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Water Resources Support Center
Institute for Water Resources

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FLEET FORECASTS FOR THE UNITED STATES TO 2020

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19 ABSTRACT (Continue on reverse if necessary and identify by block number) The distribution of vessel sizes that will serve U.S. ports is a critical assumption in Corps of Engineers planning studies to determine potential benefits of harbor improvement projects. The planning horizon for such studies requires fleet forecasts that go beyond those routinely used for shipping industry purposes. The forecast is limited to vessels serving U.S. foreign trade, but is based on analysis of worldwide shipping supply and demand. Global seaborne trade projections were developed by DRI/McGraw-Hill in cooperation with Temple, Barker & Sloane, Inc. (TBS). Lloyd's Maritime Services, Ltd. (LMIS) provided data on ship utilization, construction, and scrapping. A model developed by TBS related supply to demand and accounted for vessel redeployments, retirements, and additions to fleet capacity. The forecasts are in tons of cargo available and tons of ship capacity, by size range for 11 vessel types, for 75 trade routes serving five U.S. coastal ranges (North Atlantic, South Atlantic, Gulf, North Pacific, South Pacific). Forecast intervals are 1995, 2000, 2010, and 2020.			
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Fleet Forecasts for the United States to 2020

FINAL REPORT

Prepared for:

United States Army Corps of Engineers

by:

DRI/McGraw-Hill
1750 K Street, NW, 9th Floor
Washington, DC 20006
202/663-7600
Telex: 200284
Fax: 202/663-7800

Temple, Barker & Sloane, Inc.
33 Hayden Avenue
Lexington, MA 02173
617/861-7580
Telex: 951929
Fax: 617/862-3935

Lloyd's Maritime Information Services Ltd.
One Singer Street
London EC2A 4LQ, England
(01)490 1720
Telex: 987321
Fax: (01)250 3142

March 21, 1990

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I. Introduction

I. Introduction

The world commercial shipping fleet is due for considerable revamping over the next ten years as vessels' age forces increased scrapping and newbuilding. At the same time, world trade is forecast to grow, in general terms, at real rates in excess of real GNP growth in both the industrialized and the developing worlds. Therefore, there is likely to be increased demands on the commercial fleet calling at U.S. ports.

In order to assess the size of these changes and their potential impact on the fleet calling on U.S. ports, the United States Army Corps of Engineers commissioned a study through its ongoing contract with DRI/McGraw-Hill to formulate a fleet forecast that is consistent with the economic and trade prospects for the United States.

DRI worked in conjunction with:

Lloyd's Maritime Information Services, Ltd. (LMIS), a London firm that maintains historical databases covering ship movements, ship characteristics, newbuilding activity, laid-up statistics, and scrapping and casualty figures.

Temple, Barker & Sloane, Inc. (TBS), a Lexington, Massachusetts management consulting firm with a specialty in maritime issues, and joint partner with DRI in the development of global seaborne trade projections using the DRI/TBS World Sea Trade Service.

to develop fleet forecasts for the United States based on the current DRI macroeconomic projections for 60 economies, the implied demand for trade in 40 commodity groups across 700 trade routes worldwide, and the implications of this outlook for the world's commercial shipping fleet. The World Fleet Forecast Service, on which the enclosed forecasts are based, was developed through joint cooperation by all three of the above firms.

This report contains a brief overview of the current trade outlook by liner, dry bulk and tanker shipping sectors; a detailed description of the methodology used in both the trade and fleet forecasting work; and the detailed fleet forecast tables themselves.

II. World Sea Trade Forecast Summary

II. World Sea Trade Forecast Summary

This section describes the outlook for world seaborne trade together with the assumptions concerning economic growth underlying that outlook. As of the date of this report, the economic forecasts were the latest ones developed by the DRI/McGraw-Hill staff, and these cover the U.S., the major 12 European countries, Japan, and other fast-growing countries in the Far East.

The reader is referred to the appendix tables A1 and A2 for a list of the geographic regions used in the DRI/TBS World Sea Trade Service, the model used to develop these projections, and for the full list of forty commodities whose movements are projected in the model.

United States

Short-Term.

U.S. exports are projected to grow over the period 1988-90 by about 6.1 percent per year, while imports will grow at only a 3.9 percent rate. Export growth is expected to slow down slightly during the 1990-93 time frame, when growth will average 5.3 percent per year. This slowdown is due to a number of factors, such as increasing competition from Asian suppliers, a dollar that is stronger than expected (although weakening slowly) against the yen, and the fact that the novelty of buying from American suppliers again will have worn off (new markets may already have been fully exploited). In 1987 and 1988, the years when the devaluation of the dollar finally awakened the latent exports capabilities of American companies, real growth in U.S. exports was measured to be close to 14 percent and 18 percent, respectively. For 1989 we estimate export growth to have been only 8.7 percent, with 1990 growth expected to be a mere 3.7 percent.

Real growth of 3.9 percent in import volumes is expected for the period 1988-90. This is significantly less than in 1984, when real imports advanced at a 29 percent rate (36 percent for trade with other OECD countries and 18 percent for trade with the LDCs). Trade will grow approximately twice as fast as U.S. output (GDP) for much of this period. The slowdown in U.S. gross domestic product, occurring now in 1990, should inhibit U.S. import growth slightly: from 4.2 percent in 1989 to 3.5 percent in 1990. We also anticipate that the impact of a U.S. slowdown on trade will not be evenly felt by all trading partners. Trade with LDCs will be more adversely affected than trade with the OECD due to the closer connection between LDC exports (to the United States) and U.S. retail sales.

Long-Term

Looking out beyond 1993, we believe that the rate of growth in U.S. trade with the world will be greater relative balance. Although the trade imbalance is not forecast to disappear, as a share of the economy the trade deficit will become less as it stabilizes in the \$130-150 billion range.

Whereas history is dominated by the imbalance in growth between imports and exports, and the medium term shows a slow redress of that imbalance with export growth rates greater than import growth rates; while the long term trends suggest that export and import growth will be in much closer balance (with exports forecast to grow by about 3.9 percent per year for the period and imports at 3.2 percent).

In examining the various patterns of U.S. trade we note that in the medium term the NIEs, once growing both as a source of inexpensive imports and a market for U.S. exports, will become less important in the long-term. In the medium term, the effects of currency revaluations, strikes, and the 1989-90 U.S. economic slowdown, have slowed this trade growth from positive to even negative growth. By the end of the decade both imports and exports are back on trade, but with growth rates significantly less than before.

At the same time, U.S. trade with Southeast Asia, one of the regions that has benefited from the higher cost of production in the NIEs, continues to grow. U.S. imports are expected to continue to grow at nearly 5 percent per year through 2010, while U.S. exports will increase in the medium term to about 11 percent and in the longer term to about 6.5 percent per year.

We also expect that the United States trade with Latin America, long in the doldrums due to economic difficulties in that continent, will begin to reverse. The recent history suggests that import growth is nearly three times as great as export growth, but by the medium term there is achieved a greater balance with U.S. exports growing faster than U.S. imports. In the long term we expect the needs for food and capital to lead to an even strong growth in U.S. exports to the region than in U.S. imports - 5.9 percent versus 2.8 percent.

Economic performance over this period in the U.S. expected to be weaker in the medium term than in the historical period (2.4 percent versus 4.2 percent). An even slower pace of growth is forecast for U.S. output in the period 1993 through 2000 when a growth of only about 2.2 percent per year. In Europe for the smaller countries, we expect that the longer term will yield a slightly higher growth than the medium term and the historical period. In Japan, real growth in output in the long term is significantly less than in the historical and medium term (2.8 percent versus 4.2 percent and 4.3 percent respectively).

United States Liner

U.S. liner imports are projected to grow at an average rate of 3.6 percent through 1993, slightly higher than the 3.4 percent projected in the WSTS Fall forecast. This means that the import level in 1993 will be over 5.6 million TEUs.

Three factors contributed to this upward revision. First, the "no-recession" control forecast that DRI has maintained in recent Reviews still applies. Accordingly, while 1990 will be one of the slowest years in the economic expansion that began in 1982, U.S. GNP growth will, however, be progressively stronger each quarter. Another factor in the upward revision of the forecast is the continued strength of the U.S. dollar relative to the currencies of most of the United States' trading partners, particularly those in the Far East. (This, despite the downward pressure applied last fall by the G-7 countries.) Finally, the U.S. Census Bureau has revised 1988 trade statistics upward: The growth in U.S. liner imports for the period 1984-88 is now considered to have been 5.3 percent annually, up from the 4.6 percent reported in the Fall 1989 Review.

Liner export growth for the historical period has also been revised, from the 8.9 percent annual growth reported in the Fall of 1989, to 9.9 percent now. Because this provides a higher base for the 1988-93 period, however, and because the dollar maintains its value, the average annual growth in containerized exports for the forecast period is now projected to be 6.8 percent. This is down from the 7.6 percent forecast in the Fall of 1989, but still substantial.

The above revisions do not affect the projection made in the Fall Review, that the net container imbalance experienced by the United States throughout the 1980s will be reversed by 1992. Hereafter, exports should exceed imports for the balance of the century.

Imports

The U.S. Census Bureau's revisions of the 1988 U.S. seaborne-trade statistics set a new baseline from which growth through 1993 is measured, adding 121,000 TEUs to raise the 1988 import level to just over 4.7 million TEUs. Thus, while the average growth through 1993 is higher than previously forecast due largely to the stronger-than-expected dollar, the growth projected for the short term is much less due to the resulting increase in the 1988 level. Liner imports are now expected to have grown 5.1 percent in 1989, and are expected to grow 3.6 percent annually through 1993.

U.S. imports from the NIEs, its largest supplier of liner goods, will actually decline slightly over the forecast period. Imports from Japan and Southeast Asia remain strong, however. On the Atlantic trades, import growth from Northern Europe will remain unchanged from the slow historical rate of 2.1 percent per year, but imports from Southern Europe show a marked improvement.

Imports from the NIEs will decline at an average rate of 0.6 percent, albeit from a revised 1988 base. The factors that contributed to the 15.1 percent decline in 1988 - higher prices for NIE-produced consumer goods, U.S. market saturation for many of these products, the continuing slowdown in U.S. consumer spending, and the lack of brand identification for many NIE products - contributed to a further 7.6 percent decline in 1989.

The decrease in U.S. liner tonnage imported from the NIEs in 1988 was spread across most of the liner commodities exported by the NIEs. Especially hard hit were the two largest commodity groups, electrical equipment (WSTS Commodity 38) and consumer goods (WSTS Commodity 39), which together fell nearly a million metric tons in 1988. In 1989, some of the smaller commodities started to recover, but electrical equipment and consumer goods dropped another 520,000 metric tons.

After 1989, the projections are slightly better, indicating that this trade hit bottom in 1989. Liner TEUs from the NIEs should grow 3.1 percent in 1990, and average 1.2 percent growth annually for the period 1989-93. In terms of metric tons, the growth will be 3.1 percent in 1990 - electrical equipment and consumer goods will be up 4.3 percent and 1.8 percent, respectively - and will average 1.7 percent per year for the period 1989-93. Despite this projected slow growth, the NIEs will still be the largest source of liner goods for the United States.

The 1988 Census Bureau revisions reveal that U.S. liner imports from Japan were stronger than previously reported. This revision was anticipated by WSTS, since export data reported by Japan showed stronger growth than U.S. import data. The new data show that TEUs imported from Japan dropped 12.3 percent in 1988, which is substantial, but less severe than the 15.6 percent decline reported in the Fall 1989 Review. Note that the revised data still show a substantial decline not reported in the Japanese statistics.

The outlook for liner imports from Japan is quite strong. The growth in 1989 is estimated to have been 13.6 percent from the adjusted 1988 base; the growth in 1990 should be another 6.0 percent, with import levels reaching 866,000 TEUs. Much of the growth comes from light industrial machinery (WSTS Commodity 33) and motorcycles/auto parts (WSTS Commodity 36). In particular, WSTS Commodity 33 includes auto-related items - piston engines, electric motors and generators, air conditioners, fuel pumps, etc. - for which there is growing demand from Japanese transplant production facilities and after-sale markets.

Overall, we expect U.S. liner imports from Japan to grow at an average annual rate of 5.2 percent for the forecast period 1988-93. Much of the decline from the Fall 1989 projection of 7.2 percent is attributable to the higher 1988 base. Even so, growth in this sector is greater than the overall U.S. liner import growth rate of 3.6 percent, meaning that Japan will increase its share of U.S. trade.

Southeast Asia will also be increasing its share of U.S. liner imports. Spurred by the expected 19.3 percent increase in TEUs in 1989, this trade will show an average growth of 7.3 percent through 1993, even though growth between 1990 and 1993 will average only 4.5 percent.

As Japanese and South Korean firms shift more of their manufacturing sites to lower-cost Southeast Asia, we expect U.S. imports of consumer goods (WSTS Commodity 39) from this region to increase substantially, with tonnage growing an average of 6.3 percent through 1993. This growth solidifies this commodity group's position as the second-largest U.S. commodity import from Southeast Asia. Growth in the top-ranked commodity, rubber (WSTS Commodity 10), will remain flat through 1993; the third-ranked grouping, fruit and vegetables (WSTS Commodity 3), will grow at an average rate of 2.8 percent per year in the same period.

In the long term (through 2000), we expect consumer goods to overtake rubber as the highest tonnage U.S. import from Southeast Asia, and electrical equipment (WSTS Commodity 38) to overtake fruits and vegetables for third place. The significance of electrical equipment will grow as such items as office machines, telecommunications equipment, and home entertainment electronics are produced in Southeast Asia in increasing quantities for export to the United States.

For consumer products shipped to the United States, the WSTS model includes a price elasticity of U.S. demand of -1.3 percent for the NIEs and +2.4 for Southeast Asia. This means that whenever NIE prices rise 1 percent, other things remaining the same, U.S. imports of those products would drop 1.3 percent. The United States would then purchase similar products from Southeast Asia (to the extent they were available), partly because the difference in price would make the U.S. consumer indifferent to their origin. (The difference in absolute size reflects the smaller Southeast Asian base relative to the NIE base of trade.) Interestingly, the model's price elasticity for Japanese consumer products is less than that for the NIEs. This means that for the same increase in price for similar products made in Japan and the NIEs, the U.S. consumer is more likely to shift away from the NIE products than from the Japanese product.

Now that the political tensions in China appear to be easing, U.S. liner imports from that country are expected to start growing again. While the 1984-88 annual growth rate of 29.1 percent cannot be sustained, the projected 1990 growth of 10.0 percent and the average 1988-93 growth of 11.7 percent are still significant.

U.S. liner imports from Northern Europe, the second-largest source of U.S. liner imports, are expected to show steady, if unspectacular, growth through the forecast period. The projected 2.1 percent average growth in TEUs will result from faster growth after a lackluster year in 1990. The largest commodity group in this trade, food/beverages/tobacco (WSTS Commodity 6), will decline 3.1 percent in 1990, following a 5.6 percent decline in 1989. The second-largest commodity, iron and steel products (WSTS Commodity 30), will decline 1.7 percent in 1990, but this is a full order better than the 17.4 percent drop experienced in 1989. With fourth-place consumer goods (WSTS Commodity 39) also dropping 1.5 percent in 1990, strong increases in import TEUs in the chemical commodities (WSTS Commodities 23, 24, and 26) and in industrial machinery (WSTS Commodities 32 and 33) will be needed to keep the overall trade growing.

The near- and long-term outlooks are brighter for U.S. liner imports from Southern Europe. Import TEUs will grow 7.0 percent in 1990, representing a strong comeback from the 8.1 percent drop in 1988, and even the estimated 3.8 percent increase in 1989. For the forecast period, this trade will grow at an average annual rate of 6.3 percent. The key commodity in this trade is cement, lime, stone, and other crude minerals (WSTS Commodity 14) which is expected to have dropped 12.7 percent in 1989. It should recover most of this loss in 1990, and average 6.7 percent growth through 1993. Similarly, other nonmetallic mineral and metal manufactures (WSTS Commodity 29) will show solid growth (8.4 percent per year on average), whereas food products (WSTS Commodities 3 and 6) will experience positive but weak growth.

Exports

According to WSTS estimates, in 1989 the NIEs will have become the largest market for U.S. liner goods, followed by Japan and Northern Europe. (Together, these three markets absorb more than 60 percent of the TEUs shipped from the United States, a combined share that is projected to grow in the forecast period.) While U.S. exports in TEUs are expected to grow at an average rate of 6.8 percent through 1993, exports to the NIEs should average 11.6 percent annually; this is smaller than the 16.4 percent historical average, but still substantial for such a large trade. The 1984-88 growth averaged just over 98,000 TEUs per year; the projected growth through 1993 will be more than 125,000 TEUs per year, and we do not foresee this pace diminishing through the end of the century.

The growth in this trade is a combined effect of the continued strength of some of the NIE currencies; strong consumer-products sectors, such as those in South Korea, and continued growth in exports of finished NIE products that required imports of parts or partially assembled units from other areas, particularly the United States. We noted earlier that U.S. imports of NIE liner goods will experience slightly negative growth through 1993;

NIE exports to other markets, however, will be strong, because they have not saturated those markets and because the consumer sectors in those markets are stronger than that in the United States. Five intermediate commodities - textiles, lumber and plywood, pulp, ores and scrap, and chemical products (WSTS Commodities 7, 11, 12, 18 and 28) - make up over half of the U.S. liner tonnage to the NIEs; by 1993, the combined share of these commodities will grow to almost 60 percent.

The Japanese market for U.S. liner goods will average 5.5 percent annual growth through 1993, down from the historical average of 17.3 percent, but still substantial. Much of this growth will reflect Japan's shift to a consumer society, with shipments of meat and fish (WSTS Commodity 2) and food/beverages/tobacco (WSTS Commodity 4), we see that one-third of U.S. exports to Japan will be consumer-targeted in 1993.

Part of the growth on this trade results from the increased value of the Japanese yen relative to the U.S. dollar. We expect the dollar to fall against the yen in 1990 as U.S. interest rates decline, U.S. real GNP growth slows down, and especially important, the trade imbalance between the two countries forces a correction in exchange rate.

The forecast for U.S. liner exports to China is little changed from that in the Fall 1989 Review. After a decrease in 1989, we expect an increase in shipments of 11,000 TEUs, or 8.6 percent, in 1990. Thereafter, normalized relations will foster a business-as-usual climate, and average growth from 1990 to 1993 will be 13.4 percent.

The fastest-growing Far East market for U.S. liner exports will be Southeast Asia, which will increase imports from the United States at an average annual rate of 12.1 percent over the forecast period. This is significant not only because it represent fast growth, but also because it exceeds the historical rate for this trade. The growth rates for exports to the NIEs, Japan, and China, on the other hand, are expected to be smaller in 1988-93 than in 1984-88.

Liner exports to Europe are expected to grow at a slower rate than previously forecast, partly because of the revised baseline for 1988 exports. Europe should accept just over 1 million TEUs from the United States in 1990. Based on projected average growth of 3.8 percent for Northern Europe and 3.0 percent for Southern Europe, Europe will fall to third place behind the NIEs and Japan as a U.S. export market sometime in 1992.

Nearly 40 percent of the U.S. liner tonnage destined for Northern Europe in 1990 will consist of lumber and plywood, pulp, chemical products, and paper (WSTS Commodities 11, 12, 26 and 28). These same groups will account for over half of the shipments to Southern Europe. In both markets, the growth in shipments of pulp will be substantial. For Northern Europe, the growth in shipments of chemical products will be the fastest of these commodities, averaging 8.1 percent (in metric tons) through 1993.

Trade In Bulk Products

Coal and Coke Trades

If we define "world trade" as total OECD imports plus exports from OECD countries to non-OECD regions of the world, then world coal and coke trade should exceed 290 million tons in 1990. This quantity does not include flows from one LDC to another, such as from Columbia to the Far East, but it captures the vast majority of the world's tonnage, since the major industrialized nations (all OECD members) are the major consumers of coal and coke.

This year's world trade in coal and coke is 4.8 percent higher than the 1989 level, precisely the expected average rate of growth over the 1988-93 forecast period.

Japan, the world's largest importer of coal and coke, will purchase 119 million tons on the open market this year, and three-quarters of this will come from OECD members. The 3.5 percent growth in this import trade, while not as fast as the last two years of Japanese imports, still represents strong growth, tied to the solid growth in GNP, domestic investment, and population. Australia is the major supplier to this huge market, followed by Canada and the United States.

On the export side, the United States should continue its growth this year, even in the face of the coal workers' strike that plagued the industry for several months at the end of 1989. This year's 90 million tons of coal and coke exports will be targeted at the following markets:

Region	1990 Imports from the United States (millions of metric tons)
Northern Europe	26.7
Southern Europe	15.4
Japan	13.5
Canada	13.4
Far East	8.0
Latin America	7.1
Middle East	4.5
Eastern Europe	1.5

Iron Ore Trades

Over the 1988-93 period, the iron ore trades will grow at an average rate of 2.3 percent per year, the same as the expected growth rate for grain trade.

For the United States, steel production this year is expected to be down from its 1989 level. With 1989 steel production at 97 million tons, this year should see a fall to 87.5 million tons in the face of a much weaker economy marked by an extremely feeble automobile market and lackluster growth in nonresidential fixed investment. On the auto front, all of the U.S. automobile companies are cutting their production this year, and even the Japanese "transplants" are expected to produce the same number of cars and trucks as last year, at best. Mazda, for example, recently announced an actual cutback at its Flat Rock production site.

The Voluntary Restraint Agreements (VRA) that were in effect for a 5-year period ending September 30, 1989, were renewed for another 2 and 1/2 years. These agreements limit to 18.4 percent the U.S. market share that can be captured by foreign suppliers of steel products. For this year, however, with steel production and demand down from last year, most foreign suppliers of steel products will fall easily within the VRA limits. If the market had been forecast to be much stronger, there would have been more haggling over the terms of the VRAs, but last year's final negotiations went smoothly because most forecasters expected that the U.S. market would be weak, at least in 1990.

The drop-off in U.S. steel production will occur mainly in basic oxygen furnaces, which require higher quantities of iron ore than electric furnaces. Therefore, the effect on iron ore demand will be disproportionate to the reduction in steel production.

We expect the U.S. to import only 18.85 million metric tons of iron ore this year. With the rise in high-quality iron ore availability in Brazil, the U.S. has shifted its primary source of iron ore from Canada to South America, so that this year, 54 percent of the U.S. requirements will come from Brazil, and another 33 percent from Canada.

We do not expect U.S. raw steel production to increase much above 91 million tons through 1993. While this is slightly higher than the projection for 1990, it is still far down from the 97 million tons produced in 1989. Therefore, the demand for imported iron ore will not grow much, at 0.2 percent on average, after this year's 11.3 percent decline.

Crude Petroleum Trades

The United States is estimated to have imported almost 14.5 percent more oil in 1989 than in 1988, bringing its total import volumes close to 228 million metric tons. This "bump"

can be traced largely to depletion of U.S. oil reserves following the recent period of low crude prices and the consequent slowdown in domestic drilling. As oil prices continue to rise through the forecast period, demand should level off while supply increases. U.S. imports should then slacken starting in 1990 to average less than 2 percent growth per year for the 1990-93 period. However, the "bump" in imports last year is enough to pull up the average growth rate for the forecast period to just under 4 percent per year - still much lower than the 8 percent annual growth recorded in the historical period.

U.S. imports continue to show a shift toward Arabian Gulf sources. By 1992, the Gulf will surpass Latin American in tons shipped to the United States, a lead that will increase in 1993. In fact, after the peak of 76 million metric tons reached last year, Latin American crude shipments to the United States will sink back to 1988 levels.

It should be noted that the seaborne crude import figures used herein do not include the flows arriving in the U.S. via the Louisiana Off-Short Oil Platform, since those flows are classified as pipeline arrivals rather than seaborne.

Petroleum Product Trades

The United States remains, for the foreseeable future, the dominant importer of petroleum products, taking in just more than twice as much in metric tons as Japan each year. Even so, over 1989 and 1990, the United States is expected to show small declines in import volumes, due in part to equipment replacements and upgrades in U.S. refineries that have forestalled an expected domestic "supply crunch." In 1989, the import declines will be felt across the board by most of the suppliers to the United States; but in 1990, the brunt of the decrease will be felt by Latin America, the largest source of U.S. product imports by far. U.S. imports should start climbing again by 1991, ending with an upswing of nearly 7.5 percent in 1993.

III. Methodology Used In Developing:

- World Sea Trade Forecast**
- World Fleet Forecast**

III. Methodology Used In Developing: World Sea Trade Forecast

by

*Dr. David L. Blond
Director, International Trade Forecasting
Data Resources/McGraw-Hill*

Introduction

The DRI/TBS World Sea Trade Service (WSTS) depends upon a complex set of models. International trade is modelled for individual products over time. Individual models of worldwide trade for more than 40 commodities are included in the general service. Specific forecasts show inbound and outbound trade for 21 individual OECD member countries with 27 district aggregates or countries worldwide.

This trade forecasting methodology utilizes both econometrically derived forecasts (when feasible and when reasonably accurate) and less dynamic, propensity-based models. The result are models of commodity trade that are both robust, yet relatively stable over time.

Unlike many other attempts at modelling international trade flows, DRI's forecasts are developed using commodity specific models rather than sharing total trade down to the individual product categories. Thus commodity specific factors can be introduced both into the models and into the final results.

Imports and exports among the major developed market economy countries (21 OECD reporters for which primary trade data is available) are balanced with exports dependent, in the case of intra-OECD trade flows, on import demand patterns.

Forecasts are based on estimates of macroeconomic variables drawn from DRI's extensive set of macroeconomic models (45 countries are modeled regularly as part of the DRI International Service). Trade models, while depending upon macroeconomic factors, are not necessarily constrained by country specific trade forecasts drawn from other DRI macroeconomic services. The overall forecast, however, is checked against these other projections of trade volumes to insure that it is reasonably close to those forecasts.

Econometric Modelling Techniques

International trade is modeled both econometrically and also using general propensity models driven by total trade estimates. Commodity trade balances are maintained, and the final forecasts integrate supply and demand in a way that uniquely considers changes in market share as well as market demand. While solutions are not simultaneous, they do yield consistent OECD-wide forecasts of trade so that estimates of United States exports depend upon European import demand as well as United States export competitiveness in European markets.

Each commodity model represents a mix of more than 500 structural equations, combined with an equal number of identities and average relationships. By combining past patterns with macroeconomic variables derived from DRI macroeconomic forecasts, robust estimates of world trade trends for specific commodities are generated. Forecasts, while often aggregated into larger regions are developed individually for each of the 21 OECD countries whose import and export data is used in the system. For example, the forecast for Northern Europe is comprised of the individual forecasts of 9 OECD countries. We also have reporter country data for the three NIEs – Hong Hong, Korea, and Taiwan – so that the entire system reflects the global trade of 24 key trading countries.

The integration of the less detailed macroeconomic information with commodity specific and region specific trade data results in a single forecast covering more than 40 commodities and 24 countries trade to and from 36 regions. Our forecasts thus represent an overall picture for international trade characterizing direction of trade as well as total demand or supply.

Measuring Real Volume For Internationally Traded Products

Before discussing the structure of the world trade models in more detail, it is important to address first the units of measurement that are being ultimately forecast. While for theoretical reasons it is important to forecast value of trade rather than some quantity based measure, developing internationally consistent measures of real volume of trade when prices and exchange rates are constantly changing, is not easy.

There is no simple method for deflating current dollar trade values into a measure of constant volume of trade. However, we have attempted to develop a standardized methodology for deflating nominal trade values in order to allow cross country comparisons. Two principals have guided our approach:

1. Real changes in commodity prices should be captured; and
2. Exchange rate changes should not be introduced mechanically, in order to avoid the implicit assumption that the full effect of changes in international prices are passed onto buyers by sellers.

The lack of fully consistent, trade specific prices for commodities included in our system has led us to develop a hybrid methodology using import, export and domestic price statistics for the United States and exchange rates. These synthetic measures are specific to OECD countries, specific to the commodities analyzed, and also specific to the direction of the trade.

We depend upon United States Department of Labor price indices for U.S. import and export price changes. These indices are developed using survey data from U.S. importers and exporters, are commodity specific, and are available quarterly. They are not, however, specific to the direction of trade. Thus to understand the effect of U.S. dollar changes on Japanese export volumes we need to abstract from these commodity-specific U.S. dollar price indices by including the impact of changes in exchange rates and general export price trends in Japan.

In general for OECD country exporters we use U.S. export commodity price indices for historical data and DRI developed price forecasts for forecast periods. For exports of LDC regions we use U.S. import commodity price indices. For imports from OECD regions we develop synthetic import price indices, specific to commodities, importing countries, and exporters – i.e., for the French imports of product k from Japan we use Japanese export prices to the world of product k. When used in conjunction with the dollar denominated (at current dollar/franc exchange rates) French imports, the result is a volume measure of French imports from Japan.

These synthetic measures thus capture some of the dynamic movement in prices paid by importers. They are reasonable measures of price changes associated with commodity price trends and exchange rate adjustments. Moreover, there exists no other set of country/commodity/trade direction specific price indices for deflating nominal U.S. dollar trade values.

Export prices for LDCs are the same as U.S. import price deflators for similar commodities based on the assumption that LDCs have kept their currency values consistent with U.S. prices and that they have an ability to price exports consistent with prices in developed country markets. The only exceptions, among the LDC regions, are the three emerging Asian powerhouses – Korea, Taiwan and Hong Kong. Small adjustments in import prices for changes in these country's exchange rates have been introduced into the model's structure.

The import price trends are regional and are based on export price trends of exporters. The aggregate price, i.e., for OECD-wide trade, is the combination of export price trends weighted by actual levels of trade.

While there are problems associated with any quasi-mechanical approach, the advantages to the model of having such a systematic method of measuring the real volume of trade across so many countries which use so many different definitions and statistical collection methods, outweigh the deficiencies and inaccuracies of the system. The result is that

estimates of volume of trade are fully consistent with general price trends in the commodities represented and with changes in exchange rates among the 21 OECD member countries for which detailed reporter trade information is available.

The Structure of the Model

Each commodity specific trade model is constructed as a unique whole representing the exchange of products for that commodity between the major industrialized countries and the world community. There are more than 200 countries trading in the world today. To make the world trade model manageable, this number of countries has been subdivided into 28 distinct partner regions. An additional 9 partner regions are available which are useful aggregates of the 27 distinct partners.

The detail provided, however, is reasonable given the fact that a complete, worldwide, forecast is available for each of the 21 major OECD markets and the three Newly Industrialized Economies of Asia that account for more than 80 percent of world trade. Intra-developing country trade is not represented in the models structure due to the lack of reliable and timely reporter-partner country data on trade among the developing countries.

Reporter countries are those for which reliable detailed trade data and DRI macroeconomic forecasts are available regularly (see List A). These included industrialized countries account for roughly 95 percent or more of the trade of the OECD group (only Iceland is excluded) and three newly industrialized economies of Asia.

List A Reporter Countries

Major Industrialized Countries

Australia	Austria
Belgium	Canada
Denmark	Finland
France	Germany
Greece	Ireland
New Zealand	Italy
Japan	Netherlands
Norway	Portugal
Spain	Sweden
Switzerland	United Kingdom
United States	

Newly Industrializing Economies of Asia (NIEs)

Hong Kong	Taiwan
South Korea	

**List B
Partner Regions**

WORLD	All countries including Socialists
OECD	All 24 members of the OECD
NE	Northern European Countries
SEU	Southern European Countries
JAPAN	Japan
CANADA	Canada
US	United States
AZ	Australia/New Zealand
LDC	Less Development Countries
LATIN AMERICA	
WLA	Western Latin America
ELA	Eastern Latin America
AR	Argentina
BR	Brazil
CLA	Caribbean Basin (Central America, Mexico, Caribbean Islands)
MEDITERRANEAN/PERSIAN GULF	
MED	All countries bordering on the Mediterranean Sea including North Africa, Egypt, and portions of the Middle East
PG	All countries bordering on the Persian Gulf
INDIAN SUBCONTINENT	India, Pakistan, Bangladesh, Afghanistan, Sri Lanka
FAR EAST	
NIEs	Newly Industrializing Economies of Asia
KO	Korea
TA	Taiwan
HK	Hong Kong

SEA	Southeast Asia
SI	Singapore
MA	Malaysia
ID	Indonesia
PH	Philippines
TH	Thailand
CH	China (including Norther Korea and Mongolia)
AFRICA	
SAF	Southern Africa including Angola, Zambia, Zimbabwe, Malawi, South Africa
EAF	East Africa including Kenya, Ethiopia, Uganda
WAF	West Africa including Ghana, Togo, Nigeria
EASTERN EUROPE	All countries in Eastern Europe including the Soviet Union and Yugoslavia

The Process

The Multistage Approach to Global Trade Forecasting

Trade for each commodity is first arranged in arrays representing the imports or exports for the 21 OECD reporters with each of the partner regions separately indicated. In the case of intra-LDC trade all models are developed for 24 reporters – the 21 OECD reporters and Hong Kong, Korea and Taiwan. Thus for each partner region the export and import flows of the 21 or 24 individual reporters (see List A) for 10 years of history are arrayed in a single block of data. For example, within the same block the data for the United States trade with the Northern European partners (summed together), and the French trade with its Northern European partners is included in the partner region sum.

All models are estimated using a pooled cross-sectional modelling technique. Pooled cross-sectional models combine information on many countries over a shorter time interval rather than relying upon country specific time series models over longer time periods. Because international trade data is consistently available only from 1978 (Revision 2 of the United Nation's Standard International Trade Classification) and because pooled cross-sectional models of trade are capable, in theoretic literature, of identifying changing patterns of trade, this approach is both practical and justified. Thus the econometric models are jointly developed for 21 independent countries at the same time.

Cross country models are based on a theory that suggests patterns of future trade can be determined by observing the relationship between market size and economic wealth for more than a single country. Thus the pattern of trade of an advanced, service dominated economy like the United States may serve as a template for future patterns of trade for other countries not yet as large or as wealthy.

The econometric relationships vary depending upon whether import or export data are used. Most of the "variance" explained, however, is explained by the more general economic variables for which the calculated coefficients are general to the entire set of 21 OECD countries included in the estimating equation. Individual country intercepts are also calculated to ensure that non-economic factors that affect the "propensity" of a country to import or its ability to export a specific product are captured. The form that these intercept terms take – i.e., the independent variable that they "modify" – differs depending on whether an export or an import model is used. Thus for each country the econometric equation is made up of two parts:

1. Coefficients specific to that country; and
2. Coefficients common to the set of countries.

$M_{ikt} = f(\text{General Parameters}) + b_{ikt} * K_i$, where i is the report country, k is the product type, and t is the trade direction; and where D_i is the dummy variable (either 0 or 1) for each report country (this dummy array has the same dimension as the trade data or the exogenous assumption data and there is a 1 present if the country's own data is in the array and a zero if the other country's data is sequenced).

Econometric Variables

Import equations may depend upon:

- Traded goods consumption as a share of Gross National Product
- Import share of traded goods consumption
- Population size (market potential)
- Investment share of Gross Domestic Products
- Import prices (the adjusted local currency price after taking into account changes fixed in local/\$ rates, cross rates of exchange, and U.S. commodity price trends)
- Import prices for specific importing regions (U.S., Japan, Canada, Northern Europe and Southern Europe)

- Consumption of commodity (specific coefficients for U.S., Japan, Canada, Northern Europe and Southern Europe)
- Ratio of production of commodity to consumption (specific coefficients for U.S., Japan, Canada, Northern Europe and Southern Europe)
- Country specific intercepts
- Country specific adjustment variables (for refining estimates using a two-stage estimation procedure).

Export forecasting models are dependent upon many of the same variables. However, there are a few variables unique to exporting models since they relate relative positions among exporters based on changes in dollar wages, productivity growth rates, and other exchange rate related pricing factors. Exports are a function of the following variables:

- Goods production share of Gross Domestic Product
- Exports of merchandise, adjusted for service component, as a share of production of goods
- Per capita Gross Domestic Product
- Population size (market potential)
- Exchange rate adjusted wage rates
- Real growth in output relative to real growth in OECD output
- Relative wage rates (in U.S. dollars)
- Per capital Gross Domestic Product of exporter to importing region
- Exporter's price index in importer's currency (includes adjustments for commodity prices, general export price trends relative to U.S. price trends, and exchange rates)
- Investment share of Gross Domestic Products
- Production of commodity (regional specific coefficients for U.S., Canada, Japan, Northern Europe and Southern Europe)
- Country specific variables measuring demand growth and relative prices in importing regions
- Country specific adjustment variables (developed using the iterative method of model adjustment)

Total imports of LDC regions from the OECD reporters are defined by the exports to the regions and also by a separate equation calculated by comparing intra-LDC regional demand for product k from all OECD reporters combined (sum of all reporters to a specific region d).

This model captures the dynamic nature of trade within the Less Developed Countries. As countries develop, their pattern of imports will necessarily shift. By developing a cross-regional sub-model, based on the level of trade of each region against some general economic variables ((as defined below), we capture some of this shifting pattern of demand. The following regional variables are used in this sub-model:

- Population size (market potential)
- Per capital Gross Domestic Product (the region's wealth)
- Relative prices – a combination term combining export prices and exchange rate movements
- Export share (a measure of regional success or trade intensity)
- Region specific coefficients for total imports
- Region specific consumption estimates for commodity
- Region specific production to consumption ratios for commodity
- Region specific intercepts (non-economic factors affecting imports from OECD).

To insure that the best estimation and forecasting approach is used for the forecast whenever feasible, the model uses built-in software that measures the accuracy of any technique over the historical data period. When there are doubts about the accuracy of the estimate of trade over the historical period an alternative approach is automatically applied. This software acts as an "expert" system, supervising the development of the forecast from the start to finish. Like an economist, it develops alternative methods to compare results when errors associated with the econometric approach are large.

Non-Econometric Approaches to Forecasting International Trade

In cases where the econometric approaches may not be sufficiently accurate, generally occurring when there is an insufficient number of observations, stable non-econometric estimates of trade flows are developed using average patterns associated with historical periods. Such methods must, necessarily, choose criteria on which to base estimates and these estimates are typically less volatile than the actual data they represent.

Our non-econometric estimates are based on propensity models that use data from two macroeconomic variables rather than a single variable. The resulting forecast is not simply the proportional growth to total trade that would result from a single variable model, rather it is more complex and, we believe, more accurate.

For these non-econometric propensity models, parameters are developed. Each parameter relates, for either imports or exports of a reporter (i), its trade with a regional group (d) of a single commodity (k). Each parameter is a function of the total demand for the commodity from the world (for which we usually are able to develop a reasonable model or lacking that a good proxy based on our estimate of trade relative to total consumption in the end market for the product). An example of this technique follows.

The average import propensity (APM) against total imports (M) of the product k from region d by country i would be calculated as:

$$APM(ikd) = M(ikd, 1985 \text{ to } 1988) / M(ik, \text{World}, 1985 \text{ to } 1988)$$

If the simple average technique were used exclusively the resulting forecast would have only some of the variation inherent in the actual trade itself. A proportional model must, necessarily, yield an estimate of growth consistent with the pattern of trade of the independent variable used to forecast it. Thus if we are to utilize any of the information on the variation in trade period to period in the non-econometric approach, we need to introduce a more sophisticated structure to the simple proportional model described above.

To capture this historical variation we have developed an approach that mimics the change in the ratio over time and forecasts this change subject to certain limits on its growth rate. Thus imports, if forecast using a propensity model, reflect the changing share of the source market in total imports from the world of the commodity and the imports from the world reflect economic factors affecting a demand. This combination yields a unique forecast for each flow that will be different from the base forecast for total trade with the world.

$$GRAPM(ikd) = \%Growth(APM(ikd, 1985-1988))$$

Where %Growth is the compound annual rate of growth for the period 1985-88, so that

$$M(ikd, t+1) = (APM(ikd, t) * (1 + GRAPM(ikd)) / 100) * M(ik, \text{World}, t+1)$$

Where M is imports of country i of product k from region d for time t; APM is the mean average propensity of country i to import k from d over the period 1985-88 relative to country i's imports from the world of commodity k for the same time period or simply region d's market share of country i's total imports of product k; GRAPM is the growth rate of APM; and M(ik, World) is country i's imports of product k from the world.

Integration of Econometric Forecasts with Non-Econometric Model Results

As discussed above, the World Trade Model combines elements of both methods to insure that results are reasonable estimates of future patterns of growth. To do this the system uses a weighted distribution of estimates of trade from both the propensity and the econometric models.

Because of the great number of trade flows forecasted and their interdependence, it is critical that the world trade models incorporate internal tests and limits to insure that valid, reasonable forecasts are developed. Since logarithmic forms used in the econometric models are sometimes explosive, limits are imposed in the models assuring the quality of forecasts for all countries and regions included in the modelling system. The testing is done through an expert system. The expert system works with a number of simple rules that continuously check results against past trends in trade. Whenever a preliminary flow is assumed to be moving erratically, an alternate, more stable method is substituted.

Generally we have developed a hierarchy of choice. If there are sufficient observations, then econometric models are developed. If, however, there are insufficient degrees of freedom for accurate statistical models to be developed or if the volume of trade is particularly small or erratic, then alternative, non-econometric approaches are favored.

If an econometric model is sufficiently accurate, as judged by the Standard Error, then its forecasting accuracy is tested over the historical period (generally 1982 through 1988). The purpose of this "retrofitting" is to determine if individual country forecasts should depend upon the cross-country model results or whether they should depend, instead, upon forecasts derived from the propensity model approach which itself is typically based on the econometric model solution for imports from the world, or whether individual country forecasts should depend on a combination of methods.

To do this an average error over the period, i.e., the cumulative average percentage deviation of the forecast from the actual, for each reporter is estimated. The pooled cross-sectional model technique allows for the easy separation of each of the 21 OECD non-Asian reporters once the multi-country model is estimated. If the standard error for country *i* from region *d* for product *k* is over a maximum limit, MaxError, then the stochastic propensity method is used instead of the econometric method. When the standard error for the country is less than MaxError, but greater than MinError, a weighted combination of the non-econometrically determined estimate of trade and the econometrically determined estimate of trade is used. The formula used to fix the weight is:

$$\text{ADJUST} = (\text{Standard Error} - \text{MinError}) / (\text{MaxError} - \text{MinError})$$

From this formula we can see that if the Standard Error for the equation is close to low error, then the majority of the influence will be derived from the econometric specification. If, on the other hand, the Standard Error is closer to the MaxError then the opposite is the case.

If the standard error of the equation is less than the MinError, then only the forecast from the econometric model, adjusted by the estimated standard error for the flow is utilized. In this case the forecast then depends solely on the econometric results.

Integration of Import and Export Estimates

This marks the end of the first stage of forecast development where preliminary forecasts of exports and imports are developed. In the second stage these preliminary, independent estimates are merged to yield a jointly consistent forecast. The sum of the parts in the model – i.e., the demand by regions – is compared to the demand estimated by the model's equations from the OECD, the LDC's and the world. For each commodity these other estimates serve as additional information and are averaged with the forecasts developed by summing the regional values. Moreover, the model methodology calls for the merging of information on demand and supply from the export and the import models. For intra-OECD trade, the import demand forecast serves as the template and the export supply models are used to measure market share among the export sources. Through a series of steps the export and import estimates for countries and regions are merged together.

The DRI World Trade Modelling System fits together structurally, not through a set of interlocking bilateral relationships, but through a set of interrelated regional/country relationships. Thus the sum of the imports of 21 OECD reporters from the U.S. are one element in the model, as is the sum of the imports of the 21 OECD reporters from Northern Europe. The sum of imports of the 21 OECD reporters from the entire set of OECD countries is a third element. Total exports of the United States to OECD nations, for example, measured through reporter imports alone then is the sum of elements of each country from the United States.

Consistency is gained through the integration of export and import data. American imports, from members of the European Community, are the exports of the individual countries in the EC to the United States. Of course finding a consistent joint solution requires the model to make some assumptions about precedence. In general the model structure gives greater credence to forecasts of imports than it does to forecasts of exports. Moreover, exports are generally measured initially as export shares which are then linked to estimates for total imports.

At an intermediate stage in this process we may have an estimate of U.S. imports from Northern Europe based on the import demand equation; and also an estimate based on the Northern European share of total U.S. imports from the 21 OECD reporters. The latter is based on the export model. During the integration phase differences are resolved. In general, a 75 percent weight is given to the import; model outcome and a 25 percent weight to the outcome developed using the export market share approach.

Summary

World Trade Models thus are based on an integrated framework that analyzes trade flows for 24 countries with more than 27 distinct regions/countries. This information is derived from a total data sample of 24 reporters with more than 200 individual partners.

Commodity specific forecasts are developed based on a combined econometric and average propensity framework where exports and import flows are fully integrated to insure global consistency. All forecasts incorporate the latest forecasts of macroeconomic variables related to patterns of trade appropriate to the commodity being traded.

Where later trade data is available, it is folded into the forecasts to insure that estimates for the current year reflect the latest trends in trade. In general, however, the models are designed to pick up long term trends in trade both for exports and imports.

While DRI analysts strive to develop the most appropriate forecasts for foreign trade, and while model developed forecasts are sometimes adjusted to reflect analysts' opinions and other information not easily integrated into quantitative models, forecasts are based mainly on statistical models of trade and are thus subject to some error. Where other information is available, baseline forecasts are adjusted to reflect the latest trends in trade and other factors that are not able to be properly modelled, such as imports of automobiles from South Korea or auto parts from Japan, using generalized econometric techniques.

III. Methodology Used In Developing: World Fleet Forecast

Introduction:

The demand side used for forecasting ships in the World Fleet Forecast Service (WFFS) is supplied by the World Sea Trade Service (WSTS). The WSTS methodology is described earlier in this chapter. WSTS produces trade forecasts by commodity and by trade route and these forecasts are then combined with ship characteristics and ship movement data to produce a fleet forecast by vessel type and by route. To produce the fleet forecast, the model goes through the following steps:

1. The WSTS forecast is allocated to the 34 vessel types and sizes in the WFFS system by trade route. (See Appendix A3 for a list of these vessel types and sizes.)
2. For each trade route, the model sums the trade moving for each vessel type to produce the total amount of trade moving on each trade route by vessel type.
3. The capacity (in DWT) needed to carry the cargo by trade route and by vessel type is then computed.
4. The number of voyages needed to carry the computed capacity is then calculated.
5. The number of voyages is converted to shipyears to give an approximation of the number of ships needed to carry the cargo per year.
6. Finally, the shipyears are adjusted to account for ballast voyages or voyages needed to reposition ships.

Each one of these steps, as well as the inputs to the model, is discussed in more detail below.

Model Inputs

The two areas of model inputs are the WSTS cargo forecasts and the ship characteristics and movements files. WSTS forecasts trade by 40 commodity categories for approximately 700 trade routes. A list of the commodity categories and trade routes can be found in the Appendix. For the purposes of this project, only the U.S. routes were used; however, it must be noted that to forecast U.S. trade, one must look at world trade to see how the U.S. competes with other countries. WSTS embodies this global approach.

The ship characteristics data are based on 1987 observed characteristics. They are collected by trade route and cover the following concepts:

Ship Capacity:

Total observed DWT capacity by shiptype traveling on each trade route for the year 1987.

Maximum Load Factors:

The percent of the DWT capacity which can be used for allocation of cargo.

Number of Voyages:

The observed voyages by shiptype on a particular route in 1987. In the case where a ship travels to more than one region on a trip (i.e., leaves Rotterdam and travels to Halifax and Boston before returning to Europe), the number of voyages depends on the number of regions in which the ship stops. In the Rotterdam to Halifax and Boston case, one voyage would be recorded for North Europe to East Canada and one voyage would be recorded for North Europe to North Atlantic U.S. So as not to forecast a surplus of ships in such cases of multiple voyages being recorded on one trip, a reallocation factor is calculated as described below.

Time Spent in Port:

Average number of days spent in port in each region.

Average Design Speed:

Design speed based on Lloyd's Registry data.

Average Actual Speed:

Average speed observed by vessels traveling on the route.

Distance:

Number of miles from coast A to coast B for the route. This number may differ by vessel type for a route depending on the routing of the particular vessel type (i.e., some of the large vessels may not be able to go through a canal and must take a longer routing).

Canal Days:

Number of days waiting to pass through a canal.

Off-Hire Days:

Average days per year which a ship is off-hire. WFFS assumes 15 days per year.

Reallocation Factor:

This is a factor which compensates for a ship which may unload and load cargo at more than one WFFS region on a trip. For example, the around-the-world container ships load and unload cargo at a number of different regions on their trips around the world. If a ship moves from the Arabian Gulf to the U.S. Gulf coast and unloads all its cargo on the U.S. Gulf coast, the reallocation factor is 1.0. If it unloads 50 percent of the cargo on the Gulf coast and 50 percent of the cargo on the South Atlantic coast, the reallocation figure would be .5 on the Arabian Gulf to U.S. Gulf route, as well as the Arabian Gulf to South Atlantic Coast.

The above factors constitute the inputs to the WFFS model.

Model Structure*Step 1*

The first step in producing the fleet forecast is to allocate the 40 WSTS commodities across the 34 WFFS shiptypes. This is done for each route in the WFFS system and for each year being forecast. The shiptype allocation is based on historical data when available and industry knowledge of particular routes if shiptype data is not available. Lloyd's Maritime Information Services provides the expertise on the shiptype allocations. A matrix is produced for each route for each year which looks similar to the example below:

Commodity	Ship Type/Size									
	AA	AB	AC	AD	AE	AF	BA	DA	DB	....
WSTS 1	300	0	20	0	500	0	0	0	0	....
WSTS 2	20	0	500	0	0	0	2000	0	0	....
WSTS 3	5	6	0	0	0	0	50	0	0	....

The letters in the example above represent the different shiptypes and the commodities are the 40 WSTS commodity categories. The full list of ship codes is in the Appendix, A3.

Step 2

Each of the allocation matrices is summed to produce a total amount of cargo being carried by shiptype. The total cargo by shiptype in 1987 (the base year for the ship characteristics data) is compared with the shiptype capacity on each route to be sure that more cargo has not been allocated than capacity is available. If there is not enough capacity on a shiptype to carry the allocated cargo, the cargo allocation in Step 1 is reviewed for that route and adjusted accordingly.

At this step, certain productivity changes can be introduced in the forecast years. In this study it was assumed that 15 percent of the cargo on general cargo ships would move to containerized ships in the forecast period. It was also assumed that cargo would tend to move from smaller ships to larger ships in the forecast years. Adjustments can be made for an individual route based on knowledge of port channels being deepened or better container handling facilities being added to a port in a specific year. The change can be made by re-adjusting the cargo in the forecast years. For example, if it is known that a port is deepening its channel in 1998 to allow larger bulk ships to service the port, the adjustment can be made as follows:

$$\begin{aligned} \text{Route X [DF,2000]} &= \text{Route X [DF, 2000]} + (\text{Route X [DE, 2000]} \div .15) \\ \text{Route X [DE,2000]} &= \text{Route X [DE, 2000]} * .85 \end{aligned}$$

In the above example, 15 percent of the cargo which had historically been carried on shiptype DE (Bulk Carriers of 100,000-175,000 DWT) is moved to shiptype DF (Bulk Carriers over 175,000 DWT) for the year 2000 which is the year when the channel on Route X can handle the ships with the deeper draft.

