



SHRIMP - A New Picture For 1974

Notes and analysis of events associated with the industry's heavy inventory position in early 1974



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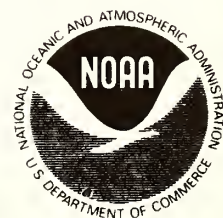
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SHRIMP - A NEW MARKET PICTURE FOR 1974

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ABSTRACT

The shrimp industry in the United States in early 1974 was undergoing a period of adjustment to altered conditions within the industry and the general economy. The machinery of adjustment went into motion after a sharp buildup of cold storage holdings of shrimp during the last 4 months of 1973, when demand for shrimp became sluggish and landings and imports were rising. In the last quarter of 1973, consumption dropped 22 percent below the comparable quarter of 1972. Inventories at the end of the new year reached 84 million pounds and continued to climb into February, contrary to normal seasonal movement.

Buyer resistance to high prices was the most obvious factor that softened demand for shrimp. Shrimp prices increased steadily at all levels throughout 1973, picking up momentum as the year progressed. The increasing prices in the first 8 months of the year were consistent with declining supplies. But the momentum carried over into the last quarter when prices should be at seasonal lows. This situation coincided with a break in the prices of meat and poultry, which weakened the competitiveness of shrimp as a protein food. Cold storage holdings inevitably increased.

Not surprisingly, wholesale and exvessel prices of shrimp began to drop after the beginning of the year. Wholesale prices in February 1974 were about 10 percent less than in December 1973, and cuts in exvessel prices were much sharper particularly of the high-count (smaller sized) shrimp. With the notable exception of the high-count shrimp, dockside prices in February 1974 were still considerably above a year earlier. But prices paid for much of the shrimp in storage reflected price increases beyond February 1973. Also, vessels received nearly 40 percent less for high-count shrimp in February 1974 than a year earlier.

Price adjustments--and probably some promotional efforts--in early 1974 had an apparent salutary effect on shrimp consumption in the United States. Consumption increased from a low of 19.6 million pounds in December 1973 to 33.4 million pounds in January 1974. The outlook, however, is for substantial increases in domestic landings and imports--at least through the first half of 1974. This, plus recessionary tendencies in the U.S. economy, the energy crisis (which affects restaurant sales), and expected gains in beef and poultry production later in the year will continue to depress shrimp prices. Thus, the market will likely adjust at prices well below what they were at the year's start. On the bright side, there is the factor of a long period of strong demand for U.S shrimp, and this rules against the possibility of a prolonged depression in shrimp markets. In summary, prices will likely remain relatively soft through most of 1974 but consumption will pick up and adjust the inventory position to a more normal level.

THE SHRIMP SITUATION

Background Notes and Analysis of Events

Associated With the Industry's Heavy Inventory in Early 1974

Introduction

Seafood markets--particularly for fresh and frozen products--are entering the 1974 Lenten season with considerable uncertainty. On the basis of established trends, prospects for 1974 would be bright with respect to demand and concern would center about the condition of short supplies. However, severe changes in the general economy have helped alter the situation. The new year began with unusually heavy cold storage holdings 459 million pounds on January 1, 1974. Last year's carryover was 415 pounds; in 1971 the figure was 302 million pounds.

Normally, the heavier carryover stocks would be welcome assurance of an undisturbed flow of products through increasingly expanding pipelines. But 1974 is different. Sales of many popular fishery products in the last quarter of 1973--particularly at retail levels--tended to be sluggish. One major reason was the generally favorable supply of meats and poultry. Consumer resistance to high prices also was apparent. And to complicate the picture, the gasoline shortage was threatening restaurant sales, which account for a large proportion of the seafoods consumed in the United States.

Whatever the causes and their order of importance, the effects were clear: The industry was faced with growing inventory costs and an uncertain demand outlook. Shrimp was the most visible case in point. Cold storage holdings of shrimp in February 1974 were at a record level for the month, following a sharp cutback in U.S. shrimp consumption. Industry concern about the immediate future was justifiably widespread. Obviously, the industry was facing adjustment. On the assumption that these adjustments can be made more effective (or less painful) if related decisions have the benefit of perspective and facts, the National Marine Fisheries Service's Market Research and Services Division has prepared the following analysis of the events that led to the shrimp inventory problem, together with comments on the outlook. This report has a relatively brief narrative and is supported by a detailed statistical presentation that the reader may find useful in appraising the situation.

*Prepared by Morton M. Miller, Chief, Market Research and Services Division
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Situation Analysis

Cold storage holdings of shrimp on February 1, 1974 were 68 million pounds. This was the highest figure on record for February and was noteworthy because it represented an increase over January 1974.

Normally, shrimp holdings will decline seasonally in February and continue to drop until the heavy landings season begins around June. But the picture in 1974 appears quite different. During January, the quantity of shrimp in storage increased 3 million pounds, whereas a year ago, holdings during the first month of the year were reduced by 10 million pounds. Table 1 shows changes that have occurred in the last 6 years during January.

Table 1.--U.S. frozen shrimp holdings

| Year | : | Jan. 1 | Feb. 1 | Change |
|------|---|---------------------------------------|--------|--------|
| | : | - - - - <u>Million pounds</u> - - - - | | |
| 1974 | : | 84.0 | 86.8 | + 2.8 |
| 1973 | : | 95.8 | 85.9 | - 9.9 |
| 1972 | : | 74.2 | 72.5 | - 1.7 |
| 1971 | : | 78.7 | 69.8 | - 8.9 |
| 1970 | : | 68.6 | 65.7 | - 3.3 |
| 1969 | : | 60.6 | 53.9 | - 6.7 |

Initially, Buildup Was Timely

The buildup of shrimp inventories began during September 1973, but caused little alarm at the time. The upturn was, in fact, timely, because holdings were unusually low. Shrimp landings in the Gulf during the first three quarters of 1973 decreased about 30 percent from a year earlier, and imports also were considerably less.

The drop in new supplies (landings plus imports) during January-September 1973 delayed a seasonal increase in holdings that normally begins in early summer (fig. 1). When holdings started upward, however, the rate of increase was relatively fast (table 2).

Table 2.--Month-to-month increase (decrease) in shrimp holdings

| Year | Sep. 1-30 | Oct. 1-31 | Nov. 1-30 | Dec. 1-31 | Net change Sep. 1-Dec. 30 |
|----------------------------|-----------|-----------|-----------|-----------|------------------------------|
| ----- Million pounds ----- | | | | | |
| 1973 | 6.5 | 10.8 | 8.8 | 6.2 | 32.3 |
| 1972 | (0.2) | 5.4 | 2.5 | (1.8) | 5.9 |
| 1971 | 9.5 | 1.6 | 1.9 | 1.7 | 14.7 |
| 1970 | 6.4 | 6.6 | 2.8 | 2.7 | 18.5 |
| 1969 | 6.5 | 5.9 | 4.7 | 4.3 | 21.4 |
| 1968 | 5.2 | 8.7 | 8.7 | (2.0) | 20.6 |

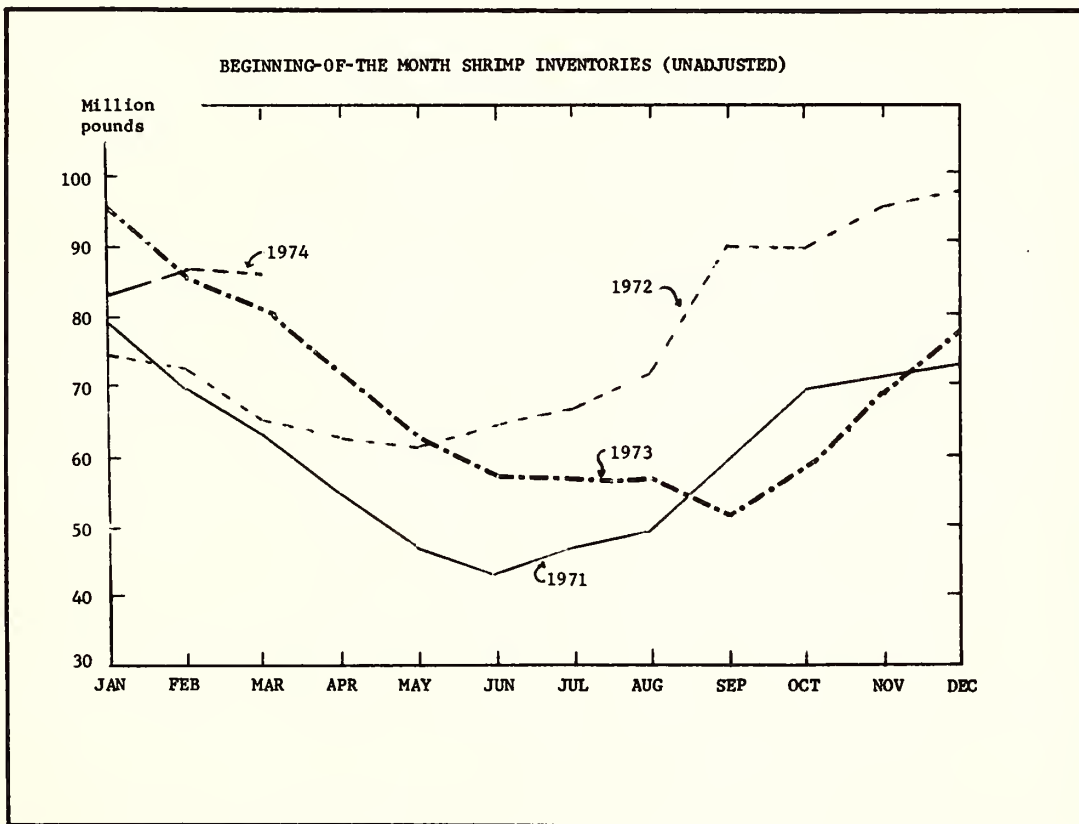


FIGURE 1

Sharp Gains in Breaded and Raw Headless

Heavy inventories in February 1974 have been associated with most of the popular shrimp products, with the exception of peeled shrimp. By far the sharpest gains have been in breaded shrimp holdings, which peaked at about 14.6 million pounds of January 1 and dropped slightly--to 13.7 million pounds--by February 1. At these levels, holding were about 40 percent above comparable months in

earlier years. On February 1, 1974, breaded holdings comprised about 16 percent of the total, whereas a year ago the comparable figure was 11 percent.

Since September 1973, raw headless (shell-on) shrimp have been responsible for most of the buildup in inventories. Holdings of this product form, which usually accounts for half or more of shrimp in storage, nearly doubled from September 1, 1973, to February 1, 1974, from about 25 million pounds to 48 million pounds. Holdings of breaded shrimp during the same period increased about 39 percent, from just under 10 million pounds to nearly 14 million pounds. However, holdings of breaded shrimp were relatively high through most of the earlier months of 1973. While holdings of raw headless shrimp were declining from January through August, holdings of breaded shrimp were stable and formed a growing proportion of total holdings. Breaded holdings were 10.7 percent of the total on January 1, 1973, and increased to nearly 20 percent by August 1 and slipped less than a percentage point on September 1.

