cumulative Dockside Value of Shrimp Purchased by Dealers in Different Shrimp Volume Categories: 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	(Nominal Dollars)									
Less than 5,000 Pounds	\$556,242	\$405,063	\$441,591	\$741,824	\$862,833	\$605,309	\$864,205	\$853,888	\$798,574	\$836,229
5,000-100,000 Pounds	\$2,234,251	\$1,762,591	\$1,425,589	\$2,457,904	\$2,273,455	\$2,680,336	\$3,336,754	\$2,663,009	\$3,541,560	\$3,804,394
100,00-500,000 Pounds	\$12,942,325	\$22,029,498	\$14,461,372	\$8,335,826	\$4,873,472	\$7,444,488	\$2,845,233	\$4,653,587	\$7,758,976	\$4,311,227
500,000-1,000,000 Pounds	\$21,158,050	\$19,726,798	\$18,549,126	\$14,812,330	\$11,952,965	\$11,779,501	\$9,110,973	\$14,408,218	\$16,984,064	\$8,565,962
More than 1,000,000 Pounds	\$223,238,404	\$151,752,385	\$106,171,519	\$109,860,739	\$119,523,446	\$110,497,560	\$131,094,664	\$116,949,605	\$111,342,738	\$100,420,265

Appendix B

Table B.1. Number of Active Resident Dealers in Southeast Louisiana, By Selected License Type, By Year: 2000-2009

Table B.2. Volume of Shrimp Purchased in Southeast Louisiana, By Selected License Types, By Year: 2000-2009

Table B.3. Dockside Value of Shrimp Purchased in Southeast Louisiana, By Selected License Types, By Year: 2000-2009

Table B.4. Average Dockside Price per Pound of Shrimp in Southeast Louisiana, By Selected License Type, By Year: 2000-2009

Table B.1. Number of Active Resident Dealers in Southeast Louisiana, By Selected License Type, By Year: 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wholesale/Retail Dealer -- Business	114	109	103	132	120	105	80	84	84	86
Wholesale/Retail Dealer -- Vehicle	9	8	9	16	13	15	15	13	9	21
Fresh Products Dealer	34	18	44	73	81	54	94	75	58	105

Table B.2. Volume of Shrimp Purchased in Southeast Louisiana, By Selected License Types, By Year: 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	(Pounds)									
Wholesale/Retail Dealer -- Business	77,701,040	70,028,546	60,819,464	69,265,153	75,556,216	48,383,044	75,046,091	64,226,835	55,465,115	61,208,268
Wholesale/Retail Dealer -- Vehicle	254,933	56,043	167,826	107,162	1,556,528	1,654,346	190,174	148,166	192,023	163,188
Fresh Products Dealer	47,023	54,931	59,044	106,075	147,008	198,006	303,060	146,289	200,159	293,441

Table B.3. Dockside Value of Shrimp Purchased in Southeast Louisiana, By Selected License Types, By Year: 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wholesale/Retail- Business	\$134,832,843	\$105,873,241	\$77,025,427	\$72,614,670	\$74,804,732	\$60,783,127	\$77,767,651	\$78,944,040	\$82,774,675	\$64,475,721
Wholesale/Retail-Vehicle	\$424,039	\$85,121	\$247,480	\$113,548	\$1,998,237	\$2,279,267	\$389,842	\$312,104	\$468,606	\$324,167
Fresh Products Dealer	\$89,587	\$120,142	\$123,620	\$167,055	\$232,100	\$443,591	\$654,415	\$314,502	\$509,364	\$557,435

Table B.4. Average Dockside Price per Pound of Shrimp in Southeast Louisiana, By Selected License Type, By Year: 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wholesale/Retail Dealer -- Business	\$1.74	\$1.51	\$1.27	\$1.05	\$0.99	\$1.26	\$1.04	\$1.23	\$1.49	\$1.05
Wholesale/Retail Dealer -- Vehicle	\$1.66	\$1.52	\$1.47	\$1.06	\$1.28	\$1.38	\$2.05	\$2.11	\$2.44	\$1.99
Fresh Products Dealer	\$1.91	\$2.19	\$2.09	\$1.57	\$1.58	\$2.24	\$2.16	\$2.15	\$2.54	\$1.90

Appendix C

Table C.1. Number of Active Resident Shrimp Dealers in Southwest Louisiana, By Selected License Type, By Year: 2000-2009

Table C.2. Volume of Shrimp Purchased in Southwest Louisiana, By Selected License Types, By Year: 2000-2009

Table C.3. Dockside Value of Shrimp Purchased in Southwest Louisiana, By Selected License Types, By Year: 2000-2009

Table C.4. Average Dockside Price per Pound of Shrimp in Southwest Louisiana, By Selected License Type, By Year: 2000-2009

Table C.1. Number of Active Resident Shrimp Dealers in Southwest Louisiana, By Selected License Type, By Year: 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	(Number of Active Dealers)									
Wholesale/Retail Dealer -- Business	100	99	90	90	89	75	66	72	65	61
Wholesale/Retail Dealer -- Vehicle	7	6	9	20	16	13	7	12	7	11
Fresh Products Dealer	94	53	71	154	182	122	200	180	137	192