Step 3

Once the cargo has been allocated by shiptype by trade route by year, the total capacity needed to carry that cargo can be calculated. The capacity required depends on a key assumption – capacity utilization. Different scenarios can be run using different capacity utilization assumptions. In this study a 90 percent capacity utilization assumption was used. Therefore, for each shiptype on each route for each year:

$$\text{Required Capacity} = (\text{Cargo} / .90) / \text{Maximum Load Factor}$$

The maximum load factor is the percent of DWT capacity (by shiptype) which can be used for cargo. The required capacity computed above is the true DWT capacity needed to carry the allocated cargo at a 90 percent capacity utilization rate.

Step 4

The next step is to calculate the number of voyages needed to carry the allocated cargo. The assumption is made that the ratio of observed voyages by shiptype by route in 1987 to the observed capacity will hold throughout the forecast period. This assumes, therefore, that the size of the ships within a shiptype do not change throughout the forecast period, since capacity per voyage is actually the capacity or size of an average ship. This assumption can be varied to accommodate larger ships being built in the future. Therefore, for a single route, single year, and single shiptype:

$$\text{Forecasted Voyages} = \text{Forecasted Capacity} * (\text{1987 Voyages}/\text{1987 Capacity})$$

Step 5

Once the voyages are forecasted, the number of shipyears required to make those voyages can be calculated. A shipyear can be defined in terms of the distance a ship can travel in one year. This distance will vary as a function of:

- speed
- time in port
- off-hire days
- days spent waiting to go through a canal

Conversely, one can look at the number of shipyears required to travel a specific distance. Since the WFFS system is a route based model, it looks at the number of shipyears by shiptype on each route as follows:

1. Calculate the number of days or one voyage for each route

$$\begin{aligned} \# \text{ days per voyage} = & .5 * \text{Time on Coast A} + \\ & .5 * \text{Time on Coast B} + \\ & \text{Canal Days (if applicable)} + \\ & (\text{Distance in Miles}/\text{Avg Actual Speed in Miles per Day}) \end{aligned}$$

2. Calculate number of shipyears per voyage

$$\# \text{ shipyears per voyage} = \# \text{ days per voyage} / (365 \text{ days per year} - \text{Off-Hire Days})$$

3. Calculate the number of shipyears on each route

$$\text{shipyears} = \text{shipyears per voyage} * \# \text{ of voyages}$$

Thus, the total shipyears on each route for each shiptype is calculated, which is to say the total number of active ships needed to carry the cargo during the specific year on each route.

At this point, the shipyears and forecasted capacity are adjusted by multiplying by the reallocation factor to compensate for ships loading and unloading in more than one WFFS region on a trip. An example of this is a ship traveling from the Arabian Gulf and unloading half its cargo in the U.S. Gulf Coast region and half its cargo in the U.S. South Atlantic region. Both the shipyears and capacity for the Arabian Gulf to U.S. Gulf and Arabian Gulf to South Atlantic would be multiplied by .5.

Step 6

When looking at ship movements, it is apparent that not all ships are fully loaded. A ship carrying oil from the Arabian Gulf to the U.S. may return to the Arabian Gulf without any cargo or in ballast to reposition itself for the next load of oil. Similarly, some ships sail on triangular routes or use random tramping patterns. WFFS does a final "ballast adjustment" to address the different shipping patterns.

It is assumed that the patterns observed in 1987 are representative of what will occur in the future. Since 1987, shipyears are calculated from observed voyages, WFFS compares 1987 shipyears with forecasted shipyears by route pairs. Each route pair consists of the inbound and outbound voyage from a specific WFFS region to a specific WFFS region. Therefore, Northeast Coast of the U.S. outbound to Northern Europe is paired with Northeast Coast of the U.S. inbound from Northern Europe. This pair match is made for all the routes in the WFFS system. The 1987 ratio of shiptypes on each route pair is maintained by adding shipyears to the forecast years to maintain that ratio. For example, if for large tankers the model showed:

1987	Arabian Gulf to U.S. Gulf Coast as 10 Shipyears U.S. Gulf to Arabian Gulf as 8 Shipyears
1995	Arabian Gulf to U.S. Gulf Coast was forecasted as 20 Shipyears U.S. Gulf Coast to Arabian Gulf was forecasted as 0 Shipyears

The 1995 U.S. Gulf Coast to Arabian Gulf large tankers would be adjusted to 16 to maintain the 1987 ratio. The number of voyages and capacity would be adjusted as well to reflect the added ships.

Output

The tables in this report are organized to provide for the user an easy to use reference document. The sections are:

Total U. S. Tables:	A summary for the entire U.S.
Northeast Coast:	Northeast ports including the Great Lakes and ports through Norfolk

Southeast Coast:	Ports south of Norfolk thru Miami but not including Puerto Rico or U.S. Virgin Islands
Gulf Coast:	Ports west of Miami on the Gulf thru Texas
Northwest Coast:	Ports in Alaska, Washington, and Oregon
Southwest Coast:	Ports in California and Hawaii

Draft Tables

Only international trade and ship movements are included; therefore, oil movements from Alaska to the U.S. Gulf Coast are not be included in this study.

In the Total U.S. Tables section, the data are presented in three types of formats:

1. Comparison of Ship Years, Cargo and Capacity On All U.S. Routes
2. Comparison of Ship Years, Cargo and Capacity For All Shiptypes
3. Comparison of Vessel Capacity Required and Vessel Capacity Available For All Shipyears

Format 1: Comparison of Ship Years, Cargo and Capacity On All U.S. Routes

Format 1 displays the data on all the U.S. Routes by the 34 shiptypes. The 34 shiptypes appear in the first left hand column with a total for all the shiptypes on the bottom. The total represents all the ships on all the U.S. routes (both inbound and outbound). The columns to the right of the first column represent the Shipyears, Cargo, and Capacity for 1987, which is the base year, and then for the years 1995, 2000, 2010, 2020.

Shipyears are the total number of shipyears for each shiptype on all U.S. routes or fore the purpose of this study, the total number of ships needed to transport the cargo on the U.S. routes. This excludes idle ships and ships not involved in international trading.

Cargo is the total amount of cargo in thousands of metric tons moved by each shiptype on U.S. routes. This cargo has been allocated to the 34 shiptypes as discussed in the methodology section.

Capacity is the total DWT capacity by shiptype found on all the U.S. routes. If a ship travels to more than one coastal region on a trip, the Capacity is adjusted using the reallocation factor discussed in the methodology section.

Format 2: Comparison of Vessel Capacity Required and Vessel Capacity Available For All Shiptypes

Format 2 shows individual routes for all the shiptypes. The columns in this report are the same as in Format 1 except for the first column which includes the individual routes. The number in parenthesis beside each route is the route code used in the WFFS system. These tables are organized by U.S. Coast with the total for the coast and the total for the U.S. at the bottom of each table.

The sections of the report for the individual coasts use Format 2 by each of the 34 shiptypes. Thus, one can look at General Cargo Ships Greater than 10,000 DWT for each of the routes on the U. S. Northeast Coast in the U.S. Northeast Coast Section.

Format 3: Comparison of Vessel Capacity Required and Vessel Capacity Available For All Shiptypes

There is a table for each year for Format 3 (1987, 1995, 2000, 2010, 2020). This format displays vessel requirements and availability by route for all of the shiptypes. The first column contains all the U.S. routes with a total at the bottom. The second column reports the cargo carried in metric tons and should reflect the same numbers found in Format 2.

The voyages in the third column are the observed voyages for all shiptypes on the particular route in 1987 and in the tables showing the forecasted years, this column represents the forecasted voyages. A voyage is considered to be the movement of a ship from one WFFS region to another WFFS region. In the east of the U.S., a ship may stop at the ports of New York, Baltimore, and Charlestown, S.C., before traveling to Northern Europe. If this occurs, WFFS counts one voyage from the U.S. Northeast Coast to Northern Europe and one voyage from the U.S. Southeast Coast to Northern Europe.

The column for shipyears is the total number of shipyears by route as defined in Format 1 and Format 2 tables.

Capacity Utilization is simply Cargo (column 2) divided by Capacity as defined in Format 1 and Format 2. This gives an indication of how full the ships are loaded and if the particular route is primarily a ballast leg for the ship.

The Vessel Capacity Available from the 1987 Fleet column refer to the total shipyears available by shiptype by route for all the ships servicing that particular route in 1987. The ages of the ships from the 1987 fleet are contained in columns seven through eleven in

intervals of five years. The assumption is made that in the forecasted years, the age profile of ships on a route will remain the same as 1987 profile. The required constructions column refers to the number of ships that must be constructed to fill the gap between the 1987 fleet and new ships being needed in the forecasted years. Ships are deleted from the fleet after reaching 25 years of age at the rate of 20 percent per year with no ship remaining after the age of 30 years. Obviously, in the year 2010 and 2020 there are no ships left from the 1987 fleet if this assumption is used.

IV. Fleet Forecast Tables

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For All Shipyards
On U.S. Northeast Coast Routes
1975

ROUTE	1987			2000			2010			2020		
	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	67	17,338	30,918	86	59,334	36,684	105	69,244	44,369	127	85,240	51,652
Northern Europe to U.S. Northeast Coast (0801)	80	35,120	39,752	108	86,574	44,044	137	100,282	54,789	172	128,861	70,454
U.S. Northeast Coast to Southern Europe (0109)	39	14,730	22,422	49	34,115	24,208	59	38,110	25,250	68	42,474	25,250
Southern Europe to U.S. Northeast Coast (0901)	36	6,738	14,021	51	28,672	16,594	65	30,445	20,538	81	36,648	24,882
U.S. Northeast Coast to Japan (0110)	46	6,563	8,194	44	16,317	8,011	34	15,895	5,057	28	11,306	3,751
Japan to U.S. Northeast Coast (1001)	50	3,234	3,095	47	15,972	3,309	40	15,754	3,230	36	13,041	3,568
U.S. Northeast Coast to Australia/New Zealand (0111)	11	187	2,291	8	3,454	3,367	14	3,716	5,333	20	5,316	7,429
Australia/New Zealand to U.S. Northeast Coast (1101)	8	1,429	3,233	8	4,067	3,424	10	4,309	4,922	14	6,222	9,018
U.S. Northeast Coast to Far East NIC's (0112)	25	4,582	10,586	53	19,653	13,472	84	25,447	19,754	122	38,916	27,611
Far East NIC's to U.S. Northeast Coast (1201)	14	1,572	3,366	19	9,570	1,575	45	13,432	2,048	68	21,958	9,177
U.S. Northeast Coast to South America East Coast (0113)	107	6,857	8,496	122	56,776	8,314	134	58,956	8,218	153	61,860	66,527
South America East Coast to U.S. Northeast Coast (1301)	84	41,158	46,212	102	59,198	49,006	115	62,959	53,758	133	69,804	78,035
U.S. Northeast Coast to South America West Coast (0114)	19	488	5,833	28	9,469	4,748	34	10,596	1,140	49	12,544	1,602
South America West Coast to U.S. Northeast Coast (1401)	22	6,341	12,572	36	17,191	14,823	43	20,201	17,898	39	24,880	20,318
U.S. Northeast Coast to East Africa (0115)	3	1,765	62	1	17,191	89	1	117	142	2	186	265
East Africa to U.S. Northeast Coast (1501)	4	3,420	37	84	84	30	11	113	19	171	9	240
U.S. Northeast Coast to West Africa (0116)	9	200	167	7	8,105	197	11	9,849	288	14	13,515	17,324
West Africa to U.S. Northeast Coast (1601)	20	14,713	24,984	16	29,838	31,173	26	36,684	42,277	34	49,797	53,701
U.S. Northeast Coast to South Africa (0117)	7	3,348	242	5	4,495	308	10	6,348	4,447	13	9,769	13,690
South Africa to U.S. Northeast Coast (1701)	6	7,742	9,148	11	10,676	12,931	15	15,394	19,853	21	23,680	33,249
U.S. Northeast Coast to Arabian Gulf (0118)	17	4,695	11,259	23	13,770	11,651	31	17,581	2,731	40	23,934	3,963
Arabian Gulf to U.S. Northeast Coast (1801)	14	4,806	18,469	40	23,736	23,279	51	30,072	30,689	65	40,164	39,071
U.S. Northeast Coast to Other Med (0119)	19	8,488	11,312	32	17,488	9,416	35	19,299	8,189	38	21,386	6,004
Other Med to U.S. Northeast Coast (1901)	16	8,488	10,663	27	21,320	13,585	42	25,536	19,124	54	32,699	25,772
U.S. Northeast Coast to China (0121)	4	270	641	4	912	979	9	1,324	1,857	16	2,573	3,122
China to U.S. Northeast Coast (2101)	4	419	1,018	6	1,375	911	5	1,272	637	4	1,021	467
U.S. Northeast Coast to South East Asia (0122)	26	407	7,530	17	3,494	1,402	20	3,801	2,560	25	4,325	5,157
South East Asia to U.S. Northeast Coast (2201)	29	2,206	3,335	22	4,914	3,385	24	5,278	3,719	29	6,402	8,280
U.S. Northeast Coast to Indian Sub-Continent (0123)	8	974	1,501	12	2,133	2,304	20	3,192	3,883	28	4,056	5,632
Indian Sub-Continent to U.S. Northeast Coast (2301)	3	104	1,020	5	1,395	701	7	1,994	815	11	3,106	4,405
Total - U.S. Northeast Coast Routes	798	186,060	410,086	897	561,397	326,950	1,227	647,337	398,758	1,505	794,067	484,081

Total - US Routes 3,671 619,490 1,596,686 3,481 955,036 1,823,660 3,984 1,082,951 2,105,613 4,724 1,284,004 2,512,924 5,776 1,547,829 3,031,465

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For All Shiptypes
On U.S. Southeast Coast Routes

ROUTE	1987			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	26	2,899	11,575	16	4,926	8,940	17	5,090	9,113	17	5,240	9,021
Northern Europe to U.S. Southeast Coast (0802)	26	3,209	11,116	16	4,406	10,257	17	4,771	10,428	17	5,378	11,187
U.S. Southeast Coast to Southern Europe (0209)	16	1,029	5,032	8	1,772	3,199	9	1,827	3,731	18	6,326	11,187
Southern Europe to U.S. Southeast Coast (0902)	17	2,159	11,350	11	4,715	7,181	13	5,717	8,354	17	10,944	15,774
U.S. Southeast Coast to Japan (0210)	24	1,258	5,242	19	2,312	5,874	19	2,474	6,050	22	10,518	13,774
Japan to U.S. Southeast Coast (1002)	32	1,447	7,541	23	1,317	7,337	23	1,465	7,952	17	2,484	5,705
U.S. Southeast Coast to Australia/New Zealand (0211)	7	131	1,980	2	199	669	3	274	756	18	1,901	5,794
Australia/New Zealand to U.S. Southeast Coast (1102)	3	505	3,980	1	572	2,716	1	616	3,642	3	642	3,944
U.S. Southeast Coast to Far East NIC's (0212)	13	1,167	3,483	16	3,678	6,248	25	6,159	9,948	45	11,042	17,868
Far East NIC's to U.S. Southeast Coast (1202)	9	898	2,811	12	3,785	5,395	20	8,917	8,634	35	1,147	14,930
U.S. Southeast Coast to South America East Coast (0213)	113	4,746	21,088	85	6,343	23,962	94	8,962	28,324	123	12,959	33,050
South America East Coast to U.S. Southeast Coast (1302)	94	13,979	20,738	71	16,199	23,368	79	16,721	25,905	102	18,328	32,627
U.S. Southeast Coast to South America West Coast (0214)	15	561	2,973	28	563	9,902	29	689	10,413	32	1,357	11,961
South America West Coast to U.S. Southeast Coast (1402)	12	5,340	6,362	19	7,391	9,641	21	8,742	11,416	23	10,327	13,651
U.S. Southeast Coast to East Africa (0215)	2	2	663	0	5	7	0	5	7	0	5	7
East Africa to U.S. Southeast Coast (1502)	1	9	489	0	3	7	0	2	7	0	0	6
U.S. Southeast Coast to West Africa (0216)	2	80	425	1	181	244	1	183	247	1	149	225
West Africa to U.S. Southeast Coast (1602)	11	4,248	18,096	7	10,694	12,653	9	13,451	15,859	12	18,633	21,879
U.S. Southeast Coast to South Africa (0217)	2	99	175	2	136	298	2	197	396	2	264	534
South Africa to U.S. Southeast Coast (1702)	1	336	3,010	1	4,115	4,845	1	5,816	6,699	1	8,944	10,504
U.S. Southeast Coast to Arabian Gulf (0218)	10	572	4,157	17	744	5,162	22	965	6,999	30	1,471	8,711
Arabian Gulf to U.S. Southeast Coast (1802)	6	558	3,499	38	9,645	12,914	47	11,904	16,001	61	15,245	20,690
U.S. Southeast Coast to Other Med (0219)	11	531	4,149	6	1,700	1,762	8	1,482	3,385	11	1,547	4,525
Other Med to U.S. Southeast Coast (1902)	4	447	1,551	2	1,170	1,551	2	1,482	2,187	3	2,026	2,975
U.S. Southeast Coast to China (0221)	3	53	460	5	111	504	8	2,131	2,791	15	5,214	4,854
China to U.S. Southeast Coast (2102)	2	304	3,204	2	703	1,786	3	1,168	2,316	5	1,916	1,514
U.S. Southeast Coast to South East Asia (0222)	14	711	3,246	10	1,602	2,641	10	1,592	3,426	13	1,720	3,283
South East Asia to U.S. Southeast Coast (2202)	13	123	1,195	5	414	1,221	12	1,523	1,519	15	1,704	4,736
U.S. Southeast Coast to Indian Sub-Continent (0223)	5	58	491	5	416	684	6	505	1,219	8	1,927	1,974
Indian Sub-Continent to U.S. Southeast Coast (2302)	2	493	156,140	1	87,217	172,094	2	105,617	202,621	2	137,754	260,782
Total - U.S. Southeast Coast Routes	493	47,531	156,140	434	87,217	172,094	503	105,617	202,621	645	137,754	260,782

Total - US Routes 3,671 619,490 1,596,686 3,481 935,036 1,823,660 3,984 1,082,951 2,105,613 4,724 1,284,004 2,512,924 5,776 1,547,829 3,031,465

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For All Shippers
On U.S. Gulf Coast Routes

ROUTE	1987			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	98	27,373	42,129	68	27,412	37,115	65	26,225	37,743	59	24,779	24,779
Northern Europe to U.S. Gulf Coast (0803)	91	11,833	38,563	68	13,635	40,043	65	14,098	37,296	54	13,661	35,229
U.S. Gulf Coast to Southern Europe (0309)	66	13,396	30,366	37	12,557	16,501	38	8,190	12,593	29	7,055	12,146
Southern Europe to U.S. Gulf Coast (0903)	48	4,060	26,498	27	4,116	16,568	28	4,912	17,546	21	5,533	11,980
U.S. Gulf Coast to Japan (0310)	81	21,736	30,779	45	17,722	25,013	44	17,722	24,785	26	7,966	12,822
Japan to U.S. Gulf Coast (1003)	39	2,611	11,085	22	2,444	8,340	17	1,877	6,508	15	1,786	5,427
U.S. Gulf Coast to Australia/New Zealand (0311)	12	999	3,078	24	2,012	5,797	22	2,861	8,378	11	6,316	14,851
Australia/New Zealand to U.S. Gulf Coast (1103)	9	3,080	3,651	17	8,940	12,152	18	9,501	13,183	61	19,808	28,859
U.S. Gulf Coast to Far East NIC's (0312)	46	11,094	15,185	40	12,096	15,035	60	17,430	21,584	59	33,090	41,051
Far East NIC's to U.S. Gulf Coast (1203)	12	575	3,152	10	20,225	34,343	17	22,412	37,373	128	28,800	41,051
U.S. Gulf Coast to South America East Coast (0313)	276	18,854	87,797	211	20,225	84,344	186	64,782	85,061	321	28,390	82,586
South America East Coast to U.S. Gulf Coast (1303)	208	61,881	137,628	171	70,050	94,124	186	64,782	95,267	293	56,162	92,266
U.S. Gulf Coast to South America West Coast (0314)	32	3,640	8,292	34	4,011	9,599	36	4,597	10,691	53	9,855	18,257
South America West Coast to U.S. Gulf Coast (1403)	21	6,307	8,258	27	10,229	13,789	31	12,975	17,196	55	23,199	31,951
U.S. Gulf Coast to East Africa (0315)	8	390	2,169	1	281	392	1	266	378	1	141	236
East Africa to U.S. Gulf Coast (1503)	4	26	2,388	0	44	121	0	40	121	0	36	119
U.S. Gulf Coast to West Africa (0316)	12	1,491	6,235	9	1,599	6,326	11	1,771	7,662	13	1,520	11,495
West Africa to U.S. Gulf Coast (1603)	26	17,694	29,770	26	27,568	37,082	30	33,618	44,819	38	55,188	68,148
U.S. Gulf Coast to South Africa (0317)	9	821	4,011	13	12,379	14,758	17	903	17,725	32	26,771	37,432
South Africa to U.S. Gulf Coast (1703)	6	1,523	2,193	10	12,379	14,758	13	17,421	20,667	24	37,317	44,053
U.S. Gulf Coast to Arabian Gulf (0318)	31	4,216	12,617	77	4,162	62,402	87	3,992	77,718	108	4,148	130,915
Arabian Gulf to U.S. Gulf Coast (1803)	24	22,105	28,384	100	81,638	98,972	109	99,787	120,375	111	158,849	189,412
U.S. Gulf Coast to Other Med (0319)	31	10,241	15,082	37	15,161	22,380	48	20,091	29,323	75	16,218	38,087
Other Med to U.S. Gulf Coast (1903)	23	8,607	16,608	31	14,508	23,254	40	18,798	30,405	71	34,669	50,566
U.S. Gulf Coast to China (0321)	11	2,475	2,564	54	9,280	14,730	65	10,214	16,741	82	8,754	18,279
China to U.S. Gulf Coast (2103)	7	780	2,493	12	2,073	3,651	11	1,971	3,552	13	1,665	3,823
U.S. Gulf Coast to South East Asia (0322)	38	1,241	9,018	17	3,867	7,609	22	6,476	11,207	30	6,628	12,485
South East Asia to U.S. Gulf Coast (2203)	30	5,090	10,825	15	3,664	7,504	21	3,763	9,774	24	4,329	12,554
U.S. Gulf Coast to Indian Sub-Continent (0323)	13	1,033	3,012	38	2,374	6,055	48	3,506	8,101	82	10,092	17,065
Indian Sub-Continent to U.S. Gulf Coast (2303)	9	1,469	2,799	22	1,911	3,517	28	2,218	4,529	44	2,663	8,877
Total - U.S. Gulf Coast Routes	1,321	265,640	596,629	1,262	387,157	703,875	1,415	440,406	796,838	1,579	497,764	905,355

Total - US Routes 3,671 619,490 1,596,686 3,481 935,036 1,823,660 3,984 1,082,951 2,105,613 4,724 1,284,004 2,512,924 5,776 1,547,829 3,031,465

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For All Shiptypes
On U.S. Northwest Coast Routes
1995

ROUTE	1987			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	6	644	1,535	5	871	1,694	6	969	1,761	7	1,040	2,228
Northern Europe to U.S. Northwest Coast (0805)	9	343	2,417	3	439	1,071	4	476	1,235	4	550	1,403
U.S. Northwest Coast to Southern Europe (0509)	7	582	1,648	2	527	684	2	675	1,257	5	980	1,608
Southern Europe to U.S. Northwest Coast (0905)	3	121	1,024	1	82	344	1	98	608	4	118	1,688
U.S. Northwest Coast to Japan (0510)	109	25,689	42,662	127	38,884	57,098	130	39,933	58,568	116	34,898	51,364
Japan to U.S. Northwest Coast (1005)	79	2,852	22,732	104	3,397	32,590	104	3,830	34,212	97	4,495	33,912
U.S. Northwest Coast to Australia/New Zealand (0511)	7	876	2,165	4	1,321	2,405	4	1,577	2,661	5	1,709	3,019
Australia/New Zealand to U.S. Northwest Coast (1105)	10	2,257	3,868	6	3,232	4,022	7	3,517	4,496	8	3,418	4,837
U.S. Northwest Coast to Far East NIC's (0512)	39	11,934	16,943	71	27,747	36,503	108	41,053	53,819	150	52,517	69,985
Far East NIC's to U.S. Northwest Coast (1205)	32	2,153	16,231	60	1,980	34,198	91	2,391	50,964	126	3,133	68,507
U.S. Northwest Coast to South America East Coast (0513)	19	214	6,435	8	1,464	4,270	7	2,498	3,782	6	4,287	6,588
South America East Coast to U.S. Northwest Coast (1305)	9	1,496	3,048	5	1,501	2,458	5	1,359	2,498	8	1,057	2,825
U.S. Northwest Coast to South America West Coast (0514)	12	90	18,653	0	120	162	0	199	2,498	6	166	4,287
South America West Coast to U.S. Northwest Coast (1405)	9	55	11,666	1	26	495	0	30	214	0	166	2,825
U.S. Northwest Coast to East Africa (0515)	1	0	167	0	5	6	0	6	465	1	31	553
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	61	1	144	201	0	152	209	0	169	233
U.S. Northwest Coast to South Africa (0517)	0	2	85	0	0	1	0	0	1	0	1	1
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	10	1,779	3,812	2	374	511	2	421	591	4	530	754
Arabian Gulf to U.S. Northwest Coast (1805)	4	400	1,191	1	21	114	1	27	146	4	27	210
U.S. Northwest Coast to Other Med (0519)	11	884	2,866	3	1,037	1,289	4	1,406	1,749	4	1,473	1,842
Other Med to U.S. Northwest Coast (1905)	1	3	371	0	0	103	0	0	140	0	0	156
U.S. Northwest Coast to China (0521)	14	967	6,027	6	2,944	4,222	10	4,890	6,904	17	8,847	12,430
China to U.S. Northwest Coast (2105)	9	29	3,843	10	96	2,996	17	113	4,816	31	129	8,705
U.S. Northwest Coast to South East Asia (0522)	16	574	6,186	12	1,594	3,077	19	2,400	4,147	29	3,909	6,169
South East Asia to U.S. Northwest Coast (2205)	12	1,758	5,100	21	1,984	4,289	38	2,152	6,027	56	2,510	8,541
U.S. Northwest Coast to Indian Sub-Continent (0523)	5	686	1,466	11	2,963	3,707	12	3,325	4,162	13	3,510	4,398
Indian Sub-Continent to U.S. Northwest Coast (2305)	3	3	1,215	8	5	2,906	9	7	3,351	10	8	3,790
Total - U.S. Northwest Coast Routes	438	56,392	185,651	466	91,771	201,233	582	111,435	248,252	696	125,749	290,469

Total - US Routes 3,671 619,490 1,596,686 3,481 935,056 1,823,660 3,984 1,082,951 2,105,613 4,724 1,284,004 2,512,924 5,776 1,547,829 3,031,465

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For All Shipyards
On U.S. Southwest Coast Routes
1987

ROUTE	1987			2000			2010			2020		
	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	23	7,990	4,440	11	6,129	2,844	13	4,025	3,414	15	4,585	4,149
Northern Europe to U.S. Southwest Coast (0804)	27	8,247	2,407	16	6,196	2,315	15	5,443	2,370	14	5,028	2,380
U.S. Southwest Coast to Southern Europe (0409)	9	2,953	2,201	4	1,258	397	6	1,462	294	7	2,028	2,658
Southern Europe to U.S. Southwest Coast (0904)	9	2,947	1,277	4	1,636	1,518	6	1,940	2,187	7	2,782	3,673
U.S. Southwest Coast to Japan (0410)	77	24,295	12,795	72	30,118	14,150	67	31,302	15,029	61	30,014	28,392
Japan to U.S. Southwest Coast (1004)	72	39,118	7,072	59	32,241	7,625	56	35,133	8,184	53	31,058	29,256
U.S. Southwest Coast to Australia/New Zealand (0411)	9	3,277	2,804	8	3,766	3,217	13	4,381	2,157	14	5,869	9,800
Australia/New Zealand to U.S. Southwest Coast (1104)	8	1,974	1,661	10	3,570	1,928	11	4,138	2,452	16	7,537	7,729
U.S. Southwest Coast to Far East NIC's (0412)	42	18,505	17,302	44	24,618	24,585	105	34,629	39,828	136	56,735	74,040
Far East NIC's to U.S. Southwest Coast (1204)	41	10,529	8,779	38	19,169	10,522	95	27,948	13,477	128	48,555	64,205
U.S. Southwest Coast to South America East Coast (0413)	88	3,862	21,082	47	13,950	5,211	34	14,313	3,071	28	9,785	8,353
South America East Coast to U.S. Southwest Coast (1304)	24	7,300	4,104	11	4,754	2,961	9	4,831	2,593	8	3,569	1,952
U.S. Southwest Coast to South America West Coast (0414)	43	24,655	3,173	15	3,696	2,961	22	4,301	154	26	5,745	2,467
South America West Coast to U.S. Southwest Coast (1404)	38	28,354	2,250	16	3,586	2,621	21	4,126	3,523	25	5,460	7,007
U.S. Southwest Coast to East Africa (0415)	1	134	4	67	3,586	6	0	4,126	14	32	5,460	6,620
East Africa to U.S. Southwest Coast (1504)	0	2	5	0	5	3	0	49	1	12	32	26
U.S. Southwest Coast to West Africa (0416)	1	47	8	0	52	13	0	34	1	0	0	0
West Africa to U.S. Southwest Coast (1604)	1	138	53	0	75	85	0	85	28	0	122	47
U.S. Southwest Coast to South Africa (0417)	2	38	422	0	147	159	0	217	108	1	170	198
South Africa to U.S. Southwest Coast (1704)	1	100	359	0	31	31	0	39	36	0	276	187
U.S. Southwest Coast to Arabian Gulf (0418)	8	1,796	116	2	420	144	3	528	182	3	593	43
Arabian Gulf to U.S. Southwest Coast (1804)	9	319	4,043	2	692	557	3	868	571	3	923	197
U.S. Southwest Coast to Other Med (0419)	17	223	4,474	1	219	85	1	283	113	2	428	136
Other Med to U.S. Southwest Coast (1904)	4	109	88	0	117	115	1	152	177	2	232	280
U.S. Southwest Coast to China (0421)	49	2,416	631	7	2,373	955	12	2,702	1,401	19	3,664	2,009
China to U.S. Southwest Coast (2104)	8	3,353	1,072	4	1,990	1,008	5	2,009	830	7	1,998	2,781
U.S. Southwest Coast to South East Asia (0422)	16	1,627	2,922	20	9,478	3,994	31	11,123	6,665	43	15,310	10,611
South East Asia to U.S. Southwest Coast (2204)	25	7,576	9,675	22	12,331	10,117	31	13,029	11,424	42	16,536	13,653
U.S. Southwest Coast to Indian Sub-Continent (0423)	7	392	782	4	1,123	1,140	8	1,624	1,698	10	2,507	2,091
Indian Sub-Continent to U.S. Southwest Coast (2304)	3	19	65	4	1,127	75	10	1,732	86	13	2,807	96
Total - U.S. Southwest Coast Routes	621	63,867	84,461	423	185,060	98,543	578	210,566	123,980	685	262,251	164,829

Total - US Routes 3,671 619,490 1,598,686 3,481 995,056 1,823,660 3,984 1,082,951 2,105,613 4,724 1,284,004 2,512,924 5,776 1,547,829 3,081,465

1987 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE

4/24/90

Route	Vessel Capacity Required			Vessel Capacity Available From 1987 Fleet									
	Cargo 000 tons	Voyages	Ship Years	Ship Years	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	Construction	Required		
U.S. Northeast Coast to Northern Europe (0108)	17,338	1,475	67	67	12	23	19	10	3	0	0		
U.S. Northeast Coast to Southern Europe (0109)	14,730	827	39	39	10	13	8	3	0	0	0		
U.S. Northeast Coast to Japan (0110)	6,563	895	46	46	16	11	3	0	0	0	0		
U.S. Northeast Coast to Australia/New Zealand (0111)	4,187	116	11	11	5	2	3	0	0	0	0		
U.S. Northeast Coast to Far East NIC's (0112)	4,582	531	25	25	8	2	3	1	0	0	0		
U.S. Northeast Coast to South America East Coast (0113)	6,857	2,110	107	107	20	36	29	15	8	0	0		
U.S. Northeast Coast to South America West Coast (0114)	488	68	3	3	0	1	1	0	0	0	0		
U.S. Northeast Coast to East Africa (0115)	200	130	9	9	1	3	1	1	0	0	0		
U.S. Northeast Coast to West Africa (0116)	189	77	7	7	1	3	4	1	0	0	0		
U.S. Northeast Coast to South Africa (0117)	742	258	17	17	2	6	3	1	0	0	0		
U.S. Northeast Coast to Arabian Gulf (0118)	4,806	433	19	19	2	6	6	4	1	0	0		
U.S. Northeast Coast to Other Med (0119)	270	29	4	4	3	1	1	1	0	0	0		
U.S. Northeast Coast to China (0121)	407	361	26	26	1	9	7	2	0	0	0		
U.S. Northeast Coast to South East Asia (0122)	974	70	8	8	1	2	2	1	0	0	0		
U.S. Northeast Coast to Indian Sub-Continent (0123)	2,889	816	26	26	5	10	9	2	0	0	0		
U.S. Southeast Coast to Northern Europe (0208)	1,029	459	16	16	2	4	2	2	0	0	0		
U.S. Southeast Coast to Southern Europe (0209)	1,258	665	24	24	8	8	7	3	0	0	0		
U.S. Southeast Coast to Japan (0210)	131	78	7	7	3	4	1	2	0	0	0		
U.S. Southeast Coast to Australia/New Zealand (0211)	1,167	413	13	13	5	4	3	2	0	0	0		
U.S. Southeast Coast to Far East NIC's (0212)	4,746	2,130	113	113	21	32	24	25	11	0	0		
U.S. Southeast Coast to South America East Coast (0213)	561	2	2	2	0	1	1	0	0	0	0		
U.S. Southeast Coast to South America West Coast (0214)	80	36	2	2	0	1	0	0	0	0	0		
U.S. Southeast Coast to West Africa (0216)	74	28	2	2	0	1	1	0	0	0	0		
U.S. Southeast Coast to South Africa (0217)	336	155	10	10	1	3	4	1	0	0	0		
U.S. Southeast Coast to Arabian Gulf (0218)	558	293	11	11	1	3	3	1	0	0	0		
U.S. Southeast Coast to Other Med (0219)	447	21	3	3	1	1	1	0	0	0	0		
U.S. Southeast Coast to China (0221)	304	269	14	14	4	5	3	2	0	0	0		
U.S. Southeast Coast to South East Asia (0222)	123	46	5	5	0	2	2	0	0	0	0		
U.S. Southeast Coast to Indian Sub-Continent (0223)	27,373	1,405	98	98	17	29	32	17	3	0	0		
U.S. Gulf Coast to Northern Europe (0308)	13,996	867	66	66	11	16	12	12	5	0	0		
U.S. Gulf Coast to Southern Europe (0309)	21,736	901	81	81	24	30	20	12	3	0	0		
U.S. Gulf Coast to Japan (0310)	11,094	106	12	12	4	3	3	2	0	0	0		
U.S. Gulf Coast to Far East NIC's (0312)	18,854	3,952	276	276	41	77	75	57	25	0	0		
U.S. Gulf Coast to South America East Coast (0313)	3,640	479	32	32	3	5	9	2	1	0	0		
U.S. Gulf Coast to South America West Coast (0314)	390	74	8	8	1	2	2	1	0	0	0		
U.S. Gulf Coast to East Africa (0315)	1,491	150	12	12	4	4	4	2	1	0	0		
U.S. Gulf Coast to West Africa (0316)	821	92	9	9	1	2	1	1	0	0	0		
U.S. Gulf Coast to South Africa (0317)	4,214	325	31	31	3	8	3	6	1	0	0		
U.S. Gulf Coast to Arabian Gulf (0318)	10,241	416	31	31	5	7	10	6	2	0	0		
U.S. Gulf Coast to Other Med (0319)	2,475	77	11	11	3	4	3	2	0	0	0		
U.S. Gulf Coast to China (0321)	1,241	245	38	38	6	14	11	4	0	0	0		
U.S. Gulf Coast to South East Asia (0322)	1,033	111	13	13	2	6	5	3	0	0	0		
U.S. Gulf Coast to Indian Sub-Continent (0323)	2,941	332	23	23	7	6	6	3	1	0	0		
U.S. Southwest Coast to Northern Europe (0408)	955	167	9	9	3	2	3	2	0	0	0		
U.S. Southwest Coast to Southern Europe (0409)	10,514	1,874	77	77	21	27	21	27	10	0	0		
U.S. Southwest Coast to Japan (0410)	7,899	738	42	42	9	12	13	7	2	0	0		
U.S. Southwest Coast to Australia/New Zealand (0411)	3,862	1,435	88	88	25	24	25	23	3	0	0		
U.S. Southwest Coast to Far East NIC's (0412)	221	9	1	1	0	0	0	0	0	0	0		
U.S. Southwest Coast to South America East Coast (0413)	47	9	1	1	0	0	0	0	0	0	0		
U.S. Southwest Coast to South America West Coast (0414)	38	22	2	2	0	0	0	0	0	0	0		
U.S. Southwest Coast to East Africa (0415)													
U.S. Southwest Coast to West Africa (0416)													
U.S. Southwest Coast to South Africa (0417)													

1987 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE
For All Shiptypes

4/24/90

Route	Vessel Capacity Required			Vessel Capacity Available From 1987 Fleet					Required Construction	
	Cargo 000 tons	Ship Voyages	Ship Years	Ship Years	0-4 Years	5-9 Years	10-14 Years	15-19 Years		20-24 Years
U.S. Southwest Coast to Arabian Gulf (0418)	178	80	8	0.10	2	3	2	1	0	0
U.S. Southwest Coast to Other Med (0419)	223	291	17	0.05	6	4	4	2	0	0
U.S. Southwest Coast to China (0421)	49	111	7	0.02	1	2	4	1	0	0
U.S. Southwest Coast to South East Asia (0422)	1,427	236	16	0.21	3	5	2	3	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	392	59	6	0.29	1	1	2	1	0	0
U.S. Northwest Coast to Northern Europe (0508)	644	128	6	0.42	3	1	1	1	0	0
U.S. Northwest Coast to Southern Europe (0509)	582	102	7	0.35	3	2	2	1	0	0
U.S. Northwest Coast to Japan (0510)	25,669	1,928	109	0.60	21	43	30	13	2	0
U.S. Northwest Coast to Australia/New Zealand (0511)	876	148	39	0.40	14	2	2	1	0	0
U.S. Northwest Coast to Far East NIC's (0512)	11,934	866	39	0.70	7	10	5	4	2	0
U.S. Northwest Coast to South America East Coast (0513)	214	399	19	0.05	12	4	6	3	1	0
U.S. Northwest Coast to South America West Coast (0514)	90	295	12	0.00	0	3	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	1,779	83	10	0.02	2	5	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	884	129	11	0.31	4	2	3	1	0	0
U.S. Northwest Coast to China (0521)	967	282	14	0.16	7	3	4	1	0	0
U.S. Northwest Coast to South East Asia (0522)	574	177	16	0.09	4	3	3	2	1	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	686	46	5	0.47	1	1	1	1	0	0
Northern Europe to U.S. Northeast Coast (0801)	33,120	1,995	80	0.56	17	26	22	11	4	0
Northern Europe to U.S. Southeast Coast (0802)	3,209	917	26	0.29	6	9	7	4	1	0
Northern Europe to U.S. Gulf Coast (0803)	11,833	1,650	91	0.31	18	26	29	16	3	0
Northern Europe to U.S. Southwest Coast (0804)	2,204	459	27	0.27	10	8	6	2	0	0
Northern Europe to U.S. Northwest Coast (0805)	343	162	9	0.14	4	2	2	1	0	0
Southern Europe to U.S. Northeast Coast (0901)	6,738	890	39	0.32	11	11	12	7	3	0
Southern Europe to U.S. Southeast Coast (0902)	2,159	526	17	0.19	6	5	4	3	0	0
Southern Europe to U.S. Gulf Coast (0903)	4,060	785	48	0.15	7	12	17	9	3	0
Southern Europe to U.S. Southwest Coast (0904)	609	160	9	0.21	2	3	2	2	0	0
Southern Europe to U.S. Northwest Coast (0905)	121	40	3	0.12	3	1	1	1	0	0
Japan to U.S. Northeast Coast (1001)	3,254	997	50	0.28	17	16	13	3	0	0
Japan to U.S. Southeast Coast (1002)	1,447	764	32	0.19	11	10	9	2	0	0
Japan to U.S. Gulf Coast (1003)	2,611	461	39	0.24	13	13	10	2	1	0
Japan to U.S. Southwest Coast (1004)	5,846	2,089	72	0.15	22	21	21	7	1	0
Japan to U.S. Northwest Coast (1005)	2,852	1,901	79	0.13	20	28	25	8	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	1,429	118	8	0.60	3	2	1	2	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	505	70	3	0.32	1	3	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	3,080	134	9	0.84	3	3	2	1	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	1,974	136	8	0.68	5	3	3	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	2,257	157	10	0.58	2	3	2	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	1,592	500	14	0.40	5	4	4	1	0	0
Far East NIC's to U.S. Southeast Coast (1202)	898	434	9	0.32	4	2	2	1	0	0
Far East NIC's to U.S. Gulf Coast (1203)	575	189	12	0.18	2	4	4	1	0	0
Far East NIC's to U.S. Southwest Coast (1204)	10,529	778	41	0.56	12	11	12	6	1	0
Far East NIC's to U.S. Northwest Coast (1205)	2,153	933	32	0.13	7	7	7	4	1	0
South America East Coast to U.S. Northeast Coast (1301)	41,158	1,775	84	0.75	16	29	22	11	2	0
South America East Coast to U.S. Southeast Coast (1302)	13,979	1,935	94	0.67	18	28	21	7	0	0
South America East Coast to U.S. Gulf Coast (1303)	61,881	4,117	208	0.45	35	64	56	19	7	0
South America East Coast to U.S. Southwest Coast (1304)	3,567	354	24	0.49	7	7	7	4	0	0
South America East Coast to U.S. Northwest Coast (1305)	1,496	142	9	0.49	2	2	2	1	0	0
South America West Coast to U.S. Northeast Coast (1401)	6,341	462	22	0.70	5	9	2	1	0	0
South America West Coast to U.S. Southeast Coast (1402)	5,340	298	12	0.84	2	2	2	1	0	0
South America West Coast to U.S. Gulf Coast (1403)	6,307	400	21	0.76	3	4	3	2	2	0

1987 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE
For All Shiptypes

4/24/90

Route	Vessel Capacity Required			Vessel Capacity Available From 1987 Fleet					Required Construction	
	Cargo 000 Tons	Voyages	Ship Years	Ship Years	0-4 Years	5-9 Years	10-14 Years	15-19 Years		20-24 Years
South America West Coast to U.S. Southwest Coast (1404)	679	874	38	38	6	10	15	7	1	0
South America West Coast to U.S. Northwest Coast (1405)	55	267	9	9	1	2	4	2	0	0
East Africa to U.S. Northeast Coast (1501)	54	52	4	4	1	1	2	1	0	0
East Africa to U.S. Southeast Coast (1502)	9	17	1	1	0	0	1	0	0	0
East Africa to U.S. Gulf Coast (1503)	26	49	3	3	0	0	2	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	4	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	14,713	301	20	20	2	4	11	2	0	0
West Africa to U.S. Southeast Coast (1602)	4,248	153	11	11	0	1	8	1	0	0
West Africa to U.S. Southwest Coast (1603)	17,694	335	26	26	1	7	14	3	0	0
West Africa to U.S. Southwest Coast (1604)	18	13	1	1	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	1	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	3,348	70	6	6	1	1	3	1	0	0
South Africa to U.S. Southeast Coast (1702)	99	8	1	1	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	1,523	68	6	6	1	1	2	0	1	0
South Africa to U.S. Southwest Coast (1704)	1,100	12	1	1	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	2	3	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	4,695	205	14	14	2	4	6	2	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	578	105	6	6	2	2	3	0	0	0
Arabian Gulf to U.S. Southwest Coast (1803)	22,105	261	24	24	2	4	16	3	1	0
Arabian Gulf to U.S. Southwest Coast (1804)	319	85	9	9	2	3	3	1	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	400	42	4	4	1	1	1	0	0	0
Other Med to U.S. Northeast Coast (1901)	8,688	330	16	16	2	5	1	4	1	0
Other Med to U.S. Southeast Coast (1902)	531	113	4	4	1	1	1	1	1	0
Other Med to U.S. Gulf Coast (1903)	8,607	340	23	23	4	6	9	3	1	0
Other Med to U.S. Southwest Coast (1904)	109	75	4	4	1	1	1	1	0	0
Other Med to U.S. Northwest Coast (1905)	3	13	1	1	0	0	0	0	0	0
China to U.S. Northeast Coast (2104)	419	52	4	4	1	1	1	2	0	0
China to U.S. Southeast Coast (2102)	53	37	2	2	0	1	1	0	0	0
China to U.S. Gulf Coast (2103)	780	91	7	7	1	2	2	1	0	0
China to U.S. Southwest Coast (2104)	280	142	8	8	3	3	3	1	0	0
China to U.S. Northwest Coast (2105)	29	143	9	9	3	7	10	3	1	0
South East Asia to U.S. Northeast Coast (2201)	2,206	448	29	29	7	13	17	7	0	0
South East Asia to U.S. Southeast Coast (2202)	711	301	13	13	4	8	11	4	2	0
South East Asia to U.S. Gulf Coast (2203)	5,090	284	30	30	6	11	18	3	1	0
South East Asia to U.S. Southwest Coast (2204)	7,576	371	25	25	6	7	11	4	0	0
South East Asia to U.S. Northwest Coast (2205)	1,758	144	12	12	2	3	4	1	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	104	43	3	3	0	1	1	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	58	24	2	2	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	469	89	9	9	2	3	3	1	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	19	33	3	3	1	1	1	1	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	3	33	3	3	1	1	1	1	0	0
Total	619,490	66,856	3,671	3,672	786	1,094	1,072	535	184	0

1995 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE

4/24/90

Route	Vessel Capacity Required		Vessel Capacity Available From 1987 Fleet										Required Construction
	Voyages	Ship Years	Ship Years	Util	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	
U.S. Northeast Coast to Northern Europe (0108)	30,918	75	59	0.52	0	5	17	21	17	16	11	16	
U.S. Northeast Coast to Southern Europe (0109)	22,422	43	32	0.66	0	2	7	11	12	8	11	0	
U.S. Northeast Coast to Japan (0110)	8,194	45	45	0.50	0	6	16	14	8	2	0	0	
U.S. Northeast Coast to Australia/New Zealand (0111)	291	118	22	0.08	0	1	3	7	5	17	23	0	
U.S. Northeast Coast to Far East NIC's (0112)	10,586	40	22	0.54	0	3	8	33	25	3	10	0	
U.S. Northeast Coast to South America East Coast (0113)	8,496	115	93	0.15	0	8	26	6	1	3	0	0	
U.S. Northeast Coast to South America West Coast (0114)	613	26	16	0.06	0	2	6	1	1	3	0	0	
U.S. Northeast Coast to East Africa (0115)	62	4	3	0.76	0	0	1	3	2	5	6	0	
U.S. Northeast Coast to West Africa (0116)	167	6	8	0.02	0	0	2	3	3	2	0	0	
U.S. Northeast Coast to South Africa (0117)	242	56	7	0.05	0	0	4	6	6	1	0	0	
U.S. Northeast Coast to Arabian Gulf (0118)	1,259	18	15	0.09	0	1	4	3	2	5	3	0	
U.S. Northeast Coast to Other Med (0119)	9,453	612	28	0.54	0	1	4	6	6	1	12	0	
U.S. Northeast Coast to China (0121)	641	29	24	0.70	0	3	8	8	5	2	0	0	
U.S. Northeast Coast to South East Asia (0122)	974	563	17	0.28	0	3	1	2	1	3	2	0	
U.S. Northeast Coast to Indian Sub-Continent (0123)	1,501	68	6	0.70	0	1	8	2	2	5	2	0	
U.S. Southeast Coast to Northern Europe (0208)	4,926	16	25	0.55	0	2	7	9	2	7	2	0	
U.S. Southeast Coast to Southern Europe (0209)	1,772	323	13	0.55	0	1	3	5	5	5	0	0	
U.S. Southeast Coast to Japan (0210)	2,312	681	19	0.39	0	3	8	7	2	3	0	0	
U.S. Southeast Coast to Australia/New Zealand (0211)	199	28	6	0.30	0	0	2	2	3	2	0	0	
U.S. Southeast Coast to Far East NIC's (0212)	3,678	742	12	0.59	0	9	4	2	3	4	0	0	
U.S. Southeast Coast to South America East Coast (0213)	6,543	65	91	0.27	0	2	25	29	28	3	16	0	
U.S. Southeast Coast to South America West Coast (0214)	563	28	12	0.06	0	1	5	5	3	1	0	0	
U.S. Southeast Coast to East Africa (0215)	5	0	7	0.77	0	0	0	1	1	0	0	0	
U.S. Southeast Coast to West Africa (0216)	181	18	2	0.74	0	0	0	1	0	0	0	0	
U.S. Southeast Coast to South Africa (0217)	136	32	2	0.17	0	0	0	1	0	0	0	0	
U.S. Southeast Coast to Arabian Gulf (0218)	744	188	9	0.14	0	1	3	3	0	3	0	0	
U.S. Southeast Coast to Other Med (0219)	713	334	6	0.27	0	0	2	3	3	3	9	0	
U.S. Southeast Coast to China (0221)	1,170	44	5	0.75	0	0	1	1	1	1	2	0	
U.S. Southeast Coast to South East Asia (0222)	703	200	9	0.34	0	0	4	4	3	1	0	0	
U.S. Southeast Coast to South America East Coast (0213)	414	45	4	0.74	0	0	1	2	1	1	1	0	
U.S. Southeast Coast to Indian Sub-Continent (0223)	27,612	68	87	0.76	0	4	22	30	28	28	0	0	
U.S. Gulf Coast to Northern Europe (0308)	12,557	471	55	0.71	0	7	13	19	20	16	0	0	
U.S. Gulf Coast to Southern Europe (0309)	17,752	521	77	0.71	0	10	26	26	16	3	0	0	
U.S. Gulf Coast to Japan (0310)	2,012	182	24	0.80	0	6	15	15	10	12	0	0	
U.S. Gulf Coast to Far East NIC's (0312)	12,096	366	40	0.24	0	17	56	77	76	11	0	0	
U.S. Gulf Coast to South America East Coast (0313)	20,225	211	25	0.42	0	1	5	9	9	9	0	0	
U.S. Gulf Coast to South America West Coast (0314)	4,011	34	6	0.72	0	0	1	2	2	3	0	0	
U.S. Gulf Coast to East Africa (0315)	281	10	9	0.25	0	0	1	2	3	2	0	0	
U.S. Gulf Coast to West Africa (0316)	1,599	122	10	0.07	0	0	1	4	3	2	0	0	
U.S. Gulf Coast to South Africa (0317)	846	153	6	0.07	0	0	2	2	2	2	7	0	
U.S. Gulf Coast to Arabian Gulf (0318)	4,162	715	27	0.68	0	0	5	4	11	9	50	0	
U.S. Gulf Coast to Other Med (0319)	15,161	540	37	0.63	0	2	6	8	3	3	12	0	
U.S. Gulf Coast to China (0321)	9,280	401	54	0.51	0	1	9	4	4	4	44	0	
U.S. Gulf Coast to South East Asia (0322)	3,847	115	17	0.39	0	3	13	13	9	4	27	0	
U.S. Gulf Coast to Indian Sub-Continent (0323)	2,574	292	38	0.72	0	1	6	6	4	5	0	0	
U.S. Southwest Coast to Northern Europe (0408)	4,440	236	17	0.32	0	3	7	4	4	5	0	0	
U.S. Southwest Coast to Southern Europe (0409)	401	91	4	0.42	0	1	3	2	3	3	0	0	
U.S. Southwest Coast to Japan (0410)	12,795	1,917	71	0.42	0	9	25	24	16	2	0	0	
U.S. Southwest Coast to Australia/New Zealand (0411)	1,661	153	8	0.44	0	4	10	3	2	0	0	0	
U.S. Southwest Coast to Far East NIC's (0412)	17,302	1,060	44	0.70	0	6	25	12	11	7	0	0	
U.S. Southwest Coast to South America East Coast (0413)	4,104	742	47	0.29	0	10	25	25	21	0	0	0	
U.S. Southwest Coast to South America West Coast (0414)	133	5	1	0.05	0	3	13	13	14	0	0	0	
U.S. Southwest Coast to East Africa (0415)	4	4	0	0.16	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to West Africa (0416)	8	2	0	0.05	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to South Africa (0417)	95	4	1	0.16	0	0	0	0	0	0	0	0	