Supplies Improve, But Consumption Lags

Vastly improved landings in the Gulf and heavier imports contributed to the late 1973 increase in shrimp holdings. But there was a third -- and disturbing--factor that entered the picture. U.S. consumption of shrimp began to slip noticeably, after a sustained period of strong demand (fig. 2). During the final quarter of 1973 apparent U.S. consumption of shrimp totaled only 72 million pounds--well below the preceding

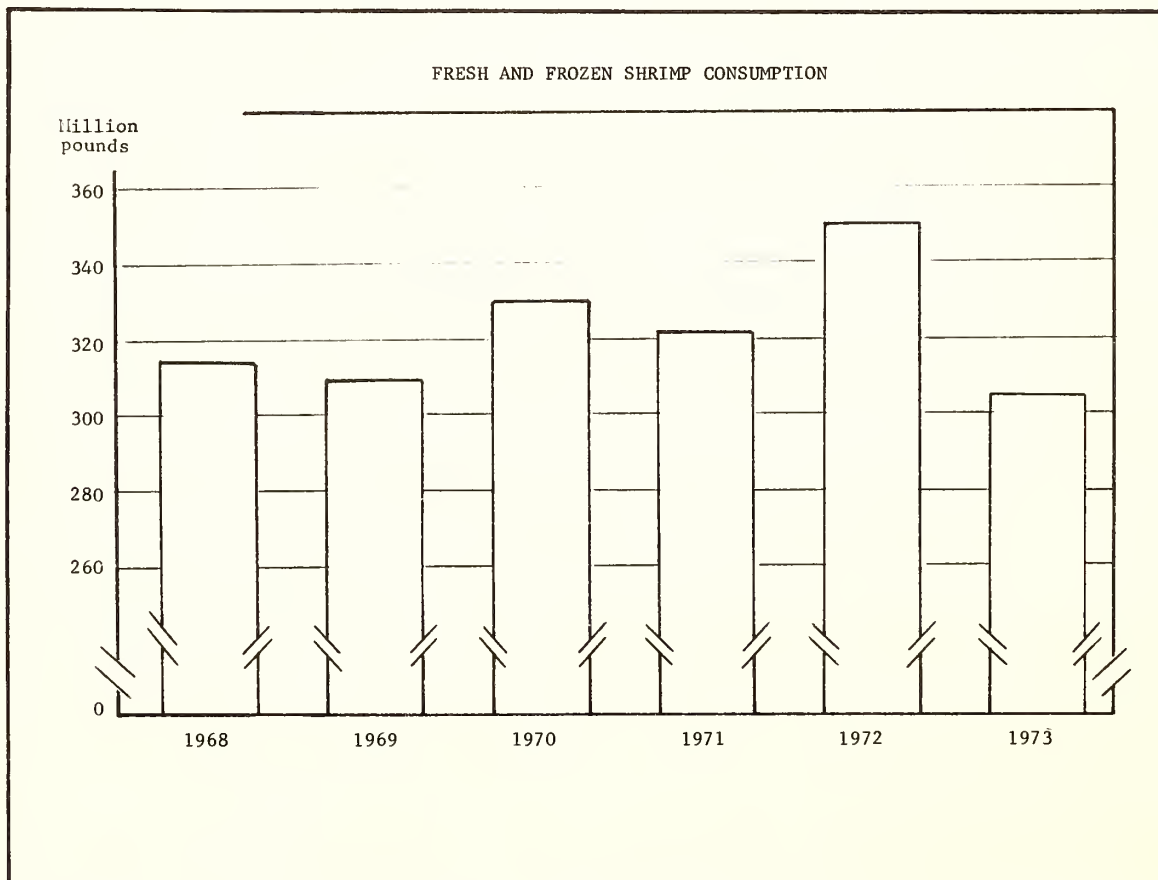


FIGURE 2

quarter and below comparable periods in earlier years. Normally, demand for shrimp increases during the late year holiday season, but, in 1973, fourth quarter consumption was 9 million pounds below third quarter of 1973, and nearly 18 million pounds lower than average fourth quarter consumption for 1968-72 (table 3).

Table 3.--U .S. shrimp consumption

| Year | 1st qtr. | 2d qtr. | 3d qtr. | 4th qtr. | Total year |
|----------------|----------|---------|---------|----------|------------|
| Million pounds | | | | | |
| 1973 | 79.4 | 75.7 | 81.2 | 72.2 | 308.5 |
| 1972 | 78.2 | 83.8 | 95.9 | 92.7 | 350.6 |
| 1971 | 80.1 | 72.1 | 80.2 | 89.6 | 322.0 |
| 1970 | 75.5 | 81.3 | 83.2 | 92.5 | 332.5 |
| 1969 | 73.6 | 65.5 | 84.5 | 86.6 | 310.2 |
| 1968 | 73.7 | 68.8 | 84.2 | 88.2 | 314.9 |

Price an Important Factor in Shrimp Sales

Buyer resistance to rising prices is the most obvious factor associated with decreased consumption of shrimp. Historically, consumption has waned during rising prices and increased during declining prices (fig. 3). Just how strong consumers react to changes in prices of shrimp depends on many variables such as the price of other foods, personal income, and season of the year. Shrimp prices began inching

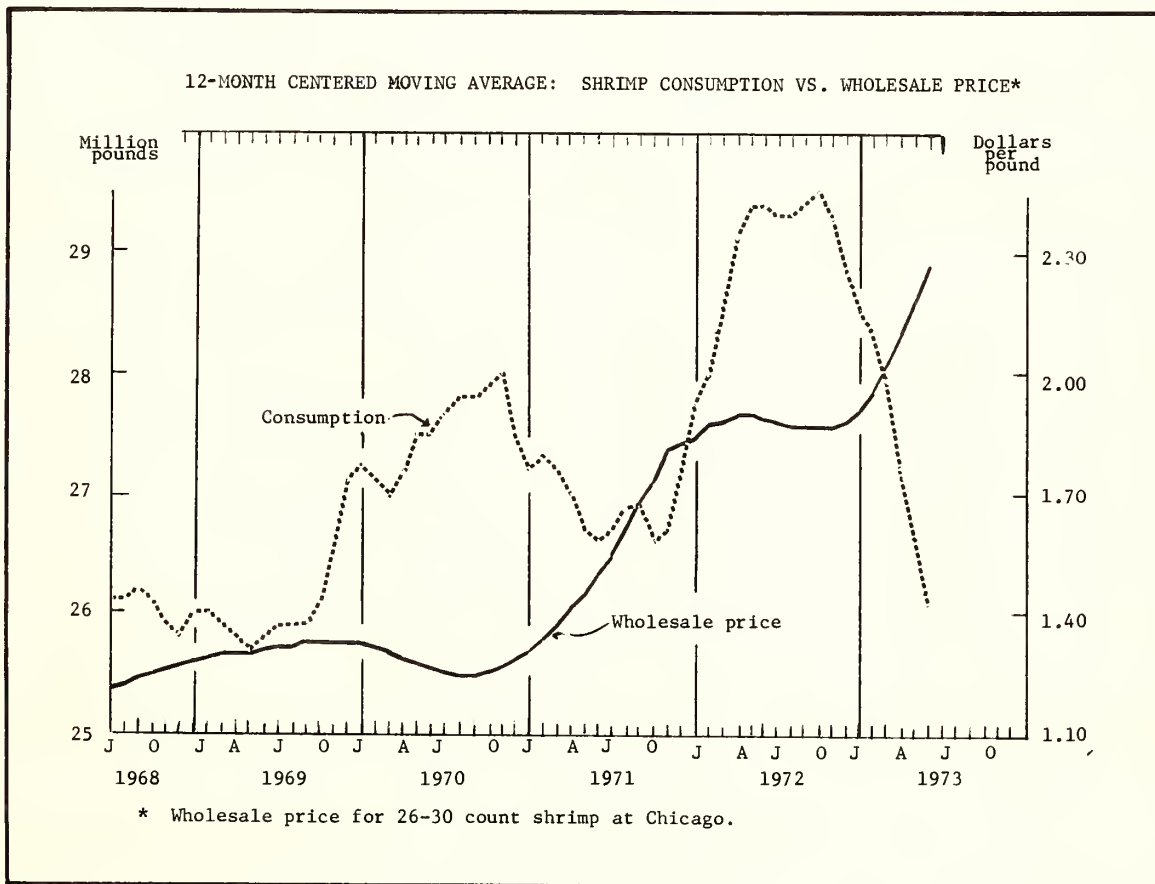


FIGURE 3

up in late 1972 and picked up momentum in the early months of 1973 (fig. 4). The swing upward was particularly sharp during the last half of the year. Wholesale prices for 26-30 count, raw headless at Chicago averaged \$2.77 per pound in December 1973 compared with \$2.18 during June and \$1.82 in January. Thus, in the last half of 1973, these prices rose 27 percent, compared with a gain of 20 percent in the first half. Changes were even more pronounced at retail. For example, the retail price of 21-25 count, raw headless, in Baltimore increased 3-1/2 percent during the first 6 months and 29 percent in the last 6 months.

Early Stage of Increasing Price Trend Associated with Short Supplies

The rise in shrimp prices during the first half of 1973 and beyond was consistent with steadily declining supplies. This decline was, in part, seasonal (fig. 5). As a rule, new inputs to supply--landings plus imports--are at seasonal lows from February through April and inventories are drawn down. Prices move up seasonally. Usually landings begin to pick up during May and the seasonal increase in supplies begins--which leads to seasonally lower prices (table 4). In 1973, landings and imports were down considerably, and inventories were drawn upon throughout most of the first three quarters. During May, total supplies dropped below comparable 1972 totals, and by August, total supplies were running below 1971 on the basis of month-to-month comparisons.

