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**A Graphical Presentation of
Economic Data for the
Shrimp Fishery in the
Gulf of Mexico
January 1981 to December
1986**

by:

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August 1988



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National Oceanic and Atmospheric Administration
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National Marine Fisheries Service
James W. Brennan, Assistant Administrator for Fisheries

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INTRODUCTION

The Gulf of Mexico shrimp fishery encompasses large physical and economic dimensions. Data on revenue from this fishery is maintained by the National Marine Fisheries Service in the Southeast Fisheries Center's shrimp landings files. The graphs and tables presented here illustrate aspects of that data from January 1981 to December 1986 inclusive.

The data is presented here on an essentially macro scale aggregating over all species and size of shrimp found in the Gulf of Mexico. The first part of the presentation presents information extracted on an aggregated Gulf-wide basis. The second part presents data on a more disaggregated scale where it is extracted on a state-wide basis for the five individual states, i.e. Florida west coast, Alabama, Mississippi, Louisiana, and Texas. The third section presents the data on the basis of the number of trips taken by individual vessels in any year.

It is hoped that these charts will generate interest for further and more rigorous economic analysis of the Gulf of Mexico shrimp fishery.

EXPLANATION OF THE GRAPHS

Gulf of Mexico

The data extracted for use in this section from the NMFS shrimp landings files includes all of those trips taken in any calendar year from 1981 to 1986 inclusive, by vessels in the Gulf of Mexico, which were either wholly offshore trips, or were trips which were taken in a combination of offshore and inshore waters. The data used in this section also includes all of the consolidated records for each calendar year in the shrimp landings files. All graphs involving dollar denominations appear both in current as well as constant dollars. Data extracted on a Gulf-wide basis are illustrated in graphs 1

to 18. Graphs 1 to 9 show levels of the variables. Graphs 10 to 18 show rates of growth (R.O.G.) of the variables.

Individual States

The data extracted on the state-wide basis for each of the five individual states for presentation in this section excludes all trips which were taken exclusively in in-shore waters. All consolidated records appearing in NMFS shrimp landings files also are excluded from data extracted on a state-wide basis. Unless otherwise stated, only the current dollar values of variables involving money are presented in the graphs. Graphs 19 to 21 present annual data for each state in the Gulf of Mexico. Graphs 22 to 27 present monthly data for particular years attributable to each state over the six years for a comparison of possible changes in market share of the individual states over this time. Graph 29 uses dollar values deflated by the producer price index and shows value of landings in constant (1981) dollars.

Number of Trips

Graphs 30 to 45 present information based on the number of trips taken by individual boats and vessels. The data used excludes trips taken wholly in inshore waters, and excludes all consolidated records in shrimp landings files.

Graphs 30 to 35 sequentially represent years 1981 to 1986 and show the number of vessels that have taken a certain number of trips during each of these years. Graph 36 combines all six years and has classification of the number of trips along the horizontal axis. The number of trips are classified as being from 1 to 10, 11 to 20, etc., all the way up to 151 to 160. Thus, number 10 along the horizontal axis indicates the number of vessels that have made between 1 and 10 trips for that year.

Graph 37 presents the same information as graph 36, except the years are stacked on top of one another to show which class of trips is the most common one taken

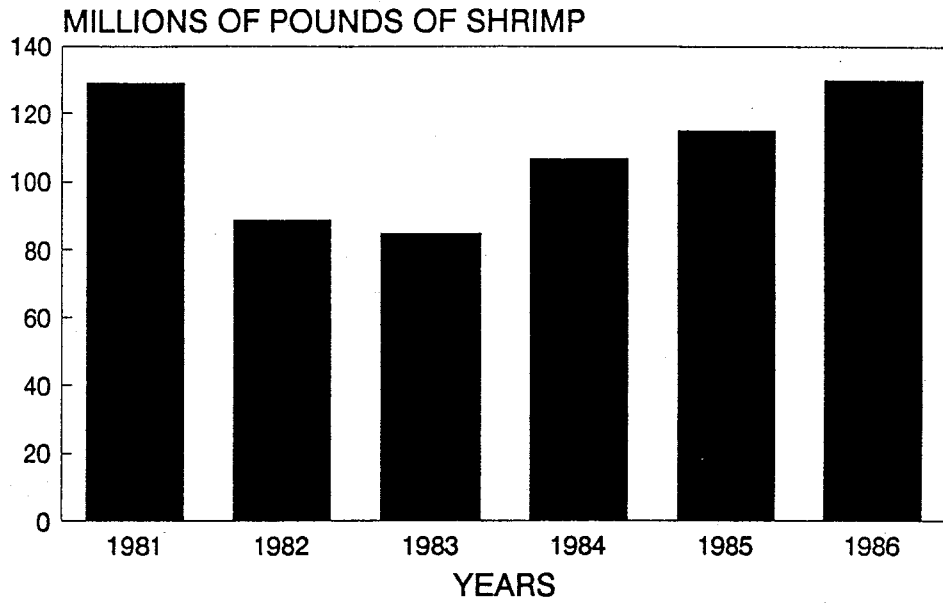
by the maximum number of vessels. Graphs 38 and 39 have the same information giving a comparison of all six years, but present the information to show greater detail.

Graphs 40 and 41 present information on the average pounds of shrimp caught by each class. Graph 40 shows the entire range of the number of trips for all six years. Graph 41 stacks the six years to show which class on average had the highest catch.

Graphs 42 through 45 present information on earnings. Graph 42 shows the average earnings in terms of current dollars for each class of trips for all six years, and over the entire range of the number of trips taken by individual vessels over this period. Graph 43 presents the same information but in constant (1981) dollars. Graph 44 stacks the six years on top of one another to show which class on average had earned the most.

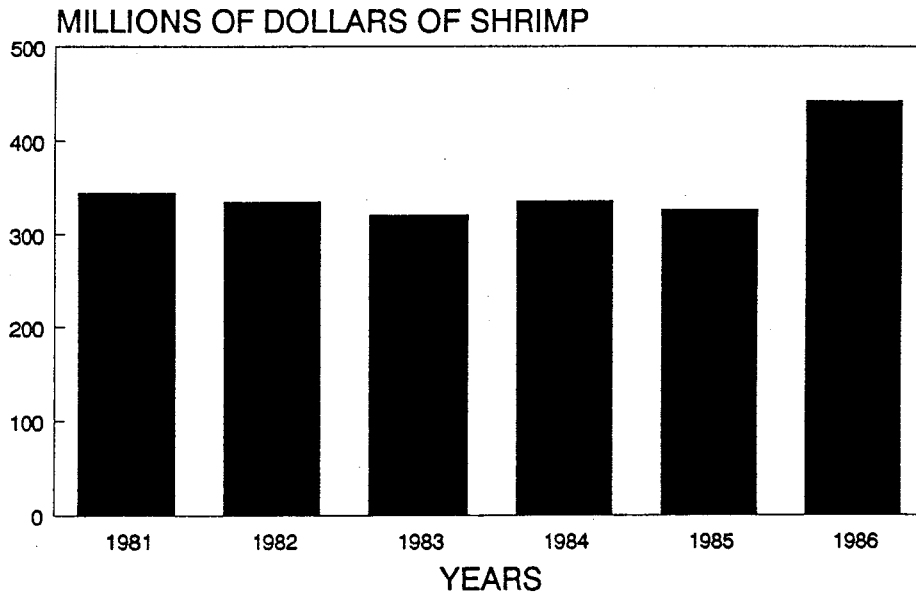
Graph 45 presents information on the average price or average return per pound received by the various classes of trips taken. It shows return per pound in current dollars for all six years.