1995 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE
For All Shiptypes

Route	Vessel Capacity Required			Vessel Capacity Available From 1987 Fleet										Required Construction
	Cargo 000 Tons	Voyages	Ship Years	Ship Years	Capacity Util	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25+ Years			
U.S. Southwest Coast to Arabian Gulf (0418)	116	15	2	2	0.28	8	0	1	2	3	2	0		
U.S. Southwest Coast to Other Med (0419)	80	38	1	1	0.37	16	0	3	4	2	3	0		
U.S. Southwest Coast to China (0421)	631	68	7	7	0.27	6	0	2	2	2	1	1		
U.S. Southwest Coast to South East Asia (0422)	2,922	367	20	4	0.51	14	0	4	5	2	4	6		
U.S. Southwest Coast to Indian Sub-Continent (0423)	782	49	4	5	0.70	5	0	1	2	2	0	0		
U.S. Northwest Coast to Northern Europe (0508)	871	97	5	2	0.58	6	0	1	2	1	2	0		
U.S. Northwest Coast to Southern Europe (0509)	527	28	2	2	0.77	6	0	1	2	2	0	0		
U.S. Northwest Coast to Japan (0510)	2,617	127	127	4	0.68	101	0	8	38	25	26	0		
U.S. Northwest Coast to Australia/New Zealand (0511)	1,321	71	4	7	0.55	6	0	2	2	2	0	0		
U.S. Northwest Coast to Far East NIC's (0512)	27,747	1,442	71	8	0.76	36	0	5	10	8	35	0		
U.S. Northwest Coast to South America East Coast (0513)	464	274	0	0	0.11	11	0	1	4	4	0	0		
U.S. Northwest Coast to South America West Coast (0514)	120	52	0	0	0.74	1	0	2	4	4	0	0		
U.S. Northwest Coast to East Africa (0515)	5	0	0	0	0.73	1	0	0	0	0	0	0		
U.S. Northwest Coast to West Africa (0516)	4	0	0	0	0.50	0	0	0	0	0	0	0		
U.S. Northwest Coast to South Africa (0517)	144	1	1	0	0.72	0	0	0	0	0	0	0		
U.S. Northwest Coast to Arabian Gulf (0518)	374	15	2	3	0.73	10	0	3	3	3	0	0		
U.S. Northwest Coast to Other Med (0519)	1,057	45	3	6	0.80	13	0	2	3	3	0	0		
U.S. Northwest Coast to China (0521)	2,944	101	6	12	0.70	14	0	2	4	4	1	7		
U.S. Northwest Coast to South East Asia (0522)	1,594	89	11	16	0.36	4	0	1	2	1	22	0		
U.S. Northwest Coast to Indian Sub-Continent (0523)	2,963	89	9	16	0.46	24	0	1	2	1	19	0		
Northern Europe to U.S. Northwest Coast (0801)	39,752	2,487	94	16	0.43	81	0	2	27	19	22	0		
Northern Europe to U.S. Southeast Coast (0802)	6,406	1,739	68	3	0.36	25	0	4	6	5	0	0		
Northern Europe to U.S. Gulf Coast (0803)	13,635	1,568	17	3	0.41	33	0	3	11	2	0	0		
Northern Europe to U.S. Southwest Coast (0804)	2,207	87	4	11	0.53	14	0	2	4	2	11	0		
Northern Europe to U.S. Northwest Coast (0805)	4,339	1,007	44	11	0.66	41	0	3	14	15	0	0		
Southern Europe to U.S. Northwest Coast (0901)	4,715	363	27	4	0.25	8	0	1	3	3	0	0		
Southern Europe to U.S. Southeast Coast (0902)	4,116	450	27	4	0.78	3	0	0	1	2	0	0		
Southern Europe to U.S. Gulf Coast (0903)	1,277	80	1	1	0.24	48	0	7	17	15	0	0		
Southern Europe to U.S. Southwest Coast (0904)	3,095	927	48	23	0.19	31	0	4	10	10	0	0		
Southern Europe to U.S. Northwest Coast (0905)	1,317	715	23	22	0.18	59	0	5	12	6	0	0		
Japan to U.S. Northeast Coast (1001)	2,444	304	59	7	0.29	68	0	9	13	7	0	0		
Japan to U.S. Southeast Coast (1002)	7,072	2,720	101	7	0.22	75	0	8	21	17	26	0		
Japan to U.S. Gulf Coast (1003)	3,397	123	7	1	0.10	7	0	2	26	18	0	0		
Australia/New Zealand to U.S. Northeast Coast (1101)	3,253	123	7	1	0.79	3	0	1	2	2	0	0		
Australia/New Zealand to U.S. Southeast Coast (1102)	572	28	1	1	0.78	3	0	0	1	1	0	0		
Australia/New Zealand to U.S. Gulf Coast (1103)	8,940	303	17	7	0.74	8	0	3	3	2	9	0		
Australia/New Zealand to U.S. Southwest Coast (1104)	2,804	120	7	6	0.79	8	0	1	3	2	0	0		
Australia/New Zealand to U.S. Northwest Coast (1105)	3,232	86	6	6	0.80	10	0	4	3	1	0	0		
Far East NIC's to U.S. Northeast Coast (1201)	1,336	852	19	12	0.14	13	0	2	4	3	6	6		
Far East NIC's to U.S. Southeast Coast (1202)	785	709	12	10	0.15	9	0	2	2	2	4	4		
Far East NIC's to U.S. Gulf Coast (1203)	343	140	38	38	0.09	11	0	1	3	3	0	0		
Far East NIC's to U.S. Southwest Coast (1204)	8,779	851	60	60	0.46	37	0	5	11	10	0	0		
Far East NIC's to U.S. Northwest Coast (1205)	1,980	1,566	60	96	0.06	29	0	6	11	6	32	0		
South America East Coast to U.S. Northeast Coast (1301)	46,212	1,710	96	71	0.78	72	0	7	26	19	24	0		
South America East Coast to U.S. Southeast Coast (1302)	16,199	1,561	71	171	0.69	77	0	14	25	23	0	0		
South America East Coast to U.S. Gulf Coast (1303)	70,050	2,789	171	11	0.74	174	0	6	61	53	0	0		
South America East Coast to U.S. Southwest Coast (1304)	3,173	165	5	5	0.67	20	0	2	7	6	0	0		
South America East Coast to U.S. Northwest Coast (1305)	1,501	620	19	33	0.61	7	0	2	2	2	14	0		
South America West Coast to U.S. Northeast Coast (1401)	12,572	389	19	27	0.73	19	0	2	7	4	9	0		
South America West Coast to U.S. Southeast Coast (1402)	7,381	455	27	27	0.77	17	0	3	4	2	7	0		
South America West Coast to U.S. Gulf Coast (1403)	10,229	455	27	27	0.74	17	0	4	6	7	10	0		

1995 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE
For All Shipyards

4/24/90

Route	Vessel Capacity Required			Vessel Capacity Available From 1987 Fleet						Required Construction	
	Cargo 000 Tons	Voyages	Ship Years	Capacity Util	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years		
South America West Coast to U.S. Southwest Coast (1404)	2,250	266	15	0.63	0	2	7	12	13	0	
South America West Coast to U.S. Northwest Coast (1405)	26	40	1	0.05	0	0	1	3	3	0	
East Africa to U.S. Northeast Coast (1501)	37	4	0	0.44	0	0	1	1	1	0	
East Africa to U.S. Southeast Coast (1502)	3	0	0	0.37	0	0	0	0	0	0	
East Africa to U.S. Gulf Coast (1503)	44	4	0	0.36	0	0	0	0	0	0	
East Africa to U.S. Southwest Coast (1504)	5	4	0	0.09	0	0	0	0	0	0	
East Africa to U.S. Northwest Coast (1505)	0	0	0	0.00	0	0	0	0	0	0	
West Africa to U.S. Northeast Coast (1601)	23,334	250	16	0.85	0	1	3	7	8	0	
West Africa to U.S. Southeast Coast (1602)	10,694	102	7	0.85	0	1	1	4	6	0	
West Africa to U.S. Southwest Coast (1604)	27,568	354	26	0.74	0	1	4	10	10	2	
West Africa to U.S. Gulf Coast (1605)	53	2	0	0.71	0	0	0	0	0	0	
West Africa to U.S. Northwest Coast (1605)	1	0	0	0.77	0	0	0	0	0	0	
South Africa to U.S. Northeast Coast (1701)	9,148	98	8	0.84	0	0	1	0	0	0	
South Africa to U.S. Southeast Coast (1702)	4,115	21	1	0.84	0	0	0	2	2	0	
South Africa to U.S. Gulf Coast (1703)	12,379	135	10	0.84	0	0	1	0	0	0	
South Africa to U.S. Southwest Coast (1704)	24	1	0	0.78	0	0	0	2	2	0	
South Africa to U.S. Northwest Coast (1705)	7	0	0	0.79	0	0	0	0	0	0	
Arabian Gulf to U.S. Northeast Coast (1801)	18,469	306	32	0.78	0	1	2	5	5	20	
Arabian Gulf to U.S. Southeast Coast (1802)	9,665	404	38	0.75	0	0	1	2	2	33	
Arabian Gulf to U.S. Gulf Coast (1803)	81,638	1,006	100	0.82	0	1	3	9	11	77	
Arabian Gulf to U.S. Southwest Coast (1804)	14	14	2	0.64	0	0	1	3	3	0	
Arabian Gulf to U.S. Northwest Coast (1805)	21	5	1	0.19	0	0	1	1	1	0	
Other Med to U.S. Northeast Coast (1901)	10,463	542	27	0.49	0	0	3	5	5	13	
Other Med to U.S. Southeast Coast (1902)	1,200	105	2	0.68	0	0	1	1	1	0	
Other Med to U.S. Gulf Coast (1903)	14,508	479	31	0.62	0	0	1	7	7	11	
Other Med to U.S. Southwest Coast (1904)	88	14	0	0.75	0	0	0	1	1	0	
Other Med to U.S. Northwest Coast (1905)	0	4	0	0.00	0	0	0	0	0	0	
China to U.S. Northeast Coast (2101)	1,018	55	7	0.74	0	0	0	1	1	0	
China to U.S. Southeast Coast (2102)	111	24	2	0.22	0	0	0	1	1	0	
China to U.S. Gulf Coast (2103)	2,073	108	12	0.57	0	1	2	2	2	6	
China to U.S. Southwest Coast (2104)	1,072	57	4	0.57	0	1	2	2	2	0	
China to U.S. Northwest Coast (2105)	98	138	10	0.03	0	1	3	7	7	2	
South East Asia to U.S. Northeast Coast (2201)	3,335	622	23	0.68	0	3	4	6	6	0	
South East Asia to U.S. Southeast Coast (2202)	1,602	200	10	0.61	0	2	4	4	4	0	
South East Asia to U.S. Gulf Coast (2203)	3,664	121	15	0.49	0	2	7	9	9	0	
South East Asia to U.S. Southwest Coast (2204)	9,875	343	22	0.77	0	3	7	6	6	0	
South East Asia to U.S. Northwest Coast (2205)	1,984	192	21	0.46	0	1	3	3	3	11	
Indian Sub-Continent to U.S. Northeast Coast (2301)	587	39	3	0.42	0	0	0	1	1	0	
Indian Sub-Continent to U.S. Southeast Coast (2302)	416	16	1	0.67	0	0	0	1	1	0	
Indian Sub-Continent to U.S. Gulf Coast (2303)	1,911	183	22	0.54	0	1	2	3	2	14	
Indian Sub-Continent to U.S. Southwest Coast (2304)	65	40	4	0.06	0	0	1	1	1	1	
Indian Sub-Continent to U.S. Northwest Coast (2305)	5	70	8	0.00	0	0	0	0	0	5	
Total	935,036	66,979	3,481		3,240	0	315	910	1,085	931	241

2000 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE
For All Shipyards

4/24/90

Route	Cargo		Vessel Capacity Required		Vessel Capacity Available from 1987 Fleet										Required Construction
	000 Tons	Voyages	Ship Years	Capacity Util	Ship Years	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	
U.S. Northeast Coast to Northern Europe (0108)	36,684	2,062	86	0.53	45	0	0	5	17	24	0	0	0	0	
U.S. Northeast Coast to Southern Europe (0109)	24,208	1,053	49	0.64	22	0	0	6	13	13	0	0	0	0	
U.S. Northeast Coast to Japan (0110)	8,011	820	44	0.50	38	0	0	1	16	16	0	0	0	0	
U.S. Northeast Coast to Australia/New Zealand (0111)	397	126	10	0.11	8	0	0	1	3	7	0	0	0	0	
U.S. Northeast Coast to Far East NIC's (0112)	13,472	1,447	53	0.53	19	0	0	3	8	7	0	0	0	0	
U.S. Northeast Coast to South America East Coast (0113)	8,314	2,471	122	0.14	72	0	0	8	26	38	0	0	0	0	
U.S. Northeast Coast to South America West Coast (0114)	748	616	28	0.07	14	0	0	2	6	6	0	0	0	0	
U.S. Northeast Coast to East Africa (0115)	89	5	1	0.77	2	0	0	0	1	4	0	0	0	0	
U.S. Northeast Coast to West Africa (0116)	197	111	7	0.02	6	0	0	0	2	4	0	0	0	0	
U.S. Northeast Coast to South Africa (0117)	308	177	7	0.05	5	0	0	0	2	3	0	0	0	0	
U.S. Northeast Coast to Arabian Gulf (0118)	1,651	341	25	0.09	11	0	0	1	4	7	0	0	0	0	
U.S. Northeast Coast to Other Med (0119)	9,416	711	32	0.49	12	0	0	1	7	7	0	0	0	0	
U.S. Northeast Coast to China (0121)	979	42	5	0.74	3	0	0	1	1	1	0	0	0	0	
U.S. Northeast Coast to South East Asia (0122)	1,402	613	18	0.37	20	0	0	3	8	9	0	0	0	0	
U.S. Northeast Coast to Indian Sub-Continent (0123)	2,304	101	12	0.72	5	0	0	1	2	2	0	0	0	0	
U.S. Southeast Coast to Northern Europe (0208)	5,090	72	17	0.56	19	0	0	2	7	11	0	0	0	0	
U.S. Southeast Coast to Southern Europe (0209)	1,827	363	9	0.49	9	0	0	1	3	5	0	0	0	0	
U.S. Southeast Coast to Japan (0210)	2,474	719	19	0.41	19	0	0	3	8	8	0	0	0	0	
U.S. Southeast Coast to Australia/New Zealand (0211)	2,274	32	2	0.37	5	0	0	0	2	3	0	0	0	0	
U.S. Southeast Coast to Far East NIC's (0212)	6,159	1,233	25	0.62	10	0	0	2	4	4	0	0	0	0	
U.S. Southeast Coast to South America East Coast (0213)	8,962	2,255	94	0.34	67	0	0	9	25	34	0	0	0	0	
U.S. Southeast Coast to South America West Coast (0214)	689	560	29	0.07	9	0	0	1	3	5	0	0	0	0	
U.S. Southeast Coast to East Africa (0215)	5	0	0	0.77	1	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to West Africa (0216)	183	18	1	0.74	2	0	0	0	1	1	0	0	0	0	
U.S. Southeast Coast to South Africa (0217)	197	35	2	0.22	1	0	0	0	0	0	0	0	0	0	
U.S. Southeast Coast to Arabian Gulf (0218)	965	239	22	0.15	6	0	0	1	2	4	0	0	0	0	
U.S. Southeast Coast to Other Med (0219)	1,120	434	8	0.33	2	0	0	0	2	4	0	0	0	0	
U.S. Southeast Coast to China (0221)	2,131	77	8	0.76	2	0	0	0	1	1	0	0	0	0	
U.S. Southeast Coast to South East Asia (0222)	1,168	276	10	0.50	10	0	0	1	4	5	0	0	0	0	
U.S. Southeast Coast to Indian Sub-Continent (0223)	26,225	1,104	45	0.73	64	0	0	7	22	35	0	0	0	0	
U.S. Gulf Coast to Northern Europe (0308)	17,722	521	38	0.72	39	0	0	4	13	29	0	0	0	0	
U.S. Gulf Coast to Southern Europe (0309)	2,706	488	44	0.42	65	0	0	3	25	29	0	0	0	0	
U.S. Gulf Coast to Japan (0310)	17,430	218	27	0.81	37	0	0	6	25	4	0	0	0	0	
U.S. Gulf Coast to Australia/New Zealand (0311)	2,861	509	60	0.42	69	0	0	10	25	4	0	0	0	0	
U.S. Gulf Coast to Far East NIC's (0312)	22,612	2,995	227	0.27	162	0	0	17	44	17	0	0	0	0	
U.S. Gulf Coast to South America East Coast (0313)	4,597	560	36	0.42	16	0	0	6	15	9	0	0	0	0	
U.S. Gulf Coast to South America West Coast (0314)	1,771	10	1	0.70	4	0	0	1	5	10	0	0	0	0	
U.S. Gulf Coast to East Africa (0315)	3,992	802	11	0.23	8	0	0	1	2	3	0	0	0	0	
U.S. Gulf Coast to West Africa (0316)	20,091	736	48	0.05	18	0	0	0	1	1	0	0	0	0	
U.S. Gulf Coast to Arabian Gulf (0318)	10,214	482	65	0.61	17	0	0	2	6	10	0	0	0	0	
U.S. Gulf Coast to Other Med (0319)	6,476	159	22	0.58	26	0	0	1	3	4	0	0	0	0	
U.S. Gulf Coast to China (0321)	3,506	371	43	0.43	17	0	0	3	7	7	0	0	0	0	
U.S. Gulf Coast to Indian Sub-Continent (0323)	2,844	189	11	0.71	8	0	0	1	5	6	0	0	0	0	
U.S. Southwest Coast to Northern Europe (0408)	3,997	105	4	0.27	6	0	0	3	3	4	0	0	0	0	
U.S. Southwest Coast to Southern Europe (0409)	14,150	2,054	72	0.45	59	0	0	9	23	27	0	0	0	0	
U.S. Southwest Coast to Japan (0410)	1,928	175	10	0.44	6	0	0	1	2	3	0	0	0	0	
U.S. Southwest Coast to Australia/New Zealand (0411)	24,585	1,551	63	0.71	28	0	0	4	10	14	0	0	0	0	
U.S. Southwest Coast to Far East NIC's (0412)	5,211	720	47	0.36	63	0	0	10	25	28	0	0	0	0	
U.S. Southwest Coast to South America East Coast (0413)	161	344	17	0.04	28	0	0	3	9	15	0	0	0	0	
U.S. Southwest Coast to South America West Coast (0414)	6	4	0	0.12	1	0	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to East Africa (0415)	13	3	0	0.16	0	0	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to West Africa (0416)	159	5	0	0.73	1	0	0	0	0	0	0	0	0	0	

2000 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE
For All Shiptypes

Route	Vessel Capacity Required			Vessel Capacity Available from 1987 Fleet										Required Construction
	Cargo 000 Tons	Voyages	Ship Years	Capacity Util	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	
U.S. Southwest Coast to Arabian Gulf (04-16)	144	20	2	0.27	6	0	0	1	2	3	0	0	0	
U.S. Southwest Coast to Other Med (04-19)	65	50	1	0.30	13	0	3	1	2	5	0	0	4	
U.S. Southwest Coast to China (04-21)	955	82	8	0.35	5	0	1	1	2	2	0	0	13	
U.S. Southwest Coast to South East Asia (04-22)	3,994	488	23	0.36	10	0	0	0	1	6	0	0	2	
U.S. Southwest Coast to Indian Sub-Continent (04-23)	1,140	99	5	0.70	3	0	0	0	0	2	0	0	1	
U.S. Northwest Coast to Northern Europe (0508)	969	115	6	0.55	5	0	1	1	1	1	0	0	0	
U.S. Northwest Coast to Southern Europe (0509)	675	36	2	0.77	4	0	1	1	2	2	0	0	0	
U.S. Northwest Coast to Japan (0510)	39,953	2,720	130	0.68	81	0	8	1	30	43	0	0	49	
U.S. Northwest Coast to Australasia/New Zealand (0511)	1,527	80	4	0.57	5	0	1	2	2	11	0	0	0	
U.S. Northwest Coast to Far East NIC's (0512)	41,053	2,188	108	0.76	29	0	5	12	15	5	0	0	79	
U.S. Northwest Coast to South America East Coast (0513)	698	301	7	0.13	13	0	3	2	5	5	0	0	0	
U.S. Northwest Coast to South America West Coast (0514)	159	48	0	0.74	8	0	1	2	2	5	0	0	0	
U.S. Northwest Coast to East Africa (0515)	6	0	0	0.73	1	0	0	0	0	0	0	0	0	
U.S. Northwest Coast to West Africa (0516)	6	0	0	0.50	0	0	0	0	0	0	0	0	0	
U.S. Northwest Coast to South Africa (0517)	421	1	0	0.73	0	0	0	0	0	0	0	0	0	
U.S. Northwest Coast to Arabian Gulf (0518)	1,406	22	2	0.71	8	0	1	3	3	4	0	0	0	
U.S. Northwest Coast to Other Med (0519)	4,690	64	4	0.80	8	0	2	3	3	4	0	0	0	
U.S. Northwest Coast to China (0521)	2,400	160	10	0.71	11	0	3	5	5	1	0	0	0	
U.S. Northwest Coast to South East Asia (0522)	3,325	221	19	0.80	11	0	2	4	4	1	0	0	0	
U.S. Northwest Coast to Indian Sub-Continent (0523)	44,044	2,788	108	0.44	55	0	7	21	28	28	0	0	53	
Northern Europe to U.S. Northeast Coast (0801)	4,771	17	1	0.46	19	0	2	7	9	9	0	0	5	
Northern Europe to U.S. Southeast Coast (0802)	14,098	1,319	65	0.38	21	0	4	9	13	13	0	0	27	
Northern Europe to U.S. Gulf Coast (0803)	2,315	361	16	0.43	27	0	1	3	3	3	0	0	0	
Northern Europe to U.S. Southwest Coast (0804)	676	102	4	0.39	7	0	1	1	1	1	0	0	0	
Northern Europe to U.S. Northwest Coast (0805)	16,594	1,163	51	0.55	23	0	2	4	5	5	0	0	0	
Southern Europe to U.S. Northeast Coast (0901)	5,717	428	13	0.70	29	0	1	3	4	4	0	0	0	
Southern Europe to U.S. Southeast Coast (0902)	4,912	473	28	0.29	20	0	3	9	17	17	0	0	0	
Southern Europe to U.S. Gulf Coast (0903)	1,518	93	4	0.78	6	0	1	2	2	2	0	0	0	
Southern Europe to U.S. Southwest Coast (0904)	98	18	1	0.23	2	0	0	1	1	1	0	0	0	
Southern Europe to U.S. Northwest Coast (0905)	3,309	99	47	0.23	40	0	7	17	17	17	0	0	0	
Japan to U.S. Northeast Coast (1001)	1,465	748	23	0.20	26	0	4	11	11	11	0	0	0	
Japan to U.S. Southeast Coast (1002)	2,473	305	22	0.30	31	0	5	13	13	13	0	0	0	
Japan to U.S. Gulf Coast (1003)	7,625	2,054	60	0.23	55	0	9	22	22	22	0	0	0	
Japan to U.S. Southwest Coast (1004)	3,830	2,852	104	0.11	60	0	8	23	23	23	0	0	0	
Australia/New Zealand to U.S. Northeast Coast (1101)	3,624	190	8	0.79	5	0	1	2	2	2	0	0	0	
Australia/New Zealand to U.S. Southeast Coast (1102)	616	31	1	0.78	3	0	0	1	1	1	0	0	0	
Australia/New Zealand to U.S. Gulf Coast (1103)	9,501	331	18	0.72	7	0	1	3	3	3	0	0	0	
Australia/New Zealand to U.S. Southwest Coast (1104)	3,217	136	8	0.78	6	0	2	2	2	2	0	0	0	
Australia/New Zealand to U.S. Northwest Coast (1105)	3,517	97	7	0.78	9	0	2	4	4	4	0	0	0	
Far East NIC's to U.S. Northeast Coast (1201)	1,575	1,302	27	0.12	11	0	2	4	4	4	0	0	0	
Far East NIC's to U.S. Southeast Coast (1202)	917	1,170	20	0.11	7	0	2	3	3	3	0	0	0	
Far East NIC's to U.S. Gulf Coast (1203)	376	220	17	0.06	9	0	1	3	3	3	0	0	0	
Far East NIC's to U.S. Southwest Coast (1204)	10,522	1,246	55	0.38	29	0	5	11	11	11	0	0	0	
Far East NIC's to U.S. Northwest Coast (1205)	2,381	2,350	55	0.05	29	0	5	10	10	10	0	0	0	
South America East Coast to U.S. Northeast Coast (1301)	49,006	1,821	91	0.78	56	0	6	13	13	13	0	0	0	
South America East Coast to U.S. Southeast Coast (1302)	16,721	1,823	79	0.65	59	0	7	21	21	21	0	0	0	
South America East Coast to U.S. Gulf Coast (1303)	67,782	3,106	186	0.71	131	0	14	47	47	47	0	0	0	
South America East Coast to U.S. Southwest Coast (1304)	2,961	170	11	0.61	15	0	2	6	6	6	0	0	0	
South America East Coast to U.S. Northwest Coast (1305)	1,359	83	5	0.54	6	0	1	2	2	2	0	0	0	
South America West Coast to U.S. Northeast Coast (1401)	14,823	677	36	0.73	16	0	1	3	3	3	0	0	0	
South America West Coast to U.S. Southeast Coast (1402)	8,742	417	21	0.77	8	0	1	2	2	2	0	0	0	
South America West Coast to U.S. Gulf Coast (1403)	12,975	535	31	0.75	11	0	1	3	3	3	0	0	0	

2000 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE
For All Shipyards

4/24/90

Route	Vessel Capacity Required			Vessel Capacity Available from 1987 Fleet							Required Construction
	Cargo 000 Tons	Voyages	Ship Years	Ship Years	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years		
South America West Coast to U.S. Southwest Coast (1404)	2,621	291	16	0.64	24	0	2	7	14	0	
South America West Coast to U.S. Northwest Coast (1405)	30	39	1	0.06	5	0	0	1	3	0	
East Africa to U.S. Northeast Coast (1501)	30	5	0	0.27	3	0	0	1	2	0	
East Africa to U.S. Southeast Coast (1502)	2	4	0	0.25	1	0	0	0	0	0	
East Africa to U.S. Gulf Coast (1503)	40	4	0	0.33	2	0	0	0	0	0	
East Africa to U.S. Southwest Coast (1504)	3	3	0	0.09	0	0	0	0	0	0	
East Africa to U.S. Northwest Coast (1505)	0	0	0	0.00	0	0	0	0	0	0	
West Africa to U.S. Northeast Coast (1601)	31,173	305	15	0.85	12	0	1	3	8	7	
West Africa to U.S. Southeast Coast (1602)	13,451	125	9	0.85	6	0	1	1	5	3	
West Africa to U.S. Gulf Coast (1603)	35,618	418	30	0.75	16	0	0	6	12	14	
West Africa to U.S. Southwest Coast (1604)	85	4	0	0.77	1	0	0	0	0	0	
West Africa to U.S. Northwest Coast (1605)	1	0	0	0.77	0	0	0	0	0	0	
South Africa to U.S. Northeast Coast (1701)	12,931	134	11	0.84	3	0	0	1	2	0	
South Africa to U.S. Southeast Coast (1702)	5,816	26	1	0.85	0	0	0	0	0	0	
South Africa to U.S. Gulf Coast (1703)	17,421	175	13	0.84	3	0	0	1	2	0	
South Africa to U.S. Southwest Coast (1704)	31	1	0	0.79	1	0	0	0	0	0	
South Africa to U.S. Northwest Coast (1705)	6	0	0	0.77	0	0	0	0	0	0	
Arabian Gulf to U.S. Northeast Coast (1801)	23,279	485	40	0.77	9	0	1	2	5	32	
Arabian Gulf to U.S. Southeast Coast (1802)	11,904	507	47	0.74	4	0	0	1	3	43	
Arabian Gulf to U.S. Gulf Coast (1803)	99,787	1,093	109	0.64	14	0	1	3	11	95	
Arabian Gulf to U.S. Southwest Coast (1804)	57	7	2	0.64	1	0	0	1	1	0	
Arabian Gulf to U.S. Northwest Coast (1805)	27	7	1	0.18	3	0	0	1	1	0	
Other Med to U.S. Northeast Coast (1901)	13,585	657	33	0.53	10	0	0	1	6	23	
Other Med to U.S. Southeast Coast (1902)	1,482	133	2	0.68	2	0	0	1	1	0	
Other Med to U.S. Gulf Coast (1903)	18,798	628	40	0.62	14	0	1	5	8	26	
Other Med to U.S. Southwest Coast (1904)	115	18	1	0.76	3	0	0	1	1	0	
Other Med to U.S. Northwest Coast (1905)	0	6	0	0.00	1	0	0	0	0	0	
China to U.S. Northeast Coast (2101)	911	51	6	0.72	2	0	0	1	1	4	
China to U.S. Southeast Coast (2102)	149	36	3	0.18	1	0	0	0	0	2	
China to U.S. Gulf Coast (2103)	1,971	109	11	0.50	5	0	1	2	6	0	
China to U.S. Southwest Coast (2104)	113	69	4	0.50	7	0	1	3	10	2	
China to U.S. Northwest Coast (2105)	3,385	222	17	0.62	20	0	3	7	10	10	
South East Asia to U.S. Northeast Coast (2201)	1,592	666	22	0.64	10	0	2	4	4	2	
South East Asia to U.S. Southeast Coast (2202)	3,763	166	12	0.46	20	0	3	7	10	2	
South East Asia to U.S. Gulf Coast (2203)	10,117	358	23	0.75	17	0	3	7	8	6	
South East Asia to U.S. Southwest Coast (2204)	2,152	320	58	0.36	7	0	1	3	4	36	
South East Asia to U.S. Northwest Coast (2205)	701	58	5	0.35	2	0	0	1	2	0	
Indian Sub-Continent to U.S. Northeast Coast (2301)	505	20	2	0.65	1	0	0	0	0	0	
Indian Sub-Continent to U.S. Southeast Coast (2302)	2,218	229	28	0.69	7	0	1	2	3	21	
Indian Sub-Continent to U.S. Gulf Coast (2303)	75	61	6	0.04	2	0	0	1	1	4	
Indian Sub-Continent to U.S. Southwest Coast (2304)	7	82	9	0.00	2	0	0	1	1	7	
Indian Sub-Continent to U.S. Northwest Coast (2305)											
Total	1,082,951	76,710	3,984		2,481	0	315	910	1,257	1,503	

2010 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE

Route	Cargo		Ship		Vessel Capacity Available from 1987 Fleet							Required Construction
	000 Tons	Voyages	Years	Capacity Util	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years			
U.S. Northeast Coast to Northern Europe (0108)	44,369	2,563	105	0.52	0	0	0	0	0	0	105	
U.S. Northeast Coast to Southern Europe (0109)	25,264	1,303	59	0.59	0	0	0	0	0	0	59	
U.S. Northeast Coast to Japan (0110)	5,057	1,793	34	0.45	0	0	0	0	0	0	34	
U.S. Northeast Coast to Australia/New Zealand (0111)	5,353	172	14	0.10	0	0	0	0	0	0	14	
U.S. Northeast Coast to Far East NIC's (0112)	19,754	2,538	84	0.51	0	0	0	0	0	0	84	
U.S. Northeast Coast to South America East Coast (0113)	8,218	2,769	134	0.13	0	0	0	0	0	0	134	
U.S. Northeast Coast to South America West Coast (0114)	1,140	747	34	0.09	0	0	0	0	0	0	34	
U.S. Northeast Coast to East Africa (0115)	142	9	1	0.77	0	0	0	0	0	0	1	
U.S. Northeast Coast to West Africa (0116)	288	155	11	0.02	0	0	0	0	0	0	11	
U.S. Northeast Coast to South Africa (0117)	447	114	10	0.05	0	0	0	0	0	0	10	
U.S. Northeast Coast to Arabian Gulf (0118)	2,731	658	31	0.11	0	0	0	0	0	0	31	
U.S. Northeast Coast to Other Med (0119)	8,189	848	35	0.38	0	0	0	0	0	0	35	
U.S. Northeast Coast to China (0121)	1,857	74	9	0.77	0	0	0	0	0	0	9	
U.S. Northeast Coast to South East Asia (0122)	2,560	704	20	0.56	0	0	0	0	0	0	20	
U.S. Northeast Coast to Indian Sub-Continent (0123)	3,883	164	20	0.74	0	0	0	0	0	0	20	
U.S. Southeast Coast to Northern Europe (0208)	5,240	736	17	0.58	0	0	0	0	0	0	17	
U.S. Southeast Coast to Southern Europe (0209)	1,763	538	13	0.34	0	0	0	0	0	0	13	
U.S. Southeast Coast to Japan (0210)	2,452	719	18	0.43	0	0	0	0	0	0	18	
U.S. Southeast Coast to Australia/New Zealand (0211)	349	38	3	0.41	0	0	0	0	0	0	3	
U.S. Southeast Coast to Far East NIC's (0212)	11,062	2,259	45	0.63	0	0	0	0	0	0	45	
U.S. Southeast Coast to South America East Coast (0213)	12,999	3,016	123	0.99	0	0	0	0	0	0	123	
U.S. Southeast Coast to South America West Coast (0214)	5	0	0	0.77	0	0	0	0	0	0	0	
U.S. Southeast Coast to East Africa (0215)	169	16	1	0.66	0	0	0	0	0	0	1	
U.S. Southeast Coast to West Africa (0216)	284	35	2	0.28	0	0	0	0	0	0	2	
U.S. Southeast Coast to South Africa (0217)	1,471	329	30	0.17	0	0	0	0	0	0	30	
U.S. Southeast Coast to Arabian Gulf (0218)	1,547	635	11	0.34	0	0	0	0	0	0	11	
U.S. Southeast Coast to Other Med (0219)	3,721	136	15	0.77	0	0	0	0	0	0	15	
U.S. Southeast Coast to China (0221)	1,916	444	13	0.60	0	0	0	0	0	0	13	
U.S. Southeast Coast to South East Asia (0222)	766	71	8	0.40	0	0	0	0	0	0	8	
U.S. Southeast Coast to Indian Sub-Continent (0223)	24,779	1,055	59	0.72	0	0	0	0	0	0	59	
U.S. Gulf Coast to Northern Europe (0308)	8,190	397	32	0.42	0	0	0	0	0	0	32	
U.S. Gulf Coast to Southern Europe (0309)	12,132	4,259	41	0.81	0	0	0	0	0	0	41	
U.S. Gulf Coast to Japan (0310)	4,259	765	88	0.29	0	0	0	0	0	0	88	
U.S. Gulf Coast to Australia/New Zealand (0311)	23,107	3,316	256	0.67	0	0	0	0	0	0	256	
U.S. Gulf Coast to Far East NIC's (0312)	6,379	672	42	0.99	0	0	0	0	0	0	42	
U.S. Gulf Coast to South America East Coast (0313)	175	12	1	0.99	0	0	0	0	0	0	1	
U.S. Gulf Coast to South America West Coast (0314)	1,679	161	12	0.17	0	0	0	0	0	0	12	
U.S. Gulf Coast to East Africa (0315)	1,885	275	24	0.05	0	0	0	0	0	0	24	
U.S. Gulf Coast to West Africa (0316)	3,469	809	88	0.05	0	0	0	0	0	0	88	
U.S. Gulf Coast to South Africa (0317)	20,013	892	58	0.60	0	0	0	0	0	0	58	
U.S. Gulf Coast to Arabian Gulf (0318)	10,190	569	75	0.56	0	0	0	0	0	0	75	
U.S. Gulf Coast to Other Med (0319)	7,214	194	27	0.57	0	0	0	0	0	0	27	
U.S. Gulf Coast to China (0321)	6,176	491	63	0.52	0	0	0	0	0	0	63	
U.S. Gulf Coast to South East Asia (0322)	3,414	203	13	0.74	0	0	0	0	0	0	13	
U.S. Gulf Coast to Indian Sub-Continent (0323)	294	6	6	0.14	0	0	0	0	0	0	6	
U.S. Southwest Coast to Northern Europe (0408)	15,039	2,029	67	0.50	0	0	0	0	0	0	67	
U.S. Southwest Coast to Southern Europe (0409)	2,157	105	13	0.37	0	0	0	0	0	0	13	
U.S. Southwest Coast to Japan (0410)	39,828	2,727	105	0.70	0	0	0	0	0	0	105	
U.S. Southwest Coast to Australia/New Zealand (0411)	3,071	154	22	0.05	0	0	0	0	0	0	22	
U.S. Southwest Coast to Far East NIC's (0412)	14	28	0	0.44	0	0	0	0	0	0	0	
U.S. Southwest Coast to South America East Coast (0413)	214	7	7	0.77	0	0	0	0	0	0	7	
U.S. Southwest Coast to South America West Coast (0414)					0	0	0	0	0	0	0	
U.S. Southwest Coast to East Africa (0415)					0	0	0	0	0	0	0	
U.S. Southwest Coast to West Africa (0416)					0	0	0	0	0	0	0	
U.S. Southwest Coast to South Africa (0417)					0	0	0	0	0	0	0	

2010 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE
For All Shipyards

4/24/90

Route	Vessel Capacity Required			Vessel Capacity Available from 1987 Fleet							Required Construction
	Cargo 000 Tons	Voyages	Ship Years	Ship Years	Capacity Util	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	
U.S. Southwest Coast to Arabian Gulf (0418)	182	24	3	0	0.31	0	0	0	0	0	3
U.S. Southwest Coast to Other Med (0419)	113	76	1	0	0.26	0	0	0	0	0	1
U.S. Southwest Coast to China (0421)	1,401	127	12	0	0.38	0	0	0	0	0	12
U.S. Southwest Coast to South East Asia (0422)	6,665	791	31	0	0.44	0	0	0	0	0	31
U.S. Southwest Coast to Indian Sub-Continent (0423)	1,696	112	8	0	0.68	0	0	0	0	0	8
U.S. Northwest Coast to Northern Europe (0508)	1,040	198	7	0	0.47	0	0	0	0	0	7
U.S. Northwest Coast to Southern Europe (0509)	980	51	3	0	0.77	0	0	0	0	0	3
U.S. Northwest Coast to Japan (0510)	34,898	2,566	116	0	0.68	0	0	0	0	0	116
U.S. Northwest Coast to Australia/New Zealand (0511)	1,709	91	5	0	0.82	0	0	0	0	0	5
U.S. Northwest Coast to Far East NIC's (0512)	52,317	3,165	150	0	0.75	0	0	0	0	0	150
U.S. Northwest Coast to South America East Coast (0513)	166	49	0	0	0.75	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	15	0	0	0	0.75	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	10	0	0	0	0.73	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	169	1	0	0	0.50	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	530	35	4	0	0.70	0	0	0	0	0	4
U.S. Northwest Coast to Other Med (0519)	1,473	92	4	0	0.80	0	0	0	0	0	4
U.S. Northwest Coast to China (0521)	8,847	287	17	0	0.71	0	0	0	0	0	17
U.S. Northwest Coast to South East Asia (0522)	3,909	339	29	0	0.63	0	0	0	0	0	29
U.S. Northwest Coast to Indian Sub-Continent (0523)	3,510	105	13	0	0.80	0	0	0	0	0	13
Northern Europe to U.S. Northeast Coast (0801)	54,789	3,345	137	0	0.43	0	0	0	0	0	137
Northern Europe to U.S. Southeast Coast (0802)	5,378	815	18	0	0.48	0	0	0	0	0	18
Northern Europe to U.S. Gulf Coast (0803)	13,461	330	15	0	0.47	0	0	0	0	0	15
Northern Europe to U.S. Southwest Coast (0804)	2,570	116	4	0	0.39	0	0	0	0	0	4
Northern Europe to U.S. Northwest Coast (0805)	550	33	4	0	0.58	0	0	0	0	0	4
Southern Europe to U.S. Northeast Coast (0901)	20,538	1,484	65	0	0.79	0	0	0	0	0	65
Southern Europe to U.S. Southeast Coast (0902)	8,354	582	17	0	0.79	0	0	0	0	0	17
Southern Europe to U.S. Gulf Coast (0903)	5,679	395	21	0	0.45	0	0	0	0	0	21
Southern Europe to U.S. Southwest Coast (0904)	2,187	130	6	0	0.79	0	0	0	0	0	6
Southern Europe to U.S. Northwest Coast (0905)	118	25	2	0	0.19	0	0	0	0	0	2
Japan to U.S. Northeast Coast (1001)	3,230	905	40	0	0.25	0	0	0	0	0	40
Japan to U.S. Southeast Coast (1002)	1,583	264	17	0	0.29	0	0	0	0	0	17
Japan to U.S. Gulf Coast (1003)	8,184	2,118	56	0	0.26	0	0	0	0	0	56
Japan to U.S. Southwest Coast (1004)	4,495	180	97	0	0.13	0	0	0	0	0	97
Japan to U.S. Northwest Coast (1005)	4,952	2,819	97	0	0.80	0	0	0	0	0	97
Australia/New Zealand to U.S. Northeast Coast (1101)	642	34	1	0	0.77	0	0	0	0	0	1
Australia/New Zealand to U.S. Southeast Coast (1102)	14,006	509	27	0	0.71	0	0	0	0	0	27
Australia/New Zealand to U.S. Gulf Coast (1103)	4,152	178	11	0	0.77	0	0	0	0	0	11
Australia/New Zealand to U.S. Southwest Coast (1104)	3,418	109	8	0	0.71	0	0	0	0	0	8
Australia/New Zealand to U.S. Northwest Coast (1105)	2,048	231	45	0	0.09	0	0	0	0	0	45
Far East NIC's to U.S. Northeast Coast (1201)	1,147	125	35	0	0.08	0	0	0	0	0	35
Far East NIC's to U.S. Southeast Coast (1202)	373	365	29	0	0.04	0	0	0	0	0	29
Far East NIC's to U.S. Southwest Coast (1204)	13,477	2,202	95	0	0.28	0	0	0	0	0	95
Far East NIC's to U.S. Northwest Coast (1205)	3,133	3,390	126	0	0.05	0	0	0	0	0	126
South America East Coast to U.S. Northeast Coast (1301)	53,758	2,056	115	0	0.77	0	0	0	0	0	115
South America East Coast to U.S. Southeast Coast (1302)	18,328	2,449	102	0	0.56	0	0	0	0	0	102
South America East Coast to U.S. Gulf Coast (1303)	61,308	3,906	223	0	0.69	0	0	0	0	0	223
South America East Coast to U.S. Southwest Coast (1304)	2,595	131	9	0	0.73	0	0	0	0	0	9
South America East Coast to U.S. Northwest Coast (1305)	1,067	107	6	0	0.38	0	0	0	0	0	6
South America West Coast to U.S. Northeast Coast (1401)	17,898	814	43	0	0.72	0	0	0	0	0	43
South America West Coast to U.S. Southeast Coast (1402)	10,327	466	23	0	0.76	0	0	0	0	0	23
South America West Coast to U.S. Gulf Coast (1403)	18,243	705	42	0	0.76	0	0	0	0	0	42

2010 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE
For All Shipyards

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Route	Vessel Capacity Required			Vessel Capacity Available from 1987 Fleet					Required Construction
	Cargo 000 Tons	Voyages	Ship Years	Capacity Util	0-4 Years	5-9 Years	10-14 Years	15-19 Years	
South America West Coast to U.S. Southwest Coast (1404)	3,523	368	21	0.65	0	0	0	0	21
South America West Coast to U.S. Northwest Coast (1405)	31	42	1	0.06	0	0	0	0	1
East Africa to U.S. Northeast Coast (1501)	19	8	1	0.11	0	0	0	0	1
East Africa to U.S. Southeast Coast (1502)	1	0	0	0.09	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	40	5	0	0.34	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	1	1	0	0.09	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0.00	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	42,277	418	28	0.85	0	0	0	0	26
West Africa to U.S. Southeast Coast (1602)	18,633	165	12	0.85	0	0	0	0	12
West Africa to U.S. Gulf Coast (1603)	44,300	477	34	0.79	0	0	0	0	34
West Africa to U.S. Southwest Coast (1604)	108	6	0	0.64	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	1	0	0	0.77	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	19,853	198	15	0.84	0	0	0	0	15
South Africa to U.S. Southeast Coast (1702)	8,944	35	1	0.85	0	0	0	0	1
South Africa to U.S. Gulf Coast (1703)	28,663	246	18	0.85	0	0	0	0	18
South Africa to U.S. Southwest Coast (1704)	36	1	0	0.79	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	5	0	0	0.65	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	30,689	635	51	0.76	0	0	0	0	51
Arabian Gulf to U.S. Southeast Coast (1802)	15,265	671	61	0.74	0	0	0	0	61
Arabian Gulf to U.S. Southwest Coast (1803)	124,984	975	97	0.84	0	0	0	0	97
Arabian Gulf to U.S. Southwest Coast (1804)	571	21	3	0.82	0	0	0	0	3
Arabian Gulf to U.S. Northwest Coast (1805)	27	10	1	0.13	0	0	0	0	1
Other Med to U.S. Northeast Coast (1901)	19,124	860	42	0.58	0	0	0	0	42
Other Med to U.S. Southeast Coast (1902)	2,026	191	3	0.68	0	0	0	0	3
Other Med to U.S. Southwest Coast (1903)	26,055	828	53	0.66	0	0	0	0	53
Other Med to U.S. Gulf Coast (1904)	177	28	1	0.77	0	0	0	0	1
Other Med to U.S. Southwest Coast (1905)	0	8	0	0.00	0	0	0	0	0
China to U.S. Northeast Coast (2101)	637	41	5	0.62	0	0	0	0	5
China to U.S. Southeast Coast (2102)	214	62	5	0.74	0	0	0	0	5
China to U.S. Southwest Coast (2103)	1,689	114	11	0.49	0	0	0	0	11
China to U.S. Northwest Coast (2104)	830	91	5	0.42	0	0	0	0	5
China to U.S. Gulf Coast (2105)	129	403	31	0.01	0	0	0	0	31
South East Asia to U.S. Northeast Coast (2201)	3,719	748	24	0.58	0	0	0	0	24
South East Asia to U.S. Southeast Coast (2202)	1,720	433	15	0.36	0	0	0	0	15
South East Asia to U.S. Gulf Coast (2203)	3,955	520	23	0.35	0	0	0	0	23
South East Asia to U.S. Southwest Coast (2204)	11,424	206	31	0.69	0	0	0	0	31
South East Asia to U.S. Northwest Coast (2205)	2,510	490	54	0.29	0	0	0	0	54
Indian Sub-Continent to U.S. Northeast Coast (2301)	615	95	7	0.26	0	0	0	0	7
Indian Sub-Continent to U.S. Southeast Coast (2302)	580	30	2	0.57	0	0	0	0	2
Indian Sub-Continent to U.S. Southwest Coast (2304)	2,482	296	35	0.39	0	0	0	0	35
Indian Sub-Continent to U.S. Northwest Coast (2305)	86	101	10	0.05	0	0	0	0	10
Indian Sub-Continent to U.S. Gulf Coast (2303)	8	96	10	0.00	0	0	0	0	10
Total	1,284,004	95,226	4,724		0	0	0	0	4,724

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2020 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE
For All Shipyards

Route	Vessel Capacity Required			Vessel Capacity Available from 1987 Fleet										Required Construction
	000 Tons	Voyages	Ship Years	Ship Years	Util	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years		40-44 Years
U.S. Northeast Coast to Northern Europe (0108)	51,652	2,761	127	0	0.50	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Southern Europe (0109)	25,290	1,601	68	0	0.55	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Japan (0110)	3,751	808	28	0	0.43	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	7,709	231	20	0	0.10	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	27,611	4,030	122	0	0.50	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	9,177	3,182	153	0	0.14	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America West Coast (0114)	1,602	856	39	0	0.11	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	205	13	2	0	0.77	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	408	209	14	0	0.02	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	573	196	13	0	0.04	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	3,963	601	40	0	0.13	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	6,004	1,033	38	0	0.25	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (0121)	3,122	1,233	16	0	0.79	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	4,325	963	25	0	0.70	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	5,632	232	28	0	0.76	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Northern Europe (0208)	5,341	744	17	0	0.59	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	1,662	739	17	0	0.24	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	2,494	709	17	0	0.46	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	462	44	3	0	0.49	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	17,868	3,715	71	0	0.64	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	16,801	4,306	169	0	0.44	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	1,357	650	34	0	0.11	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	4	0	0	0	0.77	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	110	16	1	0	0.44	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	270	38	2	0	0.26	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	2,186	445	40	0	0.19	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	1,974	936	14	0	0.33	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	5,931	220	24	0	0.77	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	2,808	692	17	0	0.63	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	1,054	89	9	0	0.74	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Southern Europe (0309)	7,055	412	29	0	0.58	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Japan (0310)	7,965	333	26	0	0.62	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	6,516	485	61	0	0.43	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	33,090	1,128	128	0	0.81	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	28,390	4,058	321	0	0.34	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America West Coast (0314)	9,665	841	53	0	0.55	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	141	12	1	0	0.55	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	1,520	171	13	0	0.13	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	917	371	32	0	0.02	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Arabian Gulf (0318)	4,148	1,002	108	0	0.05	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	16,218	1,141	75	0	0.43	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to China (0321)	8,754	640	82	0	0.48	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	6,628	221	30	0	0.53	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	10,052	642	82	0	0.59	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Northern Europe (0408)	4,149	227	15	0	0.76	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	258	191	7	0	0.10	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	15,999	2,122	61	0	0.56	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	2,669	297	16	0	0.34	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	63,168	3,591	136	0	0.85	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	1,952	516	28	0	0.23	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	1,150	524	26	0	0.02	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	26	2	0	0	0.71	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	47	7	0	0	0.28	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	187	7	0	0	0.68	0	0	0	0	0	0	0	0	0