Table C.2. Volume of Shrimp Purchased in Southwest Louisiana, By Selected License Types, By Year: 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	(Pounds)									
Wholesale/Retail Dealer -- Business	66,766,300	54,755,479	44,261,007	53,783,544	53,491,133	49,222,566	59,242,533	42,613,416	36,145,373	46,168,735
Wholesale/Retail Dealer -- Vehicle	1,802,844	1,477,684	818,029	970,018	1,539,153	2,252,492	1,659,995	1,793,569	1,201,749	1,260,032
Fresh Products Dealer	110,604	71,875	98,695	476,598	625,163	508,037	825,068	533,067	417,113	782,038

Table C.3. Dockside Value of Shrimp Purchased in Southwest Louisiana, By Selected License Types, By Year: 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	(Nominal Value)									
Wholesale/Retail- Business	\$120,602,860	\$85,564,097	\$61,204,040	\$59,533,424	\$58,702,100	\$65,810,578	\$64,739,908	\$55,410,622	\$52,247,430	\$48,076,004
Wholesale/Retail- Vehicle	\$2,384,627	\$1,660,786	\$748,509	\$791,361	\$1,212,681	\$2,610,695	\$1,451,994	\$1,895,626	\$1,474,977	\$1,444,654
Fresh Products Dealer	\$243,559	\$157,950	\$211,229	\$948,105	\$1,097,229	\$953,368	\$1,817,269	\$1,164,716	\$935,963	\$1,693,472

Table C.4. Average Dockside Price per Pound of Shrimp in Southwest Louisiana, By Selected License Type, By Year: 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	(Average Nominal Dockside Price per Pound)									
Wholesale/Retail Dealer -- Business	\$1.81	\$1.56	\$1.38	\$1.11	\$1.10	\$1.34	\$1.09	\$1.30	\$1.45	\$1.04
Wholesale/Retail Dealer -- Vehicle	\$1.32	\$1.12	\$0.92	\$0.82	\$0.79	\$1.16	\$0.87	\$1.06	\$1.23	\$1.15
Fresh Products Dealer	\$2.20	\$2.20	\$2.14	\$1.99	\$1.76	\$1.88	\$2.20	\$2.18	\$2.24	\$2.17

Table C.5. Number of Active Dealers and Volume and Dockside Price of Shrimp among Dealers in Areas Outside Southeast and Southwest Louisiana*, By Year: 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Number of Dealers	12	12	9	12	10	5	9	11	8	13
Volume of Shrimp	601,179	1,343,735	903,271	1,408,141	1,058,918	50,166	307,307	1,191,533	1,202,835	570,058
Dockside Value of Shrimp	\$1,551,755	\$2,214,738	\$1,488,669	\$2,039,863	\$1,438,297	\$110,371	\$425,974	\$1,486,696	\$1,632,559	\$741,245

*Areas Outside Southeast or Southwest Louisiana Include the Rest of Louisiana and Other States

Appendix D

Table D.1. Number of Resident Dealers That Purchased Brown Shrimp, By Selected License Type, By Year: 2000-2009

Table D.2. Volume of Brown Shrimp Purchased by Selected Resident Seafood Dealer License Type, By Year: 2000-2009

Table D.3. Nominal Dockside Value of Brown Shrimp Purchased by Selected Resident Seafood Dealer License Type, By Year: 2000-2009

Table D.4. Average Dockside Value of Brown Shrimp Purchased by Selected Resident Seafood Dealer License Type, By Year: 2000 -2009

Table D.1. Number of Resident Dealers That Purchased Brown Shrimp, By Selected License Type, By Year: 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
License Type	(Number of Active Dealers)									
Resident Wholesale/Retail Dealer -- Business	170	167	154	173	152	129	110	108	105	100
Resident Wholesale/Retail Dealer -- Vehicle	10	6	8	12	12	8	9	7	3	13
Resident Fresh Products Dealer License	64	32	52	68	87	59	82	82	59	87

Table D.2. Volume of Brown Shrimp Purchased by Selected Resident Seafood Dealer License Type, By Year: 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
License Type	(Pounds)									
Resident Wholesale/Retail Dealer -- Business	60,824,347	62,165,270	51,875,623	57,873,060	53,855,321	38,158,618	47,155,944	44,267,426	27,105,270	32,105,311
Resident Wholesale/Retail Dealer -- Vehicle	471,903	534,700	741,264	395,358	1,091,796	660,080	443,182	435,411	145,004	97,353
Resident Fresh Products Dealer License	50,628	39,544	31,271	75,437	74,325	52,248	134,610	159,479	214,120	138,514