POUNDS OF SHRIMP CAUGHT GULF OF MEXICO



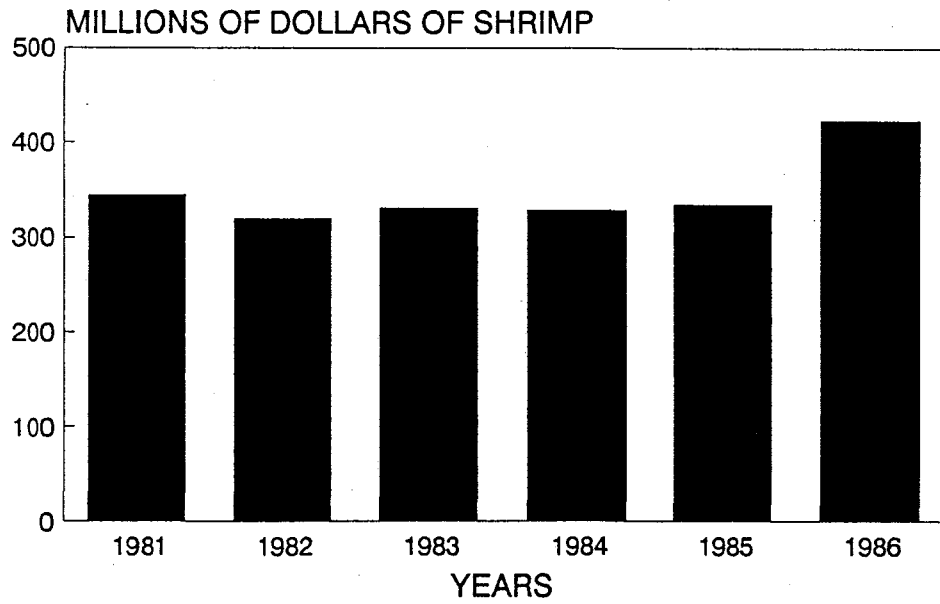
GRAPH 1

REVENUE: CURRENT DOLLARS GULF OF MEXICO



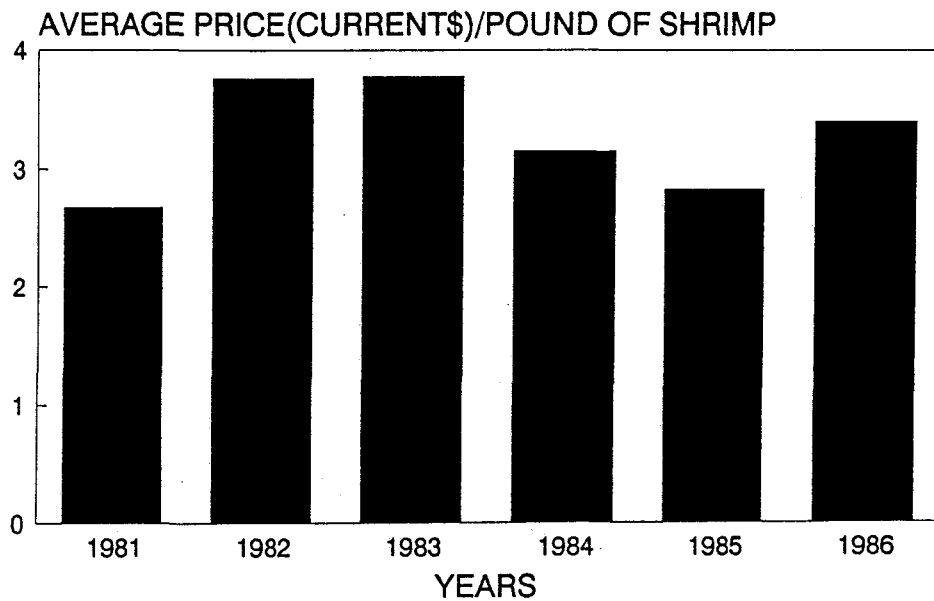
GRAPH 2

REVENUE IN CONSTANT(1981) DOLLARS GULF OF MEXICO



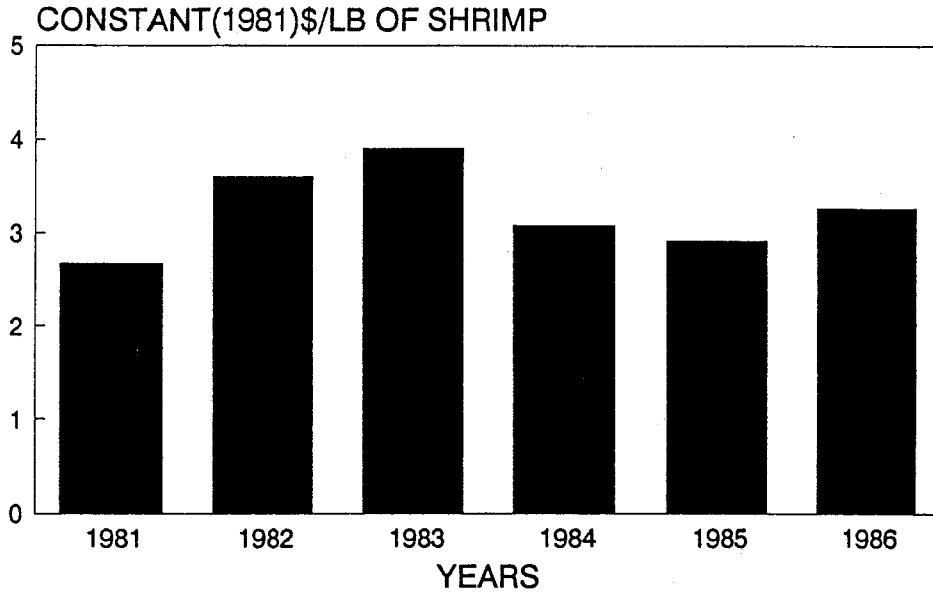
GRAPH 3

AVERAGE PRICE PER POUND GULF OF MEXICO SHRIMP



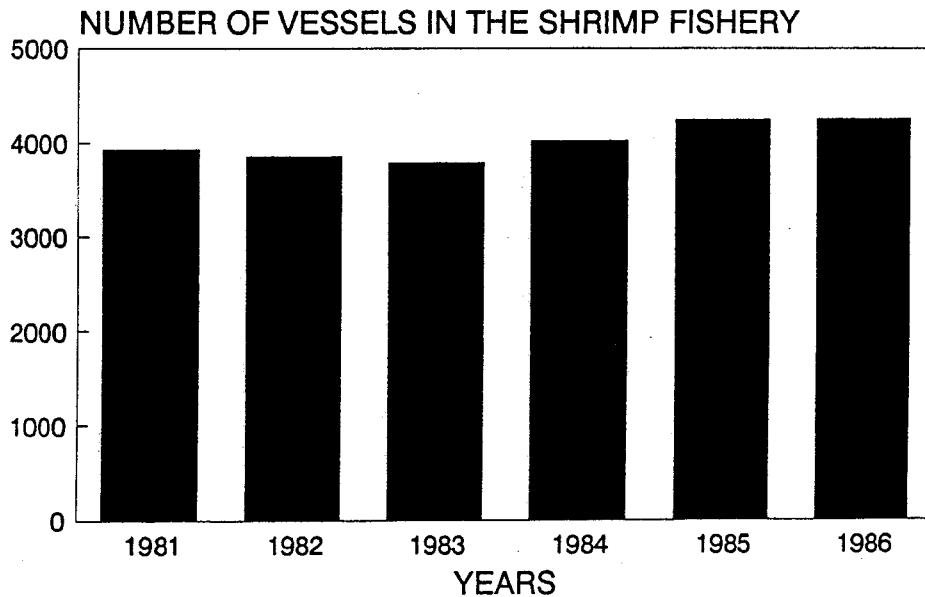
GRAPH 4

RETURN/POUND:CURRENT \$ GULF OF MEXICO



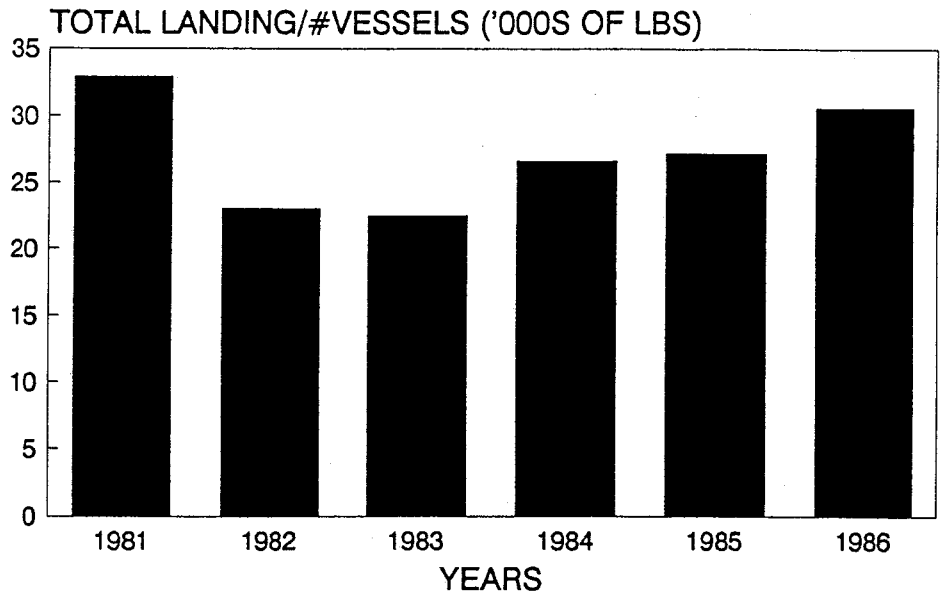
GRAPH 5

NUMBER OF VESSELS GULF OF MEXICO SHRIMP



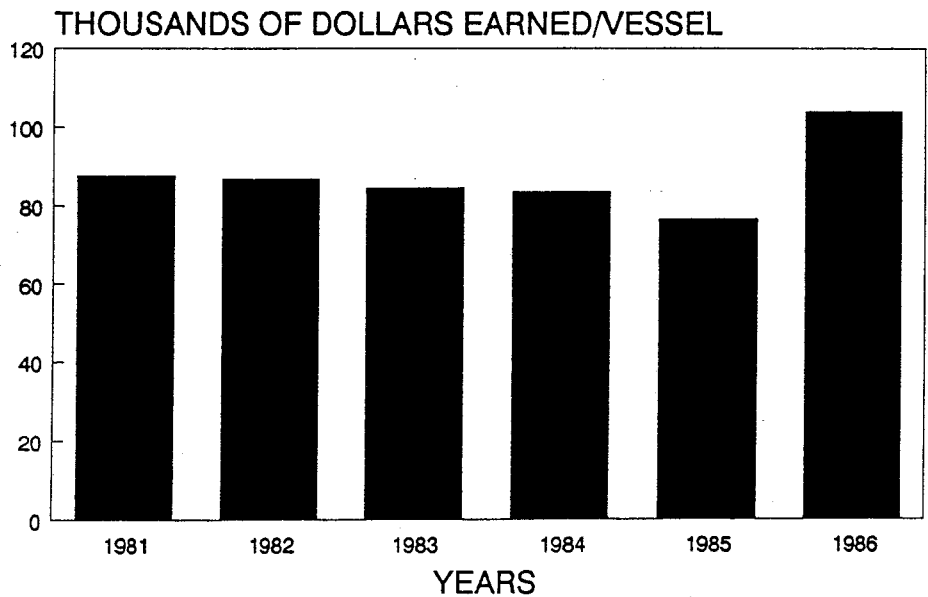
GRAPH 6

AVERAGE CATCH PER VESSEL GULF OF MEXICO SHRIMP



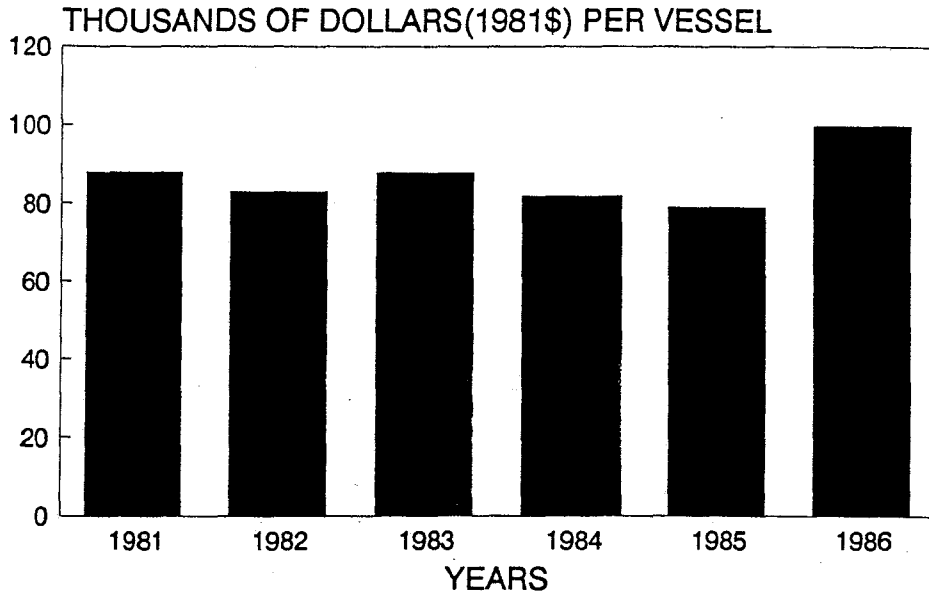
GRAPH 7

AVERAGE VESSEL EARNINGS GULF OF MEXICO SHRIMP



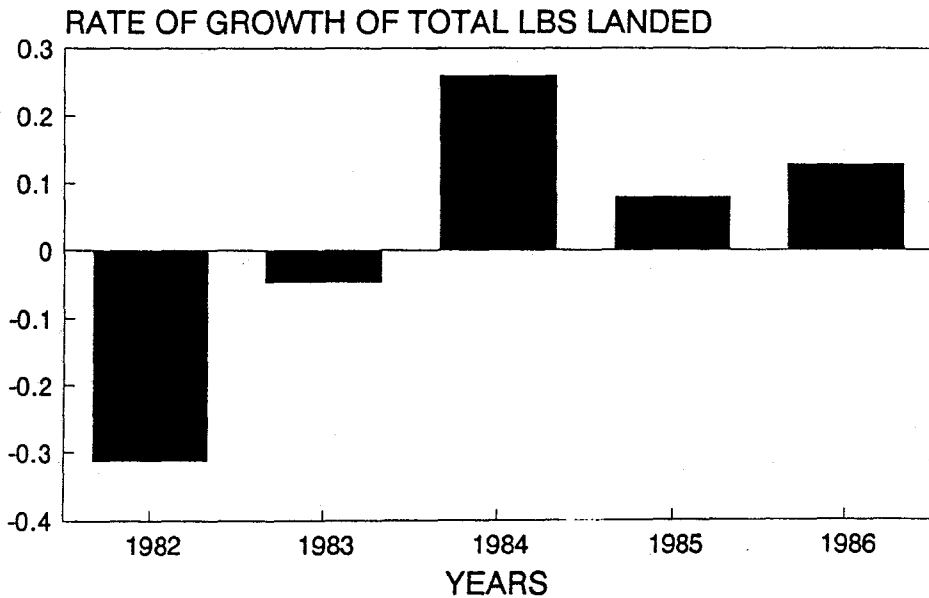
GRAPH 8