2020 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE
For All Shiptypes

4/26/90

Route	Vessel Capacity Required			Vessel Capacity Available from 1987 Fleet					Required Construction
	Cargo 000 Tons	Voyages	Ship Years	Ship Years	0-4 Years	5-9 Years	10-14 Years	15-19 Years		20-24 Years
U.S. Southwest Coast to Arabian Gulf (0418)	197	27	3	0	0	0	0	0	3
U.S. Southwest Coast to Other Med (0419)	136	120	2	0	0	0	0	0	2
U.S. Southwest Coast to China (0421)	2,009	193	19	0	0	0	0	0	19
U.S. Southwest Coast to South East Asia (0422)	10,611	1,252	43	0	0	0	0	0	43
U.S. Southwest Coast to Indian Sub-Continent (0423)	2,091	162	10	0	0	0	0	0	10
U.S. Northwest Coast to Northern Europe (0508)	1,108	164	9	0	0	0	0	0	9
U.S. Northwest Coast to Southern Europe (0509)	1,202	67	4	0	0	0	0	0	4
U.S. Northwest Coast to Japan (0510)	27,808	2,315	96	0	0	0	0	0	96
U.S. Northwest Coast to Australia/New Zealand (0511)	1,990	100	5	0	0	0	0	0	5
U.S. Northwest Coast to Far East NIC's (0512)	63,888	4,310	196	0	0	0	0	0	196
U.S. Northwest Coast to South America East Coast (0513)	195	614	6	0	0	0	0	0	6
U.S. Northwest Coast to South America West Coast (0514)	29	55	1	0	0	0	0	0	1
U.S. Northwest Coast to West Africa (0515)	16	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	159	1	0	0	0	0	0	0	0
U.S. Northwest Coast to Arablan Gulf (0518)	860	54	5	0	0	0	0	0	5
U.S. Northwest Coast to Other Med (0519)	1,337	129	4	0	0	0	0	0	4
U.S. Northwest Coast to China (0521)	13,068	425	25	0	0	0	0	0	25
U.S. Northwest Coast to South East Asia (0522)	5,757	449	37	0	0	0	0	0	37
U.S. Northwest Coast to Indian Sub-Continent (0523)	2,806	84	10	0	0	0	0	0	10
Northern Europe to U.S. Northeast Coast (0801)	70,454	4,081	172	0	0	0	0	0	172
Northern Europe to U.S. Southeast Coast (0802)	13,323	1,166	52	0	0	0	0	0	52
Northern Europe to U.S. Gulf Coast (0803)	2,580	313	14	0	0	0	0	0	14
Northern Europe to U.S. Southwest Coast (0804)	660	130	5	0	0	0	0	0	5
Northern Europe to U.S. Northwest Coast (0805)	24,882	1,861	81	0	0	0	0	0	81
Southern Europe to U.S. Northwest Coast (0901)	10,944	792	22	0	0	0	0	0	22
Southern Europe to U.S. Southeast Coast (0902)	6,533	419	21	0	0	0	0	0	21
Southern Europe to U.S. Gulf Coast (0903)	2,890	173	7	0	0	0	0	0	7
Southern Europe to U.S. Southwest Coast (0904)	135	32	2	0	0	0	0	0	2
Southern Europe to U.S. Northeast Coast (0905)	3,568	919	36	0	0	0	0	0	36
Japan to U.S. Northeast Coast (1001)	1,901	720	18	0	0	0	0	0	18
Japan to U.S. Southeast Coast (1002)	1,786	223	15	0	0	0	0	0	15
Japan to U.S. Southwest Coast (1004)	9,800	2,183	53	0	0	0	0	0	53
Japan to U.S. Northeast Coast (1005)	5,703	2,681	84	0	0	0	0	0	84
Australia/New Zealand to U.S. Northeast Coast (1101)	7,182	253	14	0	0	0	0	0	14
Australia/New Zealand to U.S. Southeast Coast (1102)	619	36	2	0	0	0	0	0	2
Australia/New Zealand to U.S. Gulf Coast (1103)	19,696	748	39	0	0	0	0	0	39
Australia/New Zealand to U.S. Southwest Coast (1104)	5,610	233	14	0	0	0	0	0	14
Australia/New Zealand to U.S. Northwest Coast (1105)	3,019	114	8	0	0	0	0	0	8
Far East NIC's to U.S. Northeast Coast (1201)	2,708	3,692	68	0	0	0	0	0	68
Far East NIC's to U.S. Southeast Coast (1202)	1,445	3,470	55	0	0	0	0	0	55
Far East NIC's to U.S. Gulf Coast (1203)	378	571	47	0	0	0	0	0	47
Far East NIC's to U.S. Southwest Coast (1204)	18,164	2,876	128	0	0	0	0	0	128
Far East NIC's to U.S. Northwest Coast (1205)	4,287	4,583	162	0	0	0	0	0	162
South America East Coast to U.S. Northeast Coast (1301)	59,072	2,399	133	0	0	0	0	0	133
South America East Coast to U.S. Southeast Coast (1302)	20,354	3,456	138	0	0	0	0	0	138
South America East Coast to U.S. Gulf Coast (1303)	56,162	5,356	293	0	0	0	0	0	293
South America East Coast to U.S. Southwest Coast (1304)	2,467	119	8	0	0	0	0	0	8
South America East Coast to U.S. Northwest Coast (1305)	944	154	8	0	0	0	0	0	8
South America West Coast to U.S. Northeast Coast (1401)	20,318	931	49	0	0	0	0	0	49
South America West Coast to U.S. Southeast Coast (1402)	11,573	516	28	0	0	0	0	0	28
South America West Coast to U.S. Gulf Coast (1403)	23,199	923	55	0	0	0	0	0	55

2020 COMPARISON OF VESSEL CAPACITY REQUIRED AND VESSEL CAPACITY AVAILABLE
For All Shipyards

4/24/90

Route	Vessel Capacity Required			Vessel Capacity Available from 1987 Fleet						Required Construction
	Cargo 000 Tons	Voyages	Ship Years	Ship Years	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	
South America West Coast to U.S. Southwest Coast (1404)	4,318	432	25	0	0	0	0	0	0	25
South America West Coast to U.S. Northwest Coast (1405)	31	49	1	0	0	0	0	0	0	1
East Africa to U.S. Northeast Coast (1501)	9	12	0	0	0	0	0	0	0	1
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	36	5	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	53,701	547	34	0	0	0	0	0	0	34
West Africa to U.S. Southeast Coast (1602)	23,761	209	15	0	0	0	0	0	0	15
West Africa to U.S. Gulf Coast (1603)	55,188	534	38	0	0	0	0	0	0	38
West Africa to U.S. Southwest Coast (1604)	138	8	1	0	0	0	0	0	0	1
West Africa to U.S. Northwest Coast (1605)	1	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	27,879	271	21	0	0	0	0	0	0	21
South Africa to U.S. Southeast Coast (1702)	12,538	45	1	0	0	0	0	0	0	1
South Africa to U.S. Gulf Coast (1703)	37,517	332	24	0	0	0	0	0	0	24
South Africa to U.S. Southwest Coast (1704)	4	2	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	4	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	39,071	819	65	0	0	0	0	0	0	65
Arabian Gulf to U.S. Southeast Coast (1802)	19,475	860	79	0	0	0	0	0	0	79
Arabian Gulf to U.S. Gulf Coast (1803)	158,849	1,115	111	0	0	0	0	0	0	111
Arabian Gulf to U.S. Southwest Coast (1804)	57	23	3	0	0	0	0	0	0	3
Arabian Gulf to U.S. Northwest Coast (1805)	27	15	2	0	0	0	0	0	0	2
Other Med to U.S. Northeast Coast (1901)	25,772	1,119	54	0	0	0	0	0	0	54
Other Med to U.S. Southeast Coast (1902)	2,701	119	4	0	0	0	0	0	0	4
Other Med to U.S. Gulf Coast (1903)	34,869	1,119	71	0	0	0	0	0	0	71
Other Med to U.S. Southwest Coast (1904)	280	44	1	0	0	0	0	0	0	1
Other Med to U.S. Northwest Coast (1905)	0	10	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	467	39	4	0	0	0	0	0	0	4
China to U.S. Southeast Coast (2102)	298	99	8	0	0	0	0	0	0	8
China to U.S. Gulf Coast (2103)	1,665	133	13	0	0	0	0	0	0	13
China to U.S. Southwest Coast (2104)	157	128	7	0	0	0	0	0	0	7
China to U.S. Northwest Coast (2105)	781	604	46	0	0	0	0	0	0	46
South East Asia to U.S. Northeast Coast (2201)	4,056	982	29	0	0	0	0	0	0	29
South East Asia to U.S. Southeast Coast (2202)	1,930	657	19	0	0	0	0	0	0	19
South East Asia to U.S. Gulf Coast (2203)	4,329	247	24	0	0	0	0	0	0	24
South East Asia to U.S. Southwest Coast (2204)	13,453	758	42	0	0	0	0	0	0	42
South East Asia to U.S. Northwest Coast (2205)	3,063	608	67	0	0	0	0	0	0	67
Indian Sub-Continent to U.S. Northeast Coast (2301)	921	138	11	0	0	0	0	0	0	11
Indian Sub-Continent to U.S. Southeast Coast (2302)	637	43	3	0	0	0	0	0	0	3
Indian Sub-Continent to U.S. Gulf Coast (2303)	2,663	380	44	0	0	0	0	0	0	44
Indian Sub-Continent to U.S. Southwest Coast (2304)	96	143	13	0	0	0	0	0	0	13
Indian Sub-Continent to U.S. Northwest Coast (2305)	10	94	10	0	0	0	0	0	0	10
Total	1,547,829	120,534	5,776	0	0	0	0	0	0	5,776

Northeast Coast

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For All Shiptypes
On U.S. Northeast Coast Routes
1995

ROUTE	1987			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0106)	71	16,432	40,632	79	29,753	56,924	91	35,547	66,907	111	43,177	83,216
Northern Europe to U.S. Northeast Coast (0801)	83	29,881	56,357	95	36,375	81,375	111	40,540	96,221	141	51,548	123,331
U.S. Northeast Coast to Southern Europe (0105)	40	14,730	28,944	41	13,782	26,359	47	16,369	30,383	56	20,354	44,352
Southern Europe to U.S. Northeast Coast (0901)	40	6,372	13,063	44	8,211	16,395	43	8,030	15,983	61	20,364	35,421
U.S. Northeast Coast to Japan (0110)	47	6,543	13,063	46	3,133	6,665	45	3,348	15,412	26	3,788	11,341
Japan to U.S. Northeast Coast (1001)	46	2,668	5,780	46	3,133	3,456	45	3,260	5,529	31	3,998	8,790
U.S. Northeast Coast to Australia/New Zealand (0111)	11	187	2,759	8	294	3,456	9	4,401	7,719	18	7,431	10,651
Australia/New Zealand to U.S. Northeast Coast (1101)	8	1,414	2,759	6	3,234	4,069	6	3,428	4,312	12	7,195	9,021
U.S. Northeast Coast to Far East NIC's (0112)	38	5,074	6,981	66	12,448	22,067	94	16,540	29,457	255	37,886	68,655
Far East NIC's to U.S. Northeast Coast (1201)	14	744	2,801	19	1,365	12,480	28	8,397	18,214	72	2,724	48,329
U.S. Northeast Coast to South America East Coast (0113)	111	6,857	46,968	123	8,550	64,235	129	8,397	66,629	163	9,375	76,915
South America East Coast to U.S. Northeast Coast (1301)	84	41,158	55,194	96	46,571	59,407	102	49,162	63,203	132	59,237	76,250
U.S. Northeast Coast to South America West Coast (0114)	19	488	5,833	26	12,594	17,206	36	14,833	20,213	34	17,904	24,008
South America West Coast to U.S. Northeast Coast (1401)	22	6,341	1,785	33	82	81	36	89	117	43	142	186
U.S. Northeast Coast to East Africa (0115)	3	68	37	0	0	84	1	30	113	1	19	171
East Africa to U.S. Northeast Coast (1501)	4	54	3,430	0	167	8,105	0	198	9,949	1	288	13,515
U.S. Northeast Coast to West Africa (0116)	9	200	9,279	6	2,299	29,793	7	31,123	36,618	11	409	49,690
West Africa to U.S. Northeast Coast (1601)	20	14,713	24,904	16	2,299	4,495	19	3,308	6,348	26	53,565	63,127
U.S. Northeast Coast to South Africa (0117)	7	3,189	4,423	8	9,174	10,873	11	12,958	15,414	13	27,904	33,690
South Africa to U.S. Northeast Coast (1701)	6	3,352	7,871	8	1,273	13,788	22	1,671	17,607	21	4,005	31,287
U.S. Northeast Coast to Arabian Gulf (0118)	19	4,714	6,212	18	18,495	23,734	39	23,514	30,046	40	23,982	31,119
Arabian Gulf to U.S. Northeast Coast (1801)	14	4,806	11,132	31	9,628	18,851	31	9,644	20,999	62	39,106	51,636
U.S. Northeast Coast to Other Med (0119)	19	8,414	11,178	27	10,487	21,351	31	13,610	25,571	36	6,174	21,581
Other Med to U.S. Northeast Coast (1901)	16	8,414	11,178	26	10,487	21,351	31	13,610	25,571	51	25,829	41,618
U.S. Northeast Coast to China (0121)	4	270	609	4	641	979	5	979	1,324	4	3,122	3,976
China to U.S. Northeast Coast (2101)	2	419	958	7	1,689	2,253	6	1,787	2,392	16	1,696	2,404
U.S. Northeast Coast to South East Asia (0122)	37	407	11,555	15	990	3,258	15	1,426	3,599	22	4,401	6,267
South East Asia to U.S. Northeast Coast (2201)	29	2,418	8,070	18	3,164	4,691	18	3,210	5,049	28	5,133	8,575
U.S. Northeast Coast to Indian Sub-Continent (0123)	8	974	1,951	8	1,501	2,133	12	2,304	3,192	28	5,632	7,438
Indian Sub-Continent to U.S. Northeast Coast (2301)	3	104	1,020	3	696	1,799	5	1,070	2,475	11	1,433	5,075
Total - U.S. Northeast Coast Routes	833	180,752	406,881	913	282,983	570,547	1,044	326,983	661,174	1,296	402,163	819,337

Total - US Routes

3,755 598,926 1,565,968 3,494 947,705 1,882,644 4,051 1,104,854 2,191,823 4,870 1,328,408 2,664,842 6,128 1,623,171 3,310,127

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipoype General Cargo - Greater than 10,000 DWT (AA)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	2	237	536	2	491	642	3	549	718	3	593	776	3	587	767
Northern Europe to U.S. Northeast Coast (0801)	3	503	744	3	550	1,112	3	556	1,244	4	509	1,344	4	493	1,330
U.S. Northeast Coast to Southern Europe (0109)	2	523	744	2	575	1,085	3	595	1,316	4	519	1,927	6	488	2,734
Southern Europe to U.S. Northeast Coast (0901)	3	956	956	4	1,201	1,570	4	1,457	1,904	6	2,133	2,788	9	3,026	3,956
U.S. Northeast Coast to Japan (0110)	3	34	83	1	97	127	1	107	139	1	153	200	2	213	278
Japan to U.S. Northeast Coast (1001)	1	304	323	2	216	672	2	218	738	3	168	1,062	5	174	1,472
U.S. Northeast Coast to Australia/New Zealand (0111)	1	9	59	0	17	83	1	25	93	1	39	107	1	56	114
Australia/New Zealand to U.S. Northeast Coast (1101)	0	5	5	0	10	13	0	11	14	0	13	17	0	18	18
U.S. Northeast Coast to Far East NIC's (0112)	1	27	65	1	101	132	1	154	201	1	277	362	3	434	548
Far East NIC's to U.S. Northeast Coast (1201)	1	72	111	1	47	419	2	53	658	2	61	1,146	4	72	1,799
U.S. Northeast Coast to South America East Coast (0113)	12	217	2,430	7	327	1,956	7	502	1,927	7	823	1,929	7	1,219	2,053
South America East Coast to U.S. Northeast Coast (1301)	7	1,077	2,098	4	962	1,258	4	948	1,239	4	273	1,240	4	1,010	1,320
U.S. Northeast Coast to South America West Coast (0114)	2	157	887	1	141	184	1	181	236	1	35	356	2	28	339
South America West Coast to U.S. Northeast Coast (1401)	4	115	72	1	71	246	1	54	315	2	76	476	2	28	321
U.S. Northeast Coast to East Africa (0115)	0	56	66	0	48	65	0	72	94	1	120	154	2	172	225
East Africa to U.S. Northeast Coast (1501)	1	34	64	0	22	65	0	20	99	1	14	165	1	7	237
U.S. Northeast Coast to West Africa (0116)	2	104	282	1	90	117	1	113	147	2	184	241	2	269	351
West Africa to U.S. Northeast Coast (1601)	2	237	448	1	193	262	1	246	329	2	327	538	3	464	786
U.S. Northeast Coast to South Africa (0117)	3	161	471	1	165	242	1	235	307	2	342	446	3	436	569
South Africa to U.S. Northeast Coast (1701)	1	65	510	0	113	150	1	116	190	2	108	277	1	111	353
U.S. Northeast Coast to Arabian Gulf (0118)	3	65	149	0	81	107	1	111	145	1	209	273	2	352	461
Arabian Gulf to U.S. Northeast Coast (1801)	1	3	149	0	6	50	0	8	70	0	10	131	0	14	221
U.S. Northeast Coast to Other Med (0119)	4	583	887	2	995	1,297	6	1,293	1,600	6	1,260	1,647	4	964	1,260
Other Med to U.S. Northeast Coast (1901)	2	60	575	2	70	849	3	69	1,106	3	79	1,078	2	634	829
U.S. Northeast Coast to China (0121)	1	65	84	1	152	199	0	37	300	3	403	527	4	69	90
China to U.S. Northeast Coast (2101)	0	16	16	0	29	38	0	37	49	0	51	67	0	69	99
U.S. Northeast Coast to South East Asia (0122)	2	34	345	1	94	122	1	140	182	2	255	333	4	431	563
South East Asia to U.S. Northeast Coast (2201)	2	126	264	1	60	206	1	68	307	2	80	561	3	99	947
U.S. Northeast Coast to Indian Sub-Continent (0123)	2	208	364	1	212	278	2	333	435	4	579	757	6	855	1,117
Indian Sub-Continent to U.S. Northeast Coast (2301)	1	11	214	1	59	333	1	82	521	2	113	907	3	148	1,359
Total - U.S. Northeast Coast Routes	64	6,160	14,303	45	7,211	13,875	54	8,580	16,695	71	10,677	21,855	92	13,343	27,842
Total - US Routes	337	23,476	71,839	209	28,449	56,451	263	35,612	71,071	379	47,876	102,581	525	63,438	141,863

3/16/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype General Cargo - (Less than 10,000 DWT (AG)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	6	149	586	3	208	325	3	236	350	4	265	393	4	270	399
Northern Europe to U.S. Northeast Coast (0801)	1	309	637	3	237	350	3	239	378	4	221	424	4	216	431
U.S. Northeast Coast to Southern Europe (0109)	2	24	28	1	25	37	1	28	41	1	31	46	1	31	46
Southern Europe to U.S. Northeast Coast (0901)	2	23	125	2	17	209	2	22	231	2	28	255	2	37	258
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	1	2	40	0	3	4	0	4	6	0	7	10	0	10	14
Australia/New Zealand to U.S. Northeast Coast (1101)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to U.S. Northeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	3	3	7	0	6	9	0	10	15	1	20	29	0	34	50
U.S. Northeast Coast to South America East Coast (0113)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northeast Coast (1301)	7	98	550	7	121	595	7	175	627	8	325	685	9	550	815
U.S. Northeast Coast to South America West Coast (0114)	7	308	664	6	333	493	7	350	519	7	393	567	8	424	675
South America West Coast to U.S. Northeast Coast (1401)	1	31	113	0	17	25	0	21	31	0	31	46	1	45	67
U.S. Northeast Coast to East Africa (0115)	1	46	158	0	16	28	0	11	32	0	6	47	1	4	69
East Africa to U.S. Northeast Coast (1501)	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0*16)	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (1601)	1	9	59	0	0	11	0	0	16	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	48	0	6	9	0	9	13	0	13	24	0	37	37
South Africa to U.S. Northeast Coast (1701)	0	3	19	0	2	3	0	3	4	0	4	6	0	20	30
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	17	0	0	2	0	0	3	0	4	6	0	5	8
Arabian Gulf to U.S. Northeast Coast (1801)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northeast Coast (1901)	1	5	68	1	2	78	0	4	6	0	2	33	0	4	12
U.S. Northeast Coast to China (0121)	0	4	0	0	0	0	0	3	52	0	3	4	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	8	14	0	3	4	0	3	4	0	3	5	0	4	6
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	5	8	0	6	9	0	6	9	0	7	11	0	8	11
Total - U.S. Northeast Coast Routes	35	1,029	3,167	24	1,014	2,206	25	1,133	2,348	28	1,363	2,623	32	1,684	2,969
Total - US Routes	184	3,657	15,320	75	3,169	6,058	89	3,734	7,111	129	5,029	10,024	185	6,790	14,132

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Container - Greater than 10,000 DWT (AC)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	5	1,490	2,593	7	2,453	4,093	8	2,575	4,215	7	2,756	4,068	7	3,071	4,124
Northern Europe to U.S. Northeast Coast (0801)	7	4,449	4,449	11	5,364	7,012	11	5,525	7,222	11	5,332	6,970	11	5,406	7,066
U.S. Northeast Coast to Southern Europe (0109)	3	530	1,477	4	2,076	3,076	5	1,023	2,412	7	1,159	3,206	9	1,273	4,391
Southern Europe to U.S. Northeast Coast (0901)	6	1,719	2,162	7	2,322	3,056	9	2,698	3,527	11	3,586	4,688	16	4,912	6,421
U.S. Northeast Coast to Japan (0110)	3	267	1,321	2	610	798	2	704	921	3	1,001	1,308	4	1,375	1,758
Japan to U.S. Northeast Coast (1001)	5	751	2,012	3	695	1,213	3	772	1,400	4	995	1,988	4	1,392	2,133
U.S. Northeast Coast to Australia/New Zealand (0111)	2	129	644	3	202	822	3	274	851	4	366	959	4	482	1,112
Australia/New Zealand to U.S. Northeast Coast (1101)	5	454	545	3	533	722	3	552	722	3	622	813	4	722	943
U.S. Northeast Coast to Far East NIC's (0112)	2	1,112	1,962	3	2,849	3,724	15	4,642	6,068	27	8,649	11,306	45	14,323	18,723
Far East NIC's to U.S. Northeast Coast (1201)	4	1,178	1,490	7	868	2,830	12	997	4,610	22	1,212	8,590	36	1,521	14,224
U.S. Northeast Coast to South America East Coast (0113)	4	1,117	1,344	8	296	3,429	9	503	3,546	10	762	4,166	12	1,158	4,916
South America East Coast to U.S. Northeast Coast (1301)	4	1,057	1,333	9	2,112	2,761	9	2,184	2,856	10	2,567	3,355	12	3,028	3,959
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	24	32	0	31	41	0	47	62	0	71	95
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	36	47	0	29	38	0	14	19	0	7	10
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	8	11	0	13	17	0	21	28	0	30	40
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	4	5	0	3	5	0	2	3	0	1	2
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	16	20	0	20	26	0	32	42	0	47	61
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	69	90	0	93	122	0	139	182	0	217	284
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	33	43	0	41	54	0	60	79	0	77	100
South Africa to U.S. Northeast Coast (1701)	0	12	15	0	10	10	0	9	9	0	7	7	0	6	6
U.S. Northeast Coast to Arabian Gulf (0118)	2	190	447	2	342	474	2	469	613	4	736	962	6	1,048	1,370
Arabian Gulf to U.S. Northeast Coast (1801)	2	35	435	2	34	538	2	40	697	4	35	504	5	30	370
U.S. Northeast Coast to Other Med (0119)	1	130	481	1	234	663	2	353	805	2	575	1,094	3	855	1,557
Other Med to U.S. Northeast Coast (1901)	1	306	367	2	388	507	2	470	615	3	641	1,096	4	914	1,565
U.S. Northeast Coast to China (0121)	0	0	0	0	27	35	0	41	53	0	71	87	0	112	1,195
China to U.S. Northeast Coast (2101)	1	0	404	0	29	37	0	38	49	0	38	50	0	42	55
U.S. Northeast Coast to South East Asia (0122)	2	274	790	5	503	2,075	6	754	2,264	6	1,446	2,528	9	2,630	3,437
South East Asia to U.S. Northeast Coast (2201)	2	750	750	6	1,507	1,970	6	1,645	2,150	7	1,836	2,400	9	2,015	3,264
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	37	49	0	59	77	0	102	133	0	151	197
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	38	50	0	46	60	0	54	71	0	64	83
Total - U.S. Northeast Coast Routes	62	14,951	25,038	92	22,562	39,178	109	26,604	46,087	147	34,861	61,167	204	46,925	83,966
Total - US Routes	270	59,769	113,874	361	94,266	161,096	459	118,600	206,262	668	166,153	300,329	907	234,546	405,474

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Container - Less than 10,000 DMF (AD)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	2	81	257	2	245	324	3	176	361	3	295	386	3	295	386
Northern Europe to U.S. Northeast Coast (0801)	2	105	240	2	241	315	2	246	351	2	274	376	2	255	375
U.S. Northeast Coast to Southern Europe (0109)	0	0	0	0	13	17	0	14	18	0	16	20	0	16	21
Southern Europe to U.S. Northeast Coast (0901)	0	22	22	1	288	378	1	302	394	2	317	414	2	328	427
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	3	26	0	5	7	0	8	11	0	12	16	0	17	22
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	3	4	0	5	7	0	10	13	0	17	22
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	2	59	439	5	211	881	5	344	958	6	552	1,056	6	868	1,172
U.S. Northeast Coast to South America West Coast (1301)	2	374	497	6	822	1,075	6	895	1,169	7	986	1,289	7	1,094	1,430
South America East Coast to U.S. Northeast Coast (0114)	1	19	69	0	28	95	0	35	98	0	56	86	1	84	110
South America West Coast to U.S. Northeast Coast (1401)	1	64	126	1	72	95	1	69	90	1	61	79	1	61	101
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	3	4	0	5	6	0	7	9	0	10	13
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	1	1	0	1	2	0	2	3	0	3	4
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	1	1	0	1	1	0	2	3	0	4	5
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northeast Coast (1901)	0	3	4	0	3	4	0	2	3	0	1	2	0	1	1
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	1	1	0	1	1	0	2	2	0	2	3
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	3	4	0	3	4	0	2	2	0	2	3
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	2	2	0	2	3	0	2	3	0	2	3
Total - U.S. Northeast Coast Routes	10	730	1,680	17	1,948	3,221	19	2,216	3,487	20	2,568	3,776	22	3,054	4,119
Total - US Routes	36	1,706	4,782	52	4,827	7,566	59	5,803	8,573	77	7,521	11,002	111	9,845	15,225

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Ratio - Greater than 10,000 DWT (AE)
On U.S. Northeast Coast Routes
1975

ROUTE	1967				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	
U.S. Northeast Coast to Northern Europe (0108)	8	510	3,781	9	1,115	5,057	10	1,243	5,229	10	1,531	5,283	11	1,860	5,660	
Northern Europe to U.S. Northeast Coast (0801)	7	2,870	3,935	9	3,732	5,183	9	3,874	5,380	9	3,917	5,441	10	4,195	5,826	
U.S. Northeast Coast to Southern Europe (0109)	1	82	554	0	180	250	0	196	272	0	219	339	0	217	453	
Southern Europe to U.S. Northeast Coast (0901)	1	96	428	0	158	297	0	191	323	0	289	402	0	368	539	
U.S. Northeast Coast to Japan (0110)	2	113	406	1	222	308	1	228	317	1	233	324	1	221	306	
Japan to U.S. Northeast Coast (1001)	1	0	847	2	1	896	2	1	896	2	1	916	2	0	867	
U.S. Northeast Coast to Australia/New Zealand (0111)	1	18	229	1	36	947	2	50	1,057	2	73	1,261	3	101	1,113	
Australia/New Zealand to U.S. Northeast Coast (1101)	0	17	31	0	44	61	0	49	74	0	74	102	0	98	137	
U.S. Northeast Coast to Far East NIC's (0112)	2	118	541	1	330	458	3	603	837	5	1,112	1,545	7	1,701	2,342	
Far East NIC's to U.S. Northeast Coast (1201)	0	61	165	0	46	915	1	53	1,671	1	66	3,083	2	85	4,715	
U.S. Northeast Coast to South America East Coast (0113)	1	63	432	2	121	764	2	178	816	2	322	917	2	357	977	
South America East Coast to U.S. Northeast Coast (1301)	1	290	395	1	426	592	1	456	633	1	512	710	2	556	772	
U.S. Northeast Coast to South America West Coast (0114)	1	36	141	1	38	98	1	48	97	1	72	100	1	103	143	
South America West Coast to U.S. Northeast Coast (1401)	1	109	234	0	115	160	0	114	158	0	103	164	0	101	224	
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to West Africa (0116)	1	21	174	0	21	47	0	28	67	1	52	100	1	81	151	
West Africa to U.S. Northeast Coast (1601)	0	24	121	0	29	40	0	41	57	0	62	86	0	94	130	
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to Arabian Gulf (0118)	2	41	864	0	127	178	1	193	268	1	379	527	2	632	878	
Arabian Gulf to U.S. Northeast Coast (1801)	1	8	340	0	18	188	0	25	287	0	33	563	1	44	939	
U.S. Northeast Coast to Other Med (0119)	1	3	477	0	8	40	0	9	45	0	14	53	0	21	68	
Other Med to U.S. Northeast Coast (1901)	0	1	41	0	2	2	0	2	2	0	2	3	0	3	4	
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to South East Asia (0122)	2	0	557	0	17	23	0	22	31	0	30	42	0	40	55	
South East Asia to U.S. Northeast Coast (2201)	1	5	161	0	3	16	0	4	18	0	4	22	0	0	27	
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	32	43	0	49	69	0	80	112	0	156	217	1	299	399	
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	14	20	0	19	26	0	26	33	0	29	41	
Total - U.S. Northeast Coast Routes	34	4,520	14,894	29	6,852	16,567	32	7,709	18,674	38	9,281	22,563	46	11,469	27,782	
Total - US Routes	100	9,293	38,142	60	15,888	33,720	70	19,444	40,712	92	26,383	55,502	126	35,388	75,361	

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Roro - Less than 10,000 DWT (AF)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	3	13	246	2	31	162	2	35	164	1	48	150	1	72	164
Northern Europe to U.S. Northeast Coast (0801)	1	41	78	0	43	60	0	44	61	0	40	56	0	39	56
U.S. Northeast Coast to Southern Europe (0109)	1	17	127	0	34	47	0	37	52	0	42	59	0	42	59
Southern Europe to U.S. Northeast Coast (0901)	0	0	77	0	1	22	0	1	24	0	2	27	0	3	27
U.S. Northeast Coast to Japan (0110)	0	3	23	0	5	7	0	5	8	0	6	9	0	7	10
Japan to U.S. Northeast Coast (1001)	0	12	30	0	8	14	0	8	14	0	4	17	0	2	18
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (0113)	2	45	237	3	64	414	3	92	448	4	158	545	5	256	648
South America East Coast to U.S. Northeast Coast (1301)	2	197	300	3	367	510	4	398	553	4	484	672	5	575	799
U.S. Northeast Coast to South America West Coast (0114)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	6	9	0	5	7	0	3	4	0	2	3
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	2	0	2	6	0	0	8	0	0	13	0	0	19
U.S. Northeast Coast to South Africa (0117)	0	2	7	0	0	20	0	20	3	0	4	5	0	5	7
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	1	17	0	1	2	0	2	2	0	2	3	0	3	4
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northeast Coast (1901)	0	2	16	0	1	2	0	1	2	0	2	2	0	2	2
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	4	6	0	5	6	0	5	8	0	7	9
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	11	332	1,216	9	568	1,267	10	635	1,359	11	801	1,576	13	1,015	1,812
Total - US Routes	127	2,502	11,441	68	3,507	6,849	76	4,139	7,616	90	5,433	8,950	108	6,936	10,690

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship Type Reefer (BA)
On U.S. Northeast Coast Routes

ROUTE	1995				2000				2010				2020			
	SHIP YEARS	CA. 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	
U.S. Northeast Coast to Northern Europe (0108)	2	65	143	1	64	118	1	70	129	1	58	108	1	47	87	
Northern Europe to U.S. Northeast Coast (0801)	1	92	122	0	75	153	0	63	166	0	37	139	0	20	112	
U.S. Northeast Coast to Southern Europe (0109)	0	3	12	0	8	14	0	9	16	0	9	17	0	9	16	
Southern Europe to U.S. Northeast Coast (0901)	0	2	77	0	3	104	0	3	121	0	5	127	0	7	124	
U.S. Northeast Coast to Japan (0110)	1	26	56	1	32	59	1	36	67	1	50	92	1	62	114	
Japan to U.S. Northeast Coast (1001)	1	5	43	1	3	52	1	2	59	1	1	80	1	0	100	
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Australia/New Zealand to U.S. Northeast Coast (1101)	0	21	34	0	16	29	0	14	27	0	8	15	0	4	7	
U.S. Northeast Coast to Far East NIC's (0112)	0	8	17	0	18	32	0	24	45	0	40	74	0	64	119	
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to South America East Coast (0113)	5	28	892	6	289	1,334	6	612	1,266	6	732	1,356	8	936	1,734	
South America East Coast to U.S. Northeast Coast (1301)	5	537	845	6	704	1,303	6	668	1,236	6	601	1,324	8	525	1,693	
U.S. Northeast Coast to South America West Coast (0114)	7	9	1,422	17	3	3,932	18	2	4,096	22	1	4,989	24	1	5,651	
South America West Coast to U.S. Northeast Coast (1401)	7	818	1,554	19	2,044	3,765	19	2,129	3,943	23	2,594	4,803	27	2,938	5,440	
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to West Africa (0116)	0	0	17	0	2	4	0	2	4	0	1	3	0	1	2	
West Africa to U.S. Northeast Coast (1601)	0	0	5	0	0	1	0	0	1	0	0	1	0	0	0	
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	10	0	5	10	0	10	18	0	16	29	0	23	43	
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	25	0	0	33	0	0	61	1	0	100	0	0	166	
U.S. Northeast Coast to Other Med (0119)	0	0	2	0	0	1	0	0	1	0	0	0	0	0	0	
Other Med to U.S. Northeast Coast (1901)	0	0	40	0	2	4	0	2	3	0	0	0	0	0	0	
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
China to U.S. Northeast Coast (2101)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to South East Asia (0122)	0	0	15	5	4	170	4	6	155	4	9	156	4	13	156	
South East Asia to U.S. Northeast Coast (2201)	0	21	21	4	127	234	4	116	215	4	117	216	4	116	215	
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total - U.S. Northeast Coast Routes	30	1,650	5,352	62	3,396	11,373	63	3,768	11,628	73	4,279	13,631	83	4,765	15,758	
Total - US Routes	108	4,151	16,305	172	7,726	30,897	179	8,281	32,346	205	9,431	38,043	228	10,349	42,876	

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - (less than 20,000 DWT (DM))
On U.S. Northeast Coast Routes

ROUTE	1987			1989			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	1	106	128	1	111	238	1	133	229	1	133	297	2	144	393
Northern Europe to U.S. Northeast Coast (0801)	1	120	339	2	434	567	2	417	545	3	541	707	4	715	935
U.S. Northeast Coast to Southern Europe (0109)	1	119	120	2	97	495	2	106	613	4	101	950	5	109	1,244
Southern Europe to U.S. Northeast Coast (0901)	1	171	171	3	469	613	3	580	759	5	900	1,176	7	1,179	1,541
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	10	52	0	13	17	0	16	21	0	19	25	0	24	32
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	8	17	1	57	75	1	60	79	1	93	122	0	135	177
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	0	0	29	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	2	111	311	2	119	502	2	99	433	1	74	280	1	55	163
South America East Coast to U.S. Northeast Coast (1301)	2	408	416	2	401	524	2	346	452	1	224	292	1	130	170
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	31	37	0	21	28	0	16	21	0	8	11	0	4	5
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	14	38	1	106	108	1	276	361	2	465	608	3	781	1,021
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	17	17	0	46	60	0	64	83	1	79	103	0	96	125
U.S. Northeast Coast to Arabian Gulf (0118)	0	18	17	0	1	1	0	1	1	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	43	43	2	309	404	2	322	421	2	273	357	1	176	231
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	20	26	0	24	31	0	33	43	0	54	71
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (0121)	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	29	29	0	30	39	0	32	42	0	29	38	0	20	27
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	31	37	0	30	40	1	52	68	0	87	113	1	116	149
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	9	1,238	1,885	17	2,345	4,060	19	2,544	4,438	23	3,060	5,592	29	3,789	7,076
Total - US Routes	82	5,982	15,249	84	8,342	16,982	90	8,915	18,008	99	9,603	19,071	117	10,934	21,991

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 20,000 to 40,000 DWT (008)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	6	1,391	2,635	5	2,018	2,577	6	2,468	3,152	7	2,928	3,739	8	3,390	4,317
Northern Europe to U.S. Northeast Coast (0801)	7	1,368	4,188	6	1,377	3,945	8	1,358	4,825	9	1,023	5,724	11	1,740	6,409
U.S. Northeast Coast to Southern Europe (0109)	6	2,115	2,115	8	2,760	3,526	9	2,903	4,161	14	2,792	6,467	18	2,710	8,424
Southern Europe to U.S. Northeast Coast (0901)	8	2,420	3,329	11	3,744	4,987	13	4,590	5,862	20	7,134	9,111	26	9,253	11,869
U.S. Northeast Coast to Japan (0110)	9	1,117	1,480	7	1,178	1,504	8	1,108	1,414	3	558	713	2	269	343
Japan to U.S. Northeast Coast (1001)	8	1,512	2,198	8	1,453	3,027	8	1,404	2,846	4	324	434	2	200	260
U.S. Northeast Coast to Australia/New Zealand (0111)	1	5	133	1	2	348	1	2	368	2	2	587	2	2	910
Australia/New Zealand to U.S. Northeast Coast (1101)	1	169	378	2	84	1,065	3	880	1,125	4	1,405	1,794	6	2,178	2,781
U.S. Northeast Coast to Far East NIC's (0112)	6	1,261	1,271	8	2,253	2,877	8	2,484	3,172	10	2,940	3,755	11	3,233	4,129
Far East NIC's to U.S. Northeast Coast (1201)	2	71	565	3	43	1,641	3	41	1,810	4	37	2,142	4	34	4,289
U.S. Northeast Coast to South America East Coast (0113)	7	1,543	2,421	10	1,513	3,674	9	1,217	3,409	7	856	2,462	5	598	1,736
South America East Coast to U.S. Northeast Coast (1301)	4	1,785	1,961	5	2,058	2,628	5	1,909	2,439	3	1,379	1,761	2	972	1,241
U.S. Northeast Coast to South America West Coast (0114)	1	84	333	1	219	252	1	252	321	1	381	486	1	435	581
South America West Coast to U.S. Northeast Coast (1401)	1	354	495	1	278	355	1	228	341	1	130	515	2	66	616
U.S. Northeast Coast to East Africa (0115)	0	11	108	0	5	12	0	6	9	0	2	2	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	20	76	0	9	27	0	6	34	0	1	48	0	1	77
U.S. Northeast Coast to West Africa (0116)	0	7	76	0	3	27	0	3	78	0	1	111	0	0	179
West Africa to U.S. Northeast Coast (1601)	0	44	221	0	50	64	0	61	187	0	87	212	1	140	246
U.S. Northeast Coast to South Africa (0117)	1	18	356	1	8	154	1	11	262	1	14	297	1	17	344
South Africa to U.S. Northeast Coast (1701)	2	107	463	1	169	215	1	205	262	1	232	297	3	269	344
U.S. Northeast Coast to Arabian Gulf (0118)	2	221	629	1	246	315	1	327	418	2	537	686	3	676	863
Arabian Gulf to U.S. Northeast Coast (1801)	0	9	36	0	2	61	0	2	81	0	1	132	0	0	167
U.S. Northeast Coast to Other Med (0119)	4	1,630	1,630	7	2,734	3,492	7	2,623	3,349	6	2,141	2,734	4	1,375	1,756
Other Med to U.S. Northeast Coast (1901)	2	17	887	4	10	1,930	3	10	1,851	3	11	1,511	2	1,239	1,971
U.S. Northeast Coast to China (0121)	1	80	180	1	203	259	2	325	415	4	670	856	8	1,239	1,583
China to U.S. Northeast Coast (2101)	3	3	25	0	6	59	0	7	95	1	5	195	1	3	362
U.S. Northeast Coast to South East Asia (0122)	3	27	608	1	122	156	1	179	228	2	301	385	3	422	538
South East Asia to U.S. Northeast Coast (2201)	5	20	996	1	17	404	2	18	592	3	18	977	4	14	1,397
U.S. Northeast Coast to Indian Sub-Continent (0123)	2	491	566	4	668	853	6	986	1,259	9	1,525	1,967	11	2,008	2,565
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	9	52	0	5	146	1	4	215	1	4	333	1	3	438
Total - U.S. Northeast Coast Routes	90	16,858	30,464	97	22,986	40,624	106	24,655	44,323	122	27,437	51,140	140	30,400	58,086

Total - US Routes 646 87,212 206,137 558 111,051 203,615 628 122,762 232,001 673 128,477 253,047 752 137,203 287,952

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Bulk Carriers - 40,000 to 80,000 DWT (DC)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	6	4,608	5,510	9	7,200	8,889	11	8,792	10,854	13	10,702	13,212	15	12,479	15,406
Northern Europe to U.S. Northeast Coast (0801)	7	1,432	6,830	10	1,530	11,488	12	1,514	14,028	15	1,062	17,076	17	676	19,911
U.S. Northeast Coast to Southern Europe (0109)	5	3,576	3,598	7	4,984	6,153	8	5,998	6,911	9	6,128	7,566	9	6,300	7,777
Southern Europe to U.S. Northeast Coast (0901)	3	35	2,509	4	689	4,433	5	840	4,978	5	1,304	5,150	6	1,715	5,682
U.S. Northeast Coast to Japan (0110)	3	706	1,157	3	986	1,217	3	951	1,174	2	507	686	1	499	692
Japan to U.S. Northeast Coast (1001)	3	699	1,260	3	692	1,739	2	737	1,677	1	636	895	1	578	713
U.S. Northeast Coast to Australia/New Zealand (0111)	3	3	1,069	3	7	1,138	3	8	1,213	5	5	1,934	9	2	3,021
Australia/New Zealand to U.S. Northeast Coast (1101)	1	304	304	1	1,211	1,494	1	1,291	1,593	1	2,058	2,540	2	3,214	3,967
U.S. Northeast Coast to Far East NIC's (0112)	2	522	522	3	1,549	1,913	4	1,674	2,066	4	1,941	2,396	5	2,109	2,604
Far East NIC's to U.S. Northeast Coast (1201)	1	80	450	3	60	1,456	3	62	1,573	3	60	1,824	3	58	1,982
U.S. Northeast Coast to South America East Coast (0113)	6	2,871	4,779	9	3,957	7,327	8	2,382	6,710	6	1,683	4,651	4	1,131	3,011
South America East Coast to U.S. Northeast Coast (1301)	3	2,464	2,865	4	3,408	4,208	4	3,121	3,854	3	2,163	2,671	2	1,401	1,729
South America West Coast to U.S. Northeast Coast (1301)	0	181	219	0	60	100	0	62	85	0	82	91	0	82	101
U.S. Northeast Coast to East Africa (0114)	0	0	0	0	173	214	0	147	182	0	89	194	0	50	215
East Africa to U.S. Northeast Coast (1501)	0	0	0	1	1	1	0	1	1	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	43	0	2	1	0	1	1	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	62	209	0	27	33	0	24	29	0	0	11	0	0	7
U.S. Northeast Coast to South Africa (0117)	0	0	224	0	13	36	0	12	31	0	8	12	0	2	6
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	2	2	0	2	2	0	2	3	0	3	4
U.S. Northeast Coast to Arabian Gulf (0118)	0	106	167	0	166	204	0	186	229	0	195	241	0	214	264
Arabian Gulf to U.S. Northeast Coast (1801)	0	61	65	0	46	56	0	60	74	0	95	118	0	119	147
U.S. Northeast Coast to Other Med (0119)	0	47	234	4	9	170	0	7	222	1	3	352	3	1	445
Other Med to U.S. Northeast Coast (1901)	1	1,065	1,065	4	2,189	2,851	3	2,189	2,702	3	1,776	2,195	3	1,138	2,267
U.S. Northeast Coast to China (0121)	1	134	373	1	280	976	1	301	925	1	432	751	1	623	769
China to U.S. Northeast Coast (2101)	0	74	127	1	155	191	1	233	287	2	436	539	3	733	905
U.S. Northeast Coast to South East Asia (0122)	0	74	74	0	21	26	0	18	22	0	9	11	0	4	5
South East Asia to U.S. Northeast Coast (2201)	3	37	767	1	159	196	1	197	244	1	334	412	2	479	591
U.S. Northeast Coast to Indian Sub-Continent (0123)	1	23	391	0	49	100	0	49	124	1	73	810	1	107	301
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	94	105	1	251	310	1	385	475	2	660	815	3	959	1,194
	0	12	43	0	42	131	1	34	201	1	24	345	1	16	501
Total - U.S. Northeast Coast Routes	50	19,137	35,063	68	29,016	57,055	74	30,876	62,468	80	32,469	67,143	89	34,457	73,919
Total - US Routes	391	84,816	193,869	328	107,537	204,354	369	119,897	230,207	354	119,065	228,221	351	117,619	232,577

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 80,000 to 100,000 DWT (00)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	1	600	856	2	2,150	2,515	2	2,637	3,084	3	3,240	3,790	3	3,790	4,433
Northern Europe to U.S. Northeast Coast (0801)	1	126	697	1	2,229	2,438	2	2,227	2,990	2	159	3,674	3	100	4,297
U.S. Northeast Coast to Southern Europe (0109)	2	1,754	1,800	3	2,995	3,503	3	3,075	3,597	3	3,080	3,603	3	2,932	3,429
Southern Europe to U.S. Northeast Coast (0901)	0	0	409	1	7	798	1	9	819	1	13	821	1	20	781
U.S. Northeast Coast to Japan (0110)	0	0	0	0	137	161	0	133	156	0	72	84	0	37	44
Japan to U.S. Northeast Coast (1001)	0	0	0	0	108	126	0	116	136	0	102	120	0	93	109
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	1	1	0	1	2	0	1	1	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	201	220	0	201	235	0	320	374	0	500	585
U.S. Northeast Coast to Far East MIC's (0112)	0	0	0	0	185	208	0	218	255	0	251	294	0	272	318
Far East MIC's to U.S. Northeast Coast (1201)	0	0	0	0	9	11	0	10	11	0	9	11	0	9	11
U.S. Northeast Coast to South America East Coast (0113)	0	0	0	0	514	1,433	0	446	1,316	0	367	897	0	302	538
South America East Coast to U.S. Northeast Coast (1301)	0	126	162	1	621	1,727	1	570	1,667	1	389	455	0	242	283
U.S. Northeast Coast to South America West Coast (0114)	0	65	82	0	4	4	0	3	4	0	1	1	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	22	26	0	19	22	0	12	14	0	7	8
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	5	5	0	4	5	0	2	2	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	1	82	0	7	8	0	6	9	0	7	8	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	26	28	0	27	31	0	28	32	0	30	35
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	1	2	0	1	1	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	324	379	0	306	358	0	248	290	0	199	186
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	49	58	0	53	62	0	76	89	0	110	128
U.S. Northeast Coast to China (0121)	0	0	0	0	21	25	0	31	36	0	56	66	0	91	106
China to U.S. Northeast Coast (2101)	0	0	0	0	4	4	0	3	3	0	1	2	0	1	1
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	24	28	0	29	34	0	50	58	0	71	84
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	8	10	0	8	10	0	13	15	0	19	22
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	26	28	0	37	44	0	69	81	0	107	123
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	7	9	0	6	7	0	4	5	0	3	3
Total - U.S. Northeast Coast Routes	4	2,670	4,088	9	7,690	12,785	10	8,180	13,894	10	8,571	14,787	10	8,901	15,554
Total - US Routes	6	3,792	5,943	16	20,555	29,809	18	22,677	32,912	17	22,361	32,556	17	21,827	32,219

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 100,000 to 175,000 DWT (DE)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	3	4,003	5,439	4	6,451	7,545	5	7,953	9,302	6	9,876	11,550	7	11,599	13,555
Northern Europe to U.S. Northeast Coast (0801)	4	1,100	8,292	5	1,130	11,532	6	1,137	14,218	8	1,112	17,654	9	2,775	20,718
U.S. Northeast Coast to Southern Europe (0109)	1	1,080	1,127	1	1,849	2,143	1	2,089	2,385	2	2,210	2,585	2	2,241	2,621
Southern Europe to U.S. Northeast Coast (0901)	5	3,370	4,452	4	3,199	3,741	4	3,070	3,591	2	1,538	1,799	0	0	645
U.S. Northeast Coast to Japan (0110)	0	0	147	0	0	131	0	0	126	0	0	63	1	740	865
Japan to U.S. Northeast Coast (1001)	0	0	165	0	0	79	0	0	85	0	0	84	0	0	30
U.S. Northeast Coast to Australia/New Zealand (0111)	1	198	550	0	289	338	0	310	363	0	306	358	0	271	74
Australia/New Zealand to U.S. Northeast Coast (1101)	1	673	815	2	1,201	1,405	2	1,289	1,507	2	1,484	1,735	2	1,605	317
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,877
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	0	170	349	0	178	446	0	147	422	0	108	268	0	77	134
South America East Coast to U.S. Northeast Coast (1301)	1	873	1,107	1	1,114	1,302	1	1,054	1,233	0	669	783	0	334	391
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	130	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	106	209	0	52	60	0	39	46	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	1	0	1,545	0	0	0	0	0	0	0	20	23	0	12	14
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	565	571	1	907	1,061	1	881	1,030	0	0	0	0	0	0
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	0	0	0	0	0	1	724	846	0	466	545
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	1	0	1,487	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	142	167	0	141	165	0	170	199	0	166	194
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	19	11,137	26,692	19	15,512	30,502	21	17,060	35,058	22	17,216	38,583	23	17,577	41,981
Total - US Routes	43	25,011	55,271	38	31,318	56,274	44	35,695	65,663	43	34,324	68,298	42	32,948	70,850