*

Table 4.--Fresh and frozen shrimp - seasonal indices

| Month | Total supplies | Apparent consumption | Wholesale price | Cold storage holdings |
|-----------|------------------------|----------------------|-----------------|-----------------------|
| | ----Million pounds---- | | Cents/pound | Million pounds |
| January | 105.1 | 103.1 | 99.8 | 116.8 |
| February | 94.6 | 86.0 | 104.6 | 198.8 |
| March | 90.8 | 96.3 | 107.2 | 99.8 |
| April | 82.6 | 88.3 | 104.6 | 90.6 |
| May | 87.1 | 94.1 | 106.4 | 83.7 |
| June | 94.8 | 98.5 | 100.7 | 82.2 |
| July | 96.6 | 109.4 | 97.5 | 85.2 |
| August | 97.2 | 107.1 | 98.4 | 90.3 |
| September | 102.9 | 99.1 | 99.9 | 99.2 |
| October | 117.5 | 122.2 | 93.0 | 106.1 |
| November | 116.2 | 101.7 | 94.0 | 117.4 |
| December | 114.5 | 94.1 | 93.9 | 119.9 |

* Based on data for 1968-73

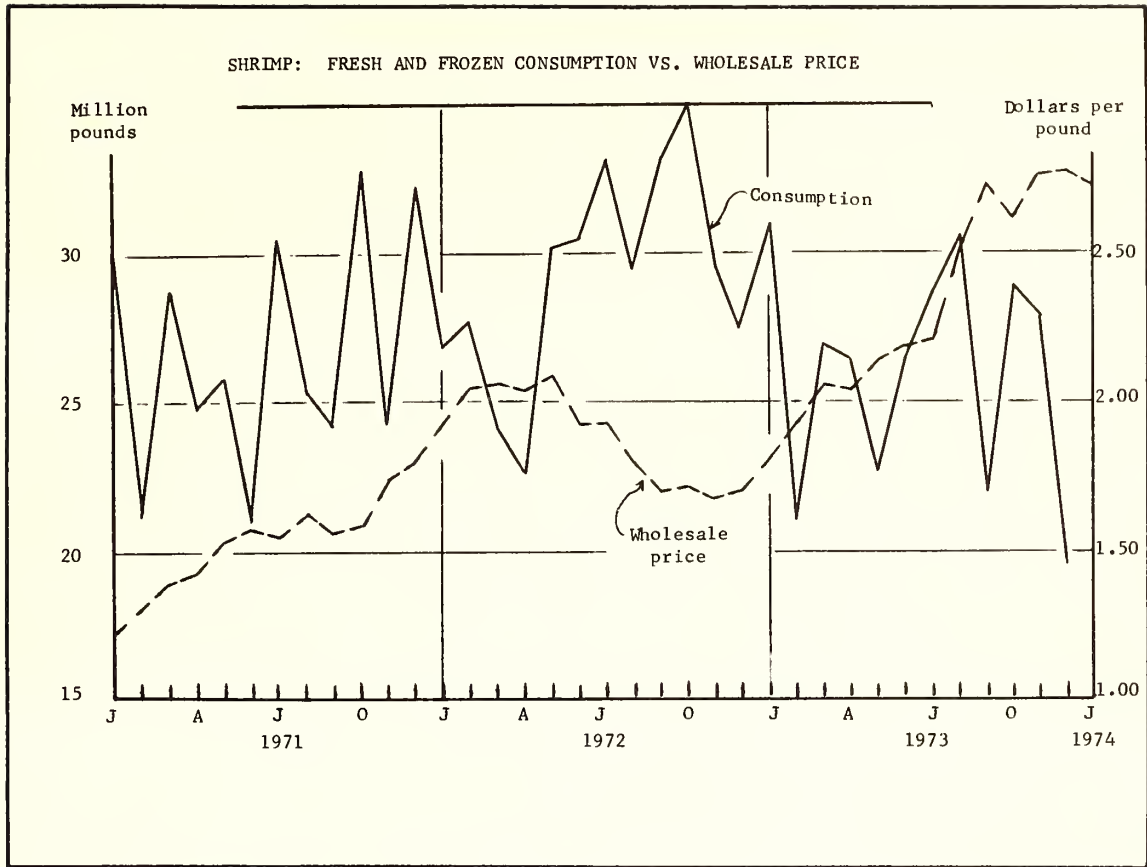


FIGURE 4

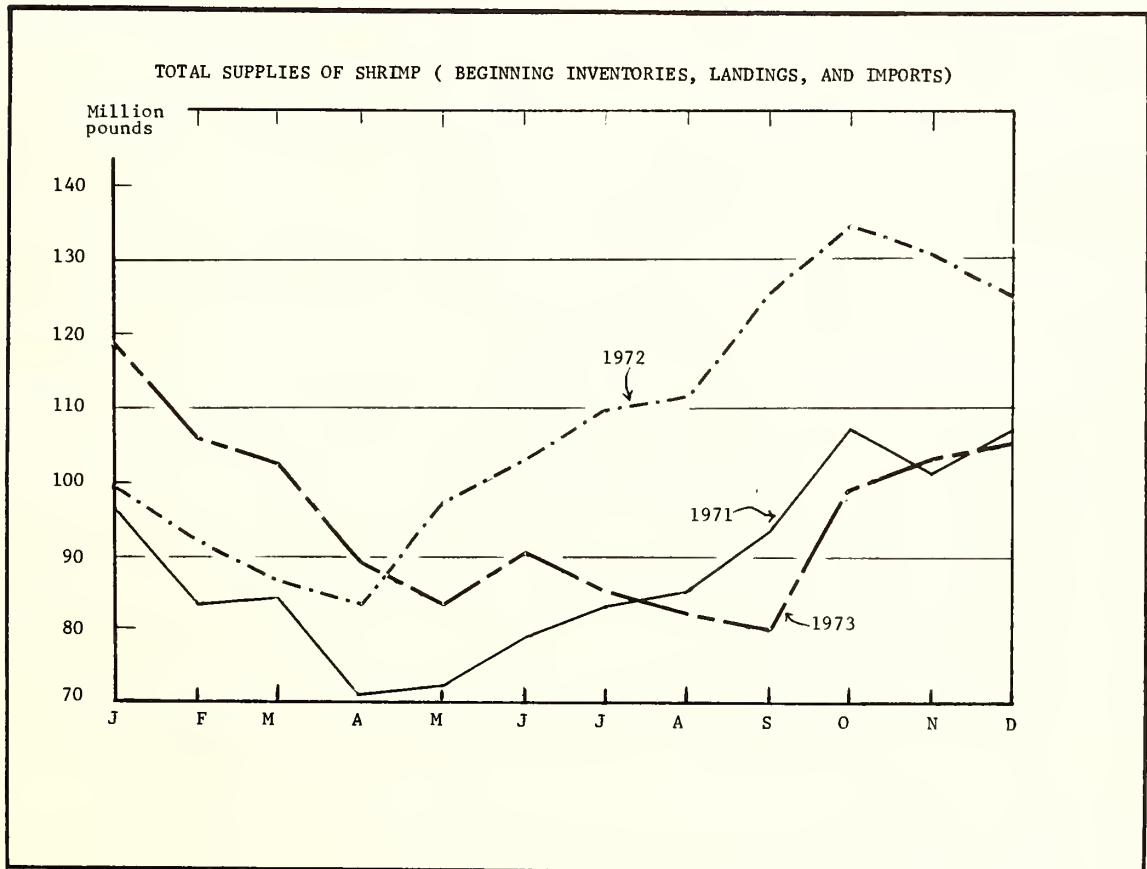


FIGURE 5

Inflated Economy a Factor in "Shrimp Price Gains"

Factors related to the general economy were also apparent in the increases in prices of shrimp in the first three quarters of 1973. Overall, the rate of increase in the price of shrimp during this period was in line with, or below, the rate of change in other food prices (fig. 6). The consumer price index (CPI) for breaded shrimp increased 18.0 points from January through August 1973, compared with 42.4 points for meat and 21.8 points for "all foods".

In September 1973, however, when shortages had pushed meat prices to peak highs, shrimp prices began climbing more sharply than the prices of its protein competitors. Poultry prices, which had peaked in August, were on the way down; the peak September meat price was not much above August; whereas the CPI for breaded shrimp moved up a sharp 2-1/2 points. Retail prices for raw shrimp likewise increased; for example, in Baltimore, the prices rose from \$3.13 per pound in August to \$3.57 per pound in September. Shrimp prices continued to climb through the end of the year, while prices of poultry and meat continued to drop, and whatever price/value differential consumers had recognized favoring shrimp soon disappeared.

Table 5 summarizes the comparable changes between the CPI for breaded shrimp and competing products during 1973.

*

Table 5.--Consumer price index shrimp, meat, poultry, fish

| Item | Jan. 1973 | Aug. 1973 | Change Jan. - Aug. | Dec. 1973 | Change Aug. - Dec. |
|----------------|--------------|--------------|-----------------------|--------------|-----------------------|
| Breaded shrimp | 140.3 | 159.2 | +18.9 | 175.0 | +15.8 |
| Meat | 137.7 | 180.1 | +42.4 | 167.5 | -12.6 |
| Poultry | 116.1 | 225.3 | +109.2 | 149.0 | -76.3 |
| Fish | 149.2 | 165.1 | +15.9 | 178.8 | +13.7 |

* 1967 = 100

Holdings Increase Over Long-Term Rate

The level of cold storage inventories of shrimp products reflects long-term trends, as well as seasonal and other short-term phenomena. With the U.S. demand for shrimp on an increasing trend, it has been necessary to increase average sizes of inventories to assure adequate distribution through marketing pipelines. But holdings have increased more than proportionally to the increased quantities demanded. From 1968 through 1973 the exponential trend rate of increase in average shrimp holdings was 0.80 percent per month. The comparable rate of increase in consumption was 0.17 percent per month. A linear trend measurement of the same data shows average inventories increasing by about 490,000 pounds per month, whereas consumption has been increasing at the rate of 46,000 million pounds per month. (See figures 7 and 8.)