REAL EARNINGS PER VESSEL GULF OF MEXICO SHRIMP



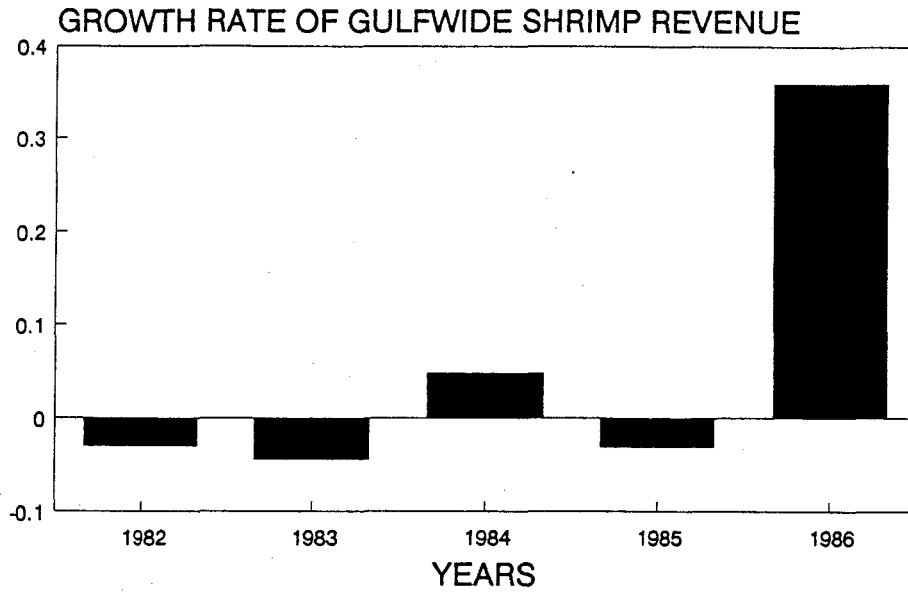
GRAPH 9

GROWTH:POUNDS LANDED GULF OF MEXICO SHRIMP



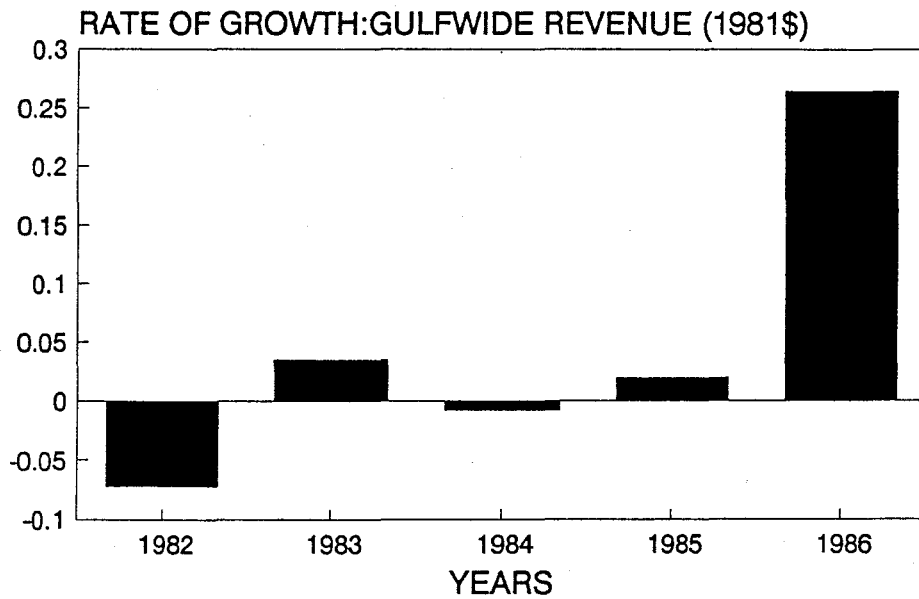
GRAPH 10

SHRIMP REVENUE GROWTH GULF OF MEXICO SHRIMP



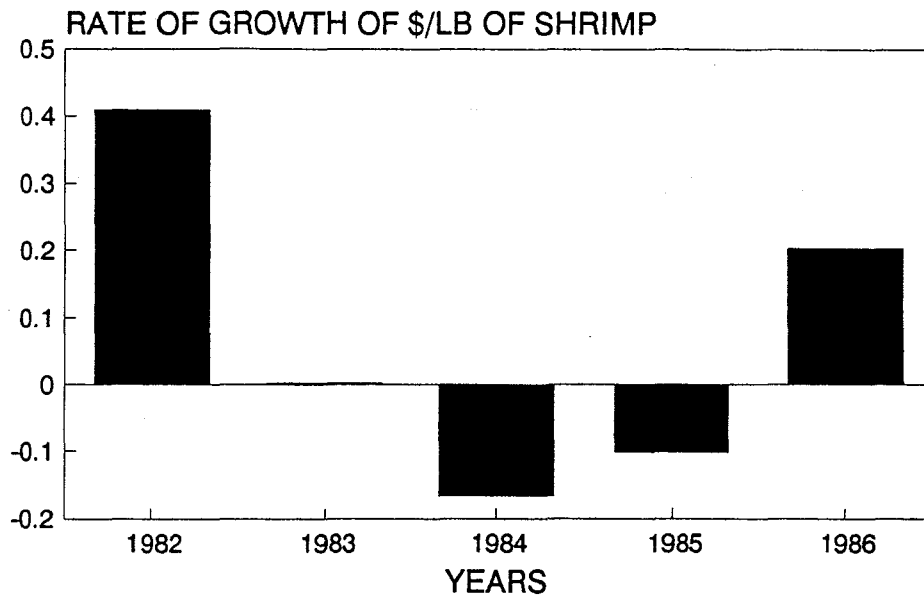
GRAPH 11

GROWTH OF TOTAL REVENUE GULF OF MEXICO SHRIMP



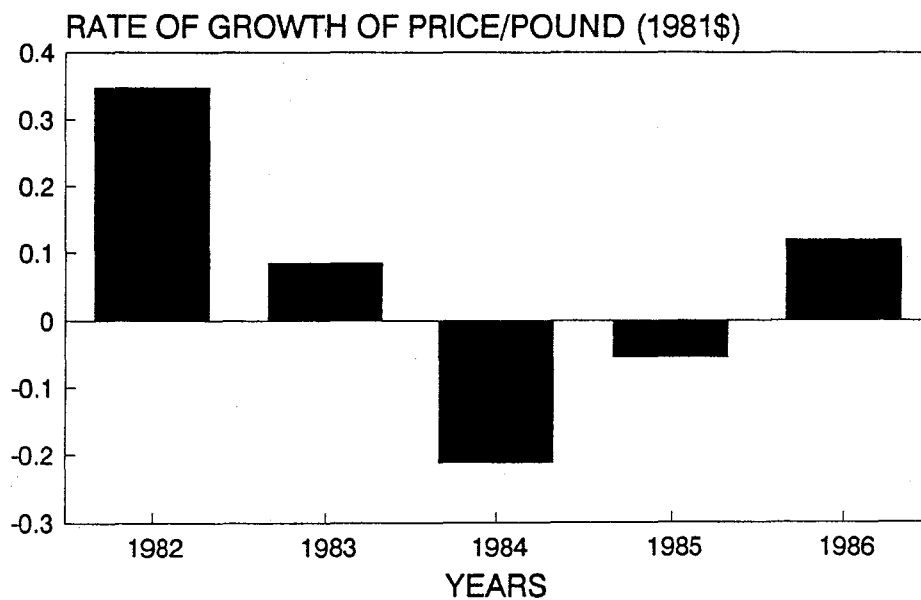
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GROWTH OF AVERAGE PRICE GULF OF MEXICO SHRIMP



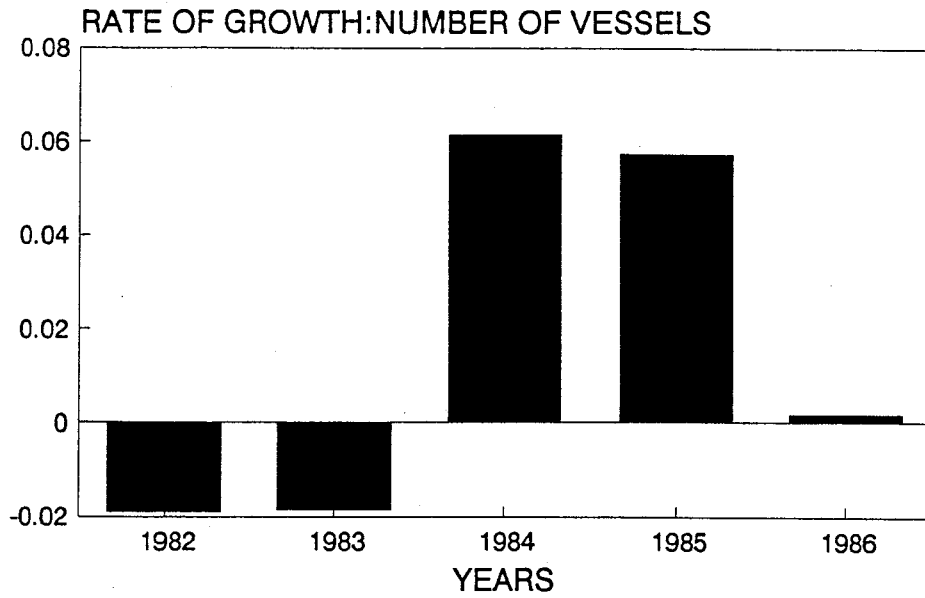
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RATE OF GROWTH OF PRICE GULF OF MEXICO SHRIMP



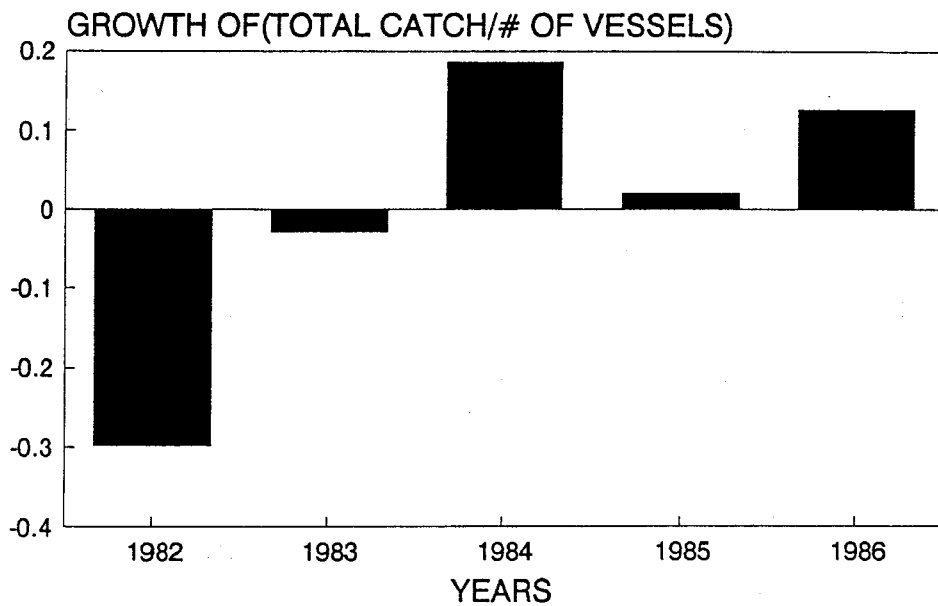
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GROWTH OF NUMBER OF VESSELS GULF OF MEXICO SHRIMP