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
 For Shiptype Bulk Carriers - Greater than 175,000 DWT (DF)
 On U.S. Northeast Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	0	0	1,207	0	1,357	1,599	1	1,698	1,906	1	1,992	2,330	1	1,992	2,330
Northern Europe to U.S. Northeast Coast (0801)	0	0	2,509	1	24	3,094	1	20	3,842	1	13	4,508	1	13	4,508
U.S. Northeast Coast to Southern Europe (0109)	0	0	0	0	292	342	0	325	300	0	336	373	0	336	373
Southern Europe to U.S. Northeast Coast (0901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Japan (0110)	1	533	1,375	1	1,148	1,343	1	575	673	0	277	324	0	277	324
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	136	186	1	51	64	0	54	63	0	48	56	0	48	56
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	1	497	623	1	614	718	1	664	776	1	664	776
U.S. Northeast Coast to South America East Coast (0113)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northeast Coast (1301)	0	0	372	0	30	28	0	24	19	0	10	12	0	10	12
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	194	215	0	117	136	0	58	68	0	58	68
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	10	0	7	8	0	3	4	0	2	2	0	2	2
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	0	187	0	155	182	0	128	149	0	82	96	0	82	96
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	336	0	285	333	0	344	402	0	336	373	0	336	373
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	2	669	2,304	3	3,811	6,940	3	4,074	7,830	3	3,819	8,940	3	3,819	8,940
Total - US Routes	2	669	3,119	3	7,332	11,062	3	8,043	12,477	3	7,363	12,435	3	6,818	12,472

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 20,000 to 40,000 DWT (EB)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northeast Coast (0801)	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Southern Europe (0109)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northeast Coast (0901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northeast Coast (1301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	1	32	0	61	192	0	57	161	43	0	30	102	0	0	0

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 80,000 to 100,000 DWT (ED)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0106)	1	400	667	1	739	865	1	900	1,053	1	1,104	1,291	1	1,291	1,510
Northern Europe to U.S. Northeast Coast (0801)	1	940	1,241	1	671	1,618	1	651	1,970	1	473	2,415	2	292	2,824
U.S. Northeast Coast to Southern Europe (0109)	0	496	496	1	1,409	1,648	1	1,544	1,806	1	1,664	1,946	1	1,680	1,965
Southern Europe to U.S. Northeast Coast (0901)	0	0	345	0	0	1,018	1	0	1,116	1	0	1,203	1	0	1,214
U.S. Northeast Coast to Japan (0110)	0	0	0	0	22	26	0	18	21	0	9	10	0	4	5
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	95	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	157	191	1	318	371	1	341	398	1	392	459	1	424	496
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	0	0	85	0	150	496	0	120	466	0	81	337	0	49	216
South America East Coast to U.S. Northeast Coast (1301)	0	74	85	0	272	318	0	256	299	0	185	217	0	118	138
U.S. North Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	7	8	0	4	5	0	0	1	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	82	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	36	42	0	46	54	0	66	77	0	87	101
Arabian Gulf to U.S. Northeast Coast (1801)	0	297	297	0	593	694	0	431	504	0	296	346	0	174	309
U.S. Northeast Coast to Other Med (0119)	0	427	427	0	262	940	0	327	683	0	399	449	0	450	527
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (0121)	0	0	0	0	5	6	0	6	7	0	6	7	0	7	8
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	7	8	0	7	8	0	8	9	0	8	9
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	27	31	0	34	40	0	45	52	0	57	66
Total - U.S. Northeast Coast Routes	3	2,792	4,010	5	4,518	8,088	5	4,685	8,430	5	4,727	8,840	6	4,641	9,468
Total - US Routes	7	5,089	8,448	11	8,560	15,898	11	9,199	16,824	11	9,121	16,753	11	8,688	16,358

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 100,000 to 175,000 DWT (EE)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	2	2,500	3,349	3	4,056	4,720	3	4,976	5,819	4	6,178	7,226	5	7,251	8,480
Northern Europe to U.S. Northeast Coast (0801)	1	2,059	2,059	1	2,083	4,853	2	2,019	5,984	2	1,466	7,430	3	1,906	8,720
U.S. Northeast Coast to Southern Europe (0109)	3	2,193	2,282	4	2,826	3,306	4	3,155	3,680	4	3,372	3,944	4	3,450	4,055
Southern Europe to U.S. Northeast Coast (0901)	0	0	587	1	444	444	1	0	496	530	0	0	1	0	542
U.S. Northeast Coast to Japan (0110)	0	200	246	0	200	234	0	193	226	0	97	113	0	47	55
Japan to U.S. Northeast Coast (1001)	0	0	82	0	0	60	0	0	58	0	0	29	0	0	14
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	1	363	440	1	698	817	1	749	876	1	862	1,009	1	933	1,091
Far East NIC's to U.S. Northeast Coast (1201)	0	0	41	0	0	89	0	0	96	0	0	110	0	0	119
U.S. Northeast Coast to South America East Coast (0113)	1	435	1,593	1	437	1,630	1	348	1,530	1	234	1,125	0	143	735
South America East Coast to U.S. Northeast Coast (1301)	1	1,088	1,088	0	911	1,066	0	855	1,001	0	629	735	0	411	481
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	21	24	0	24	28	0	22	25	0	18	21
U.S. Northeast Coast to East Africa (0115)	0	0	207	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	324	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	236	0	0	249	0	0	149	0	0	41	0	0	10
West Africa to U.S. Northeast Coast (1601)	0	488	488	0	483	565	0	288	337	0	79	93	0	18	22
U.S. Northeast Coast to South Africa (0117)	0	0	310	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	1	0	653	1	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	417	417	1	2,028	3,762	1	2,627	4,874	2	3,758	6,973	2	4,952	9,188
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	83	97	0	55	65	1	20	41	1	20	23
Other Med to U.S. Northeast Coast (1901)	0	338	342	0	188	220	0	279	273	0	305	326	0	305	357
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	86	0	0	1	0	1	1	0	1	1	0	1	1
U.S. Northeast Coast to South East Asia (0122)	0	0	150	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	202	202	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	5	6	0	6	8	0	8	10	0	10	12
Total - U.S. Northeast Coast Routes	11	10,081	15,185	13	14,000	26,516	15	15,531	28,582	16	17,022	34,158	18	18,465	36,697
Total - US Routes	25	16,463	36,876	20	23,204	40,753	22	25,757	46,253	24	27,170	52,149	26	28,748	57,805

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - Greater than 175,000 DWT (EF)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	0	0	0	0	854	999	0	1,050	1,240	0	1,244	1,455	0	1,244	1,455
Northern Europe to U.S. Northeast Coast (0201)	0	0	0	0	339	396	0	246	288	0	152	178	0	152	178
U.S. Northeast Coast to Southern Europe (0109)	0	0	0	0	574	613	0	599	653	0	571	668	0	571	668
Southern Europe to U.S. Northeast Coast (0901)	0	0	0	0	0	40	0	17	20	0	0	10	0	0	10
U.S. Northeast Coast to Japan (0110)	0	0	0	0	34	40	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East MIC's (0112)	0	0	0	0	114	144	0	141	165	0	153	179	0	153	179
Far East MIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	0	0	0	0	77	72	0	41	48	0	25	30	0	25	30
South America East Coast to U.S. Northeast Coast (1301)	0	0	0	0	160	175	0	110	129	0	72	84	0	72	84
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	4	5	0	4	4	0	3	4	0	3	4
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	51	59	0	14	16	0	3	4	0	3	4
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	358	419	0	464	542	0	663	776	0	663	776
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	27	31	0	33	39	0	40	46	0	43	50
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	4	5	0	6	8	0	10	11	0	10	11
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	0	0	0	0	2,376	2,779	0	2,641	3,089	0	2,902	3,394	0	3,199	3,694
Total - US Routes	0	203	585	1	4,624	5,410	1	5,281	6,155	1	5,895	6,897	2	6,593	7,713

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - Less than 10,000 DWT (FA)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	0	8	39	0	12	41	0	5	46	0	7	49	0	10	51
Northern Europe to U.S. Northeast Coast (0801)	3	208	359	3	273	356	3	301	393	4	324	424	4	333	435
U.S. Northeast Coast to Southern Europe (0109)	0	14	22	0	12	16	0	15	20	0	25	33	1	39	51
Southern Europe to U.S. Northeast Coast (0901)	2	4	195	1	6	145	1	6	185	2	7	305	4	7	466
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	1	39	42	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	1	40	133	2	80	167	2	113	192	3	197	258	5	315	412
South America East Coast to U.S. Northeast Coast (1301)	1	184	208	2	184	240	2	211	276	3	272	372	5	333	594
U.S. Northeast Coast to South America West Coast (0114)	0	0	6	0	0	22	0	0	26	0	0	26	0	0	25
South America West Coast to U.S. Northeast Coast (1401)	1	88	91	1	118	155	2	137	180	2	139	182	2	130	170
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	2	2	8	0	1	1	0	1	1	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	1	143	150	1	131	172	2	170	223	2	232	303	3	303	397
Other Med to U.S. Northeast Coast (1901)	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	9	2	2	3	0	2	2	1	1	1	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	65	0	0	64	1	0	37	0	0	19
South East Asia to U.S. Northeast Coast (2201)	0	14	14	4	129	169	3	97	127	2	56	73	1	28	37
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	108	141	0	132	172	0	152	199	0	167	218
Total - U.S. Northeast Coast Routes	12	743	1,345	18	1,056	1,735	18	1,190	1,934	20	1,412	2,301	25	1,665	2,923
Total - US Routes	54	4,432	6,566	95	5,659	9,172	115	6,360	11,192	163	7,674	16,272	233	9,406	23,421

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
 For Shiptype Tankers - 10,000 to 40,000 DWT (FB,
 On U.S. Northeast Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Northeast Coast to Northern Europe (0108)	6	348	3,115	10	516	5,123	12	615	6,578	22	525	11,490	34	617	17,655					
Northern Europe to U.S. Northeast Coast (0801)	12	6,191	7,995	18	9,545	12,477	24	12,256	16,920	41	21,407	27,983	64	33,266	43,485					
U.S. Northeast Coast to Southern Europe (0109)	6	1,124	3,052	0	0	162	0	0	0	0	0	0	0	0	0					
Southern Europe to U.S. Northeast Coast (0901)	6	73	2,958	0	86	168	0	97	170	0	109	143	0	130	170					
U.S. Northeast Coast to Japan (0110)	1	69	293	0	96	125	0	109	143	0	120	157	0	133	177					
Japan to U.S. Northeast Coast (1001)	0	44	269	0	61	94	0	73	108	0	85	119	0	98	150					
U.S. Northeast Coast to Australia/New Zealand (0111)	0	18	101	0	16	26	0	20	26	0	26	32	0	32	42					
Australia/New Zealand to U.S. Northeast Coast (1101)	0	38	42	0	0	15	0	0	19	0	0	24	0	0	31					
U.S. Northeast Coast to Far East NIC's (0112)	1	43	217	0	91	118	1	157	206	1	289	378	2	494	646					
Far East NIC's to U.S. Northeast Coast (1201)	2	27	375	1	29	153	1	36	266	2	56	489	3	88	637					
U.S. Northeast Coast to South America East Coast (0113)	21	31	2,196	3	27	345	4	38	397	5	48	511	6	69	624					
South America East Coast to U.S. Northeast Coast (1301)	16	1,118	8,980	2	1,150	1,503	3	1,322	1,728	4	1,701	2,224	4	2,081	2,720					
U.S. Northeast Coast to South America West Coast (0114)	1	22	64	2	42	1,059	3	64	1,312	4	129	1,650	4	230	1,877					
South America West Coast to U.S. Northeast Coast (1401)	1	665	752	3	1,164	1,522	4	1,442	1,865	5	1,791	2,341	6	2,063	2,697					
U.S. Northeast Coast to East Africa (0115)	0	0	147	0	0	0	0	0	0	0	0	0	0	0	0					
East Africa to U.S. Northeast Coast (1501)	1	0	258	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Northeast Coast to West Africa (0116)	0	0	157	0	3	52	0	4	45	0	5	31	0	6	20					
West Africa to U.S. Northeast Coast (1601)	3	311	1,170	1	307	401	1	270	353	0	182	238	0	119	156					
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
South Africa to U.S. Northeast Coast (1701)	0	101	101	1	182	238	1	245	321	2	357	467	2	500	653					
U.S. Northeast Coast to Arabian Gulf (0118)	2	35	501	6	182	238	8	82	342	9	75	3,912	11	68	4,675					
Arabian Gulf to U.S. Northeast Coast (1801)	5	1,765	1,765	17	4,530	5,921	20	5,448	7,122	23	6,229	8,142	27	7,443	9,730					
U.S. Northeast Coast to Other Med (0119)	2	19	1,163	2	63	1,123	3	82	1,457	4	120	1,986	5	168	2,465					
Other Med to U.S. Northeast Coast (1901)	2	811	1,047	2	769	1,005	2	998	1,304	3	1,340	1,778	4	1,784	2,332					
U.S. Northeast Coast to China (0121)	0	15	28	1	11	110	0	13	84	0	19	59	0	26	34					
China to U.S. Northeast Coast (2101)	1	203	203	5	607	793	4	520	679	2	324	424	1	186	250					
U.S. Northeast Coast to South East Asia (0122)	1	24	205	2	41	364	2	58	679	2	104	367	2	181	428					
South East Asia to U.S. Northeast Coast (2201)	2	421	421	4	575	752	4	546	713	4	579	757	5	675	883					
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	13	57	1	20	238	1	33	286	1	60	325	1	101	354					
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	53	53	1	170	223	1	204	267	1	233	304	1	253	331					
Total - U.S. Northeast Coast Routes	95	12,631	38,087	83	20,344	36,951	99	24,657	45,431	136	36,043	66,458	185	50,983	95,960					

Total - US Routes 295 57,310 113,686 449 88,983 168,596 491 99,642 184,180 548 115,683 214,393 684 147,117 270,379

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 40,000 to 60,000 DWT (FC)
On U.S. Northeast Coast Routes

ROUTE	1987				1995				2000				2010				2020				
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	1	98	802	2	233	2,354	3	131	2,978	4	175	5,071	6	225	7,797	6	7,324	7,797	6	7,324	7,797
Northern Europe to U.S. Northeast Coast (0801)	1	486	991	0	2,211	2,823	0	2,797	3,573	5	4,763	6,063	0	7,324	9,353	0	7,324	9,353	0	7,324	9,353
U.S. Northeast Coast to Southern Europe (0109)	1	40	687	0	45	58	0	17	56	0	27	63	0	25	30	0	25	30	0	25	30
Southern Europe to U.S. Northeast Coast (0901)	0	0	242	0	15	22	0	19	25	0	21	27	0	25	30	0	25	30	0	25	30
U.S. Northeast Coast to Japan (0110)	0	0	0	0	17	22	0	13	17	0	15	19	0	20	26	0	20	26	0	20	26
Japan to U.S. Northeast Coast (1001)	0	0	0	0	14	14	0	4	5	0	4	6	0	6	7	0	6	7	0	6	7
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	16	20	0	28	35	0	51	66	0	87	111	0	87	111	0	87	111
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	5	7	0	6	8	0	10	13	0	16	20	0	16	20	0	16	20
U.S. Northeast Coast to South America East Coast (0113)	9	1,769	1,769	13	2	1,949	14	3	2,214	18	2	2,769	22	2	3,364	22	15,942	2	2	15,942	2
South America East Coast to U.S. Northeast Coast (1301)	8	9,607	10,748	12	9,239	11,800	14	10,492	13,400	17	13,219	16,862	21	15,942	20,360	21	15,942	2	21	15,942	2
U.S. Northeast Coast to South America West Coast (0114)	1	0	1,469	3	7	2,737	4	11	3,275	4	23	3,666	4	41	3,843	4	41	3,843	4	41	3,843
South America West Coast to U.S. Northeast Coast (1401)	2	2,449	2,617	5	3,825	4,865	6	4,576	5,844	6	5,122	6,542	7	5,377	6,867	7	5,377	6,867	7	5,377	6,867
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	186	0	0	55	0	1	55	0	1	54	0	1	55	0	1	55	0	1	55
West Africa to U.S. Northeast Coast (1601)	1	180	1,203	0	264	338	0	266	339	0	258	330	0	284	337	0	284	337	0	284	337
U.S. Northeast Coast to South Africa (0117)	0	0	124	0	11	372	0	13	513	1	19	761	1	28	1,070	1	28	1,070	1	28	1,070
South Africa to U.S. Northeast Coast (1701)	0	124	124	0	255	325	1	351	448	1	521	665	1	732	935	1	732	935	1	732	935
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	151	0	21	27	0	14	19	0	13	17	0	12	15	0	12	15	0	12	15
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	799	1,021	0	961	1,228	0	1,099	1,404	0	1,314	1,678	0	1,314	1,678	0	1,314	1,678
U.S. Northeast Coast to Other Med (0119)	0	0	134	0	11	179	0	14	232	0	21	316	0	30	414	0	30	414	0	30	414
Other Med to U.S. Northeast Coast (1901)	1	1,567	1,594	2	1,570	2,005	2	2,095	2,599	3	2,770	3,538	4	3,625	4,630	4	3,625	4,630	4	3,625	4,630
U.S. Northeast Coast to China (0121)	0	0	0	0	2	2	0	2	3	0	3	4	0	5	6	0	5	6	0	5	6
China to U.S. Northeast Coast (2101)	0	0	0	0	105	135	0	92	118	0	58	74	0	33	42	0	33	42	0	33	42
U.S. Northeast Coast to South East Asia (0122)	0	0	123	0	7	145	0	10	138	0	18	148	0	32	172	0	32	172	0	32	172
South East Asia to U.S. Northeast Coast (2201)	0	53	124	0	126	161	0	120	153	0	128	163	0	149	191	0	149	191	0	149	191
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	4	5	0	6	7	0	11	13	0	18	23	0	18	23	0	18	23
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	27	34	0	32	41	0	37	47	0	40	51	0	40	51	0	40	51
Total - U.S. Northeast Coast Routes	27	14,634	23,129	40	18,855	31,505	47	22,059	37,345	61	28,409	48,784	75	35,394	61,509	75	35,394	48,784	75	35,394	61,509
Total - US Routes	86	29,704	65,984	103	46,737	78,561	121	52,707	90,542	134	61,848	104,145	166	75,131	129,619	166	75,131	104,145	166	75,131	129,619

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 80,000 to 100,000 DWT (FD)
On U.S. Northeast Coast Routes

3/14/90

ROUTE	1987			1997			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	3	0	3,469	2	2,576	2,512	1	15	1,885	1	1,885	1	21	1,262	
Northern Europe to U.S. Northeast Coast (0801)	4	6,230	6,610	3	3,940	4,743	2	2,883	3,559	1	1,930	2,383	1	1,262	
U.S. Northeast Coast to Southern Europe (0109)	1	0	971	0	4	5	0	1	2	0	1	2	0	2,383	
Southern Europe to U.S. Northeast Coast (0901)	1	0	1,231	0	6	6	0	0	2	0	0	2	0	0	
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Japan to U.S. Northeast Coast (1001)	0	0	91	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	86	0	0	0	0	0	0	0	0	0	0	0	
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Far East NIC's to U.S. Northeast Coast (1201)	0	0	81	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to South America East Coast (0113)	5	0	9,237	7	10,225	11,020	9	8,052	9,941	10	12,611	14,167	10	14,167	
South America East Coast to U.S. Northeast Coast (1301)	4	6,815	7,657	6	6,528	8,687	7	8,052	9,941	8	9,045	11,167	8	11,167	
U.S. Northeast Coast to South America West Coast (0114)	0	0	81	0	0	0	0	0	0	0	0	0	0	0	
South America West Coast to U.S. Northeast Coast (1401)	0	608	608	0	2,176	2,686	1	3,881	4,791	1	4,808	5,973	1	5,973	
U.S. Northeast Coast to East Africa (0115)	0	0	387	0	0	0	0	0	0	0	0	0	0	0	
East Africa to U.S. Northeast Coast (1501)	1	0	643	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to West Africa (0116)	1	0	742	0	176	180	0	0	179	0	179	187	0	187	
West Africa to U.S. Northeast Coast (1601)	1	166	981	0	279	284	0	229	283	0	240	296	0	296	
U.S. Northeast Coast to South Africa (0117)	0	0	0	2	2	3	0	3	4	0	5	6	0	6	
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	421	580	0	697	861	0	980	1,210	0	1,210	
U.S. Northeast Coast to Arabian Gulf (0118)	1	0	720	0	766	942	1	0	995	0	0	1,000	0	1,000	
Arabian Gulf to U.S. Northeast Coast (1801)	0	239	266	0	340	427	1	357	441	1	359	443	1	443	
U.S. Northeast Coast to Other Med (0119)	1	0	1,061	1	1,052	1,360	1	0	1,835	2	2,375	2,375	2	2,375	
Other Med to U.S. Northeast Coast (1901)	2	2,578	2,633	2	2,431	3,880	4	4,239	5,233	5	5,487	6,775	5	6,775	
China to U.S. Northeast Coast (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to China (2101)	0	0	259	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northeast Coast to South East Asia (0122)	0	0	263	0	2	2	0	0	0	0	0	0	0	0	
South East Asia to U.S. Northeast Coast (2201)	1	0	798	0	6	6	0	5	6	0	5	6	0	2	
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total - U.S. Northeast Coast Routes	26	16,636	38,894	22	15,954	38,122	24	17,896	42,631	27	20,363	42,631	29	22,912	47,255
Total - US Routes	95	43,275	112,339	63	44,251	83,244	66	52,550	89,900	70	58,172	98,715	70	58,172	98,715

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Tankers - 100,000 to 175,000 DWT (FE)
On U.S. Northeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Northeast Coast to Northern Europe (0108)	1	0	1,685	1	0	2,107	1	0	0	2,043	1	0	1,494	0	0	0	0	916		
Northern Europe to U.S. Northeast Coast (0801)	1	1,967	1,967	1	1,899	2,221	1	1,861	0	2,153	1	1,337	1,564	0	0	0	826	966		
U.S. Northeast Coast to Southern Europe (0109)	0	0	1,018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Southern Europe to U.S. Northeast Coast (0901)	1	0	1,570	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to Japan (0110)	0	0	254	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Far East NIC's to U.S. Northeast Coast (1201)	0	0	252	0	0	3,812	0	0	0	3,728	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to South America East Coast (0113)	2	0	4,659	2	2,477	2,897	1	2,422	0	2,833	2	2,210	2,565	0	3,402	1	1,977	3,043		
South America East Coast to U.S. Northeast Coast (1301)	1	3,064	3,446	1	1,176	1,375	0	1,565	0	1,831	0	2,320	2,714	0	2,565	0	3,025	2,312		
U.S. Northeast Coast to South America West Coast (0114)	0	0	258	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Northeast Coast (1401)	0	0	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to East Africa (0115)	1	0	1,157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Northeast Coast (1501)	3	0	6,332	4	18,458	7,018	4	23,178	0	8,813	6	32,027	12,177	0	15,482	8	40,718	15,482		
U.S. Northeast Coast to West Africa (0116)	10	12,140	18,240	11	18,458	21,508	14	23,178	0	27,109	19	32,027	37,458	0	47,684	24	116,460	47,684		
West Africa to U.S. Northeast Coast (1601)	1	0	1,380	2	5,163	3,514	3	7,420	0	5,050	5	11,632	7,917	0	11,202	7	16,460	11,202		
U.S. Northeast Coast to South Africa (0117)	1	2,606	2,606	4	6,782	2,901	3	8,754	0	3,756	4	12,451	5,341	0	7,012	5	16,345	7,012		
South Africa to U.S. Northeast Coast (1701)	2	0	660	2	6,782	7,909	8	8,754	0	10,239	11	12,451	14,562	0	19,117	15	16,345	19,117		
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	1,395	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S. Northeast Coast (1801)	1	0	1,177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to Other West (0119)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other West to U.S. Northeast Coast (1901)	0	0	0	0	384	449	0	497	0	581	0	669	783	0	1,012	0	865	1,012		
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to South East Asia (0122)	1	0	507	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South East Asia to U.S. Northeast Coast (2201)	1	0	1,416	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northeast Coast to Indian Sub-Continent (0123)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Northeast Coast Routes	28	21,430	50,396	34	36,319	61,830	43	45,677	76,812	59	62,647	105,592	75	80,216	131,474					
Total - US Routes	86	46,330	153,437	80	85,252	145,146	99	106,191	179,040	133	143,821	238,940	169	183,327	302,855					

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - Greater than 250,000 DWT (FG)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northeast Coast (0801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Southern Europe (0109)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northeast Coast (0901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northeast Coast (1301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	26	29,156	73,643	53	67,995	128,838	67	84,775	160,555	94	115,564	217,955	122	147,902	278,039

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For ShipType Gas Tankers (GA)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	0	1	285	0	0	1	0	0	1	0	0	1	0	0	1
Northern Europe to U.S. Northeast Coast (0801)	1	142	333	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Southern Europe (0109)	0	1	270	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northeast Coast (0901)	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Japan (0110)	0	0	142	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	42	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	9	9	17	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	1	6	387	2	81	556	2	136	610	2	238	529	3	399	886
South America East Coast to U.S. Northeast Coast (1301)	1	161	302	1	178	395	1	195	434	1	163	376	2	121	630
U.S. Northeast Coast to South America West Coast (0114)	0	0	84	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	103	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	45	45	45	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	0	287	3	0	2,206	5	0	3,112	8	0	5,263	13	0	8,053
Other Med to U.S. Northeast Coast (1901)	1	384	437	7	1,946	4,323	10	2,745	6,099	16	4,661	10,514	25	7,101	15,780
China to U.S. Northeast Coast (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	1	0	186	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	8	749	3,594	14	2,205	7,484	18	3,076	10,258	28	5,043	16,486	43	7,620	25,350
Total - US Routes	70	3,540	21,365	49	5,185	22,894	56	6,747	29,175	64	9,384	39,007	86	12,788	52,852

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Vehicle Carriers (HB)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	5	0	2,577	3	0	2,515	3	0	2,406	2	0	1,612	1	0	961
Northern Europe to U.S. Northeast Coast (0801)	6	333	2,733	4	276	3,072	0	264	2,939	2	177	1,969	1	106	1,173
U.S. Northeast Coast to Southern Europe (0109)	1	0	625	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northeast Coast (0901)	1	0	341	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Japan (0110)	19	0	2,713	23	0	6,172	22	0	5,892	17	0	4,677	12	0	3,265
Japan to U.S. Northeast Coast (1001)	24	745	3,495	28	690	7,670	27	658	7,310	22	523	5,813	15	365	4,058
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	5	0	668	12	0	6,399	15	0	8,446	25	0	13,770	36	0	19,832
Far East NIC's to U.S. Northeast Coast (1201)	1	92	222	3	171	1,903	5	226	2,512	7	369	4,096	11	531	5,899
U.S. Northeast Coast to South America East Coast (0113)	6	0	1,185	4	0	1,341	6	0	1,838	9	0	2,803	12	0	3,609
South America East Coast to U.S. Northeast Coast (1301)	3	28	1,448	2	61	674	3	83	1,924	5	127	1,409	6	163	1,814
U.S. Northeast Coast to South America West Coast (0114)	2	0	436	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	1	0	375	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	2	0	474	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	1	0	73	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	1	0	253	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northeast Coast (1901)	0	0	45	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (0121)	1	0	114	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	3	0	343	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	2	0	151	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	63	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	85	1,199	17,280	79	1,199	29,746	84	1,232	32,259	89	1,196	36,149	94	1,165	40,611

105,936

3,848

99,251

230

3,899

95,338

227

3,975

224

91,054

216

3,877

95,338

224

3,975

227

3,899

99,251

230

3,848

105,936

40,611

36,149

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COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - Less than 10,000 DWT (PA)
On U.S. Northeast Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	0	21	41	0	34	44	0	36	47	1	46	60	1	52	68
Northern Europe to U.S. Northeast Coast (0801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Southern Europe (0109)	1	12	57	0	10	13	0	13	17	0	23	30	0	35	45
Southern Europe to U.S. Northeast Coast (0901)	0	0	0	0	1	2	0	1	2	0	2	2	0	2	2
U.S. Northeast Coast to Japan (0110)	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	3	7	0	3	4	0	3	4	0	3	4	0	4	5
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	1	17	161	0	22	28	0	30	39	0	48	63	1	74	97
South America East Coast to U.S. Northeast Coast (1301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America West Coast (0114)	0	5	17	0	9	11	0	13	17	0	26	34	0	46	60
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	33	43	0	43	56	0	58	76	0	76	99
U.S. Northeast Coast to China (2101)	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0
China to U.S. Northeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	13	0	0	22	0	0	16	0	0	9	0	0	5
South East Asia to U.S. Northeast Coast (2201)	1	27	27	1	32	42	0	24	32	0	14	18	0	7	9
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	27	35	0	33	43	0	38	50	0	42	55
Total - U.S. Northeast Coast Routes	4	86	377	2	171	245	2	198	275	2	257	346	2	337	445
Total - US Routes	19	737	2,017	28	1,002	3,004	33	1,209	3,630	38	1,534	4,325	44	2,054	5,157

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Product Tankers - 10,000 to 40,000 DWT (PB)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	0	0	12	0	0	16	0	0	12	0	0	16	0	0	15
Northern Europe to U.S. Northeast Coast (0801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Southern Europe (0109)	0	0	2	0	2	2	0	0	2	0	4	5	0	6	8
Southern Europe to U.S. Northeast Coast (0901)	0	0	25	0	0	32	0	0	28	0	31	40	0	37	48
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	1	0	0	1	0	0	1	0	1	1	0	0	1
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	0	0	4	0	4	5	0	0	5	0	8	11	0	13	17
U.S. Northeast Coast to South America East Coast (1301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northeast Coast (0114)	0	0	2	0	2	2	0	0	2	0	5	6	0	8	11
U.S. Northeast Coast to South America West Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	0	192	0	192	251	0	0	249	0	340	444	0	446	583
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (2101)	0	29	49	0	49	64	0	0	78	0	139	182	1	228	298
China to U.S. Northeast Coast (2101)	0	121	152	2	152	198	1	1	130	1	170	228	1	228	298
U.S. Northeast Coast to South East Asia (0122)	2	6	10	0	10	63	0	0	14	0	26	63	0	45	61
South East Asia to U.S. Northeast Coast (2201)	4	693	144	1	188	188	0	1	136	1	145	189	1	169	221
U.S. Northeast Coast to Indian Sub-Continent (0123)	1	45	75	0	98	147	1	1	128	1	252	329	3	430	562
Indian Sub-Continent to U.S. Northeast Coast (2301)	1	18	43	1	184	283	1	1	51	1	58	618	3	63	1,056
Total - U.S. Northeast Coast Routes	8	912	1,885	4	709	1,104	5	838	1,383	6	1,101	2,011	9	1,504	2,954
Total - US Routes	40	4,148	10,671	22	4,008	7,064	23	4,347	7,740	25	5,022	8,575	30	6,171	10,414

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 40,000 to 80,000 DWT (PC)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	1	100	1,370	2	150	1,973	2	102	2,520	4	135	4,337	6	164	6,683
Northern Europe to U.S. Northeast Coast (0801)	2	1,365	1,924	2,069	2,643	2,643	3	2,643	3,376	4	4,550	5,811	7	7,011	8,954
U.S. Northeast Coast to Southern Europe (0109)	1	58	895	38	3,672	3,672	5	34	4,218	4	14	3,359	3	6	2,632
Southern Europe to U.S. Northeast Coast (0901)	1	1,178	1,178	4,177	5,334	5,334	6	4,798	6,127	5	3,821	4,880	4	2,994	3,824
U.S. Northeast Coast to Japan (0110)	0	22	49	31	39	39	0	35	45	0	38	48	0	41	53
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	69	76	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	10	35	23	0	29	0	40	51	0	76	97	0	130	167
Far East NIC's to U.S. Northeast Coast (1201)	0	0	42	0	0	34	0	0	59	0	0	112	0	0	193
U.S. Northeast Coast to South America East Coast (0113)	7	0	5,533	0	0	7,536	10	0	8,665	13	0	11,152	16	0	13,662
South America East Coast to U.S. Northeast Coast (1301)	7	5,955	6,269	5,951	6,844	7,600	10	6,844	8,740	13	8,807	11,248	16	10,773	13,759
U.S. Northeast Coast to South America West Coast (0114)	0	0	317	0	0	798	1	0	926	1	0	1,306	1	0	878
South America West Coast to U.S. Northeast Coast (1401)	1	554	554	867	1,107	1,107	1	1,007	1,285	1	1,018	1,300	1	955	1,219
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	225	225	0	0	96	0	0	92	0	0	81	0	0	75
West Africa to U.S. Northeast Coast (1601)	0	95	307	102	130	130	0	98	125	0	86	110	0	80	102
U.S. Northeast Coast to South Africa (0117)	0	116	116	0	0	154	0	0	211	0	0	312	1	1	438
South Africa to U.S. Northeast Coast (1701)	0	129	165	177	226	226	0	242	309	0	358	457	1	503	642
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	284	0	0	776	2	0	959	2	0	1,201	3	0	1,498
Arabian Gulf to U.S. Northeast Coast (1801)	1	594	594	1,796	2,294	2,294	5	2,221	2,527	7	2,780	3,550	8	3,467	4,428
U.S. Northeast Coast to Other Med (0119)	1	0	691	0	0	557	1	0	722	1	0	982	1	0	1,285
Other Med to U.S. Northeast Coast (1901)	1	392	673	392	501	501	1	509	650	1	693	884	1	906	1,157
U.S. Northeast Coast to China (0.21)	1	0	0	0	0	11	0	0	18	0	25	31	0	40	51
China to U.S. Northeast Coast (2101)	0	0	120	9	27	34	0	14	30	0	14	18	0	8	11
U.S. Northeast Coast to South East Asia (0122)	0	0	0	27	2	37	0	3	35	0	5	37	0	8	44
South East Asia to U.S. Northeast Coast (2201)	1	13	235	32	40	40	0	30	38	0	32	41	0	37	48
U.S. Northeast Coast to Indian Sub-Continent (0123)	1	50	150	97	124	124	0	161	206	1	315	403	2	532	680
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	42	7	7	34	0	8	36	0	9	110	1	10	185
Total - U.S. Northeast Coast Routes	26	10,574	22,009	41	15,945	35,778	49	18,812	42,302	99	22,774	51,497	72	27,667	62,647
Total - US Routes	76	26,612	57,511	96	35,219	74,004	104	38,712	80,751	113	42,351	90,463	133	49,436	107,039

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 80,000 to 100,000 DWT (PD)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	0	0	344	0	26	681	1	18	876	1	24	1,536	2	29	2,392
Northern Europe to U.S. Northeast Coast (0801)	0	388	568	1	966	1,193	1	1,243	1,534	1	2,179	2,691	2	3,364	4,190
U.S. Northeast Coast to Southern Europe (0109)	0	0	170	1	7	1,525	1	6	1,752	1	2	1,395	1	1	1,092
Southern Europe to U.S. Northeast Coast (0901)	0	0	81	1	736	909	1	846	1,044	1	675	831	0	527	661
U.S. Northeast Coast to Japan (0110)	0	0	175	0	5	8	0	6	8	0	7	8	0	7	9
Japan to U.S. Northeast Coast (1001)	0	0	81	0	0	3	0	0	3	0	0	4	0	0	4
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	76	84	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	4	5	0	7	9	0	13	16	0	23	28
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	1	0	1,862	2	0	2,961	3	0	3,405	3	0	4,392	4	0	5,360
South America East Coast to U.S. Northeast Coast (1301)	0	1,614	1,738	2	2,663	3,288	3	3,063	3,781	4	3,941	4,866	5	4,821	5,952
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	153	189	0	178	219	0	180	222	0	168	208
U.S. Northeast Coast to East Africa (0115)	0	0	175	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	18	22	0	17	21	0	15	19	0	14	17
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	31	39	0	43	53	0	63	78	0	89	109
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	84	0	0	696	1	0	865	1	0	1,050	1	0	1,268
Arabian Gulf to U.S. Northeast Coast (1801)	0	77	81	1	411	507	1	511	630	1	620	765	1	749	924
U.S. Northeast Coast to Other Med (0119)	0	0	168	0	0	281	0	0	364	0	0	491	0	0	635
Other Med to U.S. Northeast Coast (1901)	0	554	554	1	608	750	1	786	970	1	1,060	1,308	1	1,372	1,694
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	175	0	0	0	0	0	0	0	0	0	0	0	1
South East Asia to U.S. Northeast Coast (2201)	0	0	258	0	1	2	0	1	1	0	1	1	0	1	2
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	15	18	0	24	30	0	48	59	0	81	99
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	5	2,709	6,599	9	5,645	13,078	11	6,748	15,568	14	8,826	19,723	18	11,277	24,638
Total - US Routes	20	11,023	26,428	31	17,832	40,945	33	19,356	43,702	38	22,852	50,894	46	27,968	60,826

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 100,000 to 175,000 DWT (PE)
On U.S. Northeast Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northeast Coast (0801)	0	100	108	0	0	108	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Southern Europe (0109)	0	0	108	0	0	108	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northeast Coast (0901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	0	0	323	0	0	323	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northeast Coast (1301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	108	0	0	108	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	216	0	0	216	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	1	819	1,093	1	1,255	1,467	1	1,594	1,853	2	2,204	2,577	2	2,810	3,287
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	1	919	2,064	1	3,247	3,797	1	4,303	5,032	2	6,385	7,468	2	8,686	10,159
Total - US Routes	2	1,428	3,457	4	7,765	12,240	4	9,967	14,746	5	14,280	19,796	5	19,276	25,724

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Product Tankers - 175,000 to 250,000 DWT (PF)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northeast Coast (0801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Southern Europe (0109)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northeast Coast (0901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Japan (0110)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northeast Coast (1001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Australia/New Zealand (0111)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northeast Coast (1201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America East Coast (0113)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northeast Coast (1301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South America West Coast (0114)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to East Africa (0115)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Arabian Gulf (0118)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northeast Coast (1801)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Other Med (0119)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northeast Coast (1901)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to China (0121)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northeast Coast (2101)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South East Asia (0122)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northeast Coast (2201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Indian Sub-Continent (0123)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northeast Coast (2301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northeast Coast Routes	0	0	0	0	484	566	0	652	762	0	976	1,142	0	1,332	1,558
Total - US Routes	0	0	0	0	1,005	1,175	0	1,365	1,596	0	2,036	2,381	0	2,797	3,271

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Other Ships (XX)
On U.S. Northeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northeast Coast to Northern Europe (0108)	2	84	791	2	167	968	3	176	1,081	3	157	1,202	3	141	1,284
Northern Europe to U.S. Northeast Coast (0801)	2	359	478	2	484	598	2	541	668	2	601	742	3	642	793
U.S. Northeast Coast to Southern Europe (0109)	1	23	352	0	34	127	1	34	181	1	29	280	1	26	425
Southern Europe to U.S. Northeast Coast (0901)	1	40	268	0	76	94	0	108	133	1	167	206	1	253	312
U.S. Northeast Coast to Japan (0110)	2	3	288	1	5	288	1	5	250	3	5	356	3	5	507
Japan to U.S. Northeast Coast (1001)	2	170	345	1	182	225	2	250	309	2	356	440	4	508	627
U.S. Northeast Coast to Australia/New Zealand (0111)	1	0	46	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northeast Coast (1101)	1	0	18	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to Far East NIC's (0112)	1	30	167	1	100	124	1	164	205	2	332	409	4	628	775
Far East NIC's to U.S. Northeast Coast (1201)	1	11	131	1	97	97	1	90	160	2	167	323	4	294	611
U.S. Northeast Coast to South America East Coast (0113)	3	32	431	8	46	1,005	9	60	1,136	11	86	1,375	13	1,611	1,611
South America East Coast to U.S. Northeast Coast (1301)	2	568	568	8	1,026	1,266	9	1,159	1,430	10	1,403	1,732	12	1,644	2,030
U.S. Northeast Coast to South America West Coast (0114)	0	16	37	0	20	24	0	22	27	0	22	28	0	22	27
South America West Coast to U.S. Northeast Coast (1401)	0	0	0	0	54	66	0	48	59	0	53	65	0	63	77
U.S. Northeast Coast to East Africa (0115)	1	0	374	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northeast Coast (1501)	1	0	333	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to West Africa (0116)	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northeast Coast (1601)	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northeast Coast to South Africa (0117)	0	0	64	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northeast Coast (1701)	0	3	64	0	0	0	0	5	7	0	9	27	0	14	43
U.S. Northeast Coast to Arabian Gulf (0118)	0	105	499	1	249	307	1	381	471	2	665	821	3	1,021	1,260
Arabian Gulf to U.S. Northeast Coast (1801)	1	0	244	1	0	255	1	0	359	1	0	627	2	0	1,962
U.S. Northeast Coast to Other Med (0119)	1	11	514	0	19	24	0	26	32	0	26	32	0	21	25
Other Med to U.S. Northeast Coast (1901)	0	0	6	0	0	1	0	0	2	0	0	2	0	0	1
U.S. Northeast Coast to China (0121)	0	7	32	0	12	15	0	13	16	0	14	18	0	14	17
China to U.S. Northeast Coast (2101)	0	0	0	0	7	9	0	8	10	0	12	15	0	18	23
U.S. Northeast Coast to South East Asia (0122)	2	3	459	0	9	11	0	11	14	0	14	17	0	14	17
South East Asia to U.S. Northeast Coast (2201)	3	1	590	0	4	13	0	5	18	0	7	22	0	9	22
U.S. Northeast Coast to Indian Sub-Continent (0123)	1	5	374	0	9	11	0	10	12	0	8	10	0	7	8
Indian Sub-Continent to U.S. Northeast Coast (2301)	1	0	333	0	1	10	0	2	11	0	3	10	0	3	8
Total - U.S. Northeast Coast Routes	29	1,472	7,882	26	2,566	5,427	31	3,116	6,603	41	4,137	8,769	54	5,473	11,485
Total - US Routes	121	4,312	39,929	104	8,033	24,083	134	9,808	28,048	179	12,739	35,395	220	16,255	43,535

Southeast Coast

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For All Shipyards
On U.S. Southeast Coast Routes

ROUTE	1987			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	29	2,889	12,889	8,979	5,122	9,156	13	9,156	9,068	14	5,379	9,068
Northern Europe to U.S. Southeast Coast (0802)	27	3,209	11,922	9,680	4,426	9,787	13	5,396	10,522	15	6,343	11,602
U.S. Southeast Coast to Southern Europe (0209)	20	1,029	6,747	3,596	1,852	4,177	12	1,789	5,742	16	1,687	7,631
Southern Europe to U.S. Southeast Coast (0702)	17	2,113	11,360	7,125	5,693	8,131	12	8,274	10,413	16	10,842	13,640
U.S. Southeast Coast to Japan (0210)	24	936	4,009	5,885	2,521	2,484	18	2,467	5,724	15	2,504	5,430
Japan to U.S. Southeast Coast (1002)	30	1,214	6,411	7,876	1,480	7,955	18	1,598	7,179	15	1,921	6,501
U.S. Southeast Coast to Australia/New Zealand (0211)	7	131	1,580	7,546	277	601	2	353	7,698	2	468	820
U.S. Southeast Coast to U.S. Southeast Coast (1102)	3	505	1,980	735	617	794	1	643	859	1	620	862
U.S. Southeast Coast to Far East NIC's (0212)	24	1,167	2,914	6,267	3,692	6,183	47	6,183	17,590	137	17,928	27,940
Far East NIC's to U.S. Southeast Coast (1202)	9	1,568	1,664	6,114	790	9,979	17	1,154	17,957	45	1,452	26,900
U.S. Southeast Coast to South America East Coast (0213)	127	4,044	25,794	25,118	5,982	7,619	19	11,052	31,857	152	16,071	39,044
South America East Coast to U.S. Southeast Coast (1302)	95	13,497	21,195	21,931	16,819	23,347	86	18,640	27,670	113	20,503	33,772
U.S. Southeast Coast to South America West Coast (0214)	15	561	2,973	9,902	16,543	10,413	32	11,991	11,304	34	1,577	11,861
South America West Coast to U.S. Southeast Coast (1402)	12	5,340	6,362	9,841	8,742	11,416	23	10,327	13,651	26	11,573	15,558
U.S. Southeast Coast to East Africa (0215)	2	2	693	7	5	7	0	5	7	0	4	6
East Africa to U.S. Southeast Coast (1502)	1	9	489	7	3	7	0	1	6	0	0	6
U.S. Southeast Coast to West Africa (0216)	2	80	425	244	183	247	1	149	225	1	110	247
West Africa to U.S. Southeast Coast (1602)	11	4,248	18,096	12,651	10,693	15,857	12	18,632	21,877	15	23,760	27,848
U.S. Southeast Coast to South Africa (0217)	2	74	415	798	136	896	2	264	934	2	1,023	1,023
South Africa to U.S. Southeast Coast (1702)	10	99	175	4,846	5,817	6,841	1	8,945	10,506	2	12,540	16,718
U.S. Southeast Coast to Arabian Gulf (0218)	6	336	3,010	5,176	9,980	6,518	28	1,494	8,740	37	2,219	11,588
Arabian Gulf to U.S. Southeast Coast (1802)	6	572	4,157	13,177	9,634	16,361	61	15,214	21,290	78	19,424	27,532
U.S. Southeast Coast to Other Med (0219)	11	558	3,499	2,364	1,886	2,894	5	1,580	3,685	6	2,023	4,687
Other Med to U.S. Southeast Coast (1902)	4	531	4,149	1,792	1,140	2,213	2	2,045	3,000	3	2,718	3,960
U.S. Southeast Coast to China (2102)	3	447	533	1,285	1,755	2,299	14	3,158	4,119	24	5,173	6,729
China to U.S. Southeast Coast (0221)	2	53	327	817	351	469	3	1,270	2,083	8	867	3,222
U.S. Southeast Coast to South East Asia (0222)	21	304	6,133	1,793	1,179	1,270	5	1,934	3,306	14	2,832	4,517
South East Asia to U.S. Southeast Coast (2202)	13	677	3,246	2,540	1,569	2,334	11	1,701	4,480	12	1,915	5,613
U.S. Southeast Coast to Indian Sub-Continent (0223)	5	123	1,195	1,235	1,537	1,538	8	1,794	1,967	9	1,112	2,425
Indian Sub-Continent to U.S. Southeast Coast (2302)	2	58	1,491	771	528	952	2	720	1,199	3	1,790	1,525
Total - U.S. Southeast Coast Routes	533	45,376	163,835	420	86,522	172,948	488	104,597	202,010	625	136,147	256,956

Total - US Routes 3,735 598,926 1,565,968 3,494 947,703 1,882,644 4,031 1,104,854 2,191,823 4,870 1,328,408 2,664,842 6,128 1,623,171 3,310,127

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype General Cargo - (Less than 10,000 DWT (AG))
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	2	32	153	1	36	82	1	39	84	1	44	81	1	54	80
Northern Europe to U.S. Southeast Coast (0802)	1	87	122	1	52	77	0	53	79	1	51	76	1	51	76
U.S. Southeast Coast to Southern Europe (0209)	1	9	88	0	8	19	0	9	23	0	10	33	1	10	44
Southern Europe to U.S. Southeast Coast (0902)	0	14	46	0	15	22	0	18	27	0	26	39	0	35	52
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	1	2	40	0	2	2	0	2	3	0	2	4	0	3	4
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	16	0	0	1	0	0	1	0	0	1	0	0	2
U.S. Southeast Coast to Far East NIC's (0212)	0	2	15	0	3	5	0	5	7	0	6	9	0	6	9
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	17	338	1,276	8	329	487	11	470	696	19	808	1,197	30	1,293	1,915
U.S. Southeast Coast to South America West Coast (1302)	12	288	1,120	5	176	456	7	155	652	13	154	1,121	20	173	1,794
U.S. Southeast Coast to South America East Coast (0214)	1	68	122	1	49	72	1	59	87	1	79	118	2	106	158
South America West Coast to U.S. Southeast Coast (1402)	1	75	112	1	47	74	1	46	89	1	37	119	1	29	160
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	5	22	0	11	17	0	11	17	0	8	15	0	4	22
West Africa to U.S. Southeast Coast (1602)	0	3	11	0	2	6	0	2	6	0	4	8	0	5	18
U.S. Southeast Coast to South Africa (0217)	0	2	14	0	3	4	0	5	7	0	6	8	0	5	17
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	1	1	0	1	1	0	0	0	0	0	1
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	1	30	0	0	1	0	1	1	0	1	1	0	1	2
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	2	3	0	3	4	0	4	6	0	6	9
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	6	6	0	6	6	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	1	1	0	1	2	0	1	2	0	2	3
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	1	0	1	1	0	1	1	0	1	1
Total - U.S. Southeast Coast Routes	38	923	3,206	17	737	1,332	22	880	1,786	36	1,243	2,838	56	1,784	4,316
Total US routes	184	3,657	15,320	75	3,169	6,058	89	3,754	7,111	129	5,029	10,024	185	6,790	14,132

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Container - Greater than 10,000 DWT (AC)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	4	1,315	2,192	5	2,158	2,821	6	2,394	3,130	6	2,495	3,261	6	2,508	3,279
Northern Europe to U.S. Southeast Coast (0802)	5	1,231	2,884	6	1,558	3,718	7	1,590	4,125	7	1,489	4,298	7	1,465	4,321
U.S. Southeast Coast to Southern Europe (0209)	3	405	1,124	3	630	1,268	4	700	1,518	5	786	2,167	7	808	3,032
Southern Europe to U.S. Southeast Coast (0902)	4	692	1,236	4	1,067	1,395	5	1,278	1,670	7	1,824	2,384	7	2,551	3,335
U.S. Southeast Coast to Japan (0210)	4	678	1,588	4	1,466	1,916	4	1,620	2,118	5	1,767	2,310	5	1,890	2,470
U.S. Southeast Coast to U.S. Southeast Coast (1002)	3	387	1,284	3	388	1,524	3	452	1,685	4	604	1,857	4	684	1,965
U.S. Southeast Coast to Australia/New Zealand (0211)	2	74	532	1	121	354	2	172	385	2	238	474	2	326	558
Australia/New Zealand to U.S. Southeast Coast (1102)	1	94	228	1	117	152	1	127	166	1	156	204	1	184	240
U.S. Southeast Coast to Far East NIC's (0212)	5	905	1,840	9	2,858	3,736	15	4,856	6,348	27	9,030	11,804	45	15,042	19,663
Far East NIC's to U.S. Southeast Coast (1202)	4	621	1,437	7	2,523	3,918	11	5,977	4,958	21	7,703	9,220	35	8,859	15,358
U.S. Southeast Coast to South America East Coast (0213)	4	1,209	1,209	7	2,046	2,675	10	2,850	3,726	16	4,415	5,772	24	6,828	8,653
South America East Coast to U.S. Southeast Coast (1302)	4	1,218	1,637	9	1,492	3,365	13	1,531	4,687	20	1,631	7,261	30	1,772	10,886
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	27	35	0	32	42	0	42	55	0	57	75
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	110	143	0	118	154	0	101	133	0	82	108
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	1	1	0	1	1	0	1	1	0	1	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	10	13	0	11	14	0	11	15	0	11	15
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	9	11	0	11	15	0	15	19	0	21	27
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	11	15	0	14	18	0	19	24	0	22	29
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	5	6	0	5	6	0	4	5	0	3	4
U.S. Southeast Coast to Arabian Gulf (0218)	2	164	512	2	297	388	2	407	532	4	681	891	5	1,095	1,373
Arabian Gulf to U.S. Southeast Coast (1802)	1	16	215	1	26	222	1	35	304	2	47	509	3	69	774
U.S. Southeast Coast to Other Med (0219)	2	136	720	3	234	1,484	4	433	1,951	6	737	2,951	9	1,135	4,498
Other Med to U.S. Southeast Coast (1902)	0	70	70	1	110	144	1	144	189	1	219	266	2	333	435
U.S. Southeast Coast to China (0221)	0	0	0	0	269	352	0	497	650	0	781	1,021	0	1,120	1,465
China to U.S. Southeast Coast (2102)	0	0	0	0	21	27	0	29	37	0	41	53	0	57	75
U.S. Southeast Coast to South East Asia (0222)	2	206	768	1	453	592	2	671	878	4	1,169	1,528	6	1,929	2,522
South East Asia to U.S. Southeast Coast (2202)	2	461	860	2	426	681	3	483	1,010	4	1,562	1,756	7	2,051	2,901
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	3	4	0	3	4	0	3	4	0	4	5
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	11	14	0	11	15	0	11	14	0	10	14
Total - U.S. Southeast Coast Routes	51	881	20,448	68	16,444	29,972	92	21,074	40,337	141	29,582	60,260	209	41,357	88,058