Table D.3. Nominal Dockside Value of Brown Shrimp Purchased by Selected Resident Seafood Dealer License Type, By Year: 2000-2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
License Type	(Nominal Value)									
Resident Wholesale/Retail Dealer -- Business	\$97,730,143	\$90,531,546	\$59,548,131	\$51,299,691	\$39,482,795	\$40,266,867	\$37,881,457	\$42,649,898	\$25,385,478	\$24,491,067
Resident Wholesale/Retail Dealer -- Vehicle	\$753,360	\$752,575	\$817,177	\$310,690	\$776,648	\$669,197	\$368,713	\$416,247	\$203,823	\$59,134
Resident Fresh Products Dealer License	\$82,264	\$69,988	\$54,016	\$102,681	\$104,318	\$88,463	\$307,472	\$298,487	\$278,729	\$271,413
Total Overall Value for all Licenses	\$99,327,798	\$93,269,791	\$61,548,139	\$52,849,115	\$41,123,956	\$41,057,517	\$38,811,486	\$43,763,468	\$26,284,701	\$25,297,939

Table D.4. Average Dockside Value of Brown Shrimp Purchased by Selected Resident Seafood Dealer License Type, By Year: 2000 -2009

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	(Average Nominal Price per Pound)									
Resident Wholesale/Retail Dealer -- Business	\$1.61	\$1.46	\$1.15	\$0.89	\$0.73	\$1.06	\$0.80	\$0.96	\$0.94	\$0.76
Resident Wholesale/Retail Dealer -- Vehicle	\$1.60	\$1.41	\$1.10	\$0.79	\$0.71	\$1.01	\$0.83	\$0.96	\$1.41	\$0.61
Resident Fresh Products Dealer License	\$1.62	\$1.77	\$1.73	\$1.36	\$1.40	\$1.69	\$2.28	\$1.87	\$1.30	\$1.96

Appendix E

Table E.1. Number of Resident Dealers That Purchased White Shrimp, By Selected License Type, By Year: 2000-2009

Table E.2. Volume of White Shrimp Purchased by Selected Resident Seafood Dealer License Type, By Year: 2000-2009

Table E.3. Nominal Dockside Value of White Shrimp Purchased by Selected Resident Seafood Dealer License Type, By Year: 2000-2009

Table E.4. Average Dockside Value of White Shrimp Purchased by Selected Resident Seafood Dealer License Type, By Year: 2000 -2009

Table E.1. Number of Resident Dealers That Purchased White Shrimp, By Selected License Type, By Year: 2000-2009

License Type	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	(Number of Active Dealers)									
Resident Wholesale/Retail Dealer -- Business	187	178	166	194	183	155	132	141	141	137
Resident Wholesale/Retail Dealer -- Vehicle	14	12	16	34	27	28	22	26	18	32
Resident Fresh Products Dealer License	88	62	83	197	229	155	259	218	176	268

Table E.2. Volume of White Shrimp Purchased by Selected Resident Seafood Dealer License Type, By Year: 2000-2009

License Type	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	(Pounds)									
Resident Wholesale/Retail Dealer -- Business	76,283,564	54,618,512	46,433,508	62,235,145	71,853,261	57,457,053	86,180,331	62,195,439	64,136,243	74,777,621
Resident Wholesale/Retail Dealer -- Vehicle	1,582,850	862,493	238,665	649,075	1,961,349	3,220,625	1,397,519	1,406,440	1,144,773	1,323,768
Resident Fresh Products Dealer License	130,982	106,922	153,187	583,104	789,400	727,466	1,008,460	574,026	489,177	947,157

Table E.3. Nominal Dockside Value of White Shrimp Purchased by Selected Resident Seafood Dealer License Type, By Year: 2000-2009

License Type	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	(Nominal Dockside Value)									
Resident Wholesale/Retail Dealer -- Business	\$153,516,249	\$96,952,626	\$76,139,443	\$79,941,024	\$93,037,793	\$85,535,045	\$104,227,204	\$91,948,191	\$110,047,625	\$87,868,345
Resident Wholesale/Retail Dealer -- Vehicle	\$2,057,114	\$926,536	\$182,714	\$598,524	\$2,428,333	\$4,227,192	\$1,476,386	\$1,767,137	\$1,738,451	\$1,712,650
Resident Fresh Products Dealer License	\$280,614	\$219,175	\$308,218	\$1,109,320	\$1,360,615	\$1,400,648	\$2,202,782	\$1,243,673	\$1,212,960	\$2,006,543

Table E.4. Average Dockside Price per Pound of White Shrimp Purchased by Selected Resident Seafood Dealer License Type, By Year: 2000 -2009

License Type	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	(Average Nominal Price per Pound)									
Resident Wholesale/Retail Dealer -- Business	\$2.01	\$1.78	\$1.64	\$1.28	\$1.29	\$1.49	\$1.21	\$1.48	\$1.72	\$1.18
Resident Wholesale/Retail Dealer -- Vehicle	\$1.30	\$1.07	\$0.77	\$0.92	\$1.24	\$1.31	\$1.06	\$1.26	\$1.52	\$1.29
Resident Fresh Products Dealer License	\$2.14	\$2.05	\$2.01	\$1.90	\$1.72	\$1.93	\$2.18	\$2.17	\$2.48	\$2.12