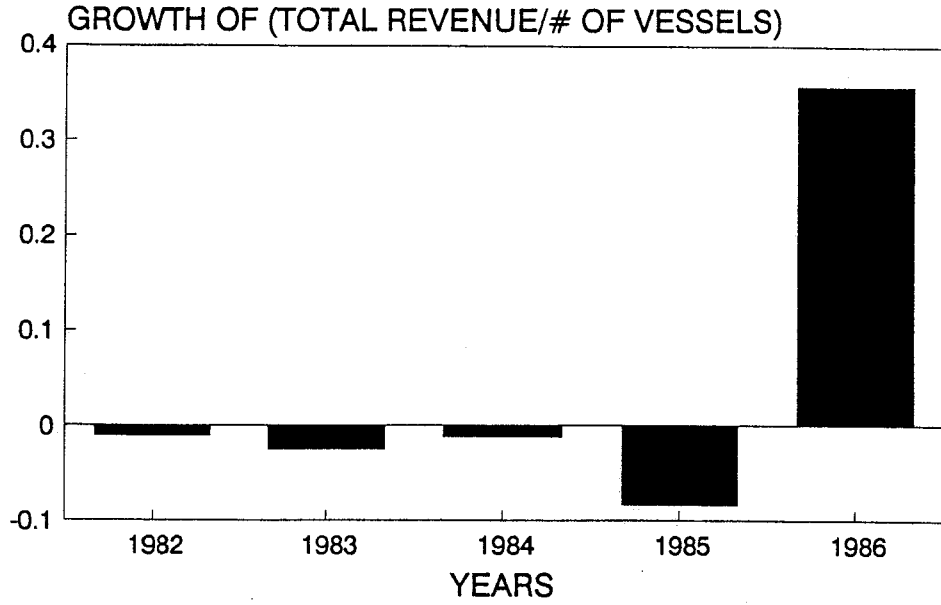
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GROWTH OF AVERAGE CATCH GULF OF MEXICO SHRIMP



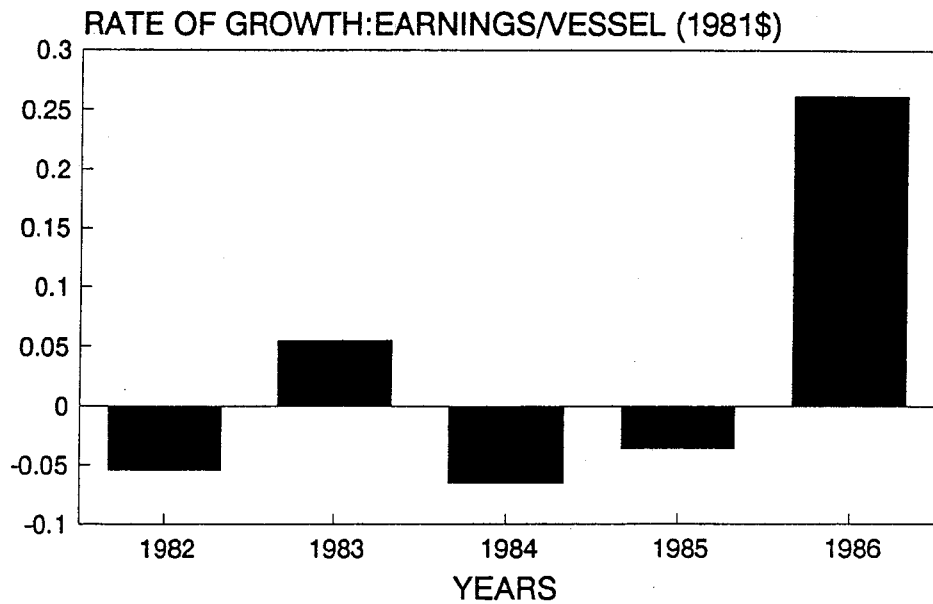
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GROWTH:AVERAGE EARNINGS GULF OF MEXICO SHRIMP



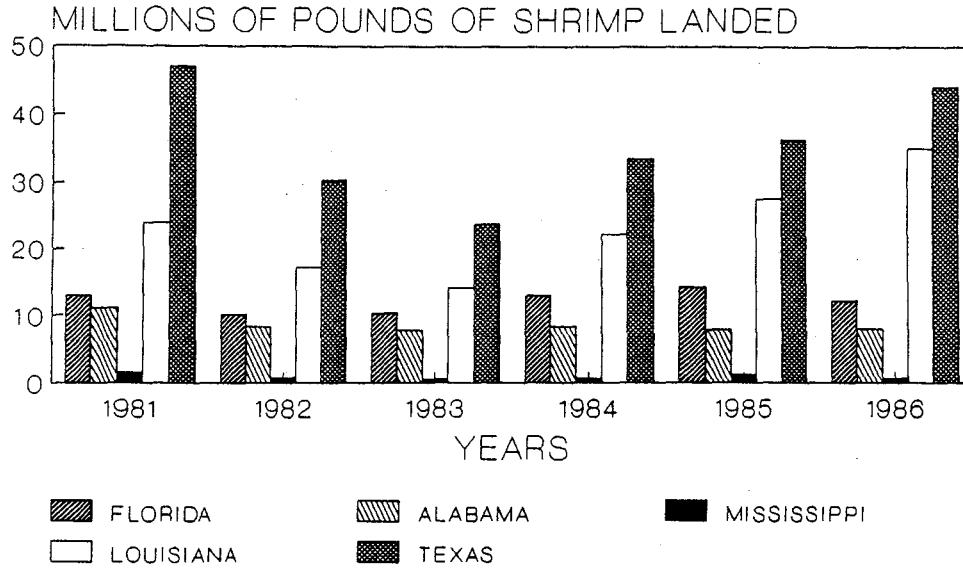
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RATE OF GROWTH:EARNINGS GULF OF MEXICO SHRIMP



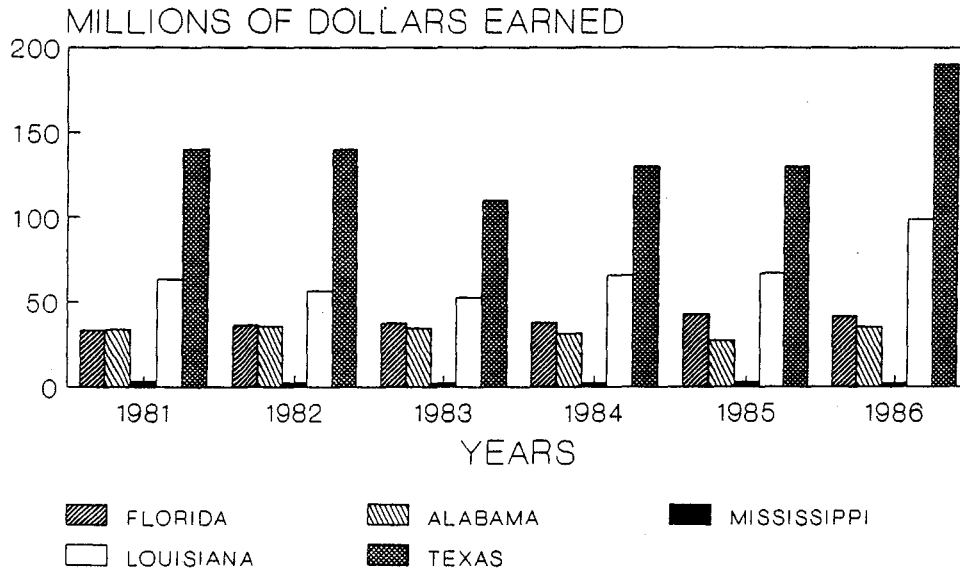
GRAPH 18

LANDINGS OF INDIVIDUAL STATES GULF OF MEXICO SHRIMP



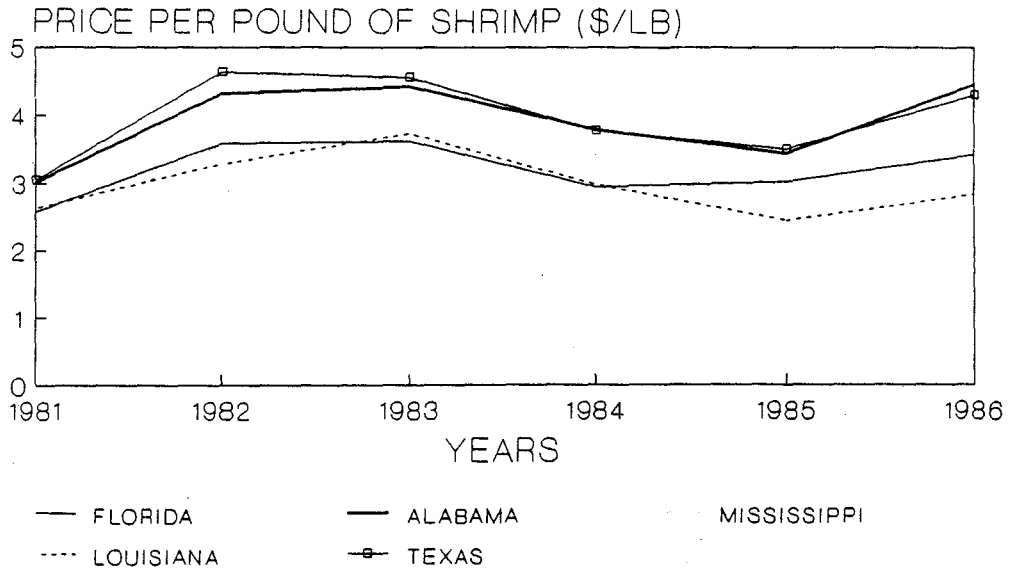
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REVENUES OF INDIVIDUAL STATES GULF OF MEXICO SHRIMP



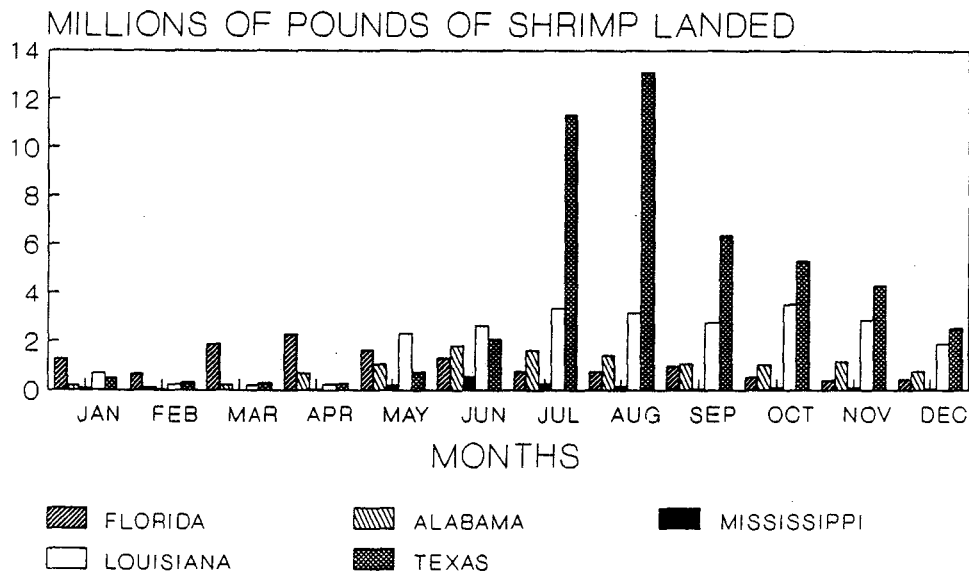
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AVERAGE PRICE: EACH STATE GULF OF MEXICO SHRIMP