Total - US Routes

270 59,769 113,874 361 94,266 161,096 459 118,600 206,262 668 166,153 300,329 907 234,546 403,474

3/16/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Container - Less than 10,000 DWT (AD)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0206)	0	0	9	0	18	34	0	20	35	0	22	37	0	27	39
Northern Europe to U.S. Southeast Coast (0802)	0	6	10	0	36	46	0	37	49	0	38	50	1	41	54
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	4	5	0	4	6	0	4	7	0	5	7
Southern Europe to U.S. Southeast Coast (0902)	0	5	15	0	14	18	0	17	22	0	24	31	0	32	42
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	26	0	1	1	0	1	1	0	1	2	0	1	2
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	2	2	0	2	3	0	3	4	0	3	4
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	3	114	190	8	340	705	9	483	794	0	820	1,072	21	1,333	1,743
South America East Coast to U.S. Southeast Coast (1302)	2	142	227	5	426	556	6	480	628	13	536	848	12	605	1,379
U.S. Southeast Coast to South America West Coast (0214)	1	29	109	1	59	77	1	73	96	1	103	134	2	140	183
South America West Coast to U.S. Southeast Coast (1402)	1	50	74	0	70	92	1	71	114	1	64	159	1	58	217
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	6	7	0	6	7	0	4	5	0	2	2
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	1	1	0	1	2	0	2	3	0	3	4
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	1	2	0	2	3	0	3	4	0	2	3
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	1	2	0	2	2	0	2	3	0	3	4
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	1	1	0	1	2	0	2	3	0	3	4
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	7	344	669	15	980	1,550	17	1,203	1,765	23	1,631	2,363	37	2,261	3,689

Total - US Routes

36 1,706 4,782 52 4,927 7,566 59 5,803 8,573 77 7,521 11,002 111 9,845 15,225

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipoyce Koko - Greater than 10,000 DWT (AE)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	4	306	1,892	1	527	744	1	553	769	1	589	819	1	612	850
Northern Europe to U.S. Southeast Coast (0602)	5	512	2,048	1	595	826	1	611	854	1	573	909	1	555	944
U.S. Southeast Coast to Southern Europe (0209)	1	73	2,578	0	116	162	0	129	179	0	139	254	0	137	347
Southern Europe to U.S. Southeast Coast (0902)	0	39	213	0	72	112	0	87	124	0	127	177	0	174	242
U.S. Southeast Coast to Japan (0210)	1	20	315	0	20	27	0	19	27	0	12	17	0	8	11
Japan to U.S. Southeast Coast (1002)	2	20	906	0	12	48	0	17	48	0	13	30	0	9	19
U.S. Southeast Coast to Australia/New Zealand (0211)	1	13	426	0	24	42	0	35	50	0	50	76	0	71	99
U.S. Southeast Coast to U.S. Southeast Coast (1102)	0	5	120	0	7	10	0	8	12	0	13	18	0	17	23
Australia/New Zealand to U.S. Southeast Coast (1102)	1	10	363	0	25	35	0	34	48	0	51	68	0	68	95
U.S. Southeast Coast to Far East NIC's (0212)	0	35	155	0	28	46	0	30	62	0	36	91	0	43	123
Far East NIC's to U.S. Southeast Coast (1202)	0	263	992	3	463	643	4	649	901	7	1,110	1,542	12	1,801	2,502
U.S. Southeast Coast to South America East Coast (0213)	4	215	763	2	410	571	3	399	801	4	384	1,370	7	372	2,224
South America East Coast to U.S. Southeast Coast (1302)	3	29	153	1	38	214	1	50	200	0	75	164	0	107	148
U.S. Southeast Coast to South America West Coast (0214)	1	156	184	0	154	213	0	143	199	0	117	163	0	103	147
South America West Coast to U.S. Southeast Coast (1402)	1	0	15	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	20	174	0	76	106	1	75	105	0	51	71	0	24	47
U.S. Southeast Coast to West Africa (0216)	1	7	60	0	8	77	0	11	77	0	16	52	0	25	34
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	1	11	477	0	32	45	0	44	61	0	71	99	0	105	146
U.S. Southeast Coast to Arabian Gulf (0218)	1	5	290	0	6	83	0	8	59	0	12	97	0	17	142
Arabian Gulf to U.S. Southeast Coast (1802)	1	33	537	0	62	83	0	132	184	1	190	264	1	220	306
U.S. Southeast Coast to Other Med (0219)	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Other Med to U.S. Southeast Coast (1902)	0	0	28	0	78	108	0	181	251	0	276	384	0	371	515
U.S. Southeast Coast to China (0221)	0	0	0	0	12	17	0	16	22	0	23	32	0	32	45
China to U.S. Southeast Coast (2102)	2	0	594	0	0	6	0	0	7	0	0	10	0	0	13
U.S. Southeast Coast to South East Asia (0222)	1	13	162	0	1	2	0	1	2	0	2	3	0	3	4
South East Asia to U.S. Southeast Coast (2202)	0	0	43	0	26	35	0	44	61	0	94	130	1	185	257
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	5	7	0	7	9	0	8	12	0	10	14
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	32	1,811	11,284	10	2,784	4,231	12	3,287	5,113	17	4,038	6,857	25	5,070	9,301
Total - US Routes	100	9,293	38,142	60	15,888	33,720	70	19,444	40,712	92	26,383	55,502	124	35,388	75,361

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype RORO - Less than 10,000 DWT (AF)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	1	22	86	0	31	45	0	33	46	0	35	48	0	34	47
Northern Europe to U.S. Southeast Coast (0802)	0	8	32	0	8	12	0	8	12	0	8	12	0	7	12
U.S. Southeast Coast to Southern Europe (0209)	1	16	117	0	20	28	0	22	31	0	24	33	0	23	41
Southern Europe to U.S. Southeast Coast (0902)	0	4	51	0	7	15	0	8	17	0	12	18	0	16	22
U.S. Southeast Coast to Japan (0210)	0	10	24	0	11	15	0	12	16	0	12	17	0	13	18
Japan to U.S. Southeast Coast (1002)	0	5	16	0	3	11	0	3	12	0	2	12	0	1	13
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	40	204	3,193	14	266	1,096	14	413	1,119	15	696	1,206	19	1,096	1,508
South America East Coast to U.S. Southeast Coast (1302)	40	618	3,280	13	713	1,032	14	759	1,054	15	818	1,136	19	866	1,421
U.S. Southeast Coast to South America West Coast (0214)	2	31	259	1	28	181	1	32	153	1	57	109	1	45	87
South America West Coast to U.S. Southeast Coast (1402)	2	202	219	1	136	189	1	115	160	1	82	113	1	65	91
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	3	0	0	1	0	1	1	0	1	1	0	1	2
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	5	0	0	1	0	1	1	0	1	1	0	1	2
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	1	2	0	2	2	0	2	3	0	3	4
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	87	1,122	7,330	31	1,276	2,629	31	1,409	2,625	32	1,729	2,712	40	2,163	3,268
Total - US Routes	127	2,502	11,441	68	3,507	6,849	76	4,139	7,616	90	5,433	8,950	108	6,936	10,690

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - Less than 20,000 DWT (DA)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0206)	2	179	516	1	236	308	1	266	321	1	193	252	1	143	206
U.S. Southeast Coast to U.S. Southeast Coast (0202)	1	86	299	1	115	216	1	125	225	1	120	176	0	110	144
U.S. Southeast Coast to Southern Europe (0209)	1	28	163	1	54	179	1	46	226	1	39	386	2	34	631
Southern Europe to U.S. Southeast Coast (0902)	0	58	90	0	68	90	1	86	113	1	147	192	2	241	315
U.S. Southeast Coast to Japan (0210)	0	7	55	1	76	100	1	68	89	0	49	64	0	31	41
U.S. Southeast Coast to U.S. Southeast Coast (1002)	0	1	52	1	3	97	0	4	87	0	4	63	0	6	40
U.S. Southeast Coast to Australia/New Zealand (0211)	0	1	18	0	3	4	0	3	4	0	2	3	0	2	2
U.S. Southeast Coast to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	9	19	0	20	26	0	27	36	0	28	37	0	22	29
Far East NIC's to U.S. Southeast Coast (1202)	0	0	15	0	0	23	0	0	32	0	0	33	0	0	25
U.S. Southeast Coast to South America East Coast (0213)	2	46	399	3	56	430	2	79	323	1	119	191	1	192	198
South America East Coast to U.S. Southeast Coast (1302)	1	250	257	2	207	271	1	162	211	1	94	123	1	50	128
U.S. Southeast Coast to South America West Coast (0214)	0	9	23	0	6	45	0	6	52	0	36	47	0	6	38
South America West Coast to U.S. Southeast Coast (1402)	0	17	19	0	35	45	0	40	52	0	0	46	0	29	38
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	5	14	0	23	31	0	32	41	0	39	51	0	47	62
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	17	0	5	6	0	4	5	0	1	2	0	0	1
U.S. Southeast Coast to Other Med (0219)	0	31	46	0	12	15	0	8	8	0	5	9	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	3	29	0	2	11	0	4	10	0	7	12	0	3	22
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	8	19	0	34	44	1	10	96	1	112	146	1	128	168
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	9	12	0	5	13	0	8	12	0	7	9
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	6	18	0	3	4	0	5	7	0	8	11	0	11	15
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	11	765	2,115	10	967	1,956	10	1,028	1,967	9	1,020	1,859	10	1,034	2,127
Total - US Routes	82	5,982	15,249	84	8,342	16,982	90	8,915	18,008	99	9,603	19,071	117	10,934	21,991

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 20,000 to 40,000 DWT (08)
On U.S. Southeast Coast Routes
1995

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	2	242	1,259	1	411	526	1	415	574	1	415	574	1	392	497
Northern Europe to U.S. Southeast Coast (0802)	3	333	1,626	1	229	695	1	181	702	1	181	702	1	128	645
U.S. Southeast Coast to Southern Europe (0209)	2	268	626	2	319	636	2	282	779	3	157	1,185	4	84	1,533
Southern Europe to U.S. Southeast Coast (0902)	4	293	696	2	668	853	2	819	1,044	3	1,246	1,591	3	1,611	2,058
U.S. Southeast Coast to Japan (0210)	4	244	796	2	279	357	2	255	326	1	141	180	1	70	89
Japan to U.S. Southeast Coast (1002)	6	196	1,695	3	141	860	2	155	785	1	127	434	1	11	215
U.S. Southeast Coast to Australia/New Zealand (0211)	0	2	59	0	5	28	0	6	30	0	8	29	0	11	28
Australia/New Zealand to U.S. Southeast Coast (1102)	0	179	274	0	156	200	0	168	214	0	166	212	0	147	187
U.S. Southeast Coast to Far East NIC's (0212)	2	37	505	0	112	144	1	179	229	1	255	326	1	310	396
Far East NIC's to U.S. Southeast Coast (1202)	3	57	411	0	22	186	0	23	297	1	21	423	1	20	514
U.S. Southeast Coast to South America East Coast (0213)	2	169	1,390	3	234	1,484	2	268	1,189	1	315	758	1	357	485
South America East Coast to U.S. Southeast Coast (1302)	3	1,371	1,432	3	1,198	1,530	2	959	1,225	2	612	781	1	591	900
U.S. Southeast Coast to South America West Coast (0214)	0	72	125	1	98	497	1	116	571	1	178	488	1	213	304
South America West Coast to U.S. Southeast Coast (1402)	0	186	214	1	431	550	1	495	632	1	423	540	1	333	425
U.S. Southeast Coast to East Africa (0215)	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	46	68	0	71	91	0	82	105	0	119	152	1	173	221
U.S. Southeast Coast to South Africa (0217)	0	14	131	1	44	390	1	76	470	1	102	533	1	86	609
South Africa to U.S. Southeast Coast (1702)	0	30	59	0	90	115	0	108	138	0	123	157	1	140	179
U.S. Southeast Coast to Arabian Gulf (0218)	1	37	217	0	36	50	0	32	78	0	11	122	1	3	194
Arabian Gulf to U.S. Southeast Coast (1802)	0	30	64	0	21	27	0	32	41	0	51	66	0	81	105
U.S. Southeast Coast to Other Med (0219)	1	211	344	1	175	223	1	220	281	1	200	256	1	134	172
Other Med to U.S. Southeast Coast (1902)	0	5	109	0	9	56	0	9	71	0	11	64	0	13	43
U.S. Southeast Coast to China (0221)	1	97	106	1	138	176	1	236	302	3	436	557	5	729	932
China to U.S. Southeast Coast (2102)	0	0	89	1	0	242	1	0	415	2	0	765	3	0	1,280
U.S. Southeast Coast to South East Asia (0222)	2	15	373	0	68	87	1	154	197	1	231	295	1	251	320
South East Asia to U.S. Southeast Coast (2202)	4	6	925	1	6	345	2	6	783	3	6	1,171	3	4	1,271
U.S. Southeast Coast to Indian Sub-Continent (0223)	1	50	154	1	232	297	2	277	353	2	321	410	2	305	388
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	646	87,212	206,137	558	111,051	203,615	628	122,762	232,001	673	128,477	253,047	752	137,203	287,952

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 40,000 to 80,000 DWT (DC)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	2	104	1,333	1	268	1,256	1	299	1,299	1	318	1,031	1	347	690
Northern Europe to U.S. Southeast Coast (0802)	0	136	196	0	226	279	0	234	289	0	186	229	0	124	153
U.S. Southeast Coast to Southern Europe (0209)	0	48	131	1	239	299	1	257	318	1	259	344	1	254	445
Southern Europe to U.S. Southeast Coast (0902)	1	572	1,083	3	1,398	2,766	4	1,713	2,976	4	2,612	3,225	5	3,372	4,163
U.S. Southeast Coast to Japan (0210)	2	182	575	1	185	280	1	178	220	0	96	168	0	47	163
Japan to U.S. Southeast Coast (1002)	1	182	511	0	161	260	0	185	270	0	167	206	0	162	200
Australia/New Zealand to U.S. Southeast Coast (1102)	1	31	376	0	27	217	0	31	233	0	18	290	0	9	205
U.S. Southeast Coast to Australia/New Zealand (0211)	1	214	214	0	242	299	0	260	321	0	257	317	0	227	280
U.S. Southeast Coast to Far East NIC's (0212)	1	77	215	1	193	238	1	309	392	2	425	525	1	406	502
Far East NIC's to U.S. Southeast Coast (1202)	1	78	301	1	40	566	1	43	906	2	42	525	1	406	502
U.S. Southeast Coast to South America East Coast (0213)	1	152	581	1	189	872	1	198	721	2	42	1,244	2	41	1,190
South America East Coast to U.S. Southeast Coast (1302)	0	313	313	1	516	637	1	427	527	1	222	501	0	254	360
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	20	25	0	297	366	0	37	46
South America West Coast to U.S. Southeast Coast (1402)	0	44	48	0	17	155	0	136	168	0	93	119	0	66	82
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	63	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	14	61	0	5	6	0	5	6	0	2	2	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	13	15	0	14	18	0	21	26	0	31	38
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	8	10	0	13	17	0	18	22	0	15	19
South Africa to U.S. Southeast Coast (1702)	0	41	41	0	85	105	0	96	119	0	103	127	0	111	137
U.S. Southeast Coast to Arabian Gulf (0218)	0	61	87	0	63	78	0	57	104	0	19	163	0	5	68
Arabian Gulf to U.S. Southeast Coast (1802)	0	44	49	0	36	52	0	56	69	0	88	109	0	140	173
U.S. Southeast Coast to Other Med (0219)	0	55	72	0	83	102	0	108	134	0	100	124	0	68	83
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	95	118	0	90	111	0	102	126	0	115	142
U.S. Southeast Coast to China (0221)	1	171	181	1	253	313	2	437	540	3	816	1,007	6	1,381	1,705
China to U.S. Southeast Coast (2102)	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	2	34	498	0	57	70	1	130	161	1	189	234	1	193	238
South East Asia to U.S. Southeast Coast (2202)	1	0	261	0	10	38	0	10	87	0	15	126	0	22	128
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	41	51	0	49	60	0	56	70	0	53	66
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	1	42	0	2	2	0	1	2	0	1	1	0	1	1
Total - U.S. Southeast Coast Routes	15	2,560	7,422	12	4,579	9,069	15	5,359	10,081	17	6,599	10,684	20	7,694	11,729

Total - US Routes 391 84,816 193,869 328 107,537 204,354 369 119,897 230,207 354 119,065 228,221 351 117,619 232,577

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 80,000 to 100,000 DWT (00)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	36	42	0	40	47	0	44	52	0	50	59
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	33	39	0	35	41	0	28	32	0	19	22
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	33	38	0	37	43	0	41	48	0	42	50
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	372	355	0	372	435	0	572	668	0	740	865
U.S. Southeast Coast to Japan (0210)	0	0	0	0	24	28	0	24	28	0	26	30	0	6	7
Japan to U.S. Southeast Coast (1002)	0	0	0	0	5	5	0	5	6	0	3	3	0	25	29
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	38	44	0	41	48	0	40	47	0	36	42
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	31	36	0	49	57	0	67	79	0	62	73
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	6	8	0	7	8	0	7	8	0	7	8
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	26	31	0	27	32	0	30	35	0	35	40
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	55	64	0	46	54	0	34	40	0	26	30
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	9	10	0	9	10	0	4	5	0	1	2
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	24	27	0	24	28	0	23	27	0	22	26
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	10	12	0	9	11	0	3	4	0	1	1
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	6	7	0	9	10	0	14	16	0	22	26
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	9	11	0	9	11	0	11	13	0	8	9
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	17	19	0	16	18	0	18	21	0	20	23
U.S. Southeast Coast to China (0221)	0	0	0	0	40	47	0	70	82	0	130	153	0	221	258
China to U.S. Southeast Coast (2102)	0	0	0	0	8	9	0	19	22	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	2	2	0	2	2	0	3	3	0	4	5
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	6	3,792	5,948	16	20,555	29,809	18	22,677	32,912	0	1,138	1,331	0	1,374	1,607

Total - US Routes 17 21,827 32,219

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 100,000 to 175,000 DWT (DE)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (1208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0207)	0	0	0	11	13	14	0	14	16	0	14	16	0	14	17
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	136	159	195	0	260	304	0	339	396	0	396	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	7	8	7	0	5	6	0	4	5	0	4	5
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	43	25,011	55,271	38	31,318	56,274	44	35,695	65,663	43	34,324	68,298	42	32,948	70,850

Total - US Routes

3/14/9X

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - Greater than 175,000 DWT (DF)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East MIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East MIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	2	669	3,119	3	7,332	11,062	3	8,043	12,477	3	7,363	12,435	3	6,818	12,472

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - Less than 20,000 DWT (EA)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	1	177	300	1	146	269	1	127	250	1	90	196	1	60	140

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 20,000 to 40,000 DWT (EB)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
For East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	1	32	456	0	61	192	0	57	181	0	43	141	0	30	102

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 40,000 to 80,000 DWT (EC)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	52	205	0	54	32	0	0	39	0	12	15	0	0	5
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	27	25	0	0	30	0	27	34	0	28	35
Southern Europe to U.S. Southeast Coast (0902)	0	30	30	0	265	262	0	0	324	0	410	506	1	535	660
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	50	97	0	41	2	0	0	40	0	2	37	0	0	31
South America East Coast to U.S. Southeast Coast (1302)	0	63	97	0	57	45	0	0	56	0	42	52	0	35	43
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	78	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	11	11	0	0	14	0	11	13	0	7	9
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	1	214	506	0	654	378	0	0	504	1	504	657	1	612	784

Total - US Routes 33 16,526 29,815 28 16,180 32,061 29 16,256 32,997 27 14,850 31,485 24 13,432 28,883

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
 For Shiptype Combination Carriers - 80,000 to 100,000 DWT (ED)
 On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	45	86	0	113	132	0	95	108	0	66	118	0	40	154
Southern Europe to U.S. Southeast Coast (0902)	0	32	172	0	114	284	0	159	233	0	218	255	0	284	332
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	0	77	258	0	262	458	0	21	390	0	332	430	0	386	559
Total - US Routes	7	5,089	8,443	11	8,560	15,898	11	9,199	16,824	11	9,121	16,753	11	8,688	16,358

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 100,000 to 175,000 DWT (EE)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	22	19	18	0	0	13	0	0	0	0	0	7
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	149	127	183	0	0	244	0	0	0	0	318	372
U.S. Southeast Coast to Japan (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (10/2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	4	5	0	4	6	0	7	0	0	8	9
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	2	3	0	4	0	0	5	0	0	0	6
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals - U.S. Southeast Coast Routes	25	16,463	36,876	20	23,204	40,753	22	25,757	46,253	24	27,170	52,149	26	28,748	57,805

Total - US Routes

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Combination Carriers - Greater than 175,000 DWT (EF)
On U.S. Southeast Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0206)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	24	0	29	0	0	45	0	0	59	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	0	0	0	28	24	33	0	29	50	0	43	55	0	55	64

Total - US Routes 0 203 585 1 4,624 5,410 1 5,261 6,155 1 5,895 6,897 2 6,593 7,713

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - Less than 10,000 DWT (FA)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	17	0	0	18	0	0	20	0	0	23	0	0	24
Northern Europe to U.S. Southeast Coast (0802)	0	34	61	0	37	48	0	40	53	0	45	59	0	48	63
U.S. Southeast Coast to Southern Europe (0209)	0	0	10	0	0	3	0	0	4	0	0	3	0	0	2
Southern Europe to U.S. Southeast Coast (0902)	0	13	55	0	8	10	0	9	12	0	7	9	0	6	7
U.S. Southeast Coast to Japan (0210)	0	0	3	0	0	4	0	4	5	0	6	7	0	9	12
Japan to U.S. Southeast Coast (1002)	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	13	26	1	14	36	1	19	41	1	27	50	1	41	61
South America East Coast to U.S. Southeast Coast (1302)	1	156	161	2	159	208	2	177	232	3	219	287	3	265	47
U.S. Southeast Coast to South America West Coast (0214)	0	3	9	0	8	11	0	12	15	0	24	32	0	43	57
South America West Coast to U.S. Southeast Coast (1402)	1	79	83	1	81	106	1	100	148	2	123	306	4	141	547
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	3	4	0	10	13	0	10	13	0	7	9	0	3	4
West Africa to U.S. Southeast Coast (1602)	0	0	8	0	0	28	0	0	28	0	0	19	0	0	9
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	1	9	96	0	15	20	0	20	26	0	27	35	0	35	46
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	9	0	17	22	0	13	16	0	7	9	0	4	5
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	115	150	0	140	183	0	162	212	0	178	233
Total - U.S. Southeast Coast Routes	5	313	560	4	461	679	5	544	796	7	655	1,060	9	774	1,416

Total - US Routes 54 4,432 6,566 95 5,659 9,172 115 6,360 11,192 163 7,674 16,272 233 9,406 23,421

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shippops Tankers - (0), 000 to 40,000 DMT (PB)
On U.S. Southeast Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	2	378	810	1	536	700	1	467	2	511	611	2	511	955	3	558	1,442	3	558	1,442
Northern Europe to U.S. Southeast Coast (0802)	3	415	1,070	2	785	1,561	2	994	0	1,628	1,361	3	1,628	2,128	4	2,460	3,215	4	2,460	3,215
U.S. Southeast Coast to Southern Europe (0209)	1	19	274	0	20	26	0	18	0	8	29	0	8	23	0	3	18	0	3	18
Southern Europe to U.S. Southeast Coast (0902)	3	191	1,415	0	119	163	0	137	0	109	179	0	109	143	0	85	215	0	85	215
U.S. Southeast Coast to Japan (0210)	0	47	110	0	104	135	0	119	0	139	156	0	139	181	0	164	193	0	164	193
Japan to U.S. Southeast Coast (1002)	0	14	99	0	14	121	0	19	0	28	140	0	28	163	1	47	0	1	47	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	1	98	116	2	274	359	2	434	2	713	567	4	713	952	7	1,189	1,554	7	1,189	1,554
U.S. Southeast Coast to Far East NIC's (0212)	0	16	131	1	29	407	2	35	0	55	643	4	55	1,057	6	1,764	2,338	6	1,764	2,338
U.S. Southeast Coast to South America East Coast (0213)	8	630	4,048	11	698	6,533	12	652	12	490	7,194	15	490	8,705	18	8,438	10,338	18	8,438	10,338
South America East Coast to U.S. Southeast Coast (1302)	9	5,584	5,618	12	5,332	6,970	14	5,863	16	7,104	7,664	16	7,104	9,287	19	8,438	11,030	19	8,438	11,030
U.S. Southeast Coast to South America West Coast (0214)	0	95	191	0	25	247	1	40	1	83	328	1	83	475	1	151	612	1	151	612
South America West Coast to U.S. Southeast Coast (1402)	1	491	523	1	505	660	2	666	2	969	871	2	969	1,267	3	1,269	1,632	3	1,269	1,632
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	8	36	0	27	36	0	2	2	2	31	0	2	2	0	1	1	0	1	1
U.S. Southeast Coast to South Africa (0217)	0	1	28	0	4	5	0	5	0	9	12	0	9	16	0	11	14	0	11	14
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	8	10	0	9	0	12	12	0	12	16	0	16	21	0	16	21
U.S. Southeast Coast to Arabian Gulf (0218)	1	5	194	15	121	4,346	18	145	15	239	5,353	23	239	6,840	29	375	8,712	29	375	8,712
Arabian Gulf to U.S. Southeast Coast (1802)	2	473	473	36	8,114	10,607	44	9,935	44	12,771	13,045	57	12,771	16,694	72	16,285	21,261	72	16,285	21,261
U.S. Southeast Coast to Other Med (0219)	1	29	216	0	32	41	0	39	0	51	51	0	51	66	0	60	79	0	60	79
Other Med to U.S. Southeast Coast (1902)	0	51	51	0	90	118	0	117	0	159	153	0	159	208	0	210	274	0	210	274
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	2	2	0	2	0	2	3	0	2	3	0	2	3	0	2	3
U.S. Southeast Coast to South East Asia (0222)	1	23	110	0	26	593	3	28	3	41	537	3	41	579	3	64	652	3	64	652
South East Asia to U.S. Southeast Coast (2202)	1	149	149	2	689	900	4	647	4	672	845	4	672	879	5	757	990	5	757	990
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	80	2	0	594	3	0	3	0	726	3	0	838	4	0	921	4	0	921
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	25	25	1	172	224	1	210	1	242	274	1	242	317	1	266	348	1	266	348
Total - U.S. Southeast Coast Routes	34	8,741	15,857	94	17,526	35,362	110	20,657	139	26,053	40,811	139	26,053	51,788	177	32,964	65,418	177	32,964	65,418

Total - US Routes

295 57,310 113,686 449 88,983 168,596 491 99,642 184,180 548 115,683 214,393 684 147,117 270,379

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 40,000 to 80,000 DWT (FC)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	26	62	0	223	285	0	135	173	0	165	251	0	205	378
Northern Europe to U.S. Southeast Coast (0802)	0	63	129	0	192	567	0	299	343	0	391	499	1	588	751
U.S. Southeast Coast to Southern Europe (0209)	0	0	61	0	4	5	0	3	4	0	1	2	0	1	1
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	33	42	0	38	48	0	30	38	0	23	30
U.S. Southeast Coast to Japan (0210)	0	0	0	0	18	23	0	21	27	0	25	31	0	29	37
Japan to U.S. Southeast Coast (1002)	0	0	0	0	2	3	0	3	4	0	5	6	0	8	10
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	48	62	0	77	98	0	126	161	0	210	268
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	5	6	0	6	8	0	10	12	0	15	19
U.S. Southeast Coast to South America East Coast (0213)	2	155	1,929	3	199	3,002	3	260	3,196	3	154	3,622	4	109	4,019
South America East Coast to U.S. Southeast Coast (1302)	1	1,221	1,221	2	1,841	2,351	2	1,959	2,502	2	2,220	2,836	3	2,464	3,147
U.S. Southeast Coast to South America West Coast (0214)	0	25	61	0	4	6	0	7	9	0	14	18	0	25	32
South America West Coast to U.S. Southeast Coast (1402)	0	1,546	1,546	0	1,691	2,160	0	2,058	2,629	0	2,430	3,103	0	2,681	3,426
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	5	6	0	0	1	0	3	4	0	2	2
West Africa to U.S. Southeast Coast (1602)	0	0	418	0	0	0	0	4	5	0	3	4	0	2	3
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	1	1	0	1	1	0	2	2	0	2	2
South Africa to U.S. Southeast Coast (1702)	0	0	0	22	22	28	0	31	39	0	47	60	0	66	85
U.S. Southeast Coast to Arabian Gulf (1810)	0	0	61	0	21	27	0	26	33	0	42	54	0	66	85
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	672	0	1,432	1,829	0	1,764	2,253	0	2,254	2,878	1	2,870	3,666
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	6	7	0	7	9	0	9	11	0	11	14
Other Med to U.S. Southeast Coast (1902)	0	97	596	0	183	234	0	257	303	0	323	412	0	423	540
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	1	0	1	1	0	1	1	0	0	1
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	5	6	0	5	6	0	7	9	0	11	15
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	157	200	0	147	188	0	153	195	0	172	220
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	27	34	0	33	42	0	38	48	0	41	53
Total - U.S. Southeast Coast Routes	3	3,133	6,755	6	6,120	10,885	6	7,061	11,920	7	8,448	14,254	8	10,023	16,799
Total - US Routes	86	29,704	65,984	103	46,737	78,561	121	52,707	90,542	134	61,848	104,145	166	75,131	129,619

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipyard Tankers - 80,000 to 100,000 DWT (RD)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	23	0	0	28	0	9	12	0	13	16	0	19	23
Northern Europe to U.S. Southeast Coast (0802)	0	0	10	0	0	12	0	12	15	0	19	23	0	27	34
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	33	23	0	23	28	0	26	32	0	21	25	0	16	20
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	80	20	0	20	24	0	26	32	0	12	15	0	4	5
U.S. Southeast Coast to South America West Coast (0214)	0	0	204	0	204	252	0	208	257	0	212	262	0	207	256
South America West Coast to U.S. Southeast Coast (1402)	0	954	1,233	0	1,233	1,522	0	1,607	1,984	0	2,273	2,807	0	2,878	3,553
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	24	0	24	29	0	33	41	0	51	63	0	72	89
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	159	263	0	263	325	0	341	421	0	464	573	0	607	749
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	6	0	6	8	0	6	7	0	6	7	0	7	8
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	0	1,225	2,881	0	1,805	2,228	0	2,268	2,800	0	3,071	3,791	0	3,837	4,737

Total - US Routes

95 43,275 112,339 63 44,251 78,020 65 48,056 83,244 66 52,550 89,900 70 58,172 98,715

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 100,000 to 175,000 DWT (FE)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	263	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	1,564	0	4	4	0	4	3	0	3	4	0	3	3
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (0214)	0	0	0	0	8	8	9	8	7	0	7	8	0	6	7
U.S. Southeast Coast to South America West Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	348	348	0	514	601	0	684	1,014	0	1,322	1,186	0	1,547	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	9	4,098	13,879	6	8,874	10,379	8	11,177	15,499	10	19,738	18,128	13	23,065	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (1702)	0	0	0	0	2,529	2,957	0	3,636	5,702	0	8,070	6,670	0	9,438	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	1,800	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	2,300	0	41	48	0	53	73	0	95	85	0	111	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	9	4,446	20,154	6	11,969	13,999	8	15,562	22,299	10	29,234	26,081	13	34,191	34,191
Total - US Routes	86	48,330	153,437	80	85,252	145,146	99	106,191	143,821	133	183,327	238,940	163	302,655	302,655

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 175,000 to 250,000 DWT (FF)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	695	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	61	72	0	81	95	0	121	141	0	157	184
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	1,566	1,832	0	1,972	2,307	0	2,735	3,199	0	3,483	4,074
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	446	521	0	641	769	0	1,005	1,175	0	1,422	1,663
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	16	1,226	29,728	2	2,073	2,424	3	2,694	3,151	0	3,861	4,515	0	5,063	5,921

Total - US Routes 16 1,226 29,728 2 15,550 19,546 3 19,474 24,534 3 26,569 33,550 4 34,008 43,005

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - Greater than 250,000 DWT (FG)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	1,642	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	1	27	4,635	0	94	110	0	123	144	0	178	208	0	235	275

Total - US Routes 26 29,156 73,643 53 67,935 126,838 67 84,775 160,555 94 115,564 217,955 122 147,902 278,039

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For ShipType Gas Tankers (GA)
On U.S. Southeast Coast Routes

3/16/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS
U.S. Southeast Coast to Northern Europe (0206)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	1	29	22	1	229	20	1	251	36	1	211	60	0	155	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	39	0	0	179	113	0	252	192	0	426	293	0	652	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	1	121	0	1	506	136	1	610	268	1	726	383	1	873	0

Total - US Routes

70 3,540 21,365 49 5,185 22,894 56 6,747 29,175 64 9,394 39,007 86 12,788 52,852

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Vehicle Carriers (HB)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	2	0	1,056	1	0	1,169	1	0	1,119	1	0	750	0	0	447
Northern Europe to U.S. Southeast Coast (0802)	2	99	843	1	108	1,198	1	103	1,146	1	69	768	41	0	458
U.S. Southeast Coast to Southern Europe (0209)	1	0	172	0	0	58	0	0	56	0	0	49	0	0	41
Southern Europe to U.S. Southeast Coast (0902)	0	1	90	0	3	33	0	3	32	0	3	28	0	2	23
U.S. Southeast Coast to Japan (0210)	10	0	1,399	9	0	2,630	8	0	2,506	7	0	1,995	5	0	1,391
Japan to U.S. Southeast Coast (1002)	15	415	2,293	13	355	3,942	13	333	3,757	10	269	2,987	7	188	2,085
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	2	0	213	3	0	1,400	4	0	1,847	7	0	3,011	10	0	4,337
Far East NIC's to U.S. Southeast Coast (1202)	1	45	106	2	85	945	3	112	1,247	5	183	2,034	7	264	2,929
U.S. Southeast Coast to South America East Coast (0213)	1	0	303	1	0	606	2	0	831	3	0	1,267	4	0	1,631
South America East Coast to U.S. Southeast Coast (1302)	1	9	69	0	17	184	1	23	252	1	35	366	1	45	495
U.S. Southeast Coast to South America West Coast (0214)	1	0	287	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	1	0	134	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	47	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	43	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	1	0	244	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	1	0	209	0	0	164	0	0	227	0	0	217	0	0	192
Other Med to U.S. Southeast Coast (1902)	0	23	60	0	6	62	0	8	86	0	7	82	0	7	73
U.S. Southeast Coast to China (0221)	0	0	67	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	51	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	2	0	178	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	1	0	106	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	43	592	8,205	32	573	12,390	34	587	13,105	35	566	13,571	36	546	14,105

Total - US Routes 266 3,730 51,989 216 3,877 91,054 224 3,975 95,338 227 3,899 99,251 230 3,848 103,936

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - Less than 10,000 DWT (PA)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0202)	0	14	15	0	10	13	0	11	14	0	6	8	0	3	5
Northern Europe to U.S. Southeast Coast (0602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	4	15	0	1	1	0	1	1	0	1	1	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	1	61	118	1	55	72	1	74	96	1	86	112	1	121	159
U.S. Southeast Coast to South America West Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	2	10	0	6	8	0	9	12	0	20	26	0	36	47
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	2	37	0	4	5	0	5	6	0	7	9	0	9	12
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	8	20	0	4	5	0	3	4	0	2	2	0	1	1
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	29	37	0	35	46	0	40	53	0	44	58
Total - U.S. Southeast Coast Routes	1	91	215	1	109	143	1	138	181	1	162	211	1	215	281

Total - US Routes 19 757 2,017 28 1,002 3,004 33 1,209 3,630 38 1,534 4,325 44 2,054 5,157

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 10,000 to 40,000 DWT (PB)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	10	13	17	0	15	20	0	21	28	0	28	35
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	1	1	2	0	3	5	0	6	8	0	8	10
South America West Coast to U.S. Southeast Coast (1402)	0	267	267	273	383	446	0	351	459	0	339	443	0	443	551
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	2	3	3	0	3	4	0	4	5	0	5	6
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Corner Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	13	63	63	22	29	38	0	40	52	0	52	69	0	69	88
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	27	66	0	0	1	0	1	1	0	1	1	0	1	1
U.S. Southeast Coast to South East Asia (0222)	1	6	185	1	9	158	1	18	164	1	31	184	1	184	228
South East Asia to U.S. Southeast Coast (2202)	1	43	229	1	172	211	1	168	220	1	189	248	1	248	306
U.S. Southeast Coast to Indian Sub-Continent (0223)	1	16	270	1	43	185	1	90	213	1	143	234	1	234	288
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	24	94	0	43	69	0	61	79	0	67	87	0	87	108
Total - U.S. Southeast Coast Routes	4	396	1,174	2	598	1,033	3	751	1,218	3	854	1,308	3	854	1,308
Total - US Routes	40	4,148	10,671	22	4,008	7,064	23	5,022	8,575	30	6,171	10,414	30	6,171	10,414

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
 For Shiptype Product Tankers - 40,000 to 80,000 DWT (PC)
 On U.S. Southeast Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Southern Europe to U.S. Southeast Coast (0902)	0	51	51	0	48	61	0	55	71	0	44	56	0	34	44	0	0	0		
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to South America East Coast (0213)	1	139	642	1	101	1,167	1	130	1,300	0	61	1,609	2	20	1,945	0	0	0		
South America East Coast to U.S. Southeast Coast (1302)	1	1,049	1,049	2	1,267	1,618	2	1,412	1,803	2	1,747	2,231	3	2,112	2,697	0	0	0		
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Southeast Coast (1402)	0	268	268	0	335	428	0	399	497	0	394	504	0	372	475	0	0	0		
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	5	7	0	8	10	0	12	15	0	17	21	0	0	0		
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Southeast Coast (1902)	0	24	74	0	46	58	0	59	76	0	81	103	0	106	135	0	0	0		
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	2	2	0	2	3	0	3	4	0	5	7	0	0	0		
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	39	50	0	37	47	0	38	49	0	43	55	0	0	0		
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	8	10	0	9	12	0	16	20	0	25	32	0	0	0		
	0	0	0	0	7	9	0	8	10	0	9	12	0	10	13	0	0	0		
Total - U.S. Southeast Coast Routes	3	1,583	2,398	3	1,963	3,546	3	2,174	3,910	4	2,478	4,695	5	2,830	5,533					

Total - US Routes 76 26,612 57,511 96 35,219 74,004 104 38,712 80,731 113 42,351 90,463 133 49,436 107,039

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 80,000 to 100,000 DWT (PD)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0202)	0	0	0	0	19	23	0	11	14	0	13	16	0	15	19
Northern Europe to U.S. Southeast Coast (0202)	0	44	84	0	99	122	0	123	151	0	194	239	0	203	350
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	6	84	0	12	15	0	14	17	0	11	13	0	9	11
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	84	0	18	22	0	23	28	0	11	13	0	4	4
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	224	276	0	249	308	0	308	381	0	373	460
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	50	62	0	58	72	0	59	72	0	55	68
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	6	7	0	8	10	0	13	16	0	18	22
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	84	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	66	81	0	85	105	0	116	143	0	152	187
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	2	2	0	1	2	0	2	2	0	2	2
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	20	11,023	26,428	31	17,832	40,945	33	19,356	43,702	38	22,862	50,894	46	27,968	60,826

Total - US Routes

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipoype Product Tankers - 100,000 to 175,000 DWT (PE)
On U.S. Southeast Coast Routes

3/16/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	2	1,428	3,457	4	7,765	12,240	4	9,967	14,745	5	14,280	19,796	5	19,276	25,724

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 175,000 to 250,000 DWT (PF)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southeast Coast (0802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Southern Europe (0209)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southeast Coast (0902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Japan (0210)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southeast Coast (1002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southeast Coast (1202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America East Coast (0213)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southeast Coast (1302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South America West Coast (0214)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southeast Coast (1402)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to East Africa (0215)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Arabian Gulf (0218)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southeast Coast (1802)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Other Med (0219)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southeast Coast (2102)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South East Asia (0222)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southeast Coast (2202)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to Indian Sub-Continent (0223)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southeast Coast (2302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	0	0	0	0	113	132	0	162	190	254	297	359	419	420	420
Total - US Routes	0	0	0	0	1,005	1,175	0	1,365	1,596	2,056	2,381	2,797	3,271	3,271	3,271

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Other Ships (00X)
On U.S. Southeast Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southeast Coast to Northern Europe (0208)	2	21	1,141	0	48	354	1	51	401	1	49	453	1	45	498
Northern Europe to U.S. Southeast Coast (0802)	1	77	616	0	156	193	0	176	217	0	199	243	1	214	264
U.S. Southeast Coast to Southern Europe (0209)	1	23	668	0	25	84	0	25	116	0	22	181	0	20	273
Southern Europe to U.S. Southeast Coast (0902)	0	9	188	0	20	24	0	27	33	0	42	52	0	63	78
U.S. Southeast Coast to Japan (0210)	1	1	228	1	1	203	1	1	281	2	1	412	3	1	605
Japan to U.S. Southeast Coast (1002)	1	100	168	1	121	150	1	168	207	2	246	304	2	361	446
U.S. Southeast Coast to Australia/New Zealand (0211)	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southeast Coast (1102)	0	0	91	0	0	97	0	0	149	0	0	0	0	0	0
U.S. Southeast Coast to Far East NIC's (0212)	0	10	23	0	27	30	1	50	78	1	107	122	2	210	490
Far East NIC's to U.S. Southeast Coast (1202)	0	8	537	1	212	262	2	30	37	0	56	69	1	99	122
U.S. Southeast Coast to South America East Coast (0213)	2	151	606	1	66	285	2	279	345	2	324	487	3	558	689
South America East Coast to U.S. Southeast Coast (1302)	2	36	48	14	32	6,473	14	85	375	2	117	529	3	152	749
U.S. Southeast Coast to South America West Coast (0214)	0	21	4	8	422	521	8	37	6,688	16	39	7,397	16	39	7,762
South America West Coast to U.S. Southeast Coast (1402)	0	4	427	0	0	0	0	436	539	9	483	596	10	506	7,625
U.S. Southeast Coast to East Africa (0215)	1	0	291	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southeast Coast (1502)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to West Africa (0216)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southeast Coast (1602)	0	1	23	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to South Africa (0217)	0	0	35	0	0	0	0	0	5	0	0	0	0	0	0
South Africa to U.S. Southeast Coast (1702)	0	0	24	0	1	1	0	2	2	0	3	4	0	0	14
U.S. Southeast Coast to Arabian Gulf (0218)	1	20	488	0	82	102	0	131	161	1	224	277	1	332	410
Arabian Gulf to U.S. Southeast Coast (1802)	1	0	197	0	11	47	0	2	75	0	3	129	1	5	190
U.S. Southeast Coast to Other Med (0219)	1	9	363	0	11	13	0	14	17	0	14	18	0	12	14
Other Med to U.S. Southeast Coast (1902)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southeast Coast to China (0221)	0	9	11	1	19	69	1	25	71	1	39	109	2	57	164
China to U.S. Southeast Coast (2102)	0	2	3	0	12	15	0	13	16	1	20	24	2	30	37
U.S. Southeast Coast to South East Asia (0222)	1	0	329	0	0	1	0	0	1	0	0	1	0	0	2
South East Asia to U.S. Southeast Coast (2202)	2	1	416	0	1	1	0	1	1	0	1	2	0	2	2
U.S. Southeast Coast to Indian Sub-Continent (0223)	1	2	208	0	0	0	0	0	0	0	0	0	0	0	1
Indian Sub-Continent to U.S. Southeast Coast (2302)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southeast Coast Routes	21	504	7,589	29	1,200	8,926	32	1,555	9,740	39	2,060	11,574	47	2,712	13,433
Total - US Routes	121	4,312	39,929	104	8,033	24,083	134	9,808	28,048	179	12,739	35,395	220	16,255	43,535

Gulf Coast

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For All Shipyards
On U.S. Gulf Coast Routes

ROUTE	1987			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	92	27,175	41,902	64	27,471	37,193	61	26,288	35,825	54	24,846	34,282
Northern Europe to U.S. Gulf Coast (0803)		11,833	38,859	66	13,675	41,134	62	14,139	38,497	49	13,333	36,199
U.S. Gulf Coast to Southern Europe (0309)	64	13,064	29,852	35	12,652	16,574	35	12,290	16,618	23	8,293	11,494
Southern Europe to U.S. Gulf Coast (0903)	48	4,165	26,498	27	4,231	17,064	28	5,049	17,242	20	6,787	12,312
U.S. Gulf Coast to Japan (0310)	78	21,683	29,595	40	18,988	25,105	39	19,015	24,865	21	9,213	12,983
Japan to U.S. Gulf Coast (1003)	37	2,179	10,652	2,040	2,040	9,694	20	2,074	9,574	15	1,576	7,731
U.S. Gulf Coast to Australia/New Zealand (0311)	12	3,999	3,078	45	11,554	11,554	74	4,291	19,077	109	6,367	28,058
Australia/New Zealand to U.S. Gulf Coast (1103)	9	3,080	3,651	21	10,525	14,188	23	11,171	15,226	50	23,765	33,721
U.S. Gulf Coast to Far East MIC's (0312)	44	11,365	14,464	11	13,710	16,926	60	20,116	24,834	129	42,026	51,884
Far East MIC's to U.S. Gulf Coast (1203)	12	468	3,152	11	271	6,021	18	298	9,760	52	303	7,305
U.S. Gulf Coast to South America East Coast (0313)	276	18,854	87,708	210	20,658	84,460	236	22,745	83,407	320	29,166	85,609
South America East Coast to U.S. Gulf Coast (1303)	209	61,881	157,931	171	70,306	94,603	188	68,065	96,354	299	56,494	95,305
U.S. Gulf Coast to South America West Coast (0314)	32	3,640	8,292	34	4,011	9,599	36	4,597	10,891	53	9,855	18,257
South America West Coast to U.S. Gulf Coast (1403)	21	6,307	8,258	27	10,229	13,789	31	12,975	17,196	55	23,199	31,951
U.S. Gulf Coast to East Africa (0315)	8	390	2,169	1	281	392	1	266	17,175	1	141	256
East Africa to U.S. Gulf Coast (1503)	4	26	2,388	0	44	121	0	40	117	0	36	119
U.S. Gulf Coast to West Africa (0316)	12	1,491	6,235	9	1,599	6,326	11	1,771	7,682	13	1,520	11,495
West Africa to U.S. Gulf Coast (1603)	26	17,694	29,770	26	27,567	37,081	30	33,620	44,822	34	44,306	68,182
U.S. Gulf Coast to South Africa (0317)	9	821	4,011	13	846	12,758	17	903	17,725	24	885	26,771
South Africa to U.S. Gulf Coast (1703)	6	1,523	2,193	10	12,406	14,803	13	17,444	20,696	18	26,676	44,063
U.S. Gulf Coast to Arabian Gulf (0318)	30	4,210	12,524	77	4,222	62,481	86	4,059	77,806	105	37,325	74,063
Arabian Gulf to U.S. Gulf Coast (1803)	24	22,106	28,384	100	81,682	99,193	109	99,859	120,658	110	156,928	131,069
U.S. Gulf Coast to Other Med (0319)	30	10,075	14,917	35	15,222	22,459	45	20,153	29,404	53	26,318	38,217
Other Med to U.S. Gulf Coast (1903)	22	8,552	16,535	30	14,587	23,101	38	18,887	30,177	70	34,984	50,149
U.S. Gulf Coast to China (0321)	11	2,475	2,564	54	8,994	14,278	64	9,957	16,406	67	8,877	18,517
China to U.S. Gulf Coast (2103)	5	780	2,052	11	3,453	4,143	11	2,363	4,065	13	2,104	4,396
U.S. Gulf Coast to South East Asia (0322)	38	1,241	9,018	24	3,862	10,443	32	6,499	14,683	44	6,690	17,775
South East Asia to U.S. Gulf Coast (2203)	30	5,048	10,773	16	4,509	8,582	22	5,833	11,097	25	6,132	14,567
U.S. Gulf Coast to Indian Sub-Continent (0323)	13	1,033	3,012	38	2,402	6,092	48	3,549	8,158	82	10,192	17,273
Indian Sub-Continent to U.S. Gulf Coast (2303)	9	1,469	2,799	22	2,157	3,839	28	2,512	4,915	44	3,076	9,417
Total - U.S. Gulf Coast Routes	1,311	264,626	593,258	1,278	393,349	723,819	1,431	448,399	821,480	1,612	510,383	943,823

Total - US Routes 3,735 598,926 1,565,968 3,494 947,703 1,882,644 4,870 1,104,854 2,191,823 4,870 1,328,408 2,664,842 6,128 1,623,171 3,310,127

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype General Cargo - Greater than 10,000 DMT (AA)
On U.S. Gulf Coast Routes
1995