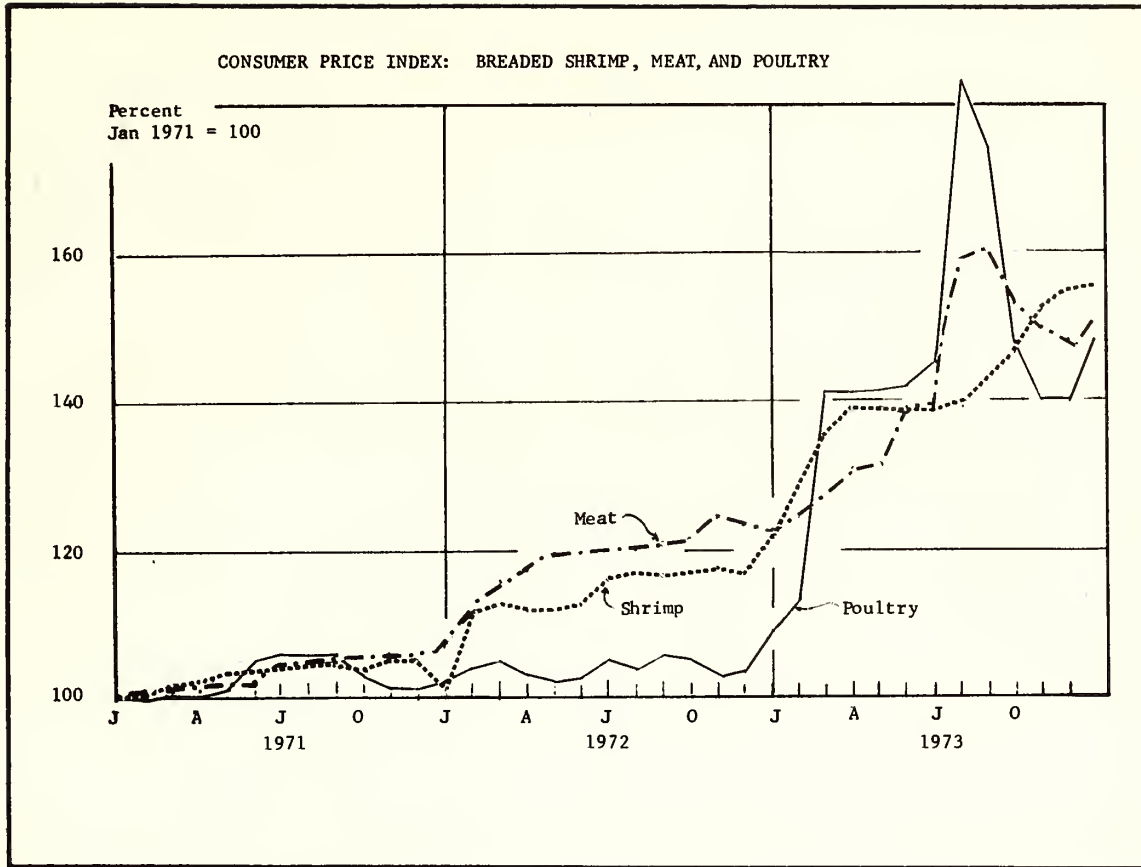


FIGURE 6

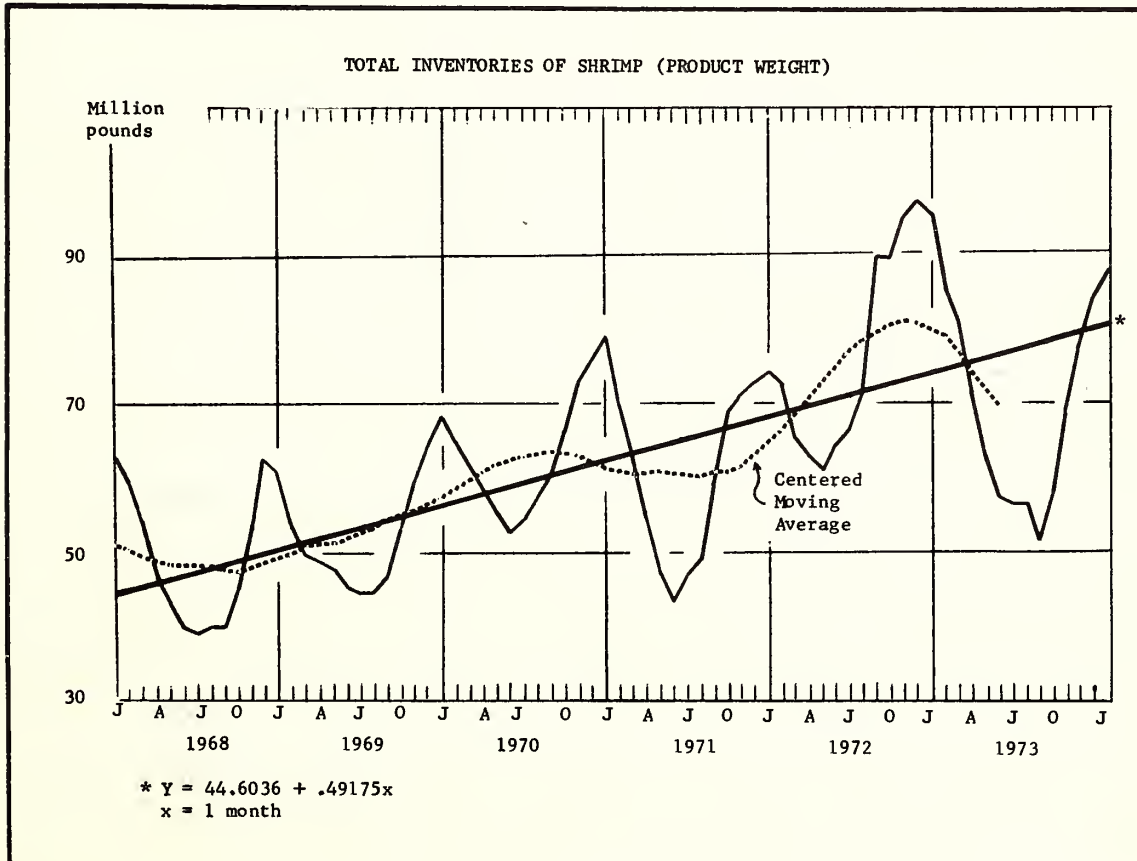


Figure 7

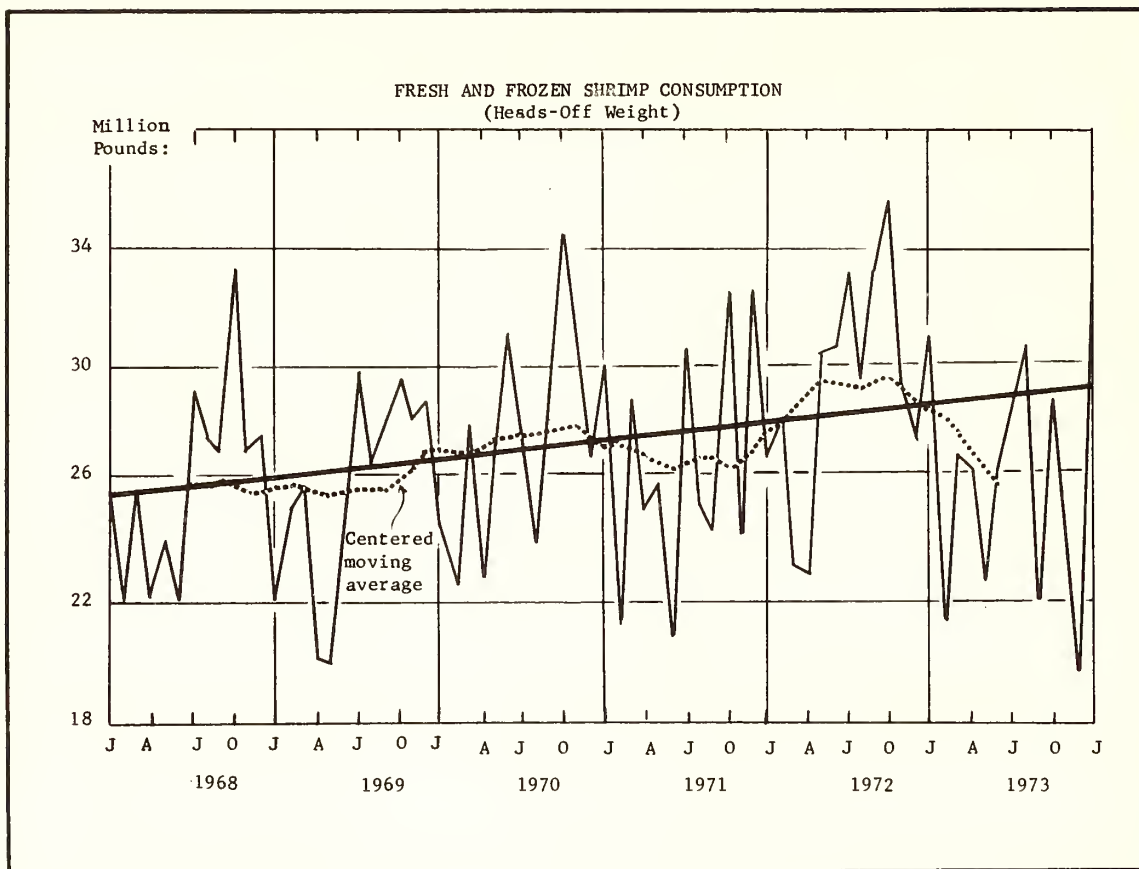


Figure 8

The differential in rates of increase between inventory levels and consumption has increased the ratio of holdings to consumption considerably. In 1968 the quantity in storage at the beginning of a given month was about 1.8 times the month's consumption figure. By 1973, holdings levels had climbed to 5 times the monthly consumption rate but the ratio began to recede slightly to reflect the long period of withdrawal from inventories during January-September 1973 (fig. 9).

Shorter Terms Cycles in Holdings Levels

There are also cycles in the levels of cold storage holdings, as well as cycles in consumption and prices. (The three factors, of course, are closely interrelated.)

The lines representing "centered moving average" in figures 7 and 8 depict the cyclical tendency and also indicate that the duration of the cycles is decreasing. The inventory cycle, for example, moved upward over a 24-month period extending from October 1968 through September 1970. This rise was followed by a 15-month downward swing. The next cyclical peak was reached in 14 months.

The shorter cyclical periods likely reflect a growing complexity in the variables that affect shrimp markets. One example would be the presence of Japanese buyers as a significant factor. Another variable is the uncertainty of supplies associated with resource problems.

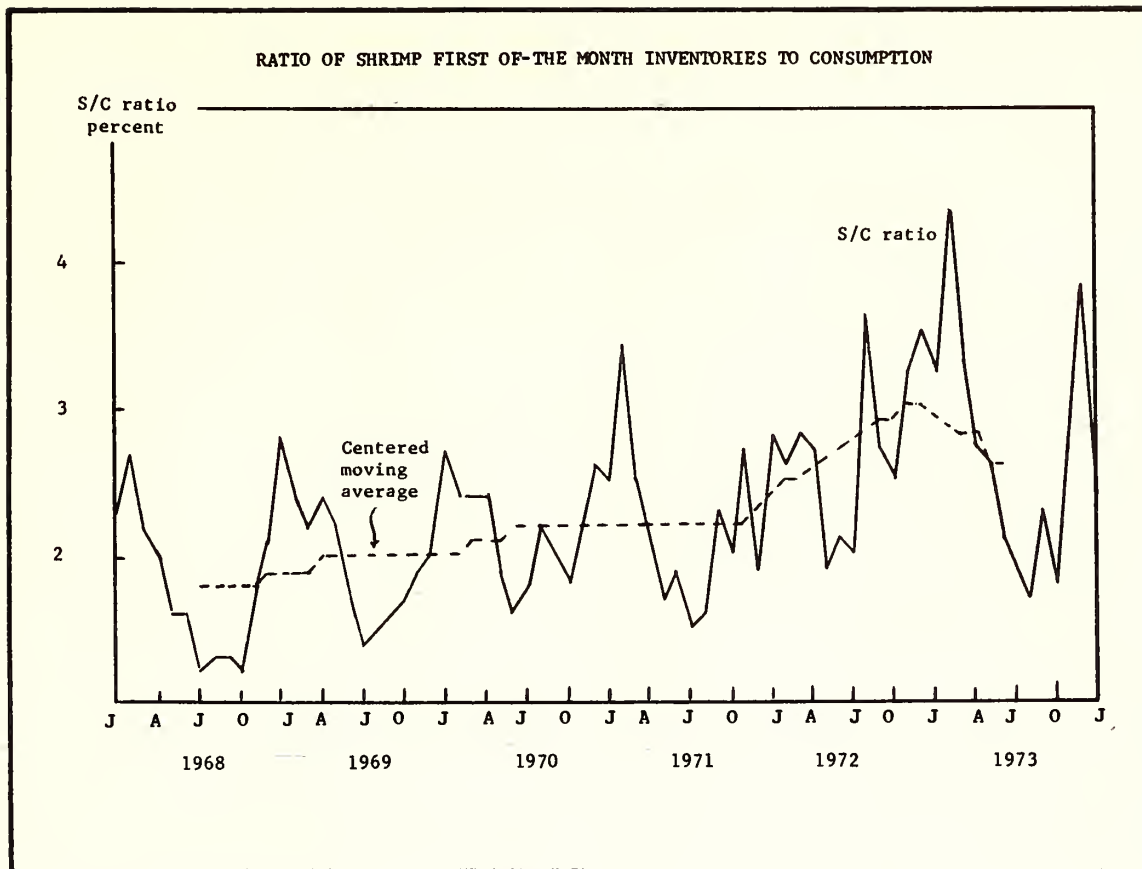


Figure 9

In any event, shorter cycles could mean more frequent--and perhaps more noticeable--adjustments in the markets.