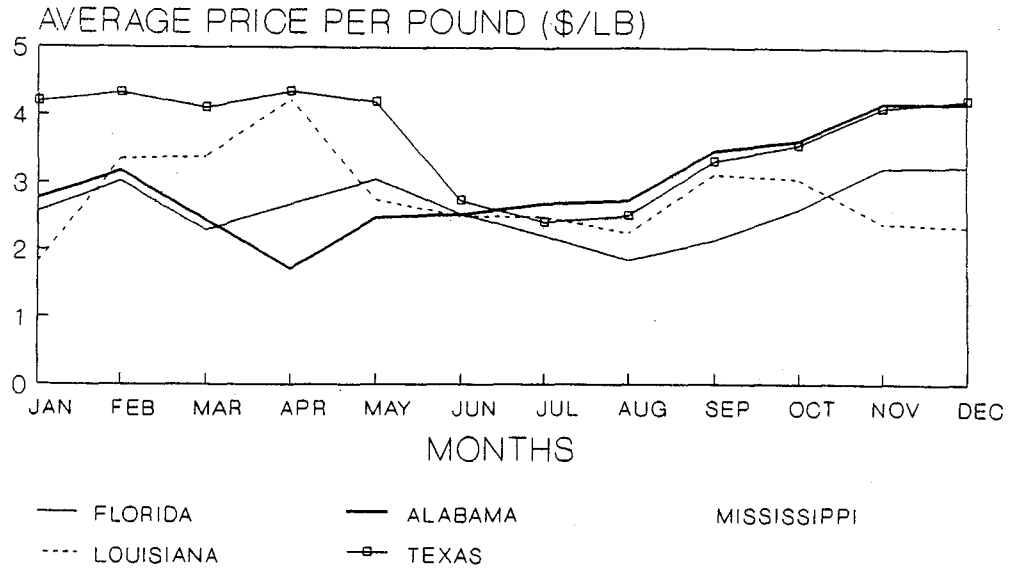
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1981 MONTHLY LANDINGS BY STATE GULF OF MEXICO SHRIMP



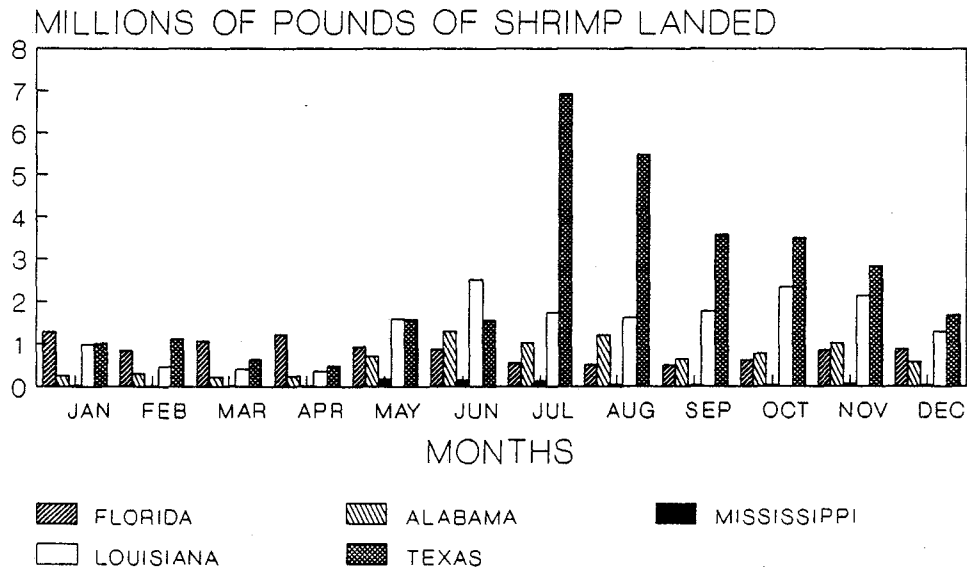
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1981 MONTHLY PRICE BY STATE GULF OF MEXICO SHRIMP



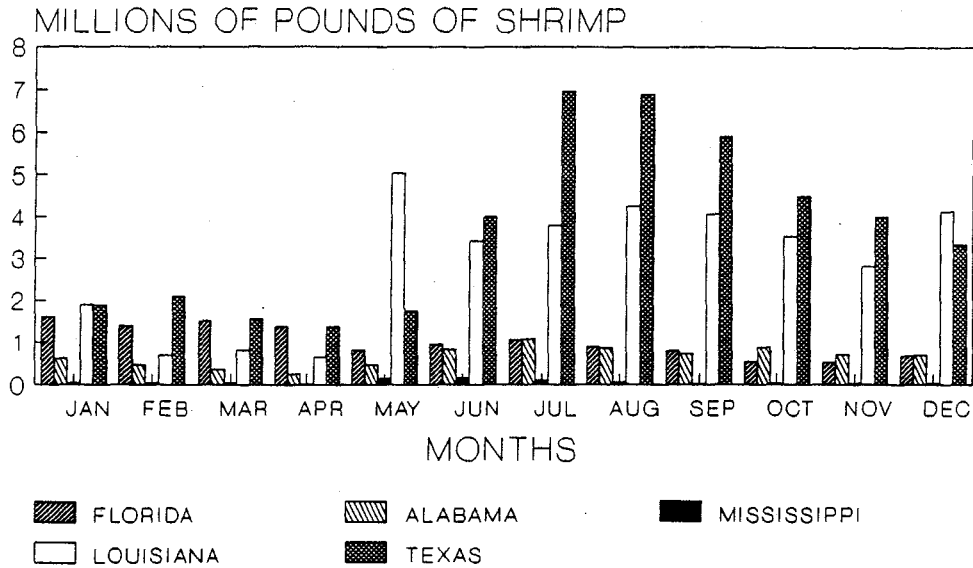
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1982 MONTHLY LANDINGS BY STATE GULF OF MEXICO SHRIMP



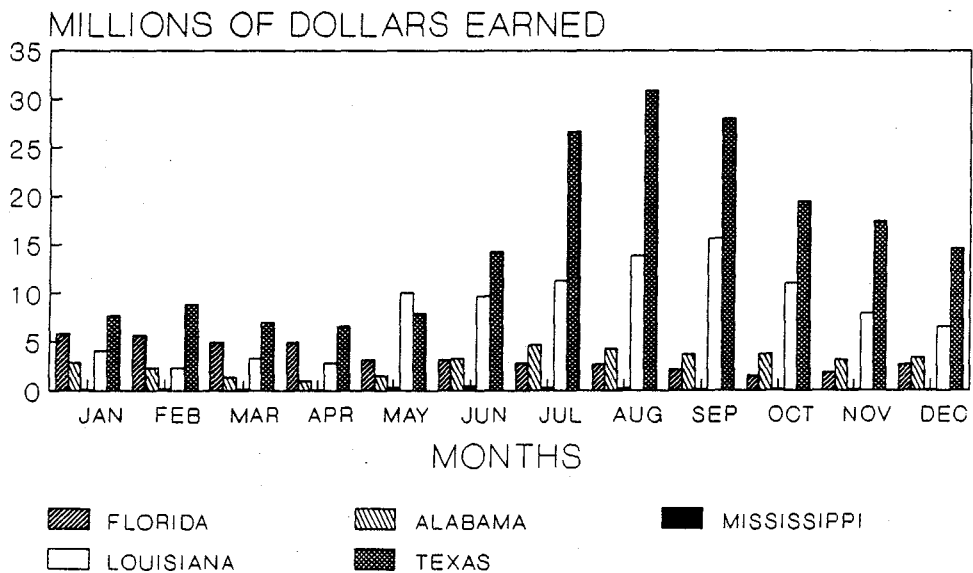
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1986 MONTHLY LANDINGS BY STATE GULF OF MEXICO SHRIMP



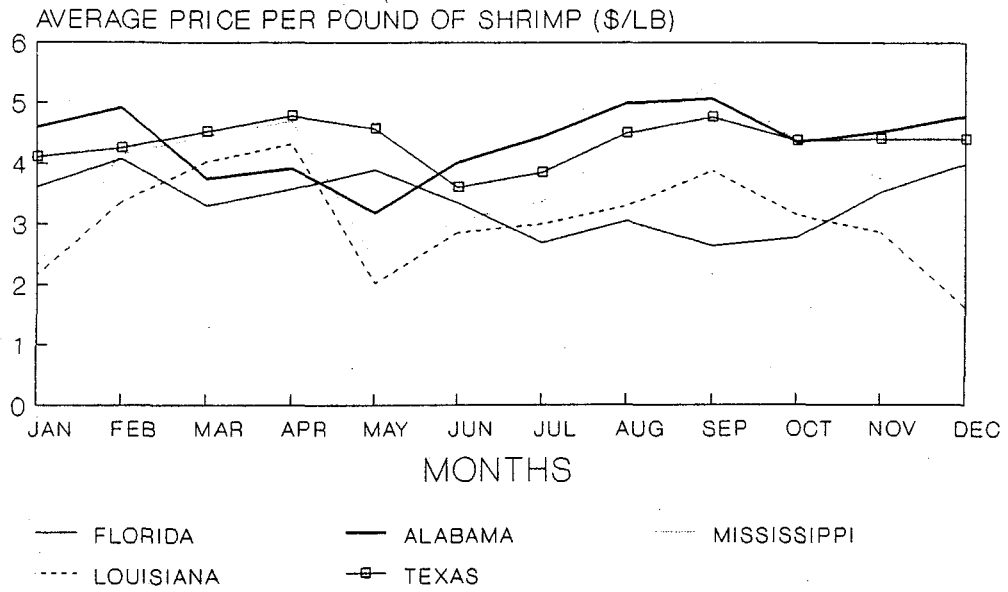
GRAPH 25

1986 MONTHLY EARNINGS BY STATE GULF OF MEXICO SHRIMP



GRAPH 26

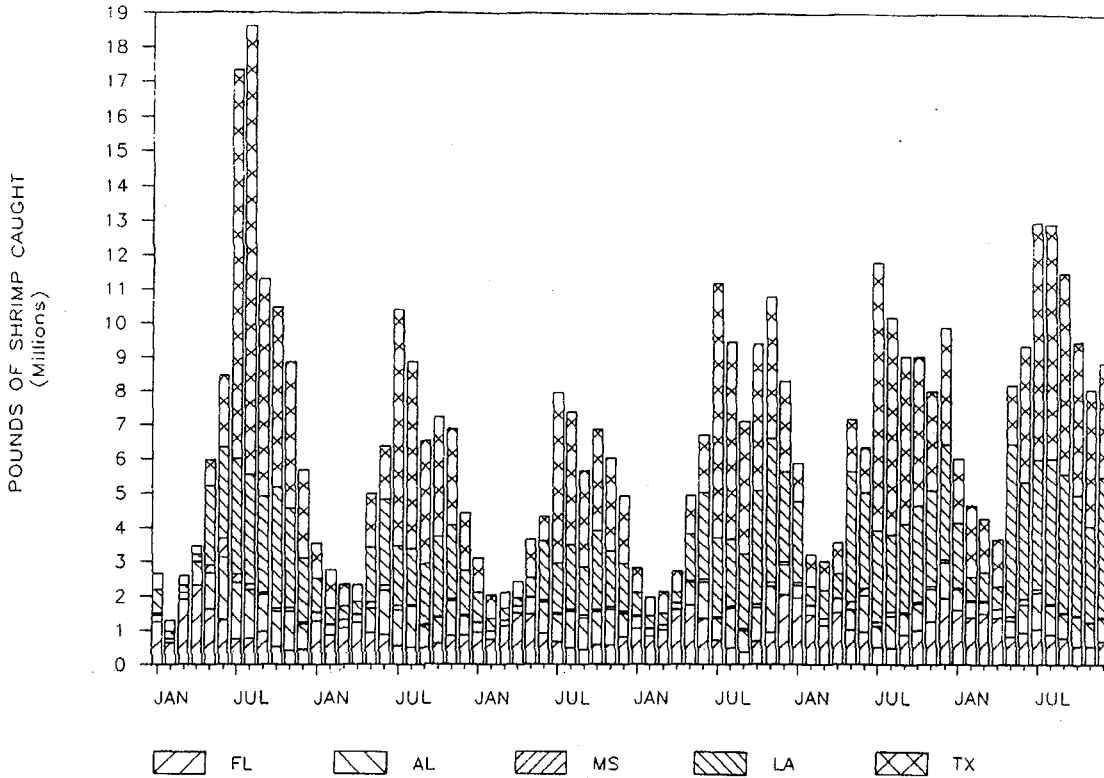
1986 MONTHLY AVERAGE PRICE BY STATE GULF OF MEXICO SHRIMP