ROUTE	1987			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	7	262	1,135	2	351	459	3	370	484	3	400	522
Northern Europe to U.S. Gulf Coast (0803)	4	216	837	1	233	503	1	237	531	2	202	573
U.S. Gulf Coast to Southern Europe (0309)	7	462	1,167	2	426	557	2	478	625	3	780	808
Southern Europe to U.S. Gulf Coast (0903)	3	379	276	1	228	266	1	279	410	1	524	530
U.S. Gulf Coast to Japan (0310)	3	203	443	2	137	341	1	226	295	0	100	131
Japan to U.S. Gulf Coast (1003)	3	203	443	2	137	341	2	226	295	1	156	156
U.S. Gulf Coast to Australia/New Zealand (0311)	1	35	85	1	69	91	1	109	142	3	287	375
Australia/New Zealand to U.S. Gulf Coast (1103)	0	10	10	0	16	34	0	17	53	0	17	141
U.S. Gulf Coast to Far East NIC's (0312)	0	54	54	0	111	137	0	150	185	0	343	423
Far East NIC's to U.S. Gulf Coast (1203)	1	39	59	0	25	96	1	28	130	1	28	207
U.S. Gulf Coast to South America East Coast (0313)	30	1,357	5,661	13	1,393	2,037	16	1,965	2,595	38	4,666	6,100
South America East Coast to U.S. Gulf Coast (1303)	19	1,015	5,624	8	1,521	1,988	10	1,670	2,333	25	1,942	5,932
U.S. Gulf Coast to South America West Coast (0314)	8	328	1,326	5	319	746	2	405	745	7	894	1,169
South America West Coast to U.S. Gulf Coast (1403)	4	351	937	2	410	536	2	409	535	4	502	899
U.S. Gulf Coast to East Africa (0315)	3	225	353	0	44	57	0	51	67	1	73	95
East Africa to U.S. Gulf Coast (1503)	1	18	186	0	15	35	0	10	42	0	1	1
U.S. Gulf Coast to West Africa (0316)	4	456	579	2	391	511	3	426	557	3	550	719
West Africa to U.S. Gulf Coast (1603)	1	42	106	0	36	140	0	47	153	0	71	197
U.S. Gulf Coast to South Africa (0317)	3	205	417	3	211	479	3	285	478	4	530	693
South Africa to U.S. Gulf Coast (1703)	1	250	250	1	282	368	1	281	367	2	273	532
U.S. Gulf Coast to Arabian Gulf (0318)	6	611	1,185	3	350	458	3	396	521	6	701	1,082
Arabian Gulf to U.S. Gulf Coast (1803)	1	2	79	0	62	96	0	84	110	1	174	228
U.S. Gulf Coast to Other Med (0319)	5	628	780	2	344	449	2	352	461	3	564	737
Other Med to U.S. Gulf Coast (1903)	1	165	287	1	110	171	1	113	175	1	137	281
U.S. Gulf Coast to China (0321)	2	344	344	20	597	3,739	29	1,187	5,396	58	2,722	10,659
China to U.S. Gulf Coast (2103)	0	13	13	1	230	301	1	332	434	3	480	658
U.S. Gulf Coast to South East Asia (0322)	5	54	579	1	84	151	1	125	166	3	353	462
South East Asia to U.S. Gulf Coast (2203)	1	73	138	0	71	93	0	78	103	1	91	285
U.S. Gulf Coast to Indian Sub-Continent (0323)	3	123	402	1	163	213	1	243	318	5	902	1,180
Indian Sub-Continent to U.S. Gulf Coast (2303)	1	5	127	0	3	172	0	3	257	2	5	954
Total - U.S. Gulf Coast Routes	125	8,199	23,886	75	8,450	15,608	93	10,511	19,208	132	14,010	27,067
Total - US Routes	337	23,476	71,839	209	28,449	56,451	263	35,612	71,071	379	47,876	102,581

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type General Cargo - Less than 10,000 DWT (AB)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	6	84	352	2	83	143	2	90	153	2	101	169	3	110	187
Northern Europe to U.S. Gulf Coast (0803)	1	48	129	1	37	55	1	39	58	1	43	64	1	48	71
U.S. Gulf Coast to Southern Europe (0309)	1	9	70	0	8	11	0	9	13	0	9	14	0	9	16
Southern Europe to U.S. Gulf Coast (0903)	1	21	71	0	10	21	0	12	23	0	16	25	0	20	29
U.S. Gulf Coast to Japan (0310)	0	17	17	0	8	12	0	8	12	0	6	9	0	4	6
Japan to U.S. Gulf Coast (1003)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	1	13	17	0	12	15	1	18	22	1	29	36	1	39	48
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	47	493	3,168	12	397	696	15	565	837	26	974	1,443	41	1,539	2,280
South America East Coast to U.S. Gulf Coast (1303)	27	514	2,937	7	377	559	9	376	672	15	363	1,159	23	358	1,890
U.S. Gulf Coast to South America West Coast (0314)	6	148	506	4	98	255	4	126	256	4	200	297	6	295	437
South America West Coast to U.S. Gulf Coast (1403)	4	169	379	2	127	188	2	128	189	3	148	220	4	166	323
U.S. Gulf Coast to East Africa (0315)	1	9	27	0	3	5	0	4	6	0	5	8	0	5	8
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	1	50	57	0	26	39	0	28	41	0	23	34	0	18	27
West Africa to U.S. Gulf Coast (1603)	0	3	27	0	2	7	0	2	19	0	2	15	0	3	12
U.S. Gulf Coast to South Africa (0317)	0	10	26	0	5	7	0	6	9	0	9	14	0	12	18
South Africa to U.S. Gulf Coast (1703)	0	7	24	0	10	14	0	10	14	0	10	14	0	10	15
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	2	62	92	3	84	124	5	141	208	6	183	271
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	19	27	0	6	7	0	5	8	0	5	8	0	5	8
Other Med to U.S. Gulf Coast (1903)	0	7	12	0	7	10	0	8	11	0	8	12	0	9	13
U.S. Gulf Coast to China (0321)	0	7	10	0	2	4	0	5	7	0	7	11	0	10	14
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	3	0	0	4	0	16	24	0	21	32	0	28	42
South East Asia to U.S. Gulf Coast (2203)	0	5	10	0	3	5	0	3	5	0	4	5	0	4	5
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	3	4	0	3	5	0	4	6	0	5	8
Total - U.S. Gulf Coast Routes	98	1,633	7,877	33	1,297	2,196	38	1,545	2,531	59	2,130	3,827	88	2,880	5,695

Total - US Routes

14,132

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Container - Greater than 10,000 DWT (AC)
On U.S. Gulf Coast Routes

ROUTE	1987				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	
U.S. Gulf Coast to Northern Europe (0308)	5	2,021	2,051	7	2,270	2,968	8	2,460	3,216	8	2,582	3,375	8	2,649	3,463	
Northern Europe to U.S. Gulf Coast (0603)	4	976	1,372	5	1,125	2,059	5	1,178	2,232	6	1,161	2,342	6	1,208	2,403	
U.S. Gulf Coast to Southern Europe (0309)	3	595	775	3	690	927	4	769	1,174	5	849	1,673	5	915	2,421	
Southern Europe to U.S. Gulf Coast (0903)	2	426	540	3	495	647	4	627	820	4	894	1,168	5	1,294	1,691	
U.S. Gulf Coast to Japan (0310)	3	150	1,262	5	266	1,899	5	321	2,029	4	395	1,787	5	466	2,078	
Japan to U.S. Gulf Coast (1003)	2	602	536	3	683	893	3	730	954	3	643	840	3	748	977	
U.S. Gulf Coast to Australia/New Zealand (0311)	2	270	536	3	655	856	5	1,032	1,349	2	1,673	2,121	13	2,570	3,360	
U.S. Gulf Coast to Australia/New Zealand (0511)	0	0	102	1	99	165	1	107	1,260	8	1,128	1,431	3	1,166	1,647	
Australia/New Zealand to U.S. Gulf Coast (1103)	3	74	1,064	2	487	703	3	894	1,168	6	1,628	2,128	3	2,465	3,222	
U.S. Gulf Coast to Far East NIC's (0312)	1	216	72	1	126	165	1	140	1,216	2	143	500	2	148	757	
Far East NIC's to U.S. Gulf Coast (1203)	3	461	906	4	597	989	5	863	1,216	8	1,448	1,892	13	2,326	3,040	
U.S. Gulf Coast to South America East Coast (0513)	5	536	1,347	6	1,445	1,888	8	1,776	2,322	12	2,200	3,611	20	2,587	5,802	
South America East Coast to U.S. Gulf Coast (1303)	0	0	0	0	53	70	0	68	88	0	103	134	0	149	194	
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	68	89	0	68	89	0	77	100	0	83	109	
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	8	10	0	9	12	0	11	15	0	13	17	
U.S. Gulf Coast to East Africa (0515)	0	0	0	0	3	3	0	2	2	0	1	1	0	0	0	
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	68	89	0	74	97	0	86	113	0	96	126	
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	7	9	0	6	8	0	4	5	0	2	3	
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	37	49	0	50	65	0	72	94	0	93	122	
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	34	45	0	36	48	0	40	52	0	44	57	
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	344	450	2	470	615	4	897	1,173	7	1,511	1,976	
U.S. Gulf Coast to Arabian Gulf (0318)	1	195	283	2	344	450	2	470	615	3	60	813	5	88	1,569	
Arabian Gulf to U.S. Gulf Coast (1803)	1	37	148	1	595	778	2	846	426	3	1,176	1,537	6	1,528	1,998	
U.S. Gulf Coast to Other Med (0319)	1	201	201	2	105	415	3	131	1,106	3	1,176	1,537	4	248	1,998	
Other Med to U.S. Gulf Coast (1903)	0	89	107	0	451	589	0	466	609	0	422	551	0	298	389	
U.S. Gulf Coast to China (0321)	0	0	0	0	5	6	0	6	8	0	9	11	0	12	15	
China to U.S. Gulf Coast (2103)	1	38	441	0	119	156	0	210	274	2	410	536	3	737	963	
U.S. Gulf Coast to South East Asia (0322)	1	60	68	0	25	59	1	22	104	1	20	204	2	18	367	
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	1	1	0	2	2	0	3	4	0	6	7	
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	9	11	0	8	11	0	8	10	0	9	11	
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total - U.S. Gulf Coast Routes	38	7,018	12,257	49	10,922	17,302	61	13,418	21,170	85	17,321	28,099	122	22,456	38,650	
Total - US Routes	270	59,769	113,874	361	94,266	161,096	459	118,600	206,262	668	166,153	300,329	907	234,546	403,474	

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Container - Less than 10,000 DMT (MD)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	0	23	48	1	75	98	1	79	103	1	88	115	1	95	124
Northern Europe to U.S. Gulf Coast (0803)	0	25	40	1	48	100	1	51	106	1	52	117	1	54	127
U.S. Gulf Coast to Southern Europe (0309)	0	0	0	0	4	5	0	4	6	0	5	6	0	5	6
Southern Europe to U.S. Gulf Coast (0903)	0	1	5	0	7	9	0	8	10	0	10	13	0	13	17
U.S. Gulf Coast to Japan (0310)	0	0	0	0	4	5	0	4	5	0	3	4	0	2	2
Japan to U.S. Gulf Coast (1003)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	6	7	0	9	11	0	15	18	0	20	24
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	9	240	1,033	10	514	939	11	740	1,100	17	1,239	1,646	27	2,015	2,634
South America East Coast to U.S. Gulf Coast (1303)	7	241	1,023	7	817	1,068	9	957	1,250	13	1,132	1,871	21	1,296	2,995
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	50	65	0	64	83	0	101	132	0	149	195
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	64	84	0	64	84	0	75	98	0	83	109
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	2	2	0	2	3	0	3	3	0	3	4
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	13	17	0	14	18	0	11	15	0	9	12
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	1	1	0	1	1	0	1	2	0	2	2
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	2	3	0	3	4	0	5	6	0	6	8
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	5	6	0	5	6	0	5	6	0	5	7
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	31	41	0	42	55	0	71	93	0	92	121
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	3	4	0	3	3	0	2	3	0	3	3
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	5	7	0	6	8	0	7	9	0	8	11
U.S. Gulf Coast to China (0321)	0	0	0	0	1	2	0	1	3	0	2	3	0	3	5
China to U.S. Gulf Coast (2103)	0	0	0	0	6	8	0	8	10	0	4	14	0	14	19
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	2	2	0	2	2	0	2	2	0	2	3
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	1	2	0	2	2	0	2	3	0	3	3
Total - U.S. Gulf Coast Routes	16	530	2,149	19	1,661	2,475	22	2,070	2,876	32	2,862	4,182	50	3,883	6,432
Total - US Routes	36	1,706	4,782	52	4,827	7,566	59	5,803	8,573	77	7,521	11,002	111	9,845	15,225

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype RORO - Less than 10,000 DWT (AF)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	1	34	143	1	34	107	1	37	113	1	40	123	1	39	133
Northern Europe to U.S. Gulf Coast (0803)	0	6	11	0	7	10	0	10	10	0	8	11	0	9	12
U.S. Gulf Coast to Southern Europe (0309)	1	18	71	0	20	28	0	23	32	0	27	37	0	28	44
Southern Europe to U.S. Gulf Coast (0903)	0	5	30	0	4	7	0	5	10	0	7	11	0	10	13
U.S. Gulf Coast to Japan (0310)	0	4	6	0	5	8	0	6	8	0	7	10	0	9	12
Japan to U.S. Gulf Coast (1003)	0	2	8	0	1	8	0	1	8	0	1	11	0	0	13
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	9	346	726	13	367	936	16	525	1,200	21	876	1,563	25	1,345	1,868
South America East Coast to U.S. Gulf Coast (1303)	8	407	503	10	798	1,109	13	1,023	1,421	17	1,333	1,851	20	1,565	2,212
U.S. Gulf Coast to South America West Coast (0314)	1	42	68	1	28	114	1	36	118	1	57	125	1	85	130
South America West Coast to U.S. Gulf Coast (1403)	1	37	95	1	70	97	1	72	100	1	77	107	1	80	111
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	4	0	3	4	0	3	3	0	3	4
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	8	0	14	19	0	19	27	0	28	39	1	40	55
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Gulf Coast (1903)	0	3	16	0	4	5	0	4	6	0	4	6	0	5	6
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	22	904	1,986	26	1,375	2,450	33	1,763	3,056	42	2,467	3,899	50	3,217	4,614
Total - US Routes	127	2,502	11,441	68	3,507	6,849	76	4,139	7,616	90	5,433	8,950	108	6,956	10,690

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Reefer (BA)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0306)	0	18	40	0	12	23	0	13	25	0	11	20	0	8	15
Northern Europe to U.S. Gulf Coast (0803)	1	29	121	0	24	99	1	20	107	1	12	85	0	6	66
U.S. Gulf Coast to Southern Europe (0309)	1	0	86	0	0	5	0	0	5	0	0	6	0	0	6
Southern Europe to U.S. Gulf Coast (0303)	1	1	52	0	1	2	0	1	2	0	1	2	0	1	2
U.S. Gulf Coast to Japan (0310)	1	37	86	2	103	191	2	125	232	2	144	267	2	145	268
Japan to U.S. Gulf Coast (1003)	0	0	16	0	0	45	1	0	55	1	0	63	1	0	63
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	6	67	740	9	33	194	9	34	1,115	0	44	1,022	7	51	859
South America East Coast to U.S. Gulf Coast (1303)	5	532	899	8	650	1,203	7	606	1,123	8	556	1,030	6	473	876
U.S. Gulf Coast to South America West Coast (0314)	1	8	116	1	2	210	1	2	218	2	1	266	2	0	302
South America West Coast to U.S. Gulf Coast (1403)	1	64	103	1	109	201	1	113	210	2	138	235	2	156	290
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	4	0	0	1	0	0	1	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	2	4	0	0	1	0	0	1	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	3	5	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	16	0	0	1	0	0	1	0	0	1	0	0	1
Arabian Gulf to U.S. Gulf Coast (1803)	3	3	5	0	4	7	0	7	12	0	11	20	1	14	26
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Gulf Coast (1903)	1	16	26	1	20	36	1	23	43	2	37	68	2	54	101
U.S. Gulf Coast to China (0321)	0	0	22	0	0	31	0	0	36	1	0	57	1	0	85
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Gulf Coast (2203)	1	0	34	0	0	6	0	0	6	0	0	6	0	0	6
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	3	6	0	1	1	0	1	1	0	1	1	0	1	1
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	20	783	2,397	24	959	3,257	24	947	3,193	25	956	3,171	24	911	2,978
Total - US Routes	108	4,151	16,305	172	7,726	30,897	179	8,281	32,346	205	9,431	38,043	228	10,349	42,874

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - (Less than 20,000 DWT (DA)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	6	307	990	3	175	640	3	190	624	3	120	590	3	82	548
Northern Europe to U.S. Gulf Coast (0803)	2	295	554	2	275	359	1	268	351	1	254	332	1	244	319
U.S. Gulf Coast to Southern Europe (0309)	2	290	413	2	279	364	1	258	337	1	117	153	0	87	143
Southern Europe to U.S. Gulf Coast (0903)	2	47	345	1	28	290	1	35	289	0	56	122	0	87	114
U.S. Gulf Coast to Japan (0310)	0	32	33	0	18	23	0	19	25	0	14	18	0	9	11
Japan to U.S. Gulf Coast (1003)	0	6	17	0	1	11	0	1	11	0	1	8	0	0	5
U.S. Gulf Coast to Australia/New Zealand (0311)	0	11	48	0	25	33	0	38	50	1	59	78	1	91	119
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	29	36	0	29	36	0	35	43	0	44	54	0	50	62
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	12	363	1,649	11	526	1,246	12	648	1,406	15	829	1,712	21	976	2,332
South America East Coast to U.S. Gulf Coast (1303)	11	734	2,128	10	1,127	1,473	11	1,271	1,662	13	1,549	2,024	18	2,109	2,757
U.S. Gulf Coast to South America West Coast (0314)	2	69	291	3	318	416	2	154	313	2	91	231	1	64	205
South America West Coast to U.S. Gulf Coast (1403)	0	66	120	1	89	137	0	79	103	0	58	76	0	52	67
U.S. Gulf Coast to East Africa (0315)	0	4	18	0	3	4	0	3	4	0	4	6	0	5	6
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	1	85	104	1	88	116	1	122	160	1	141	184	1	117	153
West Africa to U.S. Gulf Coast (1603)	1	41	122	1	1	162	1	1	225	2	27	259	1	2	215
U.S. Gulf Coast to South Africa (0317)	1	21	92	2	9	206	2	16	284	3	27	353	3	35	430
South Africa to U.S. Gulf Coast (1703)	0	32	46	1	77	101	1	107	140	1	133	173	1	162	211
U.S. Gulf Coast to Arabian Gulf (0318)	1	81	129	0	43	56	0	40	52	0	13	18	0	3	4
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	33	41	0	47	62	0	60	79	0	51	67	0	26	35
Other Med to U.S. Gulf Coast (1903)	0	14	64	0	9	95	1	8	121	0	5	102	0	5	53
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	1	9	72	1	40	102	1	95	124	2	140	183	2	143	187
South East Asia to U.S. Gulf Coast (2203)	0	13	13	0	17	23	0	19	28	0	17	41	0	12	42
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	15	19	1	65	85	1	103	135	2	198	258	3	319	417
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	15	0	0	85	1	0	135	1	0	28	2	0	418
Total - U.S. Gulf Coast Routes	43	2,596	7,359	40	3,291	6,126	44	3,572	6,681	50	3,922	7,301	62	4,679	8,872
Total - US Routes	82	5,982	15,249	84	8,342	16,982	90	8,915	18,008	99	9,603	19,071	117	10,934	21,991

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 20,000 to 40,000 DWT (08)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	15	4,747	5,340	8	2,524	3,223	9	2,828	3,612	5	1,430	1,826	3	871	1,112
Northern Europe to U.S. Gulf Coast (0803)	17	3,853	7,636	9	2,914	4,623	10	3,906	5,180	5	1,619	2,619	3	640	1,595
U.S. Gulf Coast to Southern Europe (0309)	18	3,175	5,676	9	2,694	3,440	8	2,448	3,127	3	984	1,257	3	529	1,160
Southern Europe to U.S. Gulf Coast (0903)	12	5,271	5,057	6	3,233	2,775	9	3,988	2,522	2	572	1,014	2	733	876
U.S. Gulf Coast to Japan (0310)	15	3,251	3,251	10	2,213	2,827	9	1,952	2,468	5	997	1,274	2	484	608
Japan to U.S. Gulf Coast (1003)	9	6,688	2,149	6	601	1,596	5	1,593	1,393	3	414	719	3	357	456
U.S. Gulf Coast to Australia/New Zealand (0311)	2	64	390	14	128	2,763	15	200	2,922	23	320	4,537	34	483	6,627
Australia/New Zealand to U.S. Gulf Coast (1103)	2	527	527	12	6,083	7,768	13	6,432	8,214	20	9,987	12,755	30	14,593	18,637
U.S. Gulf Coast to Far East NIC's (0312)	10	2,427	2,427	4	816	1,008	5	1,045	1,290	4	863	1,041	3	538	664
Far East - NIC's to U.S. Gulf Coast (1203)	2	111	436	20	64	422	1	69	541	1	67	436	0	66	278
U.S. Gulf Coast to South America East Coast (0313)	27	4,825	8,128	11	3,978	5,508	19	3,390	5,418	19	2,735	5,219	21	2,841	5,975
South America East Coast to U.S. Gulf Coast (1303)	15	3,543	7,986	20	3,800	4,853	11	3,738	4,774	10	3,601	4,598	12	2,265	3,265
U.S. Gulf Coast to South America West Coast (0314)	6	1,913	2,680	4	1,132	1,446	3	944	1,206	2	485	619	1	274	350
South America West Coast to U.S. Gulf Coast (1403)	3	633	1,310	2	212	690	1	201	576	1	100	295	0	45	167
U.S. Gulf Coast to East Africa (0315)	1	59	291	0	2	80	0	22	79	0	14	20	0	12	85
East Africa to U.S. Gulf Coast (1503)	0	7	67	0	14	18	0	14	74	2	16	16	0	15	19
U.S. Gulf Coast to West Africa (0316)	2	622	719	2	488	623	2	599	714	2	478	610	1	391	499
West Africa to U.S. Gulf Coast (1603)	4	1,094	1,640	4	687	1,648	4	627	1,890	4	374	1,615	3	213	1,321
U.S. Gulf Coast to South Africa (0317)	1	158	479	1	90	273	1	90	329	1	86	361	1	74	409
South Africa to U.S. Gulf Coast (1703)	2	220	479	1	310	396	1	373	477	1	410	524	1	445	594
U.S. Gulf Coast to Arabian Gulf (0318)	3	777	892	3	522	667	2	468	597	2	161	483	3	39	765
Arabian Gulf to U.S. Gulf Coast (1803)	1	15	152	1	63	275	0	99	266	0	156	199	1	247	315
U.S. Gulf Coast to Other Med (0319)	11	3,628	3,967	14	4,586	5,857	19	6,052	7,742	24	5,620	9,906	39	3,795	15,866
Other Med to U.S. Gulf Coast (1903)	4	84	2,014	6	1,713	2,989	8	2,357	3,952	10	3,959	5,056	17	6,381	8,169
U.S. Gulf Coast to China (0321)	4	813	813	15	2,615	3,340	15	2,696	3,443	14	2,404	3,070	9	1,628	2,079
China to U.S. Gulf Coast (2103)	1	0	0	0	0	1,005	3	0	1,056	3	0	924	2	625	765
U.S. Gulf Coast to South East Asia (0322)	5	50	148	3	108	139	1	179	229	3	283	361	2	350	447
South East Asia to U.S. Gulf Coast (2203)	5	8	985	1	13	282	1	14	465	2	13	734	3	9	908
U.S. Gulf Coast to Indian Sub-Continent (0323)	3	472	541	5	867	1,108	7	1,067	1,363	2	1,542	1,969	3	2,217	2,831
Indian Sub-Continent to U.S. Gulf Coast (2303)	1	0	91	1	0	301	2	0	370	2	0	535	4	0	769
Total - U.S. Gulf Coast Routes	200	35,279	66,863	173	37,585	61,941	184	39,742	66,192	180	38,811	64,667	217	42,412	79,812
Total - US Routes	646	87,212	206,137	558	111,051	203,615	628	122,762	232,001	673	128,477	253,047	752	137,203	287,952

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 40,000 to 80,000 DWT (DC)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0908)	17	3,106	3,238	12	2,105	2,596	12	2,082	2,571	7	1,120	1,392	4	764	943
Northern Europe to U.S. Gulf Coast (0803)	29	694	4,845	21	816	3,732	20	815	3,646	11	691	1,907	8	589	1,356
U.S. Gulf Coast to Southern Europe (0309)	13	3,912	7,717	9	4,326	5,337	9	4,326	5,341	7	3,241	4,001	6	2,889	3,567
Southern Europe to U.S. Gulf Coast (0903)	10	1,146	7,882	7	732	5,793	7	868	5,797	5	1,297	4,343	4	1,614	3,872
U.S. Gulf Coast to Japan (0310)	26	7,406	12,347	8	4,638	6,351	8	4,698	6,168	4	3,213	4,070	4	1,956	2,945
Japan to U.S. Gulf Coast (1003)	5	678	2,109	6	725	2,695	1	704	2,889	1	366	3,74	1	336	415
U.S. Gulf Coast to Australia/New Zealand (0311)	2	1,101	1,783	1	498	811	2	779	962	1	276	1,575	1	1,953	2,414
Australia/New Zealand to U.S. Gulf Coast (1103)	3	226	1,157	2	2,304	2,844	2	2,461	3,373	3	3,292	5,526	5	4,258	8,468
U.S. Gulf Coast to Far East NIC's (0312)	17	5,888	7,192	12	4,495	5,550	15	5,674	7,005	14	5,304	6,548	11	4,194	5,178
Far East NIC's to U.S. Gulf Coast (1203)	1	127	608	1	88	372	1	96	723	1	93	675	1	534	574
U.S. Gulf Coast to South America East Coast (0313)	10	4,740	5,876	10	4,531	5,594	9	3,932	4,894	6	2,394	3,180	5	1,301	2,868
South America East Coast to U.S. Gulf Coast (1303)	8	3,871	8,056	8	4,416	6,916	7	4,028	6,001	5	3,185	3,932	4	2,863	3,534
U.S. Gulf Coast to South America West Coast (0314)	1	199	371	0	239	295	0	209	258	0	107	132	0	55	68
South America West Coast to U.S. Gulf Coast (1403)	1	314	473	0	187	424	0	167	370	0	81	189	0	34	98
U.S. Gulf Coast to East Africa (0315)	0	88	88	0	45	55	0	39	49	0	17	21	0	8	15
East Africa to U.S. Gulf Coast (1503)	0	117	124	0	7	46	0	8	41	0	114	17	0	10	12
U.S. Gulf Coast to West Africa (0316)	0	1,896	2,520	0	1,182	1,988	0	1,078	1,799	0	644	140	0	81	100
West Africa to U.S. Gulf Coast (1603)	3	0	41	0	16	72	0	15	85	0	14	92	3	366	2,139
U.S. Gulf Coast to South Africa (0317)	0	155	160	0	220	272	1	239	319	0	281	347	1	318	392
South Africa to U.S. Gulf Coast (1703)	2	1,427	1,554	3	1,037	1,784	5	928	2,773	8	319	4,380	12	78	6,938
U.S. Gulf Coast to Arabian Gulf (0318)	1	121	1,482	1	547	675	2	850	1,049	3	1,342	1,657	5	2,126	2,625
Arabian Gulf to U.S. Gulf Coast (1803)	1	4,110	4,268	9	5,968	7,348	12	7,929	9,788	12	7,370	9,098	8	4,986	6,155
U.S. Gulf Coast to Other Med (0319)	3	158	1,850	4	389	3,186	5	442	4,233	5	763	3,935	3	1,187	2,662
Other Med to U.S. Gulf Coast (1903)	4	1,087	1,087	16	4,345	5,364	17	4,466	5,513	15	3,949	4,878	10	2,623	3,239
China to U.S. Gulf Coast (0321)	0	348	435	1	346	427	1	275	399	0	154	190	0	94	117
U.S. Gulf Coast to South East Asia (0322)	3	176	832	4	1,053	1,300	7	1,889	2,333	0	1,932	2,386	5	1,356	1,674
South East Asia to U.S. Gulf Coast (2203)	4	2	1,366	6	15	2,156	10	14	3,867	11	17	3,955	8	2,775	2,775
U.S. Gulf Coast to Indian Sub-Continent (0323)	1	301	463	3	963	1,189	5	1,622	2,002	10	3,071	3,791	16	5,108	6,306
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	28	221	1	97	520	2	78	875	4	53	1,667	6	32	2,756
Total - U.S. Gulf Coast Routes	171	43,425	78,229	149	46,485	76,564	168	50,974	85,836	147	45,807	77,663	136	41,307	74,258

Total - US Routes

391 84,816 193,869 32 107,537 204,354 369 119,897 230,207 354 119,065 228,221 351 117,619 232,577

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 80,000 to 100,000 DWT (000)
On U.S. Gulf Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	1	502	571	1	870	1,018	1	976	1,142	1	900	1,053	1	939	1,098
Northern Europe to U.S. Gulf Coast (0803)	0	300	351	1	428	744	1	424	835	1	314	770	1	217	805
U.S. Gulf Coast to Southern Europe (0309)	0	0	81	1	681	798	1	689	805	1	542	634	1	494	578
Southern Europe to U.S. Gulf Coast (0903)	0	0	164	1	119	1,597	1	146	1,616	1	211	1,272	1	262	1,159
U.S. Gulf Coast to Japan (0310)	0	0	0	0	750	877	0	769	959	0	536	627	0	330	386
Japan to U.S. Gulf Coast (1003)	0	0	0	0	109	128	0	106	134	0	69	81	0	48	56
U.S. Gulf Coast to Australia/New Zealand (0511)	0	0	0	0	84	98	0	131	134	0	216	252	0	331	397
Australia/New Zealand to U.S. Gulf Coast (1105)	0	0	0	0	217	254	0	254	274	0	270	316	0	297	347
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	861	1,063	2	1,072	1,323	2	1,022	1,261	2	838	1,054
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	14	16	0	15	17	0	14	17	0	14	17
U.S. Gulf Coast to South America East Coast (0513)	0	0	0	0	679	794	0	592	693	0	342	400	0	147	171
South America East Coast to U.S. Gulf Coast (1303)	0	76	80	1	782	915	1	710	831	1	528	617	0	423	495
U.S. Gulf Coast to South America West Coast (0514)	0	0	0	0	9	10	0	8	10	0	4	5	0	2	2
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	27	31	0	24	28	0	12	14	0	5	5
U.S. Gulf Coast to East Africa (0515)	0	0	0	0	44	54	0	40	47	0	15	17	0	4	4
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	5	6	0	6	7	0	9	10	0	9	10
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	14	16	0	12	15	0	6	7	0	3	3
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	470	550	0	429	501	0	256	299	0	146	170
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	71	84	0	66	78	0	33	40	0	51	59
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	167	195	0	149	175	0	53	62	0	12	15
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	94	111	0	147	172	0	232	271	0	367	430
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	911	1,065	0	1,211	1,416	0	1,126	1,317	0	762	891
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	15	18	0	13	16	0	11	13	0	11	13
U.S. Gulf Coast to China (0321)	0	0	0	0	685	802	0	704	823	0	622	728	0	412	482
China to U.S. Gulf Coast (2105)	0	0	0	0	61	71	0	48	57	0	27	32	0	17	19
U.S. Gulf Coast to South East Asia (0522)	0	0	0	0	183	214	0	328	384	0	333	399	0	229	268
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	2	3	0	2	3	0	3	3	0	4	4
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	143	168	0	253	296	0	495	579	0	834	976
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	17	20	0	14	16	0	9	11	0	6	7
Total - U.S. Gulf Coast Routes	1	987	1,356	6	8,515	11,716	7	9,321	12,756	6	8,227	11,116	5	7,211	9,890
Total - US Routes	6	3,792	5,948	16	20,555	29,809	18	22,677	32,912	17	22,361	32,556	17	21,827	32,219

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 100,000 to 175,000 DWT (OE)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	4	4,920	5,398	5	6,244	7,303	6	7,566	8,849	7	8,381	9,802	8	9,445	11,046
Northern Europe to U.S. Gulf Coast (0803)	3	0	5,439	4	55	7,120	5	54	8,636	5	38	9,556	6	23	10,769
U.S. Gulf Coast to Southern Europe (0309)	0	0	108	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Gulf Coast (0903)	1	0	1,251	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Japan (0310)	9	6,886	7,079	6	4,290	5,018	6	4,226	4,942	4	2,552	2,984	2	1,434	1,678
Japan to U.S. Gulf Coast (1003)	0	0	140	0	0	74	0	0	44	0	0	0	0	0	25
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	124	140	0	130	152	0	140	163	0	138	161	0	122	143
U.S. Gulf Coast to Far East NIC's (0312)	1	319	341	1	350	432	1	377	466	1	429	530	1	459	567
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	0	100	123	0	115	197	0	97	187	0	72	119	0	49	59
South America East Coast to U.S. Gulf Coast (1303)	0	256	269	0	408	477	0	386	452	0	245	287	0	123	143
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	85	99	0	74	87	0	26	30	0	6	8
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	1	1	0	1	1	0	1	2	0	1	2
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	174	204	0	159	186	0	95	111	0	54	63
U.S. Gulf Coast to South Africa (0317)	1	255	1,429	0	189	221	0	172	202	0	81	95	0	33	38
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	23	27	0	18	21	0	9	10	0	5	6
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Gulf Coast (1903)	0	0	131	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	19	22	0	13	16	0	19	23	0	26	30
South East Asia to U.S. Gulf Coast (2203)	1	370	1,088	1	1,342	1,570	3	2,494	2,917	3	2,402	2,809	2	1,447	1,693
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	21	13,230	22,955	18	13,426	22,918	21	15,778	27,187	20	14,488	26,563	18	13,228	26,269
Total - US Routes	43	25,011	55,271	38	31,318	56,274	44	35,695	65,653	43	34,324	68,298	42	32,948	70,850

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - Greater than 175,000 DWT (DF)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0303)	0	0	0	0	1,064	1,268	0	1,313	1,536	0	1,656	1,703	0	1,641	1,919
Northern Europe to U.S. Gulf Coast (0803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Southern Europe (0809)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Gulf Coast (0903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Japan (0310)	0	0	0	0	757	806	0	746	872	0	450	527	0	253	296
Japan to U.S. Gulf Coast (1003)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	23	27	0	25	29	0	24	28	0	22	25
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	59	73	0	63	78	0	72	89	0	78	96
U.S. Gulf Coast to South America East Coast (0313)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Gulf Coast (1303)	0	0	0	0	20	24	0	17	20	0	13	15	0	9	10
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	68	80	0	65	76	0	41	48	0	21	24
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	14	16	0	12	14	0	4	5	0	1	1
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	650	760	0	595	696	0	357	417	0	204	239
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	33	39	0	30	36	0	14	17	0	6	7
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	27	31	0	26	30	0	22	26	0	19	22
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	3	4	0	2	3	0	3	4	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	257	277	0	440	515	0	424	496	0	255	299
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	0	0	0	0	2,976	3,485	0	3,334	3,904	0	2,861	3,375	0	2,512	2,943
Total - US Routes	2	669	3,119	3	7,332	11,062	3	8,043	12,477	3	7,363	12,635	3	6,818	12,472

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - Less than 20,000 DWT (EA)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Gulf Coast (0803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Southern Europe (0309)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Gulf Coast (0903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Japan (0310)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Gulf Coast (1003)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	0	49	150	1	36	126	1	25	117	0	10	91	0	3	65
South America East Coast to U.S. Gulf Coast (1303)	1	128	150	1	110	144	1	102	134	1	80	105	0	57	75
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	1	177	300	1	146	269	1	127	250	1	90	196	1	60	140
Total - US Routes	1	177	300	1	146	269	1	127	250	1	90	196	1	60	140

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 20,000 to 40,000 DWT (EB)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Gulf Coast (0805)	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Gulf Coast (0503)	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Gulf Coast (1005)	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1205)	0	0	73	0	6	120	0	4	112	0	0	87	0	1	62
U.S. Gulf Coast to South America East Coast (0513)	0	16	16	0	46	60	0	43	56	0	2	44	0	24	31
South America East Coast to U.S. Gulf Coast (1303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America West Coast (0514)	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	0	32	195	0	52	180	0	47	168	0	35	131	0	24	94
Total - US Routes	1	32	456	0	61	192	0	57	181	0	43	141	0	30	102

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Combination Carriers - 40,000 to 80,000 DWT (EC)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	5	3,273	4,887	2	1,550	1,914	1	1,135	1,401	1	435	971	1	161	600
Northern Europe to U.S. Gulf Coast (0803)	1	497	1,245	1	449	769	0	435	563	0	316	390	0	195	241
U.S. Gulf Coast to Southern Europe (0309)	1	368	1,025	1	381	470	1	366	452	1	338	417	0	297	367
Southern Europe to U.S. Gulf Coast (0903)	1	0	984	0	0	381	0	0	366	0	0	338	0	0	297
U.S. Gulf Coast to Japan (0310)	1	634	634	1	643	794	1	621	766	1	395	488	0	231	286
Japan to U.S. Gulf Coast (1003)	0	0	87	0	0	115	0	0	111	0	0	0	0	0	42
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	72	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	1	468	484	1	505	623	1	543	670	1	622	768	1	670	827
U.S. Gulf Coast to Far East NIC's (0312)	0	0	19	0	0	28	0	0	30	0	0	34	0	0	37
Far East NIC's to U.S. Gulf Coast (1203)	2	284	2,398	3	358	3,041	3	350	2,827	2	354	2,211	0	338	1,579
U.S. Gulf Coast to South America East Coast (0313)	2	2,082	2,128	2	1,794	2,214	2	1,668	2,059	1	1,304	1,610	1	931	1,150
South America East Coast to U.S. Gulf Coast (1303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	71	0	1	2	1	1	1	0	2	2	0	2	3
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	77	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to U.S. Gulf Coast (0318)	0	147	274	1	97	557	1	87	722	2	30	1,033	0	7	1,361
U.S. Gulf Coast to Arabian Gulf (0319)	0	116	116	0	479	592	1	621	767	1	889	1,097	2	1,171	1,445
Arabian Gulf to U.S. Gulf Coast (1803)	0	262	262	1	374	441	1	511	631	1	468	578	0	292	363
U.S. Gulf Coast to Other Med (0319)	0	364	472	1	466	1,165	1	580	1,593	1	688	1,460	1	743	918
Other Med to U.S. Gulf Coast (1903)	0	71	71	1	254	314	1	261	322	1	231	285	0	153	189
U.S. Gulf Coast to China (0321)	0	0	0	0	12	15	0	15	19	0	25	30	0	39	48
China to U.S. Gulf Coast (2103)	1	0	275	0	0	1,744	0	0	2,244	0	0	2,798	0	0	3,345
U.S. Gulf Coast to South East Asia (0322)	0	0	29	0	129	1,159	0	166	205	0	207	255	0	248	307
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	19	8,643	15,762	14	7,492	15,359	14	7,360	15,750	13	6,304	14,839	11	5,481	13,427

Total - US Routes

28,883

13,432

24

31,465

27

14,850

32,997

29

16,256

32,061

28

16,180

15,762

7,492

14

8,643

15,762

19

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Combination Carriers - 80,000 to 100,000 DWT (EB)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	1	642	865	1	577	675	0	420	492	0	159	341	0	58	211
Northern Europe to U.S. Gulf Coast (0803)	0	0	136	0	79	129	0	77	94	0	36	65	0	34	40
U.S. Gulf Coast to Southern Europe (0309)	0	93	173	0	195	228	0	209	244	0	220	258	0	219	256
Southern Europe to U.S. Gulf Coast (0903)	0	244	421	0	125	366	0	153	393	0	238	414	0	311	411
U.S. Gulf Coast to Japan (0310)	0	0	0	0	114	133	0	110	128	0	70	82	0	41	48
Japan to U.S. Gulf Coast (1003)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	0	81	85	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	41	41	0	194	240	0	212	261	0	236	292	0	248	306
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)	0	0	415	2	63	2,069	0	62	1,923	1	63	1,504	0	60	1,074
U.S. Gulf Coast to South America East Coast (0313)	0	79	83	0	394	449	0	357	417	0	279	326	0	199	233
South America East Coast to U.S. Gulf Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	81	85	0	71	330	0	63	428	1	22	612	0	5	807
U.S. Gulf Coast to Arabian Gulf (0318)	0	81	85	0	259	303	0	335	392	1	480	561	1	632	740
Arabian Gulf to U.S. Gulf Coast (1803)	1	654	684	1	860	1,006	1	1,158	1,354	1	1,052	1,230	1	646	794
U.S. Gulf Coast to Other Med (0319)	0	209	582	1	346	825	1	431	1,111	1	512	1,009	0	557	651
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	45	52	0	46	54	0	41	48	0	27	32
U.S. Gulf Coast to China (0321)	0	0	0	0	148	174	0	179	210	0	218	255	0	280	327
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	23	27	0	29	34	0	36	43	0	44	51
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	17	20	0	13	16	0	9	11	0	6	6
Total - U.S. Gulf Coast Routes	3	2,205	3,678	5	3,498	7,023	6	3,854	7,552	6	3,692	7,051	5	3,366	5,987
Total - US Routes	7	5,089	8,448	11	8,560	15,898	11	9,199	16,824	11	9,121	16,753	11	8,688	16,358

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Combination Carriers - 100,000 to 175,000 DWT (EE)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	4	2,190	5,401	1	1,115	1,858	1	1,005	1,801	1	412	1,308	0	174	808
Northern Europe to U.S. Gulf Coast (0803)	1	1,073	2,014	0	970	1,134	0	940	1,099	0	685	798	0	422	493
U.S. Gulf Coast to Southern Europe (0309)	1	0	1,887	0	22	30	0	25	30	0	28	41	0	29	54
Southern Europe to U.S. Gulf Coast (0903)	1	0	1,071	0	1,071	1,550	0	27	36	0	42	49	0	55	64
U.S. Gulf Coast to Japan (0310)	0	231	1,231	0	1,325	1,550	0	1,368	1,600	0	946	1,107	0	581	679
Japan to U.S. Gulf Coast (1003)	0	0	66	0	0	500	0	0	516	0	0	357	0	0	219
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	90	90	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East MIC's (0312)	0	106	106	0	177	219	0	196	242	0	213	263	0	218	269
Far East MIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	1	180	2,949	2	207	3,590	2	175	3,328	1	129	2,603	1	89	1,858
South America East Coast to U.S. Gulf Coast (1303)	0	1,284	1,353	1	1,116	1,305	1	1,037	1,213	0	811	949	0	579	677
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	105	0	2	2	0	2	2	0	3	3	0	4	5
East Africa to U.S. Gulf Coast (1503)	0	0	210	0	0	0	0	0	0	0	0	0	0	0	11
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	96	133	0	66	76	0	59	69	0	35	41	0	20	23
U.S. Gulf Coast to South Africa (0317)	0	0	155	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Gulf Coast (1803)	0	286	399	1	199	654	1	178	847	1	61	1,212	2	15	1,597
U.S. Gulf Coast to Other Med (0319)	0	375	375	1	2,498	2,921	1	3,233	3,784	1	4,629	5,414	2	6,099	7,134
Other Med to U.S. Gulf Coast (1903)	0	200	205	0	382	536	0	534	791	0	479	270	1	270	857
U.S. Gulf Coast to China (0321)	0	109	109	0	256	300	0	318	372	0	378	442	0	409	479
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	1	0	126	0	26	30	0	31	36	0	38	44	0	48	56
South East Asia to U.S. Gulf Coast (2203)	0	0	629	0	0	2	0	0	2	0	0	2	0	0	3
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	281	0	1	1	0	1	1	0	1	1	0	1	2
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	12	6,222	16,816	6	8,385	14,733	7	9,133	15,653	7	8,891	15,438	6	9,014	15,289

Total - US Routes

25 16,463 36,876 20 23,204 40,753 22 25,757 46,253 24 27,170 52,149 26 28,748 57,805

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - Greater than 175,000 DWT (EF)
On U.S. Gulf Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0306)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Gulf Coast (0803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Southern Europe (0309)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Gulf Coast (0303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Japan (0310)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Gulf Coast (1003)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Gulf Coast (1303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	0	203	585	1	2,111	2,471	1	2,437	2,852	1	2,782	3,256	2	3,219	3,767
Total - US Routes	0	203	585	1	4,624	5,410	1	5,261	6,155	1	5,895	6,897	2	6,593	7,713

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - Less than 10,000 DWT (FA)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	1	76	97	1	110	144	1	49	134	1	68	143	1	94	144
Northern Europe to U.S. Gulf Coast (0803)	1	100	123	2	153	237	2	169	221	2	181	236	2	181	237
U.S. Gulf Coast to Southern Europe (0309)	1	75	84	2	37	161	2	33	185	2	13	147	1	6	115
Southern Europe to U.S. Gulf Coast (0903)	1	84	84	2	179	234	2	206	269	2	164	214	1	128	167
U.S. Gulf Coast to Japan (0310)	0	17	23	0	13	16	0	12	16	0	9	12	0	6	8
Japan to U.S. Gulf Coast (1005)	0	0	23	0	0	24	0	0	23	0	0	17	0	0	12
U.S. Gulf Coast to Australia/New Zealand (0311)	0	5	13	0	6	8	0	5	7	0	3	4	0	1	2
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	9	9	0	13	16	0	12	15	0	5	6	0	1	2
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	14	0	0	13	0	0	5	0	0	2
U.S. Gulf Coast to South America East Coast (0313)	6	393	813	9	521	737	11	727	950	22	1,374	1,797	37	2,347	3,067
South America East Coast to U.S. Gulf Coast (1303)	14	1,899	2,139	20	1,632	2,133	26	1,517	2,752	49	1,187	5,203	83	847	8,864
U.S. Gulf Coast to South America West Coast (0314)	1	67	154	3	83	311	4	112	414	6	199	614	7	295	801
South America West Coast to U.S. Gulf Coast (1403)	2	302	302	5	501	654	7	666	871	11	988	1,291	14	1,288	1,683
U.S. Gulf Coast to East Africa (0315)	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	2	4	0	2	3	0	3	4	0	4	4	0	5	6
West Africa to U.S. Gulf Coast (1603)	0	0	15	0	2	14	0	3	17	0	4	24	0	5	27
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	1	1	0	1	1	0	0	1	0	0	0
U.S. Gulf Coast to Arabian Gulf (0318)	0	4	15	0	4	5	0	4	5	0	4	5	0	3	3
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	0	23	0	0	63	0	0	82	0	0	111	0	0	145
Other Med to U.S. Gulf Coast (1903)	1	162	167	2	211	276	3	274	358	4	372	487	5	487	637
U.S. Gulf Coast to China (0321)	0	7	7	0	10	14	0	13	17	0	19	24	1	26	33
China to U.S. Gulf Coast (2103)	0	0	0	0	2	3	0	2	2	0	1	1	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	8	23	0	9	12	0	15	19	0	28	36	0	49	64
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	9	11	0	630	13	0	770	15	0	889	17	0	977
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	8	8	10	459	600	12	562	734	14	649	848	16	713	932
Total - U.S. Gulf Coast Routes	33	3,217	4,162	69	3,948	6,311	86	4,383	7,878	129	5,269	12,120	188	6,482	17,950
Total - US Routes	54	4,432	6,566	95	5,659	9,172	115	6,360	11,192	163	7,674	16,272	233	9,406	23,421

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 10,000 to 40,000 DWT (FB)
On U.S. Gulf Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Gulf Coast to Northern Europe (0308)	8	2,735	3,632	11	3,647	4,767	8	2,601	3,394	10	3,400	4,437	12	4,099	4,437	12	4,099	5,358		
Northern Europe to U.S. Gulf Coast (0803)	9	2,156	3,432	12	2,737	6,040	9	2,679	3,435	11	5,735	7,484	14	4,437	7,484	14	4,437	9,037		
U.S. Gulf Coast to Southern Europe (0309)	6	1,513	1,745	5	1,749	1,360	6	672	1,261	5	1,785	1,616	4	1,112	1,616	4	1,112	1,106		
Southern Europe to U.S. Gulf Coast (0903)	4	941	1,443	4	1,399	1,751	4	1,539	2,003	3	2,003	1,589	3	950	1,589	3	950	1,261		
U.S. Gulf Coast to Japan (0310)	9	2,110	2,696	4	1,314	1,717	4	1,514	1,849	4	1,849	1,660	4	1,111	1,660	4	1,111	1,452		
Japan to U.S. Gulf Coast (1003)	3	239	498	1	33	503	1	37	561	1	561	486	1	27	486	1	27	425		
U.S. Gulf Coast to Australia/New Zealand (0311)	2	216	498	1	240	314	1	234	305	1	305	235	2	155	235	2	155	399		
Australia/New Zealand to U.S. Gulf Coast (1103)	0	74	96	0	11	61	0	14	30	0	30	46	0	60	46	0	60	78		
U.S. Gulf Coast to Far East NIC's (0312)	10	1,655	2,682	13	3,089	3,814	24	5,594	6,907	45	6,907	12,980	78	18,097	12,980	78	18,097	22,342		
Far East NIC's to U.S. Gulf Coast (0312)	3	37	801	5	0	3,304	8	0	2,361	15	2,361	4,437	27	0	4,437	27	0	3,638		
U.S. Gulf Coast to South America East Coast (0313)	21	2,897	8,882	26	2,832	9,722	25	3,685	9,103	19	9,103	7,121	14	3,354	7,121	14	3,354	5,084		
South America East Coast to U.S. Gulf Coast (1303)	14	7,882	7,882	17	7,385	9,653	16	6,885	8,974	12	8,974	7,020	9	3,884	7,020	9	3,884	5,012		
U.S. Gulf Coast to South America West Coast (0314)	2	317	1,041	5	397	2,003	6	564	2,668	9	2,668	3,918	12	1,314	3,918	12	1,314	5,090		
South America West Coast to U.S. Gulf Coast (1403)	4	1,523	1,523	8	2,278	2,978	10	3,024	3,953	15	3,953	5,826	20	5,790	5,826	20	5,790	7,569		
U.S. Gulf Coast to East Africa (0315)	1	5	247	0	4	5	0	4	5	0	5	4	0	3	4	0	3	4		
East Africa to U.S. Gulf Coast (0315)	1	0	180	0	0	4	0	0	4	0	4	4	0	0	4	0	0	3		
U.S. Gulf Coast to West Africa (0316)	1	98	150	1	205	288	1	208	273	1	273	216	0	112	216	0	112	147		
West Africa to U.S. Gulf Coast (0316)	0	85	396	2	112	722	2	132	733	1	733	581	1	200	581	1	200	365		
U.S. Gulf Coast to South Africa (0317)	1	168	385	1	215	282	1	140	198	0	198	183	0	99	183	0	99	130		
South Africa to U.S. Gulf Coast (1603)	1	67	261	1	20	182	1	22	167	0	167	118	0	39	118	0	39	84		
U.S. Gulf Coast to South Africa (0317)	2	153	458	33	410	7,267	31	311	6,845	12	6,845	2,731	6	315	2,731	6	315	1,318		
South Africa to U.S. Gulf Coast (1703)	3	810	810	48	11,779	15,398	46	11,095	14,503	18	14,503	5,786	9	2,157	5,786	9	2,157	2,794		
Arabian Gulf to U.S. Gulf Coast (0318)	2	277	505	3	625	918	3	841	1,189	5	1,189	1,828	8	2,157	1,828	8	2,157	2,819		
U.S. Gulf Coast to Other Med (0319)	0	918	935	4	1,231	1,610	5	1,596	2,087	7	2,087	3,207	11	2,843	3,207	11	2,843	4,946		
Other Med to U.S. Gulf Coast (1903)	2	54	54	1	87	116	1	116	206	1	206	239	2	273	239	2	273	357		
U.S. Gulf Coast to China (0321)	1	218	218	5	805	1,052	5	691	904	5	904	958	7	289	958	7	289	1,430		
China to U.S. Gulf Coast (2103)	4	177	782	1	195	255	1	169	221	5	221	284	2	275	284	2	275	359		
U.S. Gulf Coast to South East Asia (0322)	3	487	573	1	50	192	1	46	166	1	166	198	2	54	198	2	54	270		
South East Asia to U.S. Gulf Coast (2203)	1	12	179	3	11	736	3	8	848	4	848	958	4	0	958	4	0	1,031		
U.S. Gulf Coast to Indian Sub-Continent (0323)	1	239	239	5	803	1,049	5	937	1,225	6	1,225	1,384	6	1,139	1,384	6	1,139	1,489		
Indian Sub-Continent to U.S. Gulf Coast (2303)	119	27,864	42,586	220	42,230	78,448	228	45,293	79,291	217	79,291	77,314	256	53,254	77,314	256	53,254	89,405		
Total - U.S. Gulf Coast Routes	295	57,310	113,686	449	88,983	168,596	491	99,642	184,180	548	184,180	214,393	684	147,117	214,393	684	147,117	270,379		