Prices Drop in Early 1974

Predictably, shrimp markets in February-March were reacting to a heavy inventory position with price adjustments, as well as other promotional activity. In the Chicago and New York wholesale markets, prices were cut 7 to 10 percent from December levels and exvessel prices generally were reduced even more--which is not unusual during industry-wide price adjustments (fig. 10). For a frozen commodity such as shrimp, a lag generally can be expected between the time new wholesale prices go into effect and retail prices change. Old stock is likely to be sold at old prices, as retailers act to protect margins in case of falling prices or avoid adverse consumer reaction to sharply rising prices. Thus, February 1974 retail prices slightly increased over the prior month. Table 6 and 7 show comparative price changes.

Table 6.-- Comparative shrimp price changes - wholesale & retail

| Month | Raw headless | | | Breaded | |
|-------------|----------------------|-----------------------|------------------------|-----------|--|
| | Wholesale | Wholesale | Retail | Wholesale | |
| | 26-30 ct. Chicago | 26-30 ct. New York | 21-25 ct. Baltimore | Chicago | |
| Dec. - 1972 | 1.70 | 1.68 | 2.84 | 1.29 | |
| Jan. - 1973 | 1.82 | 1.73 | 2.84 | 1.33 | |
| Feb. - 1973 | 1.93 | 1.87 | 2.89 | 1.39 | |
| % change | | | | | |
| Dec.-Feb. | +13.5 | +11.3 | +1.8 | +7.8 | |
| ----- | | | | | |
| Dec. - 1973 | 2.77 | 2.74 | 3.79 | 1.80 | |
| Jan. - 1974 | 2.72 | 2.64 | 3.88 | 1.76 | |
| Feb. - 1974 | 2.51 | 2.47 | 3.94 | 1.67 | |
| % change | | | | | |
| Dec.-Feb. | -9.4 | -9.9 | +4.0 | -7.2 | |

Table 7.--Comparative exvessel prices of shrimp

| Month | 15-20 ct. (brown) | 15-20 ct. (pink) | 31-35 ct. (brown) | 31-35 ct. (pink) | 51-60 ct. (brown) | 51.60ct. (pink) |
|-------------|--------------------------|------------------|-------------------|------------------|-------------------|-----------------|
| | <u>Dollars/pound</u> | | | | | |
| Dec. - 1972 | 1.50 | 1.60 | 1.40 | 1.32 | .92 | .90 |
| Jan. - 1973 | 1.76 | 1.62 | 1.60 | 1.36 | 1.08 | .98 |
| Feb. - 1973 | 1.89 | 1.70 | 1.70 | 1.47 | 1.10 | 1.05 |
| | <u>Percentage change</u> | | | | | |
| Dec.-Feb. | +26.0 | +6.3 | +21.4 | +11.4 | +19.6 | +16.7 |
| | <u>Dollars/pound</u> | | | | | |
| Dec. - 1973 | 2.92 | 2.60 | 2.06 | 1.98 | 1.30 | 1.22 |
| Jan. - 1974 | 2.88 | 2.56 | 1.84 | 1.83 | 1.11 | .99 |
| Feb. - 1974 | 2.62 | 2.30 | 1.70 | 1.59 | 1.00 | .66 |
| | <u>Percentage change</u> | | | | | |
| Dec.-Feb. | -10.3 | -11.5 | -17.5 | -19.7 | -23-1 | -45.9 |

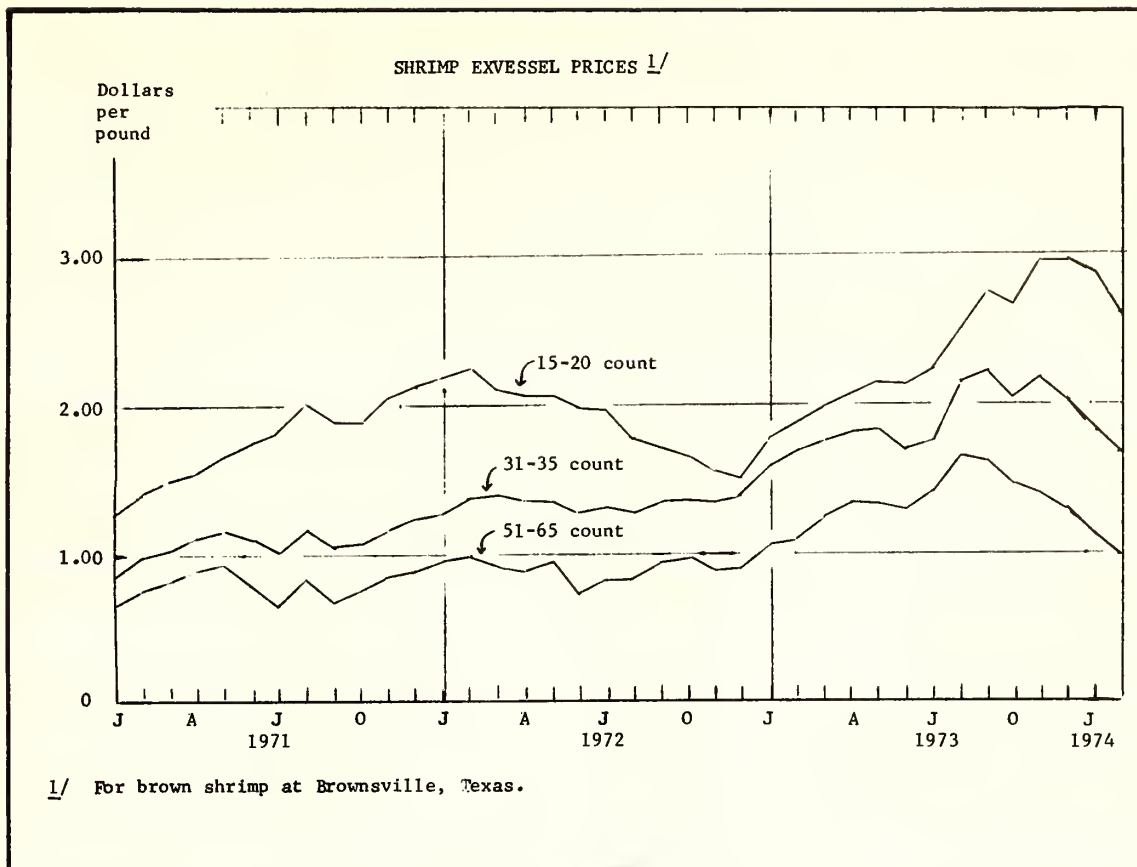


Figure 10

When evaluated in light of normal seasonal movements, the reductions in shrimp prices at the wholesale and exvessel levels were quite severe. For example, between December and the February following, wholesale prices will normally increase about 11 percent (based on changes in the seasonal price index.) Thus, a 10-percent drop amounts roughly to more than a 20-percent cut in seasonally adjusted prices.

In the context of longer term comparisons most shrimp prices in February 1974 were considerably higher than in February 1973, but there are some important exceptions. Exvessel prices for high-count shrimp in February 1974 dipped well below year-earlier prices. For example, the February dockside prices of 51-60 pink shrimp averaged \$0.88 per pound this year compared with \$1.05 a year earlier. This change is notable because landings of pink shrimp in early 1974 apparently were less than a year earlier. Current data by species by size count were not available, but, overall, pink shrimp landings for January and February 1974 at principal Gulf ports were about 12 percent below a year earlier.

It is probable that exvessel prices of high-count (51 and over per pound) pink shrimp were depressed partially because of heavy

landings of similar count sizes in other species. Combined landings of all species of 51-60 count shrimp at principal Gulf ports was up 39 percent for January/February, compared with a year earlier. Also, shrimp landings of all sizes and species at principal ports during January/February were about 11 percent above a year ago (table 8).

Table 8.-- Landings at principal Gulf ports
Dec. 27 to Feb. 21

| Shrimp | 1973 | 1974 | Change 1973-74 |
|----------------------------|------------------------|---------|-------------------|
| | <u>Thousand pounds</u> | | <u>Percent</u> |
| All shrimp | 8,187.4 | 9,077.4 | + 10.9% |
| Pink - all sizes | 3,612.8 | 3,181.6 | - 11.9 |
| Brown - all sizes | 3,204.3 | 3,106.5 | - 3.1 |
| White - all sizes | 1,305.2 | 1,871.2 | + 43.4 |
| Under 30 ct. - all species | 4,343.0 | 4,209.4 | - 3.0 |
| 31-50 ct. - all species | 2,000.2 | 2,309.5 | + 15.5 |
| 51 and over-all species | 1,844.3 | 2,558.5 | + 38.7 |

Exvessel and other shrimp prices in U.S. markets in early 1974 were also under pressure from relatively heavy imports, particularly in the high-count shrimp. Imports through the third week of February 1974 totaled about 32.4 million pounds compared with 18.0 million pounds during the same period a year earlier. About two-thirds of the 14-million-pound increase was in the 51-count and oversize categories as noted in table 9.

Table 9.-- Shrimp imports, Dec. 27 to Feb. 21

| Category | 1973 | 1974 | Percent change |
|-------------------------|------------------------|--------|-------------------|
| | <u>Thousand pounds</u> | | <u>Percent</u> |
| <u>30 ct. and under</u> | | | |
| shell-on | 5,586 | 8,826 | + 58.0 |
| raw peeled | 2,643 | 2,082 | - 21.2 |
| Total | 8,229 | 10,908 | + 32.5 |
| <u>31-50 count</u> | | | |
| shell-on | 2,876 | 4,429 | + 54.0 |
| raw peeled | 1,362 | 1,320 | - 3.1 |
| Total | 4,238 | 5,749 | + 35.7 |
| <u>51 and over</u> | | | |
| shell-on | 2,337 | 4,636 | + 98.4 |
| raw peeled | 3,244 | 11,141 | +243.4 |
| Total | 5,581 | 15,777 | +182.7 |
| Grand Total | 18,048 | 32,434 | +79.7 |

OUTLOOK

The principal question raised from the near-term outlook for shrimp in 1974 concerns the duration of the downswing in prices and the severity of change.

The best indicators as of March 1974 point to continued downward pressure on shrimp prices throughout the rest of the year, with some variation in the amount of pressure tied to the movement of meat prices. Consumption appeared likely to increase moderately, in association with lower prices. The following variables were taken into account in reaching these conclusions:

- (1) Substantial increases in domestic landings and imports.
- (2) Normal seasonal decline in prices after midyear.
- (3) Slowdown in U.S. economy.
- (4) Gasoline shortages.
- (5) Historic observation of relatively sluggish consumer reaction to price changes.
- (6) Expected gains in production of beef and poultry from the second quarter throughout the year.

Landings/Imports

Total landings of shrimp in 1974 will increase significantly from the previous year. Gulf landings were depressed following the spring floods in 1973--but the climate this year is much more favorable. An indication of this was a more than 40-percent rise in January Gulf landings, compared with January a year ago, and continued improvement in February. Indications are that South Atlantic and Gulf landings will top 55 million pounds during the first half of the year. This amount will be about 20 percent above last year, but somewhat under the record 1972 figure.