GRAPH 27

MONTHLY CATCH BY STATE 1981-1986

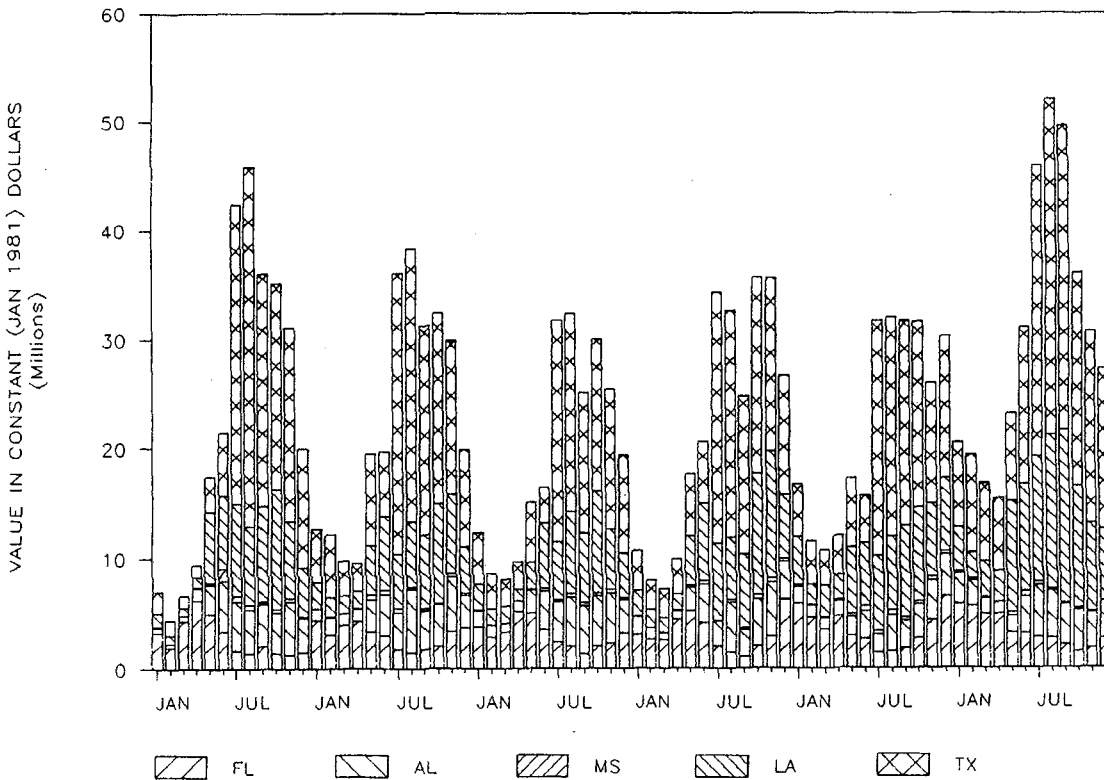
GULF OF MEXICO SHRIMP



GRAPH 28

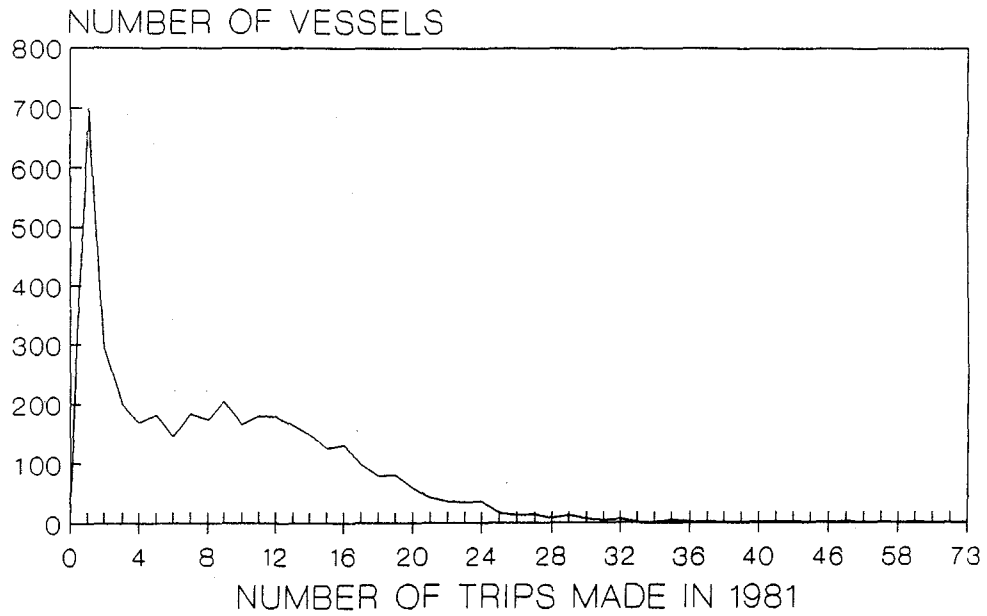
MONTHLY CATCH VALUE BY STATE 1981-1986

GULF OF MEXICO SHRIMP



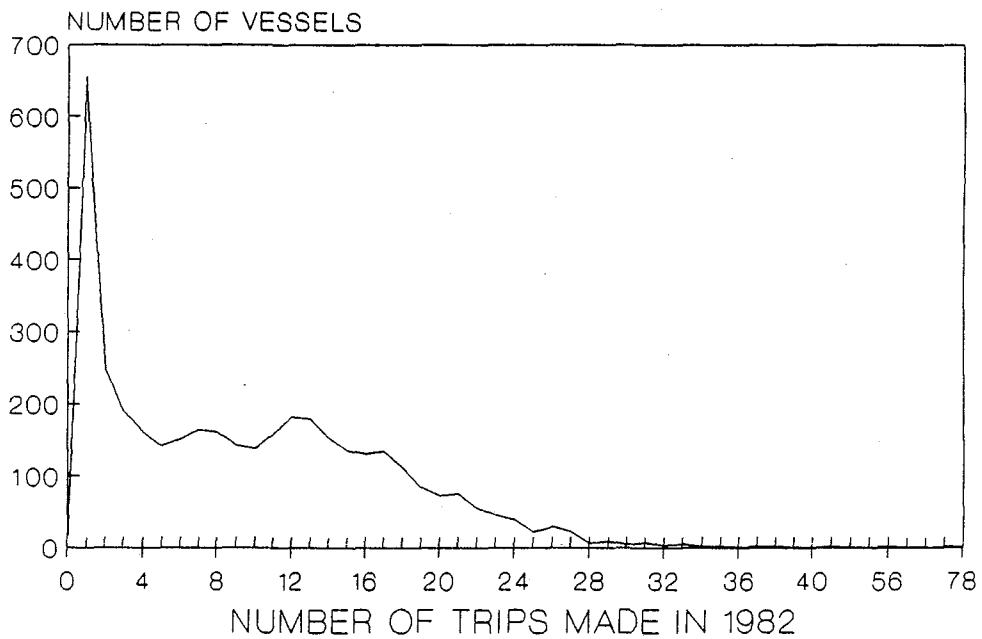
GRAPH 29

1981 AVERAGE TRIPS PER VESSEL GULF OF MEXICO SHRIMP



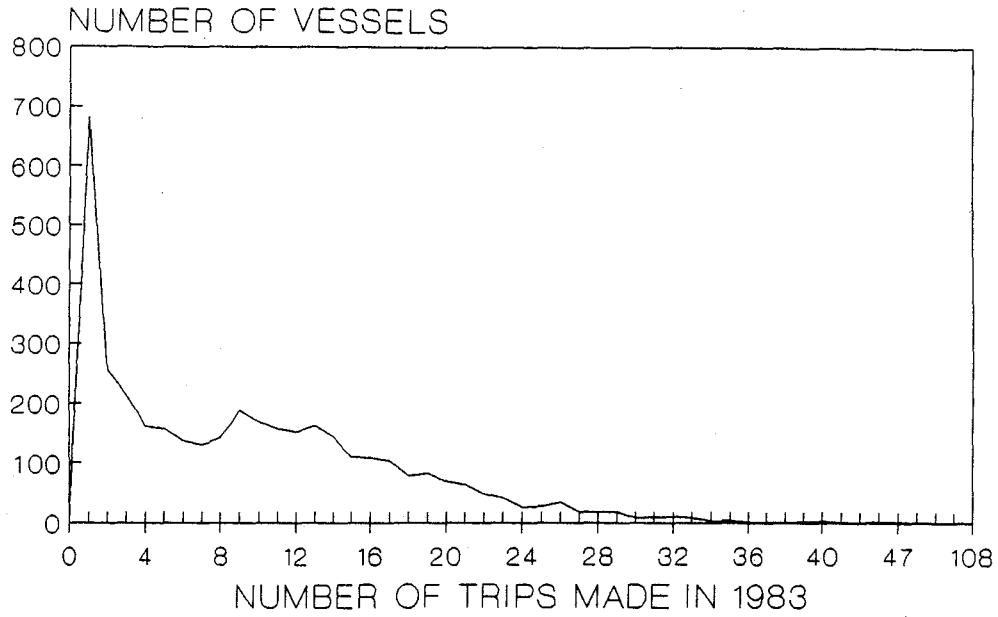
GRAPH30

1982 AVERAGE TRIPS PER VESSEL GULF OF MEXICO SHRIMP



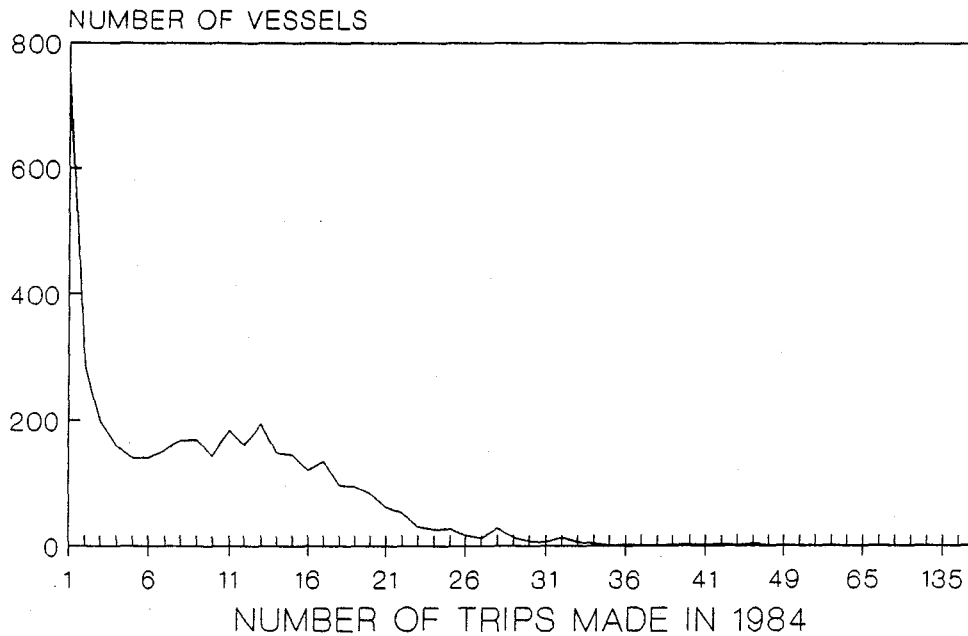
GRAPH 31

1983 AVERAGE TRIPS PER VESSEL GULF OF MEXICO SHRIMP



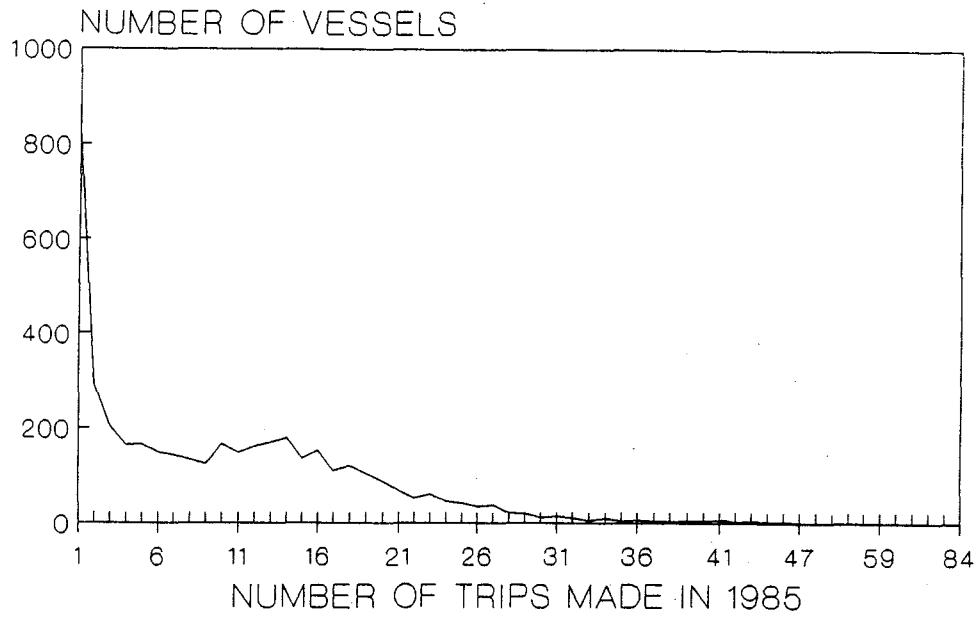
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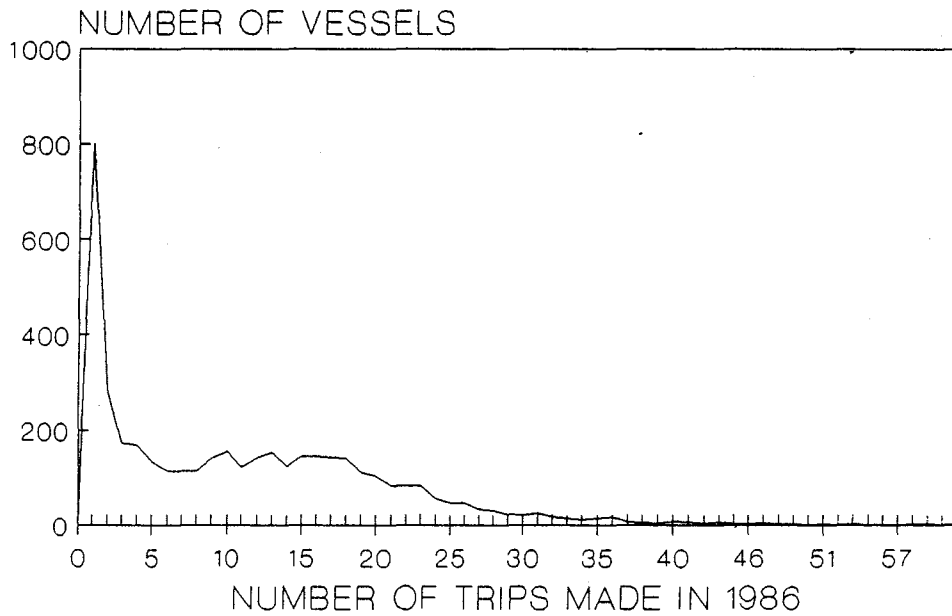
GRAPH 33