Imports will also give a large boost to the quantity of new supplies received. Consumers in Japan reportedly have resisted high prices, and stocks are high. Japanese competition with the United States for world supplies thereby will be greatly reduced. There is even the possibility that Japanese trawlers operating off Central and South America may divert their catches to U.S. markets. The Japanese yen was recently devalued, thus making imports more expensive. Japanese traders reportedly were withholding shrimp from the market as a strategy to drive up prices. The reaction of Japanese consumers has led to a decline in shipment to Japan in early 1974.

Imports of shrimp into the United States during January-June this year could easily top last year by 25 to 30 percent, which means a total of about 125 to 130 million pounds. Imports in January 1974 were 30 million pounds--up 62 percent from a year earlier.

Landings and imports added to carryover inventories will mean supplies of about 260 to 265 pounds during the first 6 months of 1974. Assuming 70 million pounds as an acceptable July inventory level (the 1972 figure was 64 million, and 1973's subnormal figure was 52 million pounds) and allowing 30 million pounds for export and canned pack, the required consumption of fresh and frozen shrimp during January-June would be 160 to 165 million pounds. January 1974 consumption was about 33 million pounds, and, if this rate were maintained, the 160-to-165-million-pound total would, of course, be reached. However, considering the factors affecting demand (as discussed below) prices will probably have to remain relatively soft to achieve this level of consumption.

Seasonality Factor

Current supply conditions have contributed to price declines outside the normal seasonal pattern. Assuming even the possibility of the market adjusting to an equilibrium by midyear, the normal expectation should be seasonal declines in shrimp prices throughout the second half of the year.

General Economic Condition

Economic forecasters appear to generally agree that the U.S. economy will undergo what economists at the First National City Bank of New York term "a relatively mild, two-to-three quarter recession in the United States followed by a rather sluggish recovery."*

This plus the effects of continued inflation will erode purchasing power and concentrate consumer spending more heavily on the necessities. The Department of Agriculture predicts that food prices, overall, will increase 12 percent during 1974.** Shrimp, as a relatively high-priced food item, can be adversely affected by this set of conditions. In fact, economic studies have produced evidence that there is a close correlation between rising incomes and increases in the demand for shrimp.

A soft economy also could mean a slowdown in the rate of food purchases away from home. This would affect shrimp particularly, because an estimated 60 to 70 percent of shrimp is consumed in restaurants or other outlets away from home.

* "The sound of the economy", First National Bank, New York, N.Y.

** U.S. Department of Agriculture, "National Food Situation", March 1974

Gasoline Problems

Continued shortages of gasoline likely will take a toll on sales in restaurants that are located in outlying areas or that cater mainly to the tourist trade. Shrimp, being an important menu item, will be affected accordingly.

Historic Consumer Response to Price Changes

There is evidence that shrimp consumption is inversely related to price and that demand for shrimp is inelastic with respect to price. Thus, a given change in price will induce a less than proportional change in consumption in the opposite direction. It requires a rather sizeable decline in price to stimulate a substantial increase in consumption. A rough idea of how this works can be obtained by observing price/consumption changes over two selected periods in the past. In the period January-September 1970 there was a 2.2-percent increase in consumption associated with a 6-percent decline in prices (both variables seasonally adjusted). In an immediate following period--September 1970 to October 1971--consumption dropped 4.3 percent in association with a 38-percent increase in prices.

Beef and Poultry Situation

Beef and poultry were steadily rising during the first quarter of 1974. Shrimp prices, concurrently, were on the way down--thus improving the relative attractiveness of shrimp. The Department of Agriculture, however, predicts that during the second quarter the output of beef and poultry products will begin to expand relative to year-earlier levels and will post further gains throughout the year. This output will tend to dampen further price increases and, according to USDA, there will be a seasonal decline in beef prices in the final quarter of the year.*

Adjustment Process

A bright feature of the outlook is that market forces are moving shrimp markets toward a satisfactory equilibrium. Adjustments, of course, present problems--more to some than others. Shrimp vessel earnings, particularly, will be vulnerable during the adjustment period. Vessel operation costs have been substantially increased as a result of high fuel prices and other cost factors. Lower prices thereby create a need to increase production and productivity, in order to sustain revenues and profitability. Shrimp processors and distributors who were holding heavy inventories when prices began to slide also will cope with a squeeze on profitability. But given the long-term evidence of a strong demand for shrimp in the United States it is not foreseeable that shrimp markets will plunge into prolonged depression. Rather the adjustments now underway should restore normality in the markets by the end of 1974, probably sooner.

*USDA, op. cit.

STATISTICAL

APPENDIX

Table A-1.--Shrimp, first-of-the-month holdings, total

| Month | 1970 | 1971 | 1972 | 1973 | 1974 |
|-----------------------------|--------|--------|--------|--------|--------|
| ----- Thousand pounds ----- | | | | | |
| January | 68,607 | 78,690 | 74,233 | 95,772 | 83,967 |
| February | 65,603 | 69,805 | 72,519 | 85,942 | 86,814 |
| March | 61,982 | 63,318 | 65,453 | 81,239 | 85,307 |
| April | 57,517 | 55,098 | 62,893 | 71,286 | |
| May | 55,899 | 47,293 | 61,689 | 62,762 | |
| June | 52,414 | 43,353 | 64,329 | 57,774 | |
| July | 54,756 | 47,287 | 66,579 | 56,543 | |
| August | 57,676 | 49,427 | 71,894 | 56,552 | |
| September | 60,223 | 59,463 | 89,868 | 51,721 | |
| October | 66,605 | 68,993 | 89,732 | 58,194 | |
| November | 73,179 | 70,608 | 95,113 | 68,995 | |
| December | 75,977 | 72,500 | 97,610 | 77,790 | |

Source: NMFS, DMNS

Table A-2.--Shrimp, first-of-the-month holdings, raw headless

| Month | 1970 | 1971 | 1972 | 1973 | 1974 |
|-----------------------------|--------|--------|--------|--------|--------|
| ----- Thousand pounds ----- | | | | | |
| January | 44,105 | 52,807 | 47,444 | 52,721 | 47,097 |
| February | 42,099 | 37,325 | 46,517 | 45,557 | 47,863 |
| March | 39,429 | 35,158 | 40,705 | 40,358 | 46,891 |
| April | 36,560 | 29,756 | 36,710 | 32,306 | |
| May | 35,277 | 23,869 | 35,730 | 29,358 | |
| June | 32,628 | 20,580 | 35,479 | 26,210 | |
| July | 34,699 | 22,961 | 37,054 | 25,706 | |
| August | 36,094 | 25,473 | 40,054 | 26,831 | |
| September | 37,513 | 34,342 | 49,306 | 24,579 | |
| October | 42,718 | 41,745 | 49,326 | 30,069 | |
| November | 47,847 | 55,148 | 50,879 | 35,629 | |
| December | 50,290 | 48,102 | 52,877 | 42,085 | |

Table A-3.--Shrimp, first-of-the-month holdings, breaded

| Month | 1970 | 1971 | 1972 | 1973 | 1974 |
|------------------------------------|------|--------|--------|--------|--------|
| ----- <u>Thousand pounds</u> ----- | | | | | |
| January | * | 25,883 | 10,583 | 10,246 | 14,581 |
| February | | 8,974 | 9,947 | 9,655 | 13,697 |
| March | | 7,661 | 9,719 | 9,785 | 12,612 |
| April | | 7,488 | 9,892 | 10,966 | |
| May | | 7,252 | 9,618 | 10,043 | |
| June | | 7,252 | 9,168 | 10,891 | |
| July | | 8,336 | 9,811 | 11,064 | |
| August | | 8,369 | 9,085 | 11,256 | |
| September | | 9,478 | 9,935 | 9,902 | |
| October | | 9,747 | 9,069 | 10,597 | |
| November | | 9,758 | 8,841 | 12,937 | |
| December | | 9,213 | 10,399 | 13,972 | |

*All breaded for 1970 included in unclassified table.

Table A-4.--Shrimp, first-of-the-month holdings, peeled

| Month | 1970 | 1971 | 1972 | 1973 | 1974 |
|------------------------------------|------|--------|--------|--------|--------|
| ----- <u>Thousand pounds</u> ----- | | | | | |
| January | * | | 11,976 | 25,651 | 17,401 |
| February | | 14,673 | 12,263 | 23,738 | 18,103 |
| March | | 13,724 | 11,516 | 25,048 | 18,344 |
| April | | 12,057 | 11,810 | 21,684 | |
| May | | 11,011 | 11,408 | 17,080 | |
| June | | 10,076 | 13,805 | 16,112 | |
| July | | 12,787 | 15,986 | 14,325 | |
| August | | 12,145 | 17,960 | 13,991 | |
| September | | 12,152 | 25,080 | 13,034 | |
| October | | 13,549 | 25,819 | 13,791 | |
| November | | 11,507 | 27,402 | 15,994 | |
| December | | 11,238 | 27,363 | 16,044 | |

*All peeled for 1970 is included in unclassified table.

Table A-5.--Shrimp, first-of-the-month holdings, unclassified

| Month | 1970 | 1971 | 1972 | 1973 | 1974 |
|-----------------------------|---------|-------|-------|-------|-------|
| ----- Thousand pounds ----- | | | | | |
| January | *24,502 | | 4,230 | 7,154 | 4,888 |
| February | *23,207 | 8,833 | 3,792 | 6,992 | 7,151 |
| March | *22,553 | 6,775 | 3,513 | 6,048 | 7,460 |
| April | *20,957 | 5,797 | 4,481 | 6,330 | |
| May | *20,622 | 5,161 | 4,942 | 6,281 | |
| June | *12,786 | 4,740 | 5,877 | 4,561 | |
| July | *20,057 | 3,203 | 3,728 | 5,448 | |
| August | *21,582 | 3,440 | 4,795 | 4,474 | |
| September | *22,710 | 3,491 | 5,547 | 4,206 | |
| October | *23,887 | 4,042 | 5,518 | 3,737 | |
| November | *25,332 | 4,195 | 7,991 | 4,435 | |
| December | *25,687 | 3,947 | 6,971 | 5,689 | |

*Included breaded and peeled.

Table A-6.--Gulf shrimp landings

| Month | 1970 | 1971 | 1972 | 1973 | 1974 |
|-----------------------------|--------|--------|--------|--------|-------|
| ----- Thousand pounds ----- | | | | | |
| January | 5,025 | 5,173 | 7,517 | 5,405 | 7,936 |
| February | 5,113 | 5,048 | 4,601 | 4,091 | 5,625 |
| March | 4,818 | 4,300 | 5,753 | 4,190 | |
| April | 5,181 | 3,890 | 4,490 | 3,956 | |
| May | 12,317 | 12,173 | 13,970 | 7,975 | |
| June | 21,992 | 20,588 | 17,593 | 17,510 | |
| July | 16,192 | 18,819 | 20,165 | 14,485 | |
| August | 16,876 | 18,639 | 19,901 | 9,653 | |
| September | 15,779 | 13,853 | 15,309 | 10,310 | |
| October | 18,440 | 18,299 | 13,892 | 13,962 | |
| November | 13,995 | 14,027 | 12,189 | 11,297 | |
| December | 9,617 | 8,268 | 8,289 | 10,425 | |

Table A-7.--Shrimp landings (heads-off weight)

| Month | 1970 | 1971 | 1972 | 1973 | 1974 |
|-----------------------------|---------|---------|---------|---------|--------|
| ----- Thousand pounds ----- | | | | | |
| January | 9,738 | 9,666 | 13,243 | 13,471 | 13,700 |
| February | 10,821 | 11,956 | 9,403 | 12,006 | |
| March | 13,881 | 13,726 | 11,382 | 7,371 | |
| April | 10,861 | 6,558 | 7,724 | 8,031 | |
| May | 16,020 | 17,354 | 19,453 | 14,830 | |
| June | 29,176 | 25,293 | 28,616 | 27,202 | |
| July | 26,459 | 30,719 | 34,536 | 26,747 | |
| August | 25,801 | 30,191 | 31,109 | 24,044 | |
| September | 23,931 | 24,007 | 22,656 | 24,973 | |
| October | 24,776 | 26,701 | 25,313 | 25,059 | |
| November | 19,220 | 21,357 | 17,360 | 20,950 | |
| December | 13,535 | 13,917 | 13,964 | 17,730 | |
| Total | 224,203 | 234,190 | 234,759 | 222,414 | |

Table A-8.--Shrimp imports, total

| Month | 1970 | 1971 | 1972 | 1973 | 1974 |
|-----------------------------|---------|---------|---------|---------|--------|
| ----- Thousand pounds ----- | | | | | |
| January | 18,637 | 15,212 | 17,818 | 16,530 | 25,343 |
| February | 14,532 | 11,356 | 14,353 | 14,839 | 20,906 |
| March | 18,535 | 14,616 | 14,383 | 14,397 | |
| April | 16,372 | 13,195 | 15,942 | 15,216 | |
| May | 15,514 | 14,207 | 21,368 | 14,541 | |
| June | 19,748 | 15,933 | 20,452 | 13,623 | |
| July | 16,083 | 14,677 | 20,327 | 14,735 | |
| August | 13,428 | 14,781 | 17,084 | 16,048 | |
| September | 18,182 | 16,996 | 16,799 | 16,169 | |
| October | 24,569 | 18,647 | 26,379 | 26,419 | |
| November | 22,648 | 17,180 | 19,700 | 21,686 | |
| December | 20,464 | 24,519 | 18,618 | 18,401 | |
| Total | 218,712 | 191,319 | 223,223 | 202,603 | |

Table A-9.--Shrimp imports, raw headless

| Month | 1970 | 1971 | 1972 | 1973 | 1974 |
|-----------|------------------------------------|---------|---------|---------|--------|
| | ----- <u>Thousand pounds</u> ----- | | | | |
| January | 11,868 | 8,684 | 10,774 | 10,633 | 14,297 |
| February | 9,064 | 7,100 | 8,921 | 8,773 | 10,420 |
| March | 11,408 | 8,766 | 8,768 | 9,318 | |
| April | 10,881 | 7,768 | 8,904 | 10,304 | |
| May | 9,622 | 8,673 | 9,651 | 9,432 | |
| June | 12,616 | 10,215 | 10,624 | 8,451 | |
| July | 9,914 | 9,858 | 9,988 | 8,349 | |
| August | 6,816 | 8,622 | 8,375 | 8,463 | |
| September | 12,013 | 11,436 | 9,859 | 9,754 | |
| October | 17,112 | 15,036 | 16,756 | 16,673 | |
| November | 15,257 | 12,526 | 12,275 | 12,338 | |
| December | 13,407 | 15,244 | 11,875 | 10,767 | |
| TOTAL | 139,978 | 123,928 | 126,770 | 123,255 | |

Table A-10.--Shrimp imports, peeled raw

| Month | 1970 | 1971 | 1972 | 1973 | 1974 |
|--------------|------------------------------------|---------------|---------------|---------------|-------|
| | ----- <u>Thousand pounds</u> ----- | | | | |
| January | 6,289 | 5,678 | 6,493 | 5,427 | 9,220 |
| February | 4,872 | 3,685 | 5,177 | 5,517 | 8,855 |
| March | 6,344 | 5,167 | 5,222 | 4,402 | |
| April | 4,893 | 5,160 | 6,581 | 4,421 | |
| May | 5,146 | 4,909 | 11,161 | 4,423 | |
| June | 6,439 | 5,143 | 9,031 | 4,656 | |
| July | 5,330 | 4,286 | 9,656 | 5,852 | |
| August | 5,550 | 5,608 | 8,169 | 7,077 | |
| September | 5,151 | 4,908 | 6,447 | 5,997 | |
| October | 6,527 | 3,193 | 9,249 | 8,609 | |
| November | 6,721 | 3,842 | 6,947 | 8,321 | |
| December | 6,239 | 8,579 | 6,010 | 6,717 | |
| TOTAL | 69,501 | 60,158 | 90,143 | 71,419 | |

Table A-11.--Shrimp imports, breaded

| Month | 1970 | 1971 | 1972 | 1973 | 1974 |
|-----------|------------------------------------|-------|-------|------|------|
| | ----- <u>Thousand pounds</u> ----- | | | | |
| January | 218 | 130 | 183 | 118 | 119 |
| February | 149 | 146 | 74 | 141 | 147 |
| March | 276 | 123 | 90 | 131 | |
| April | 181 | 19 | 65 | 56 | |
| May | 41 | 151 | 109 | 121 | |
| June | 151 | 105 | 271 | 98 | |
| July | 102 | 45 | 221 | 1 | |
| August | 50 | 8 | 75 | 51 | |
| September | 41 | 26 | 81 | 15 | |
| October | 57 | 107 | 4 | 76 | |
| November | 64 | 191 | 71 | 87 | |
| December | 83 | 161 | 78 | 83 | |
| TOTAL | 1,413 | 1,212 | 1,322 | 978 | |

Table A-12.--Shrimp imports, canned

| Month | 1970 | 1971 | 1972 | 1973 | 1974 |
|-----------|------------------------------------|-------|-------|-------|-------|
| | ----- <u>Thousand pounds</u> ----- | | | | |
| January | 179 | 425 | 234 | 112 | 835 |
| February | 173 | 201 | 49 | 159 | 1,054 |
| March | 256 | 295 | 121 | 228 | |
| April | 253 | 156 | 77 | 241 | |
| May | 359 | 281 | 74 | 391 | |
| June | 272 | 227 | 53 | 267 | |
| July | 409 | 143 | 90 | 310 | |
| August | 375 | 138 | 4 | 94 | |
| September | 287 | 289 | 99 | 172 | |
| October | 478 | 134 | 105 | 310 | |
| November | 366 | 175 | 20 | 303 | |
| December | 468 | 277 | 197 | 440 | |
| TOTAL | 3,875 | 2,742 | 1,123 | 3,027 | |

Table A-13.--Shrimp imports, other (peeled cooked,
not breaded and dried)

| Month | 1970 | 1971 | 1972 | 1973 | 1974 |
|-----------|------------------------------------|-------|-------|-------|------|
| | ----- <u>Thousand pounds</u> ----- | | | | |
| January | 83 | 295 | 134 | 241 | 873 |
| February | 274 | 224 | 132 | 248 | 430 |
| March | 251 | 265 | 182 | 317 | |
| April | 164 | 92 | 315 | 194 | |
| May | 346 | 193 | 373 | 174 | |
| June | 270 | 242 | 473 | 151 | |
| July | 329 | 345 | 373 | 223 | |
| August | 637 | 405 | 461 | 363 | |
| September | 690 | 337 | 313 | 231 | |
| October | 395 | 177 | 265 | 751 | |
| November | 240 | 446 | 387 | 637 | |
| December | 267 | 258 | 458 | 394 | |
| TOTAL | 3,948 | 3,279 | 3,366 | 3,924 | |

Table A-14.--Shrimp imports, total by count size
(shell-on)

| | 1971 | 1972 | 1973 |
|--------------|------------------------------------|---------------|---------------|
| | ----- <u>Thousand pounds</u> ----- | | |
| Under 15 | 15,439 | 16,034 | 14,326 |
| 15-20 | 13,907 | 12,105 | 10,986 |
| 21-25 | 12,945 | 10,272 | 9,559 |
| 26-30 | 10,470 | 8,652 | 8,682 |
| 31-40 | 13,271 | 12,930 | 13,759 |
| 41-50 | 9,105 | 8,371 | 10,012 |
| 51-60 | 4,942 | 4,339 | 5,695 |
| 61-70 | 3,004 | 2,604 | 2,852 |
| 71 and over | 3,433 | 3,103 | 3,626 |
| Other | 9,984 | 7,742 | 12,764 |
| TOTAL | 96,500 | 86,806 | 92,397 |

Table A-15.--Shrimp imports, total by count size
(raw peeled)

| | 1971 | 1972 | 1973 |
|--------------|------------------------------------|---------------|---------------|
| | ----- <u>Thousand pounds</u> ----- | | |
| Under 15 | 892 | 1,914 | 1,704 |
| 15-20 | 2,470 | 3,343 | 3,245 |
| 21-25 | 2,442 | 3,796 | 3,166 |
| 26-30 | 3,031 | 4,832 | 3,941 |
| 31-40 | 4,080 | 5,632 | 4,763 |
| 41-50 | 2,331 | 2,854 | 2,937 |
| 51-60 | 1,940 | 2,605 | 2,518 |
| 61-70 | 1,324 | 2,036 | 1,733 |
| 71 and over | 13,047 | 32,558 | 26,102 |
| Other | 5,416 | 12,584 | 7,879 |
| TOTAL | 36,975 | 72,206 | 57,991 |

Table A-16.--Total supplies of shrimp (heads-off weight)

| Month | 1970 | 1971 | 1972 | 1973 | 1974 |
|-----------|------------------------------------|---------|---------|---------|---------|
| | ----- <u>Thousand pounds</u> ----- | | | | |
| January | 89,734 | 96,350 | 99,472 | 118,727 | 118,400 |
| February | 83,707 | 83,611 | 92,219 | 105,952 | 113,100 |
| March | 87,185 | 84,293 | 86,762 | 102,757 | |
| April | 76,745 | 70,618 | 83,697 | 89,473 | |
| May | 81,416 | 71,966 | 97,461 | 83,665 | |
| June | 92,805 | 78,631 | 103,569 | 90,513 | |
| July | 86,918 | 83,291 | 109,905 | 85,282 | |
| August | 86,432 | 84,079 | 111,554 | 82,042 | |
| September | 94,105 | 93,079 | 125,729 | 80,319 | |
| October | 109,287 | 107,450 | 134,273 | 99,279 | |
| November | 108,565 | 101,388 | 130,465 | 103,286 | |
| December | 103,759 | 106,923 | 125,154 | 105,057 | |

Table A-17.--Fresh and frozen shrimp consumption

| Month | 1970 | 1971 | 1972 | 1973 | 1974 |
|--------------|------------------------------------|----------------|----------------|----------------|--------|
| | ----- <u>Thousand pounds</u> ----- | | | | |
| January | 24,726 | 29,079 | 26,016 | 31,033 | 33,400 |
| February | 22,572 | 21,271 | 28,097 | 21,402 | 29,600 |
| March | 28,181 | 28,805 | 23,189 | 26,961 | |
| April | 22,873 | 25,197 | 22,955 | 26,527 | |
| May | 27,261 | 25,971 | 30,305 | 22,726 | |
| June | 31,088 | 20,933 | 30,548 | 26,482 | |
| July | 27,976 | 30,468 | 33,071 | 28,574 | |
| August | 24,127 | 25,439 | 29,488 | 30,592 | |
| September | 28,171 | 24,272 | 33,342 | 21,951 | |
| October | 34,420 | 32,614 | 35,786 | 28,911 | |
| November | 31,038 | 24,547 | 29,495 | 23,722 | |
| December | 27,109 | 32,475 | 27,409 | 19,633 | |
| TOTAL | 329,542 | 321,971 | 320,601 | 289,254 | |