1985 AVERAGE TRIPS PER VESSEL GULF OF MEXICO SHRIMP



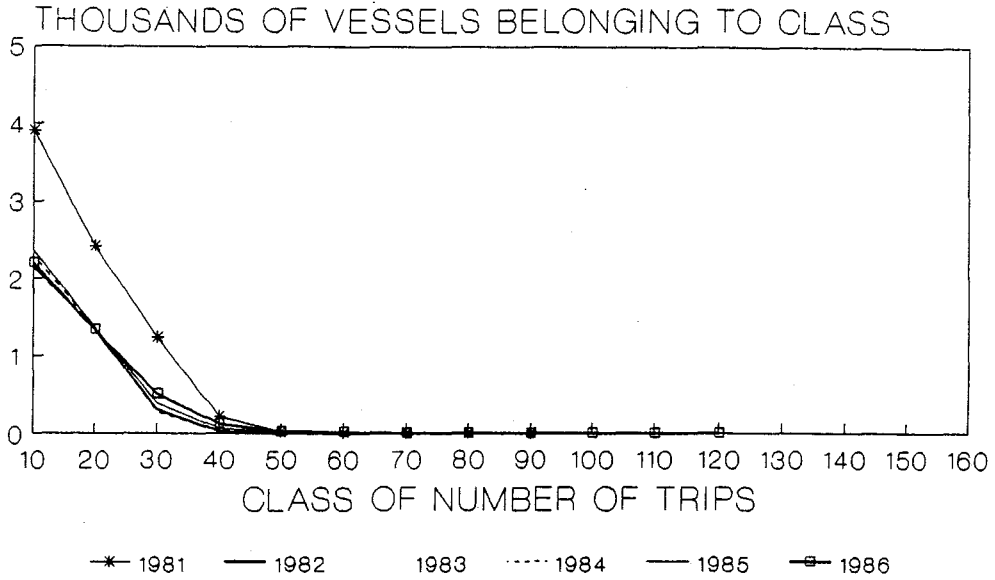
GRAPH 34

1986 AVERAGE TRIPS PER VESSEL GULF OF MEXICO SHRIMP



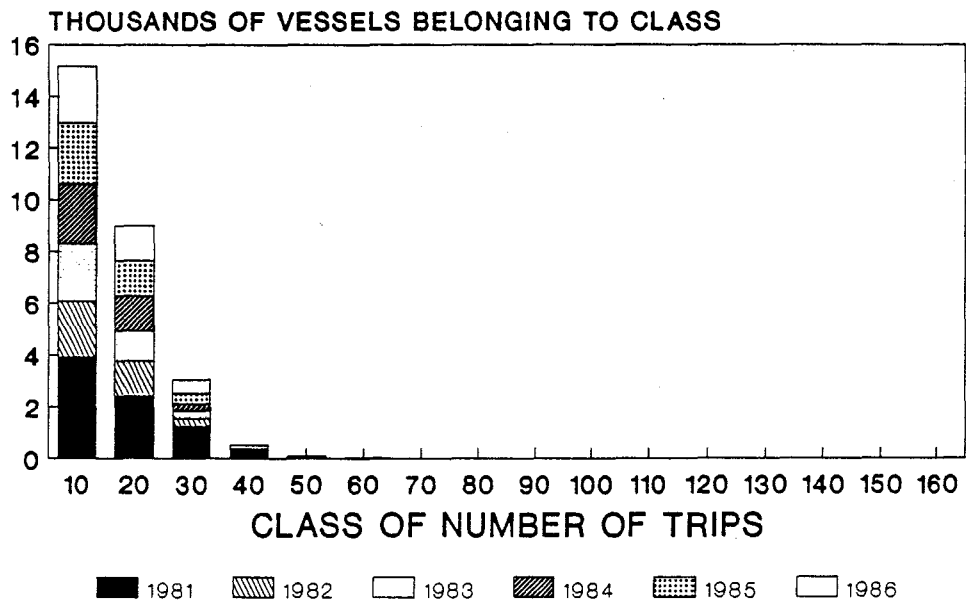
GRAPH 35

VESSEL DISTRIBUTION BY TRIP CLASS GULF OF MEXICO SHRIMP: 1981-1986



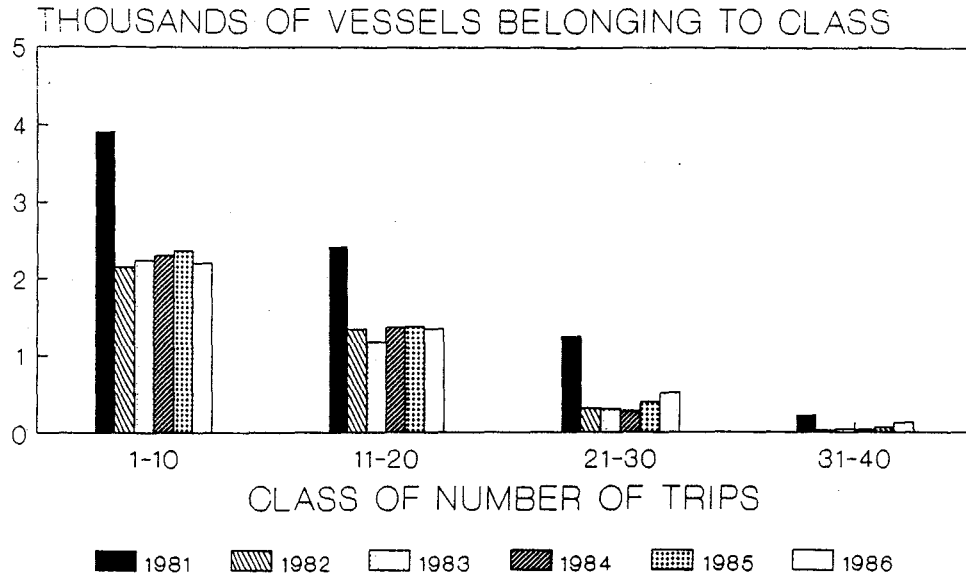
GRAPH 36

NUMBER OF VESSELS IN TRIP CLASS GULF OF MEXICO SHRIMP: 1981-1985



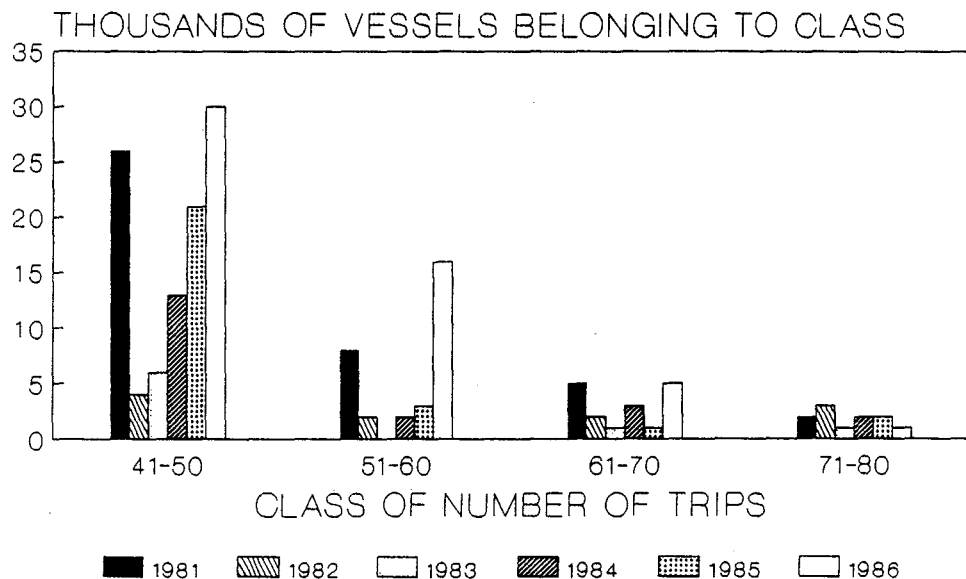
GRAPH 37

VESSEL DISTRIBUTION BY TRIP CLASS GULF OF MEXICO SHRIMP: 1981-1986



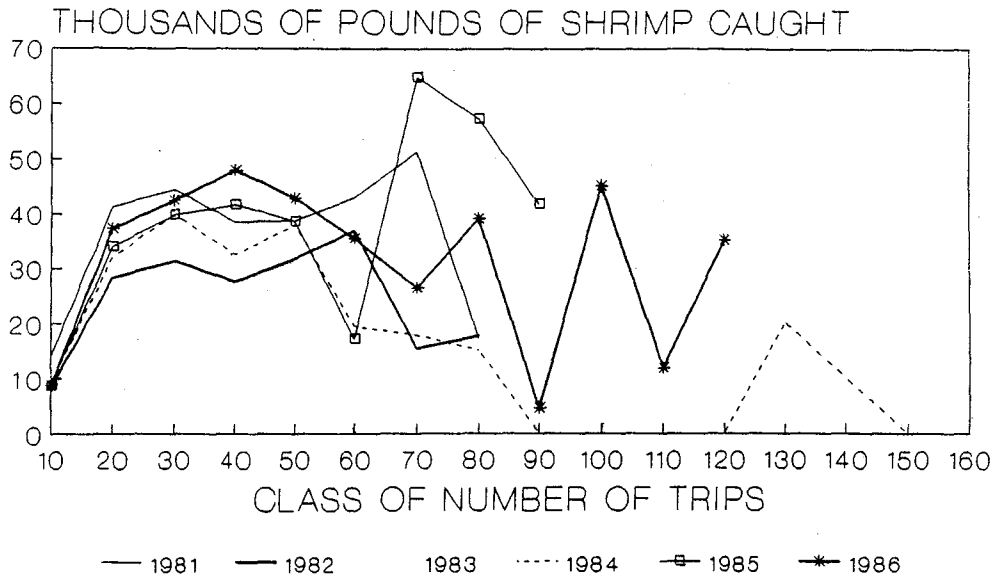
GRAPH 38

VESSEL DISTRIBUTION BY TRIP CLASS GULF OF MEXICO SHRIMP: 1981-1986