Table A-18.--Wholesale price at Chicago, 26-30 count shrimp

| Month | 1970 | 1971 | 1972 | 1973 | 1974 |
|-----------|------------------------------------|------|------|------|------|
| | ----- <u>Thousand pounds</u> ----- | | | | |
| January | 1.32 | 1.20 | 1.93 | 1.82 | 2.72 |
| February | 1.33 | 1.30 | 2.05 | 1.93 | 2.51 |
| March | 1.32 | 1.39 | 2.06 | 2.05 | 2.42 |
| April | 1.32 | 1.43 | 2.04 | 2.04 | |
| May | 1.34 | 1.54 | 2.09 | 2.14 | |
| June | 1.35 | 1.58 | 1.92 | 2.18 | |
| July | 1.27 | 1.55 | 1.92 | 2.20 | |
| August | 1.23 | 1.63 | 1.77 | 2.51 | |
| September | 1.15 | 1.56 | 1.78 | 2.73 | |
| October | 1.16 | 1.59 | 1.72 | 2.61 | |
| November | 1.18 | 1.73 | 1.68 | 2.76 | |
| December | 1.18 | 1.80 | 1.70 | 2.77 | |

Table A-19.--Wholesale price at New York, 26-30 count shrimp

| Month | 1970 | 1971 | 1972 | 1973 | 1974 |
|-----------|--------------------------------------|------|------|------|------|
| | ----- <u>Dollars per pound</u> ----- | | | | |
| January | 1.28 | 1.20 | 1.88 | 1.73 | 2.64 |
| February | 1.30 | 1.24 | 2.01 | 1.87 | 2.47 |
| March | 1.29 | 1.31 | 2.05 | 1.99 | 2.38 |
| April | 1.28 | 1.42 | 2.06 | 2.02 | |
| May | 1.29 | 1.52 | 2.03 | 2.13 | |
| June | 1.27 | 1.51 | 1.93 | 2.16 | |
| July | 1.22 | 1.49 | 1.94 | 2.18 | |
| August | 1.22 | 1.62 | 1.82 | 2.48 | |
| September | 1.19 | 1.57 | 1.70 | 2.69 | |
| October | 1.15 | 1.60 | 1.75 | 2.61 | |
| November | 1.16 | 1.74 | 1.66 | 2.68 | |
| December | 1.16 | 1.79 | 1.68 | 2.74 | |

**Table A-20.--Monthly retail price at Baltimore, 21-25
count shrimp**

| Month | 1970 | 1971 | 1972 | 1973 | 1974 |
|------------------|--------------------------------------|-------------|-------------|-------------|-------------|
| | ----- <u>Dollars per pound</u> ----- | | | | |
| January | 2.19 | 2.10 | 2.75 | 2.84 | 3.88 |
| February | 2.14 | 2.12 | 2.83 | 2.89 | 3.94 |
| March | 2.14 | 2.16 | 2.84 | 3.06 | 3.93 |
| April | 2.01 | 2.25 | 3.02 | 3.05 | |
| May | 1.97 | 2.32 | 3.05 | 3.01 | |
| June | 1.97 | 2.47 | 2.99 | 2.94 | |
| July | 1.97 | 2.49 | 2.92 | 2.94 | |
| August | 1.97 | 2.52 | 2.95 | 3.13 | |
| September | 2.02 | 2.59 | 2.99 | 3.57 | |
| October | 2.09 | 2.59 | 2.99 | 3.75 | |
| November | 2.12 | 2.59 | 2.89 | 3.79 | |
| December | 2.14 | 2.52 | 2.84 | 3.79 | |

Table A-21.--Shrimp exvessel price index (1967 = 100)

| Month | 1970 | 1971 | 1972 | 1973 | 1974 |
|-----------|---------------------|-------|-------|-------|-------|
| | ----- Percent ----- | | | | |
| January | 117.0 | 104.9 | 158.1 | 146.7 | 221.8 |
| February | 132.7 | 112.5 | 163.8 | 159.8 | |
| March | 126.2 | 124.6 | 159.4 | 168.6 | |
| April | 127.9 | 143.3 | 172.4 | 179.2 | |
| May | 118.4 | 148.0 | 161.6 | 181.9 | |
| June | 123.8 | 132.8 | 150.6 | 182.3 | |
| July | 115.4 | 147.3 | 154.7 | 193.1 | |
| August | 118.9 | 146.6 | 141.1 | 219.0 | |
| September | 103.1 | 153.2 | 140.3 | 229.4 | |
| October | 104.4 | 141.9 | 147.1 | 220.4 | |
| November | 104.6 | 150.8 | 142.3 | 230.6 | |
| December | 104.9 | 159.5 | 142.9 | 229.4 | |

Table A-22--Exvessel prices for brown, white, and pink shrimp for selected ports and count sizes, monthly 1971-73
(Number of raw headless shrimp per pound)

| Month | 15 - 20 | | | | 31 - 35 | | | | 51 - 60 | | | |
|---|---------|------|------|------|---------|------|------|------|---------|------|------|------|
| | 1971 | 1972 | 1973 | 1974 | 1971 | 1972 | 1973 | 1974 | 1971 | 1972 | 1973 | 1974 |
| Dollars per pound | | | | | | | | | | | | |
| Brown shrimp at Brownsville-Port Isabel, Texas: | | | | | | | | | | | | |
| January | 1.28 | 2.18 | 1.76 | 2.81 | .89 | 1.28 | 1.60 | 1.84 | .66 | .97 | 1.08 | 1.11 |
| February | 1.42 | 2.24 | 1.89 | 2.68 | .98 | 1.39 | 1.70 | 1.65 | .77 | 1.00 | 1.10 | .95 |
| March | 1.50 | 2.10 | 1.98 | 2.54 | 1.03 | 1.41 | 1.76 | 1.60 | .83 | .93 | 1.26 | .90 |
| April | 1.56 | 2.07 | 2.07 | | 1.12 | 1.38 | 1.81 | | .91 | .90 | 1.35 | |
| May | 1.68 | 2.07 | 2.14 | | 1.18 | 1.37 | 1.84 | | .96 | .97 | 1.35 | |
| June | 1.77 | 1.98 | 2.12 | | 1.11 | 1.29 | 1.70 | | .80 | .74 | 1.30 | |
| July | 1.83 | 1.97 | 2.24 | | 1.01 | 1.32 | 1.77 | | .66 | .85 | 1.42 | |
| August | 2.01 | 1.77 | 2.51 | | 1.18 | 1.28 | 2.14 | | .86 | .86 | 1.66 | |
| September | 1.92 | 1.71 | 2.75 | | 1.04 | 1.38 | 2.22 | | .69 | .96 | 1.04 | |
| October | 1.90 | 1.00 | 2.09 | | 1.09 | 1.38 | 2.06 | | .78 | .99 | 1.48 | |
| November | 2.06 | 1.55 | 2.91 | | 1.17 | 1.35 | 2.19 | | .88 | .90 | 1.44 | |
| December | 2.14 | 1.50 | 2.92 | | 1.24 | 1.40 | 2.06 | | .91 | .92 | 1.30 | |
| White shrimp at Morgan City, Louisiana | | | | | | | | | | | | |
| January | 1.30 | 2.18 | 1.81 | 2.92 | .82 | 1.44 | 1.56 | 2.00 | .56 | .90 | 1.00 | 1.25 |
| February | 1.48 | 2.20 | 1.91 | 2.82 | .90 | 1.51 | 1.68 | 1.78 | .66 | .92 | 1.11 | 1.05 |
| March | 1.46 | 2.20 | 1.90 | 2.70 | .96 | 1.56 | 1.75 | 1.58 | .72 | .92 | 1.17 | .88 |
| April | 1.56 | 2.17 | 2.03 | | 1.09 | 1.56 | 1.72 | | .80 | .92 | 1.25 | |
| May | 1.64 | 2.16 | 2.09 | | 1.16 | 1.52 | 1.77 | | .77 | .88 | 1.39 | |
| June | 1.71 | 2.10 | 2.13 | | 1.12 | 1.43 | 1.78 | | .66 | .80 | 1.22 | |
| July | 1.84 | 2.04 | 2.15 | | 1.08 | 1.42 | 1.77 | | .67 | .75 | 1.22 | |
| August | 1.96 | 1.75 | 2.42 | | 1.12 | 1.25 | 1.99 | | .77 | .75 | 1.54 | |
| September | 1.95 | 1.68 | 2.74 | | 1.06 | 1.38 | 2.18 | | .70 | .85 | 1.61 | |
| October | 1.91 | 1.77 | 2.72 | | 1.10 | 1.48 | 2.12 | | .76 | .94 | 1.52 | |
| November | 2.04 | 1.74 | 2.81 | | 1.18 | 1.47 | 2.16 | | .79 | .94 | 1.38 | |
| December | 2.11 | 1.70 | 2.95 | | 1.28 | 1.46 | 2.15 | | .84 | .95 | 1.35 | |
| Pink shrimp at Tampa, Florida | | | | | | | | | | | | |
| January | 1.20 | 2.02 | 1.62 | 2.56 | .90 | 1.36 | 1.36 | 1.80 | - | .96 | .98 | .99 |
| February | 1.25 | 2.07 | 1.70 | 2.28 | .90 | 1.42 | 1.47 | 1.55 | .62 | .98 | 1.05 | .88 |
| March | 1.37 | 2.08 | 1.82 | 2.25 | 1.03 | 1.40 | 1.59 | 1.52 | .69 | .96 | 1.17 | .92 |
| April | 1.47 | 2.08 | 1.89 | | 1.10 | 1.40 | 1.65 | | .74 | .96 | 1.24 | |
| May | 1.56 | 2.00 | 1.99 | | 1.19 | 1.40 | 1.75 | | .78 | .95 | 1.34 | |
| June | 1.56 | 1.93 | 2.01 | | 1.18 | 1.37 | 1.27 | | .79 | .80 | 1.36 | |
| July | 1.50 | 1.90 | 2.01 | | 1.07 | 1.36 | 1.78 | | .57 | .78 | - | |
| August | 1.75 | 1.73 | 2.40 | | 1.20 | 1.30 | 2.06 | | .62 | .82 | 1.55 | |
| September | 1.75 | 1.68 | 2.57 | | 1.08 | 1.33 | 2.19 | | .72 | - | 1.57 | |
| October | 1.76 | 1.66 | 2.55 | | 1.05 | 1.33 | 2.04 | | .77 | - | 1.32 | |
| November | 1.79 | 1.64 | 2.56 | | 1.15 | 1.33 | 2.05 | | .81 | .92 | 1.29 | |
| December | 1.88 | 1.60 | 2.60 | | 1.24 | 1.32 | 1.98 | | .89 | .90 | 1.22 | |

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