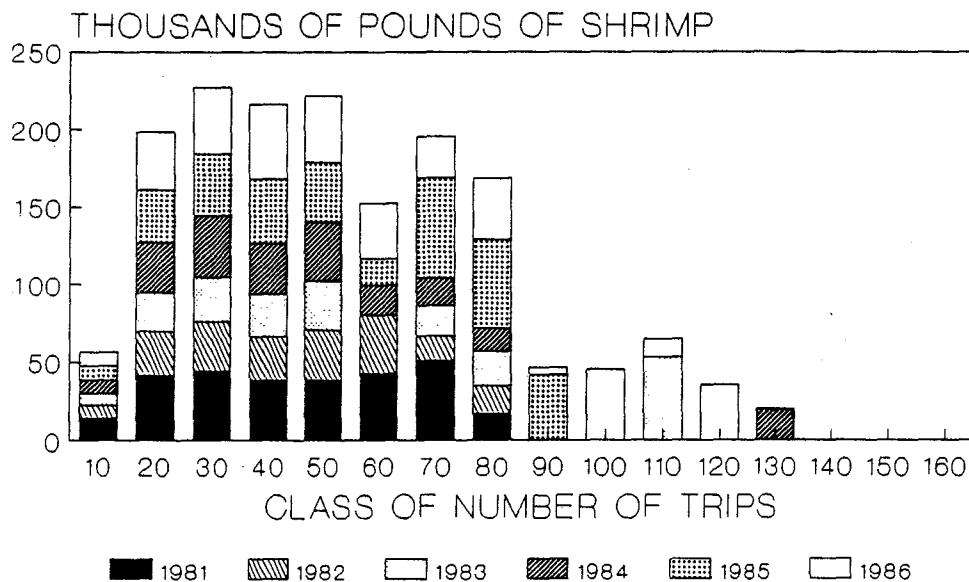
GRAPH 39

AVERAGE CATCH BY TRIP CLASS GULF OF MEXICO SHRIMP: 1981-1986



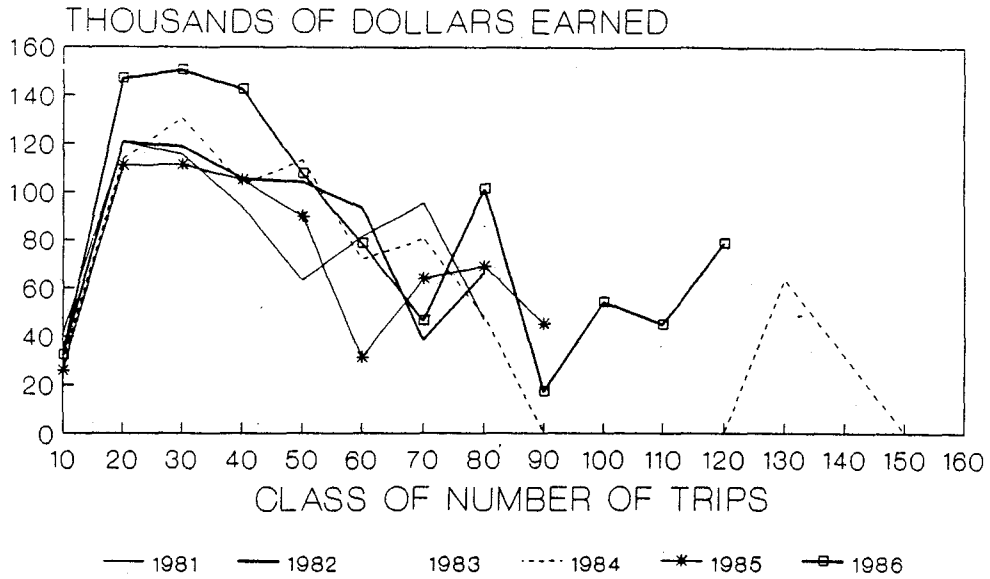
GRAPH 40

AVERAGE LANDINGS BY TRIP CLASS GULF OF MEXICO SHRIMP: 1981-1986



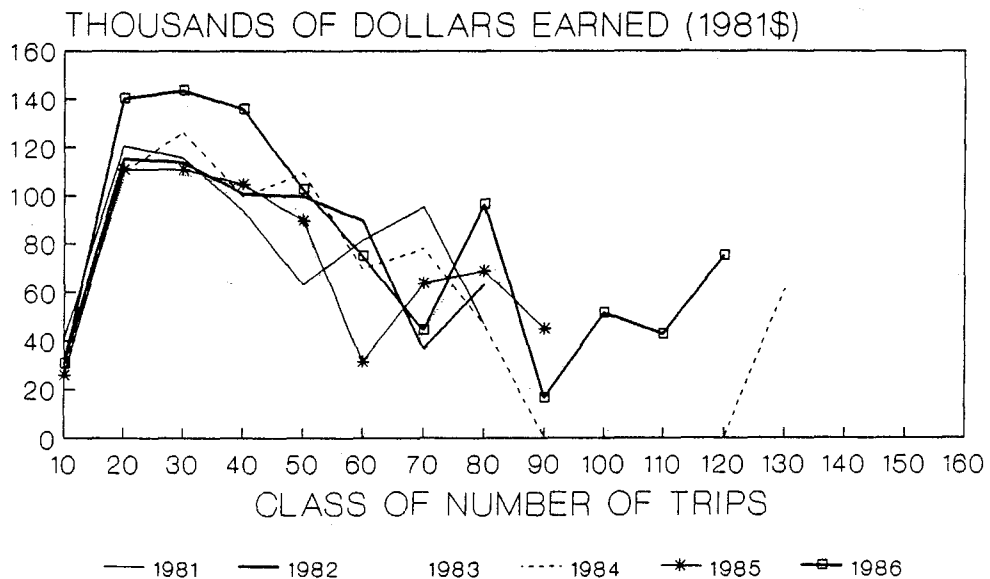
GRAPH 41

AVERAGE EARNINGS BY TRIP CLASS GULF OF MEXICO SHRIMP: 1981-1986



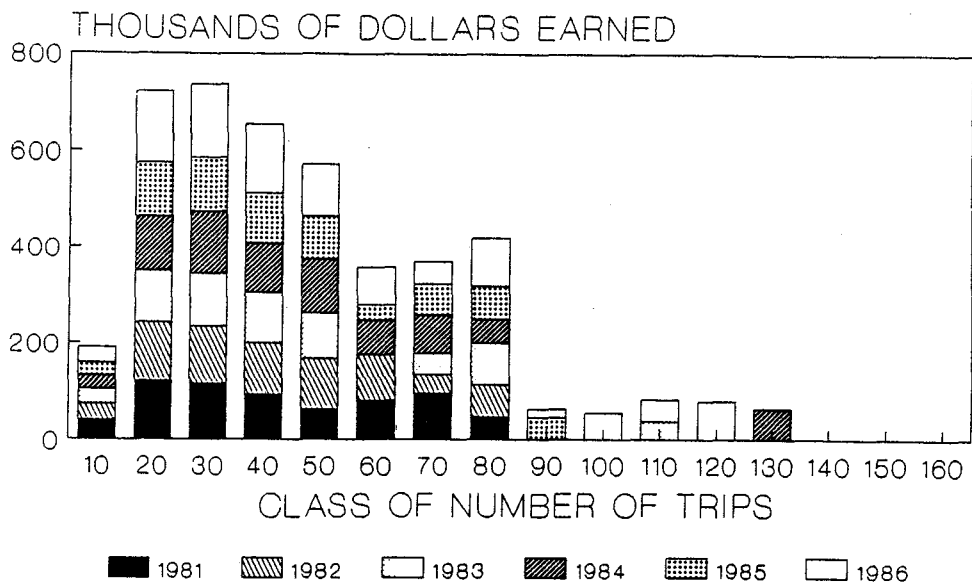
GRAPH 42

AVERAGE EARNINGS-TRIP CLASS(1981\$) GULF OF MEXICO SHRIMP: 1981-1986



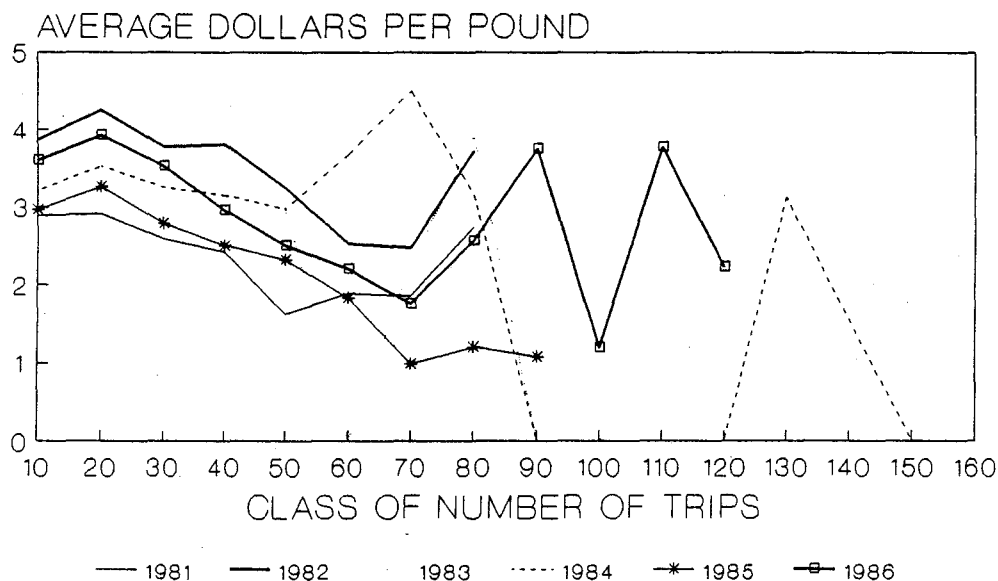
GRAPH 43

AVERAGE EARNINGS BY TRIP CLASS GULF OF MEXICO SHRIMP: 1981-1986



GRAPH 44

AVERAGE PRICE RECEIVED BY CLASS GULF OF MEXICO SHRIMP: 1981-1986



GRAPH 45