Total - US Routes

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 40,000 to 80,000 DWT (FC)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	1	550	597	2	1,443	1,843	1	787	1,028	1	1,064	1,359	2	1,381	1,764
Northern Europe to U.S. Gulf Coast (0603)	1	400	626	2	788	1,047	1	650	1,056	1	936	1,436	2	1,120	1,864
U.S. Gulf Coast to Southern Europe (0309)	1	522	562	1	367	494	1	561	561	1	135	445	0	58	348
Southern Europe to U.S. Gulf Coast (0905)	0	0	326	0	252	297	0	264	337	0	209	267	0	164	209
U.S. Gulf Coast to Japan (0310)	0	54	62	1	6	322	2	274	349	1	249	318	1	220	281
U.S. Gulf Coast to U.S. Gulf Coast (1003)	0	0	207	0	6	1,075	0	41	1,168	2	5	1,062	2	5	940
U.S. Gulf Coast to Australia/New Zealand (0311)	0	47	0	0	42	54	0	12	52	0	32	40	0	27	35
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	63	0	9	11	0	15	15	0	25	31	0	48	62
U.S. Gulf Coast to Far East NIC's (0312)	0	30	42	3	609	751	6	1,103	1,362	10	2,076	2,563	18	3,574	4,612
Far East NIC's to U.S. Gulf Coast (1203)	0	0	62	0	0	476	4	0	476	7	0	1,623	11	0	2,794
U.S. Gulf Coast to South America East Coast (0313)	22	642	2,616	13	1,065	1,360	16	1,364	1,741	10	841	1,074	8	637	813
South America East Coast to U.S. Gulf Coast (1303)	19	3,358	21,278	11	4,138	9,162	14	3,847	11,734	8	3,009	7,234	6	2,148	5,481
U.S. Gulf Coast to South America West Coast (0314)	1	252	668	2	739	1,681	2	1,131	2,237	3	2,242	3,312	5	4,006	5,117
South America West Coast to U.S. Gulf Coast (1403)	1	930	930	2	1,943	2,481	3	2,585	3,301	4	3,827	4,887	6	4,985	7,551
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	1	1	0	0	1	0	1	1	0	1	1
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	36	46	0	37	47	0	29	37	0	20	25
West Africa to U.S. Gulf Coast (1603)	0	54	242	0	70	90	0	76	97	0	83	106	0	93	119
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	38	49	0	35	45	0	25	32	0	18	22
South Africa to U.S. Gulf Coast (1703)	0	33	62	0	60	77	0	85	108	0	130	166	0	183	234
U.S. Gulf Coast to Arabian Gulf (0318)	0	67	146	1	307	801	1	202	769	1	161	346	0	110	204
Arabian Gulf to U.S. Gulf Coast (1803)	1	125	425	3	2,213	2,827	3	2,127	2,717	1	956	1,221	1	553	706
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	110	151	0	148	195	0	247	315	0	381	486
Other Med to U.S. Gulf Coast (1903)	2	1,777	1,785	3	2,521	3,220	4	3,268	4,174	6	4,448	6,737	9	5,819	10,390
U.S. Gulf Coast to China (0321)	0	65	65	0	142	143	0	139	177	1	205	262	1	286	344
China to U.S. Gulf Coast (2103)	0	0	0	0	142	181	0	122	156	0	78	99	0	48	61
U.S. Gulf Coast to South East Asia (0322)	0	60	117	0	64	82	0	49	63	0	46	59	0	53	68
South East Asia to U.S. Gulf Coast (2203)	0	54	143	0	14	108	0	13	83	0	14	78	0	15	90
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	72	0	2	3	0	1	2	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	127	163	0	148	189	0	167	213	0	179	228
Total - U.S. Gulf Coast Routes	49	9,018	31,127	48	17,470	29,894	59	19,061	34,656	58	21,257	35,323	74	26,133	44,665
Total - US Routes	86	29,704	65,984	103	46,737	78,561	121	52,707	90,542	134	61,848	104,145	166	75,131	129,619

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 80,000 to 100,000 DWT (FD)
On U.S. Gulf Coast Routes

ROUTE	1987			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	0	378	544	1	685	846	0	313	460	0	540	738
Northern Europe to U.S. Gulf Coast (0803)	1	1,086	1,691	2	1,048	2,312	1	1,019	1,258	1	487	2,017
U.S. Gulf Coast to Southern Europe (0309)	1	639	674	0	359	443	0	322	397	0	54	66
Southern Europe to U.S. Gulf Coast (0503)	1	0	880	0	0	427	0	0	383	0	0	64
U.S. Gulf Coast to Japan (0310)	1	123	173	0	112	138	1	114	141	0	72	89
Japan to U.S. Gulf Coast (1003)	1	0	259	1	0	272	1	0	278	0	0	175
U.S. Gulf Coast to Australia/New Zealand (0311)	0	58	86	0	75	93	0	63	78	0	31	21
U.S. Gulf Coast to Australia/New Zealand to U.S. Gulf Coast (1103)	1	427	641	1	6	751	1	7	631	1	16	172
Australia/New Zealand to U.S. Gulf Coast (0312)	1	0	93	1	11	14	1	21	25	0	39	85
U.S. Gulf Coast to Far East NIC's (1203)	0	0	187	0	0	36	0	0	66	0	0	216
Far East NIC's to U.S. Gulf Coast (0313)	18	0	8,376	8	103	2,833	7	130	2,634	6	61	1,571
U.S. Gulf Coast to South America East Coast (0314)	19	8,986	31,599	8	8,232	10,163	7	7,653	9,448	6	5,987	5,277
South America East Coast to U.S. Gulf Coast (0315)	0	0	131	0	119	146	0	183	225	1	4,274	884
U.S. Gulf Coast to South America West Coast (0316)	0	1,000	1,000	0	2,055	2,538	0	2,736	3,378	0	4,055	6,528
South America West Coast to U.S. Gulf Coast (1403)	0	0	96	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0317)	0	0	360	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	474	0	0	370	0	0	462	0	0	807
U.S. Gulf Coast to West Africa (0318)	2	1,386	2,686	2	1,938	2,393	2	2,425	2,994	3	4,232	5,225
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0319)	0	0	0	0	63	78	0	89	110	0	193	238
South Africa to U.S. Gulf Coast (1703)	0	0	352	0	41	146	0	25	189	0	10	190
U.S. Gulf Coast to Arabian Gulf (0318)	2	433	1,467	1	492	607	1	618	763	1	642	792
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	182	0	0	207	0	0	267	0	0	468
U.S. Gulf Coast to Other Med (0319)	3	2,490	2,490	5	3,868	4,775	7	5,001	6,174	9	8,755	10,808
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	17	21	0	21	26	0	42	52
U.S. Gulf Coast to China (0321)	0	0	157	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	93	0	5	20	0	3	22	0	1	24
U.S. Gulf Coast to South East Asia (0322)	0	0	984	0	160	197	0	167	206	0	199	245
South East Asia to U.S. Gulf Coast (2203)	2	217	81	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	54	17,222	55,558	31	19,389	29,826	31	20,911	30,609	30	23,064	32,994
Total - US Routes	95	43,275	112,339	63	44,251	78,020	65	48,056	83,244	66	52,550	89,900

Total - US Routes

98,715

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 100,000 to 175,000 DWT (FE)
On U.S. Gulf Coast Routes

ROUTE	1987			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	1	0	1,371	1	96	1,048	1	45	1,016	0	63	738
Northern Europe to U.S. Gulf Coast (0803)	1	1,433	2,265	1	1,468	1,717	1	1,423	1,665	1	1,033	1,209
U.S. Gulf Coast to Southern Europe (0309)	1	0	960	0	55	65	0	50	58	0	19	23
Southern Europe to U.S. Gulf Coast (0903)	2	0	2,338	0	0	211	0	0	189	0	0	73
U.S. Gulf Coast to Japan (0310)	1	0	466	0	19	22	0	19	23	0	16	18
Japan to U.S. Gulf Coast (1003)	1	0	628	0	0	33	0	0	34	0	0	27
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	404	1	13	15	0	11	13	0	6	7
Australia/New Zealand to U.S. Gulf Coast (1103)	1	313	0	1	1	1	0	1	1	0	2	3
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)	8	0	9,553	0	0	8,334	4	0	7,748	3	0	6,060
U.S. Gulf Coast to South America East Coast (0313)	5	4,047	14,239	3	4,841	5,662	3	4,501	5,264	2	3,521	4,118
South America East Coast to U.S. Gulf Coast (1303)	0	0	600	0	0	1,617	0	1,840	2,153	0	2,728	3,191
U.S. Gulf Coast to South America West Coast (0314)	0	600	244	0	1,383	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	0	300	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	2	0	3,165	2	0	3,208	2	0	4,050	3	0	5,632
East Africa to U.S. Gulf Coast (1503)	10	10,122	16,655	10	14,781	17,288	13	18,661	21,866	18	25,949	30,349
U.S. Gulf Coast to West Africa (0316)	1	0	1,003	0	0	11,074	10	0	15,922	16	0	24,975
West Africa to U.S. Gulf Coast (1603)	1	757	825	7	7,479	8,748	8	10,753	12,577	13	16,867	19,728
U.S. Gulf Coast to South Africa (0317)	1	0	959	1	1,991	2,328	2	2,569	3,005	2	3,553	4,156
South Africa to U.S. Gulf Coast (1703)	1	0	3,752	1	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Arabian Gulf (0318)	2	0	3,139	0	611	714	0	789	923	1	1,065	1,246
Arabian Gulf to U.S. Gulf Coast (1803)	1	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	1	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Gulf Coast (1903)	1	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to China (0321)	1	0	436	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	1	0	259	0	0	190	0	0	188	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	1,946	1	1,124	1,315	1	1,114	1,302	1	1,117	1,306
South East Asia to U.S. Gulf Coast (2203)	2	1,848	0	1	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	41	20,080	65,433	36	33,863	64,228	45	41,777	78,778	60	55,939	104,182

Total - US Routes

86 48,330 153,437 80 85,252 165,146 99 106,191 179,040 133 143,821 238,940 169 183,327 302,855

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 175,000 to 250,000 DWT (FF)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Gulf Coast (0303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Southern Europe (0309)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Gulf Coast (0305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Japan (0310)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Gulf Coast (1003)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Gulf Coast (1303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Arabian Gulf (0318)	1	0	0	1	0	0	1	0	0	1	0	0	2	0	0
Arabian Gulf to U.S. Gulf Coast (1803)	0	571	1,457	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	2	1,011	3,071	2	6,980	9,522	2	8,653	11,877	3	11,646	16,096	4	14,809	20,550
Total - US Routes	16	1,226	29,728	2	15,550	19,546	3	19,474	24,534	3	26,569	33,550	4	34,000	43,005

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Tankers - Greater than 250,000 DWT (FG)
On U.S. Gulf Coast Routes

ROUTE	1987				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	
U.S. Gulf Coast to Northern Europe (0308)	0	0	422	0	0	713	0	0	692	0	0	502	0	0	310	
Northern Europe to U.S. Gulf Coast (0803)	0	588	676	0	625	731	0	606	709	0	440	515	0	272	318	
U.S. Gulf Coast to Southern Europe (0309)	1	0	5,166	0	0	0	0	0	0	0	0	0	0	0	0	
Southern Europe to U.S. Gulf Coast (0903)	0	0	275	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Japan (0310)	0	0	284	0	0	0	0	0	0	0	0	0	0	0	0	
Japan to U.S. Gulf Coast (1003)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to South America East Coast (0313)	1	0	3,442	1	0	5,752	1	0	5,347	1	0	0	0	0	2,986	
South America East Coast to U.S. Gulf Coast (1303)	1	6,820	6,974	2	6,963	8,144	1	6,473	7,571	1	5,064	5,922	1	3,615	4,228	
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
East Africa to U.S. Gulf Coast (1503)	0	0	275	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to West Africa (0316)	1	2,843	4,992	1	4,771	5,360	2	6,024	862	0	8,379	1,199	0	10,685	1,329	
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	7,046	0	0	9,800	0	12,497	0	
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South Africa to U.S. Gulf Coast (0318)	6	0	2,395	0	74	87	0	107	125	0	167	196	0	237	277	
U.S. Gulf Coast to Arabian Gulf (0318)	9	17,358	17,358	29	53,674	62,776	38	69,509	81,297	34	99,163	115,980	64	130,424	95,907	
Arabian Gulf to U.S. Gulf Coast (1803)	1	0	2,024	0	0	2,511	1	0	3,123	54	0	3,706	70	0	152,543	
U.S. Gulf Coast to Other Med (0319)	1	199	358	0	299	350	0	372	435	1	441	516	1	477	4,006	
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
China to U.S. Gulf Coast (2103)	0	0	284	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South East Asia to U.S. Gulf Coast (2203)	1	1,322	1,391	1	1,141	1,334	1	1,191	1,393	1	1,269	1,484	1	1,417	1,658	
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	284	0	0	0	0	0	0	0	0	0	0	0	0	
Total - U.S. Gulf Coast Routes	21	29,129	47,193	53	67,547	128,384	67	84,282	159,978	94	114,923	217,205	122	147,127	277,132	
Total - US Routes	26	29,156	73,643	53	67,955	128,838	67	84,775	160,555	94	115,564	217,955	122	147,902	278,039	

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Gas Tankers (GA)
On U.S. Gulf Coast Routes

3/14/90

ROUTE	1987				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	
U.S. Gulf Coast to Northern Europe (0308)	6	6	1,399	1	26	169	1	30	207	0	24	113	0	18	53	
Northern Europe to U.S. Gulf Coast (0803)		77	1,151	0	78	174	0	96	213	0	52	115	0	25	54	
U.S. Gulf Coast to Southern Europe (0309)		0	801	0	0	0	0	0	0	0	0	0	0	0	0	
Southern Europe to U.S. Gulf Coast (0903)		0	865	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Japan (0310)		0	116	0	0	0	0	0	0	0	0	0	0	0	0	
Japan to U.S. Gulf Coast (1003)		0	364	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Australia/New Zealand (0311)	1	1	138	0	0	0	0	0	0	0	0	0	0	0	0	
Australia/New Zealand to U.S. Gulf Coast (1103)	1	0	179	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Far East NIC's (0312)	1	0	105	0	0	0	0	0	0	0	0	0	0	0	0	
Far East NIC's to U.S. Gulf Coast (1203)	1	0	111	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to South America East Coast (0313)	13	96	2,539	13	144	2,018	12	248	1,862	9	445	1,617	11	751	1,668	
South America East Coast to U.S. Gulf Coast (1303)	8	594	1,675	8	675	1,501	6	623	1,365	6	474	1,054	7	310	1,241	
U.S. Gulf Coast to South America West Coast (0314)	1	21	320	0	1	1	0	1	2	0	1	3	0	2	4	
South America West Coast to U.S. Gulf Coast (1403)	1	0	125	0	0	0	0	0	1	0	0	2	0	0	3	
U.S. Gulf Coast to East Africa (0315)	0	0	39	0	0	0	0	0	0	0	0	0	0	0	0	
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to West Africa (0316)	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to South Africa (0317)	0	0	124	0	0	0	0	0	0	0	0	0	0	0	0	
South Africa to U.S. Gulf Coast (1703)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to U.S. Gulf Coast (1803)	2	0	671	3	0	0	5	0	6,518	7	903	9,124	9	0	11,684	
Arabian Gulf to U.S. Gulf Coast (0318)	0	239	239	1	472	4,766	1	645	1,433	1	903	2,006	2	1,156	2,569	
U.S. Gulf Coast to Arabian Gulf (1803)	2	0	973	1	0	1,043	1	0	369	1	0	624	2	0	954	
U.S. Gulf Coast to Other Med (0319)	2	570	756	0	109	242	1	154	342	1	260	578	2	398	884	
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to South East Asia (0322)	3	0	555	0	0	0	0	0	0	0	0	0	0	0	0	
South East Asia to U.S. Gulf Coast (2203)	1	0	191	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	
Total - U.S. Gulf Coast Routes	54	1,710	13,414	28	1,505	10,161	28	1,797	12,332	26	2,160	15,035	32	2,659	19,114	
Total - US Routes	70	3,540	21,365	49	5,185	22,894	56	6,747	29,175	64	9,394	39,007	86	12,788	52,852	

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Vehicle Carriers (WB)
On U.S. Gulf Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	0	0	44	0	0	86	0	0	82	0	0	55	0	0	33
Northern Europe to U.S. Gulf Coast (0803)	1	70	398	1	61	677	1	58	648	1	39	434	23	259	0
U.S. Gulf Coast to Southern Europe (0309)	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Gulf Coast (0903)	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Japan (0310)	7	0	1,155	4	0	1,056	3	0	1,006	3	0	800	0	0	558
Japan to U.S. Gulf Coast (1003)	7	115	1,020	3	92	1,020	3	88	973	3	70	773	49	540	0
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	3	0	318	1	0	451	2	0	619	3	0	948	0	0	1,222
South America East Coast to U.S. Gulf Coast (1303)	2	14	341	2	33	338	2	45	504	3	70	773	4	996	0
U.S. Gulf Coast to South America West Coast (0314)	0	0	29	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	0	47	0	0	78	0	0	108	0	0	103	0	0	92
Other Med to U.S. Gulf Coast (1903)	0	16	37	0	6	66	0	8	90	0	8	87	7	77	0
U.S. Gulf Coast to China (0321)	0	0	51	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	51	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Gulf Coast (2203)	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	23	215	3,724	11	192	3,802	12	199	4,030	12	186	3,973	12	168	3,777
Total - US Routes	266	3,730	51,989	216	3,877	91,054	224	3,975	95,338	227	3,899	99,251	230	3,848	103,936

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - Less than 10,000 DWT (PA)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	1	61	85	1	80	105	1	73	96	1	94	123	1	112	146
Northern Europe to U.S. Gulf Coast (0803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Southern Europe (0309)	0	26	26	0	15	20	0	14	18	0	5	7	0	2	3
Southern Europe to U.S. Gulf Coast (0903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Japan (0310)	1	45	75	1	43	56	1	45	58	1	41	53	1	39	51
Japan to U.S. Gulf Coast (1003)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	0	2	10	0	5	6	0	8	10	0	13	17	0	21	27
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	7	13	0	15	18	0	20	25	1	27	34	1	41	51
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	5	207	755	3	209	273	3	285	373	5	387	506	7	577	754
South America East Coast to U.S. Gulf Coast (1303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America West Coast (0314)	0	17	63	0	20	26	0	27	35	1	47	61	1	67	88
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	22	31	0	26	34	0	31	40	1	44	57	1	50	65
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	1	1	0	1	1	0	1	1	0	1	2
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Arabian Gulf (0318)	0	8	22	0	14	18	1	19	25	1	32	42	1	51	67
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	5	7	0	10	13	0	12	16	0	9	12	0	6	8
Other Med to U.S. Gulf Coast (1903)	0	31	31	0	53	69	0	68	89	0	93	122	0	122	159
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	1	12	41	1	15	36	1	10	27	0	8	16	0	6	8
South East Asia to U.S. Gulf Coast (2203)	0	18	21	0	14	18	0	10	14	0	6	8	0	3	4
U.S. Gulf Coast to Indian Sub-Continent (0323)	1	19	67	13	25	1,674	16	31	2,047	18	56	2,365	20	91	2,598
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	7	7	3	115	150	4	140	184	4	162	212	5	178	233
Total - U.S. Gulf Coast Routes	11	486	1,261	24	659	2,518	28	795	3,058	33	1,086	3,636	39	1,367	4,264
Total - US Routes	19	737	2,017	28	1,002	3,004	33	1,209	3,630	38	1,534	4,325	44	2,034	5,157

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 10,000 to 40,000 DWT (PB)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northk. Europe (0308)	0	0	0	19	14	17	0	0	17	0	0	22	0	0	26
Northern Europe to U.S. Gulf Coast (0603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Southern Europe (0309)	0	0	0	62	43	58	0	0	23	0	0	30	0	11	14
Southern Europe to U.S. Gulf Coast (0903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Japan (0510)	0	0	0	10	8	10	0	0	7	0	0	9	0	7	9
Japan to U.S. Gulf Coast (1003)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0511)	0	0	0	1	1	2	0	0	2	0	0	3	0	4	5
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	3	3	4	0	0	5	0	0	6	0	7	9
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	48	37	66	0	0	68	0	0	89	0	102	133
U.S. Gulf Coast to South America East Coast (0313)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Gulf Coast (1303)	0	0	0	5	5	6	0	0	8	0	0	11	0	12	16
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	0	0	2	2	3	0	0	2	0	0	2	0	1	1
Other Med to U.S. Gulf Coast (1903)	0	173	173	402	308	522	0	0	543	0	0	710	0	711	929
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	1	198	198	263	201	226	0	0	110	0	0	144	0	67	88
U.S. Gulf Coast to South East Asia (0322)	6	204	1,218	817	241	848	4	4	377	1	4	902	5	595	1,006
South East Asia to U.S. Gulf Coast (2203)	5	859	1,010	679	519	705	3	3	573	4	3	749	3	639	836
U.S. Gulf Coast to Indian Sub-Continent (0323)	3	57	587	182	76	212	1	1	174	1	1	240	2	289	378
Indian Sub-Continent to U.S. Gulf Coast (2303)	3	181	865	262	201	306	1	1	265	1	1	346	2	285	346
Total - U.S. Gulf Coast Routes	17	1,671	4,050	9	1,673	2,771	10	1,840	2,195	10	2,195	3,290	12	2,778	4,032
Total - US Routes	40	4,148	10,671	22	4,008	7,064	23	4,347	5,022	25	5,022	8,575	30	6,171	10,414

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 40,000 to 80,000 DWT (PC)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	1	749	850	2	1,022	1,306	1	698	891	2	924	1,180	2	1,130	1,443
Northern Europe to U.S. Gulf Coast (0803)	1	335	534	1	430	1,051	1	505	717	1	658	949	1	828	1,161
U.S. Gulf Coast to Southern Europe (0309)	1	996	1,065	1	497	634	1	446	569	0	174	224	0	75	115
Southern Europe to U.S. Gulf Coast (0903)	1	109	699	1	142	461	1	161	414	0	127	163	0	99	127
U.S. Gulf Coast to Japan (0310)	1	390	467	1	193	246	1	215	275	1	201	257	0	181	231
Japan to U.S. Gulf Coast (1003)	1	60	378	0	8	200	0	9	223	0	7	209	0	6	188
U.S. Gulf Coast to Australia/New Zealand (0311)	1	69	125	0	78	99	0	70	89	0	44	60	0	28	117
Australia/New Zealand to U.S. Gulf Coast (1103)	0	35	37	0	5	30	0	7	27	0	14	18	0	28	36
U.S. Gulf Coast to Far East NIC's (0312)	1	10	237	0	75	92	0	127	157	1	224	277	1	381	471
Far East NIC's to U.S. Gulf Coast (1203)	1	10	237	0	0	163	1	1	276	2	0	499	2	0	890
U.S. Gulf Coast to South America East Coast (0313)	8	873	7,202	11	879	8,273	11	1,148	8,214	12	1,097	8,928	13	1,384	9,760
South America East Coast to U.S. Gulf Coast (1303)	7	6,024	6,702	10	6,220	7,944	10	6,176	7,887	10	6,711	8,571	11	7,338	9,372
U.S. Gulf Coast to South America West Coast (0314)	0	114	220	0	220	281	0	328	419	1	599	732	1	1,028	1,313
South America West Coast to U.S. Gulf Coast (1403)	0	159	159	0	48	233	0	55	347	1	56	623	1	53	1,087
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	24	70	0	50	64	0	50	64	0	38	48	0	22	33
West Africa to U.S. Gulf Coast (1603)	0	35	159	0	41	160	0	46	160	0	55	119	0	64	82
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	8	58	0	15	19	0	21	27	0	32	41	0	46	58
U.S. Gulf Coast to Arabian Gulf (0318)	1	74	373	4	171	2,200	4	156	2,184	2	201	1,154	1	271	798
Arabian Gulf to U.S. Gulf Coast (1803)	1	656	656	9	3,511	4,484	9	3,485	4,450	5	1,842	2,352	3	1,273	1,626
U.S. Gulf Coast to Other Med (0319)	0	64	154	0	144	184	0	196	251	1	338	432	1	530	677
Other Med to U.S. Gulf Coast (1903)	0	444	444	0	630	805	0	817	1,043	0	1,112	1,420	0	1,455	1,858
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	77	0	36	45	0	31	39	0	19	25	0	12	15
U.S. Gulf Coast to South East Asia (0322)	1	0	321	0	42	131	0	45	126	0	66	122	0	105	134
South East Asia to U.S. Gulf Coast (2203)	1	106	430	0	131	167	0	126	160	0	122	155	0	127	171
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	89	0	13	16	0	16	21	0	29	37	0	48	62
Indian Sub-Continent to U.S. Gulf Coast (2303)	2	0	623	0	32	113	0	37	147	1	42	262	1	45	436
Total - U.S. Gulf Coast Routes	30	11,361	22,291	43	14,631	29,402	42	14,972	29,180	40	14,723	28,865	44	16,558	32,261
Total - US Routes	76	26,612	57,511	96	35,219	74,004	104	38,712	80,731	113	42,351	90,463	133	49,436	107,039

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 80,000 to 100,000 DWT (PD)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	0	234	261	0	438	541	0	254	358	0	315	534	1	391	751
Northern Europe to U.S. Gulf Coast (0603)	0	143	265	1	253	575	0	308	360	0	460	568	1	646	798
U.S. Gulf Coast to Southern Europe (0309)	0	128	128	0	164	203	0	147	182	0	57	71	0	25	30
Southern Europe to U.S. Gulf Coast (0903)	0	0	173	0	25	288	0	28	258	0	22	100	0	18	43
U.S. Gulf Coast to Japan (0310)	0	58	86	0	68	84	0	75	93	0	69	85	0	61	75
Japan to U.S. Gulf Coast (1003)	0	0	175	0	1	162	0	2	177	0	1	10	0	5	143
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	14	17	0	12	15	0	8	10	0	5	6
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	1	1	0	1	1	0	3	3	0	5	6
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	13	16	0	22	28	0	40	49	0	67	83
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	5	0	6,846	9	155	11,699	9	203	11,627	10	194	12,593	11	244	13,726
South America East Coast to U.S. Gulf Coast (1303)	3	6,003	6,713	7	7,170	8,852	0	7,126	8,797	7	7,718	9,528	8	8,412	10,386
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	39	48	0	58	72	0	104	128	0	181	224
South America West Coast to U.S. Gulf Coast (1403)	0	83	92	0	32	40	0	37	46	0	38	47	0	36	44
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	89	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	9	11	0	9	10	0	7	8	0	4	5
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	7	9	0	8	10	0	10	12	0	11	14
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	16	19	0	22	27	0	34	42	0	48	60
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	84	0	30	37	0	28	34	0	36	44	0	48	59
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	620	765	0	615	759	0	325	401	0	225	277
U.S. Gulf Coast to Other Med (0319)	0	0	84	0	25	153	0	35	197	0	60	266	0	84	345
Other Med to U.S. Gulf Coast (1903)	1	627	627	1	967	1,194	1	1,250	1,544	2	1,688	2,084	2	2,189	2,702
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	1	0	220	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Gulf Coast (2203)	1	0	428	0	7	9	0	5	7	0	4	4	0	3	3
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	12	7,276	16,272	19	10,055	24,722	19	10,247	24,624	21	11,190	26,740	23	12,713	29,780

Total - US Routes

20 11,023 26,428 31 17,832 40,945 33 19,356 43,702 38 22,862 50,894 46 27,968 60,826

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 100,000 to 175,000 DWT (FE)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	0	0	108	0	46	53	0	23	27	0	31	0	34	40	
Northern Europe to U.S. Gulf Coast (0803)	0	0	0	0	31	36	0	39	61	0	71	0	88	105	
U.S. Gulf Coast to Southern Europe (0309)	0	202	208	0	113	132	0	101	39	0	46	0	17	20	
Southern Europe to U.S. Gulf Coast (0903)	0	0	216	0	0	130	0	0	0	0	45	0	0	19	
U.S. Gulf Coast to Japan (0310)	0	0	0	0	6	7	0	7	6	0	7	0	5	6	
Japan to U.S. Gulf Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to South America East Coast (0313)	0	0	431	2	0	3,028	2	0	0	0	3,049	2	0	3,159	
South America East Coast to U.S. Gulf Coast (1303)	0	307	323	1	1,335	1,562	1	1,310	1,345	1	1,573	1	1,393	1,629	
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	4	5	0	5	5	0	6	0	5	5	
U.S. Gulf Coast to East Africa (0315)	0	0	108	0	0	0	0	0	0	0	0	0	0	0	
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	1,895	2,205	0	2,711	4,252	0	4,973	0	6,018	7,008	
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to China (0321)	0	0	0	0	216	253	0	276	360	0	421	0	446	522	
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total - U.S. Gulf Coast Routes	1	509	1,394	3	3,637	7,411	3	4,472	6,095	3	10,223	3	8,005	12,541	
Total - US Routes	2	1,428	3,457	4	7,765	12,240	4	9,967	14,280	5	19,796	5	19,276	25,724	

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 175,000 to 250,000 DWT (PF)
On U.S. Gulf Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Gulf Coast (0803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Southern Europe (0309)	0	0	0	0	17	20	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Gulf Coast (0903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Japan (0310)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Gulf Coast (1003)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Gulf Coast (1203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Gulf Coast (1303)	0	0	0	0	47	54	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America West Coast (0314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Gulf Coast (1403)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to East Africa (0315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (1503)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Arabian Gulf (0318)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Gulf Coast (1803)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Other Med (0319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	11	13	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to China (0321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Gulf Coast (2103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South East Asia (0322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Gulf Coast (2203)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Indian Sub-Continent (0323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Gulf Coast (2303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Gulf Coast Routes	0	0	0	408	408	477	0	806	943	0	1,105	1,293	0	1,105	1,293
Total - US Routes	0	0	0	1,005	1,175	1,596	0	2,036	2,381	0	2,797	3,271	0	2,797	3,271

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Other Ships (XX)
On U.S. Gulf Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Gulf Coast to Northern Europe (0308)	4	46	1,731	0	60	208	0	64	225	0	60	225	0	60	225
Northern Europe to U.S. Gulf Coast (0803)	3	100	1,755	191	155	211	0	171	278	0	192	278	0	192	278
U.S. Gulf Coast to Southern Europe (0309)	1	256	419	287	233	287	1	216	153	0	68	153	0	68	153
Southern Europe to U.S. Gulf Coast (0903)	1	12	196	131	16	122	0	33	95	0	49	95	0	49	95
U.S. Gulf Coast to Japan (0310)	1	1	189	0	1	60	1	1	122	1	155	148	1	155	148
Japan to U.S. Gulf Coast (1003)	2	47	241	0	45	78	0	63	0	0	0	0	0	0	0
U.S. Gulf Coast to Australia/New Zealand (0311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Gulf Coast (1103)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to Far East NIC's (0312)	0	0	0	43	35	80	0	65	174	0	278	343	0	278	343
Far East NIC's to U.S. Gulf Coast (1203)	1	0	132	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South America East Coast (0313)	8	186	2,000	298	242	393	2	318	576	3	641	816	3	641	816
South America East Coast to U.S. Gulf Coast (0303)	7	74	2,170	298	145	392	1	188	576	3	314	815	3	314	815
U.S. Gulf Coast to South America West Coast (0314)	0	67	81	1,100	63	1,136	5	70	1,242	6	72	1,279	6	72	1,279
South America West Coast to U.S. Gulf Coast (1403)	0	37	37	477	396	492	1	399	538	2	449	554	2	449	554
U.S. Gulf Coast to East Africa (0315)	1	0	432	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Gulf Coast (0303)	1	0	333	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to West Africa (0316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Gulf Coast (1603)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to South Africa (0317)	0	0	35	4	0	7	0	0	11	0	0	0	0	0	0
South Africa to U.S. Gulf Coast (1703)	0	0	24	2	1	3	0	2	4	0	6	7	0	6	7
Arabian Gulf to U.S. Gulf Coast (0318)	1	115	518	127	103	179	0	145	256	1	281	347	1	281	347
U.S. Gulf Coast to Arabian Gulf (0303)	1	0	220	73	0	103	0	0	147	0	0	200	0	0	200
U.S. Gulf Coast to Other Med (0319)	1	17	424	28	23	38	0	31	38	0	22	27	0	22	27
Other Med to U.S. Gulf Coast (1903)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Gulf Coast to China (0321)	0	6	35	17	9	25	0	13	38	0	15	54	0	15	54
China to U.S. Gulf Coast (2103)	0	2	13	6	5	9	0	7	14	0	16	20	0	16	20
U.S. Gulf Coast to South East Asia (0322)	2	1	510	11	9	15	0	12	19	0	14	18	0	14	18
South East Asia to U.S. Gulf Coast (2203)	2	0	569	12	0	17	0	1	21	0	1	20	0	1	20
U.S. Gulf Coast to Indian Sub-Continent (0323)	1	12	421	12	10	12	0	10	7	0	1	4	0	1	4
Indian Sub-Continent to U.S. Gulf Coast (2303)	1	0	291	9	1	8	0	1	5	0	2	3	0	2	3
Total - U.S. Gulf Coast Routes	40	984	12,777	3,413	1,541	3,856	13	1,799	4,556	16	2,163	5,528	19	2,658	5,528
Total - US Routes	121	4,312	39,929	104	8,033	28,048	134	9,808	35,395	179	12,739	43,535	220	16,255	43,535

Northwest Coast

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For All Ship Types
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	6	619	1,465	3	856	1,475	4	950	1,736	7	1,025	2,208	7	1,093	2,784
Northern Europe to U.S. Northwest Coast (0805)	9	343	2,617	2	442	1,158	3	479	1,337	3	554	1,532	3	664	1,755
U.S. Northwest Coast to Southern Europe (0509)	3	538	1,546	1	550	1,715	1	700	908	2	1,006	1,301	2	1,318	1,702
Southern Europe to U.S. Northwest Coast (0905)	3	121	1,024	1	85	353	1	102	437	2	126	611	2	149	704
U.S. Northwest Coast to Japan (0510)	103	24,587	41,257	113	39,414	57,791	114	40,323	59,313	98	35,354	52,222	76	28,519	42,390
Japan to U.S. Northwest Coast (1005)	78	1,929	19,713	96	3,457	29,958	99	3,895	31,298	91	4,558	30,852	78	5,788	28,708
U.S. Northwest Coast to Australia/New Zealand (0511)	10	2,257	3,828	6	1,358	2,444	4	1,585	2,704	4	1,796	2,806	5	2,109	2,957
Australia/New Zealand to U.S. Northwest Coast (1105)	39	11,322	13,725	73	28,630	37,657	113	42,966	56,320	167	58,758	78,144	8	3,020	4,894
U.S. Northwest Coast to Far East NIC's (0512)	37	2,092	14,744	70	1,989	37,498	107	2,392	56,887	162	3,143	82,237	230	77,057	105,611
Far East NIC's to U.S. Northwest Coast (1205)	19	214	6,048	8	478	4,288	7	517	3,808	5	515	2,837	3	4,301	112,549
U.S. Northwest Coast to South America East Coast (0513)	9	1,496	3,048	3	1,504	1,915	3	1,342	1,767	3	1,069	1,592	5	945	2,515
South America East Coast to U.S. Northwest Coast (1305)	12	90	18,653	0	141	1,190	0	186	1,250	0	192	1,260	1	219	1,464
U.S. Northwest Coast to South America West Coast (0514)	9	55	11,167	0	28	84	0	30	114	0	32	146	0	32	183
South America West Coast to U.S. Northwest Coast (1405)	1	0	167	0	5	6	0	6	0	0	15	21	0	29	41
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	61	0	1	2	0	1	1	0	1	2	0	16	32
U.S. Northwest Coast to South Africa (0517)	0	0	85	0	146	202	0	153	211	0	171	235	0	160	219
South Africa to U.S. Northwest Coast (1705)	2	2	69	0	7	9	0	6	8	0	5	7	0	4	7
U.S. Northwest Coast to Arabian Gulf (0518)	10	1,765	3,812	1	311	428	2	328	471	2	326	487	3	471	678
Arabian Gulf to U.S. Northwest Coast (1805)	4	402	0	0	22	82	1	28	100	1	29	110	1	4	131
U.S. Northwest Coast to Other Med (0519)	11	884	2,866	2	1,087	1,353	3	1,437	1,789	3	1,510	1,891	2	1,373	1,739
Other Med to U.S. Northwest Coast (1905)	10	11	371	0	1	104	0	1	137	0	2	146	0	2	138
U.S. Northwest Coast to China (0521)	9	967	4,008	6	5,915	8,020	9	9,821	13,239	17	17,851	24,042	25	28,643	35,995
China to U.S. Northwest Coast (2105)	9	29	3,630	10	596	3,669	17	782	5,691	31	1,052	9,925	46	1,391	14,604
U.S. Northwest Coast to South East Asia (0522)	15	299	3,693	10	3,448	5,500	18	4,992	7,545	25	6,848	10,011	30	9,205	13,212
South East Asia to U.S. Northwest Coast (2205)	11	1,711	4,856	22	1,974	6,775	39	2,137	9,330	56	2,485	12,699	66	3,023	16,159
U.S. Northwest Coast to Indian Sub-Continent (0523)	5	686	1,466	11	3,877	4,900	12	4,618	5,851	13	5,808	7,403	10	6,715	8,637
Indian Sub-Continent to U.S. Northwest Coast (2305)	3	3	1,215	8	82	3,006	9	103	3,477	10	133	3,953	10	161	3,685
Total - U.S. Northwest Coast Routes	429	53,291	171,383	451	99,637	213,594	573	123,632	269,446	707	147,987	332,244	842	175,106	401,663

Total - US Routes 3,735 598,926 1,565,968 3,494 947,703 1,882,644 4,031 1,104,854 2,191,823 4,870 1,328,408 2,664,842 6,128 1,623,171 3,310,127

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype General Cargo - Greater than 10,000 DWT (AA)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0528)	0	46	70	0	68	89	0	82	107	0	101	132	0	114	149
Northern Europe to U.S. Northwest Coast (0805)	0	24	63	0	17	86	0	19	103	0	21	127	0	22	143
U.S. Northwest Coast to Southern Europe (0509)	0	4	19	0	3	8	0	5	9	0	7	10	0	10	12
Southern Europe to U.S. Northwest Coast (0905)	0	6	13	0	2	9	0	3	3	0	3	4	0	3	4
U.S. Northwest Coast to Japan (0510)	3	472	531	2	572	747	2	569	744	2	528	690	2	440	575
Japan to U.S. Northwest Coast (1005)	2	310	765	2	340	784	2	366	781	2	359	724	2	366	604
U.S. Northwest Coast to Australia/New Zealand (0511)	0	90	132	0	99	130	0	140	183	0	208	272	0	296	387
Australia/New Zealand to U.S. Northwest Coast (1105)	0	7	33	0	7	10	0	8	14	0	9	20	0	9	29
U.S. Northwest Coast to Far East NIC's (0512)	1	111	244	1	256	334	2	419	548	3	840	1,098	6	1,540	2,013
Far East NIC's to U.S. Northwest Coast (1205)	1	69	298	1	51	495	1	58	811	3	68	1,624	5	83	2,977
U.S. Northwest Coast to South America East Coast (0513)	1	43	198	0	32	42	0	46	60	0	89	116	1	154	201
South America East Coast to U.S. Northwest Coast (1305)	1	26	180	0	18	38	0	15	54	0	11	105	1	10	182
U.S. Northwest Coast to South America West Coast (0514)	2	19	400	0	20	27	0	31	41	0	47	61	0	63	82
South America West Coast to U.S. Northwest Coast (1405)	2	13	474	0	2	25	0	3	39	0	3	58	0	3	78
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	1	1	0	2	2
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	1	1	0	1	1	0	1	1	0	1	2
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	8	10	0	8	10	0	9	12	0	8	11
U.S. Northwest Coast to Arabian Gulf (0518)	0	1	26	0	1	1	0	1	1	0	1	1	0	1	1
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	76	0	0	0	0	0	1	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	71	71	5	1,390	1,804	9	2,301	3,008	15	4,174	5,456	23	6,168	8,082
China to U.S. Northwest Coast (2105)	0	6	114	10	15	2,570	16	20	4,285	29	27	7,772	43	36	11,465
U.S. Northwest Coast to South East Asia (0522)	0	46	78	1	143	187	1	276	361	2	410	536	2	475	620
South East Asia to U.S. Northwest Coast (2205)	0	11	202	1	6	352	2	7	491	3	8	1,010	4	10	1,170
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	13	17	0	23	30	0	36	47	0	64	1,010	0	100	1,131
Indian Sub-Continent to U.S. Northwest Coast (2305)	1	2	173	1	2	267	2	3	411	3	4	744	4	4	1,155
Total - U.S. Northwest Coast Routes	18	1,386	4,178	25	3,067	8,041	38	4,417	12,305	65	6,991	20,658	74	9,917	30,079

Total - US Routes	337	23,476	71,839	209	28,449	56,451	263	35,612	71,071	379	47,876	102,581	525	63,438	141,863
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3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
 For Shiptype General Cargo - (less than 10,000 DWT (AG)
 On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	2	12	160	1	54	121	1	86	169	2	152	340	3	228	534
Total - US Routes	184	3,657	15,320	75	3,169	6,058	89	3,734	7,111	129	5,029	10,024	185	6,790	14,132

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Container - Greater than 10,000 DWT (AC)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	2	235	365	418	546	3	502	656	585	765	660	863	3	660	863
Northern Europe to U.S. Northwest Coast (0805)	1	192	318	219	461	2	225	553	218	645	216	728	3	216	728
U.S. Northwest Coast to Southern Europe (0509)	1	154	211	175	228	1	226	295	330	426	426	557	2	426	557
Southern Europe to U.S. Northwest Coast (0905)	0	36	166	36	160	1	41	182	51	265	65	343	1	65	343
U.S. Northwest Coast to Japan (0510)	11	2,728	3,051	4,843	6,331	24	5,342	6,985	6,000	7,843	6,571	8,590	30	6,571	8,590
Japan to U.S. Northwest Coast (1005)	5	1,474	3,571	1,933	7,155	10	2,297	7,893	3,105	8,865	4,377	9,709	12	4,377	9,709
U.S. Northwest Coast to Australia/New Zealand (0511)	2	87	280	90	300	1	113	226	124	265	175	256	1	175	256
Australia/New Zealand to U.S. Northwest Coast (1105)	1	1,797	4,403	4,238	5,615	15	6,731	8,798	10,193	13,325	14,728	19,253	34	14,728	19,253
U.S. Northwest Coast to Far East NIC's (0512)	8	1,771	5,197	1,432	4,075	11	1,712	6,382	2,169	9,665	2,907	13,985	24	2,907	13,985
Far East NIC's to U.S. Northwest Coast (1205)	6	27	27	50	65	0	67	87	122	160	207	271	1	207	271
U.S. Northwest Coast to South America East Coast (0513)	0	40	201	13	568	2	12	764	10	1,374	9	1,374	5	9	1,374
South America East Coast to U.S. Northwest Coast (1305)	0	8	8	20	26	0	18	23	17	22	19	24	0	19	24
U.S. Northwest Coast to South America West Coast (0514)	0	14	108	20	442	1	22	384	25	374	26	405	1	26	405
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	15	78	69	90	1	99	130	213	279	398	520	2	398	520
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	34	0	0	49	0	104	0	195	1	0	195
U.S. Northwest Coast to Other Med (0519)	0	13	79	102	134	0	159	208	312	408	551	720	2	551	720
Other Med to U.S. Northwest Coast (1905)	0	3	11	0	16	0	0	25	0	48	0	85	0	0	85
U.S. Northwest Coast to China (0521)	4	2,019	2,019	21	112	0	28	148	52	200	81	261	0	81	261
China to U.S. Northwest Coast (2105)	0	0	0	9	12	0	12	16	16	21	21	27	0	21	27
U.S. Northwest Coast to South East Asia (0522)	2	492	710	1,226	1,603	5	1,811	2,367	3,074	4,019	4,782	6,251	14	4,782	6,251
South East Asia to U.S. Northwest Coast (2205)	1	360	557	495	1,255	4	637	1,853	901	3,147	1,258	4,895	11	1,258	4,895
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	1	1	0	1	1	1	1	1	1	0	1	1
Total - U.S. Northwest Coast Routes	47	9,526	19,964	15,574	29,256	83	20,170	38,171	27,660	52,387	37,612	70,457	148	37,612	70,457
Total - US Routes	270	59,769	113,874	94,266	161,096	459	118,600	206,262	166,153	300,329	234,546	403,474	907	234,546	403,474

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Container - Less than 10,000 DWT (AD)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	13	13	35	18	18	24	18	18	24	18	18	24	18	18	24
Australia/New Zealand to U.S. Northwest Coast (1105)	12	12	40	13	13	19	13	13	19	13	13	19	13	13	19
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	1	25	75	0	70	94	0	102	144	0	164	238	0	238	354

Total - US Routes	36	1,706	4,782	52	4,827	7,566	59	5,803	8,573	77	7,521	11,002	111	9,845	15,225
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COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype RoRo - Greater than 10,000 DWT (AE)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	27	32	0	31	43	0	41	56	0	61	85	0	81	112
Southern Europe to U.S. Northwest Coast (0505)	0	2	28	0	2	24	0	2	32	0	3	49	0	3	64
U.S. Northwest Coast to Japan (0510)	1	50	150	0	77	228	1	77	267	1	77	368	1	73	545
Japan to U.S. Northwest Coast (1005)	0	29	72	0	71	99	0	83	115	0	115	159	0	170	236
U.S. Northwest Coast to Australia/New Zealand (0511)	0	50	77	0	45	79	0	56	94	0	69	130	0	76	151
Australia/New Zealand to U.S. Northwest Coast (1105)	0	31	163	0	52	73	0	63	87	0	87	120	0	101	140
U.S. Northwest Coast to Far East NIC's (0512)	1	35	156	0	101	169	1	176	245	1	356	495	2	638	887
Far East NIC's to U.S. Northwest Coast (1205)	0	42	60	0	34	48	0	42	69	0	88	140	0	88	250
U.S. Northwest Coast to South America East Coast (0513)	0	4	82	0	25	34	0	35	48	0	63	87	0	102	142
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	3	15	0	17	24	0	28	39	0	42	59	0	58	81
South America West Coast to U.S. Northwest Coast (1405)	0	0	14	0	0	19	0	1	32	0	0	48	0	0	66
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	1	1	0	1	1	0	2	3	0	4	6
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	1	0	1	1	0	1	3	0	2	4
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	27	0	20	28	0	22	31	0	21	29
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	20	0	5	20	0	7	2,880	0	3,757	5,219	0	5,554	7,713
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	1	2	0	2	9	0	9	12	0	12	16
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	2	2	0	2	3	0	3	4	0	4	5
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	25	34	0	38	53	0	69	96	0	105	148
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	1	1	0	1	1	0	1	2	0	1	2
Total - U.S. Northwest Coast Routes	3	275	849	2	1,754	2,643	2	2,749	4,065	4	4,799	7,113	6	7,098	10,602

Total - US Routes

100 9,293 38,142 60 15,888 33,720 70 19,444 40,712 92 26,383 55,502 124 35,388 75,361

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship Type Ratio - Less than 10,000 DMT (AF)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0506)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0507)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0505)	1	14	31	1	17	44	1	18	52	2	17	74	0	0	119
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	1	30	83	1	184	277	1	217	331	1	288	454	2	350	590

Total - US Routes 127 2,502 11,441 68 3,507 6,849 76 4,139 7,616 90 5,433 8,950 108 6,936 10,690

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Reefer (BA)
On U.S. Northwest Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	1	41	52	1	28	51	1	30	55	1	23	42	0	17	31
Northern Europe to U.S. Northwest Coast (0805)	0	0	12	0	0	8	0	0	9	0	0	7	0	0	5
U.S. Northwest Coast to Southern Europe (0509)	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	12	12	1	217	402	1	249	440	2	333	617	2	406	752
Japan to U.S. Northwest Coast (10305)	0	0	58	14	0	4,680	16	0	5,353	22	0	7,160	27	0	8,741
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	1	2	0	1	2	0	1	3	0	1	2
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	3	0	10	18	0	12	23	0	18	34	1	0	48
Far East NIC's to U.S. Northwest Coast (1205)	0	3	3	1	3	95	1	3	120	2	3	190	3	26	254
U.S. Northwest Coast to South America East Coast (0513)	1	1	17	0	0	5	0	0	5	0	1	5	0	3	4
South America East Coast to U.S. Northwest Coast (1305)	0	3	12	0	1	1	0	0	1	0	1	1	0	1	1
U.S. Northwest Coast to South America West Coast (0514)	0	2	31	0	2	3	0	1	2	0	0	1	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	1	26	42	1	26	49	1	45	85	2	71	131	2	91	168
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	22	0	0	18	0	0	30	1	0	47	1	0	60
U.S. Northwest Coast to Other Med (0519)	1	0	51	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	17	0	0	1	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	1	29	0	1	2	0	2	3	0	2	4	0	4	7
South East Asia to U.S. Northwest Coast (2205)	0	8	37	0	12	23	0	10	19	0	11	21	0	11	21
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	1	40	0	1	1	0	1	1	0	1	1	0	1	1
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	6	104	565	19	302	5,360	22	355	6,168	30	446	8,274	37	560	10,096

Total - US Routes 108 4,151 16,305 172 7,726 30,897 179 8,281 32,346 205 9,431 38,043 228 10,349 42,874

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - Less than 20,000 DWT (DA)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	30	0	0	57	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	14	0	0	47	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	3	753	753	4	705	921	3	694	907	2	590	771	2	449	586
Japan to U.S. Northwest Coast (1005)	2	82	651	2	55	1,028	2	52	1,013	3	33	860	2	26	655
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	48	56	1	91	119	1	135	176	1	216	282	2	286	374
Far East NIC's to U.S. Northwest Coast (1205)	0	9	35	0	4	67	0	3	98	1	4	158	0	5	209
U.S. Northwest Coast to South America East Coast (0513)	1	0	135	0	0	103	0	0	87	1	0	56	1	0	40
South America East Coast to U.S. Northwest Coast (1305)	0	23	25	0	20	26	0	17	22	0	11	14	0	8	10
U.S. Northwest Coast to South America West Coast (0514)	0	0	77	0	0	4	0	0	5	0	0	3	0	0	2
South America West Coast to U.S. Northwest Coast (1405)	0	12	37	0	1	1	0	1	2	0	0	1	0	0	1
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	2	19	0	4	6	0	6	8	1	8	10	0	10	13
U.S. Northwest Coast to South East Asia (0522)	0	1	76	0	3	4	0	7	9	0	12	16	0	20	27
South East Asia to U.S. Northwest Coast (2205)	0	2	19	0	1	1	0	1	2	0	1	4	0	1	7
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	23	0	0	0	0	0	1	0	1	1	0	0	1
Indian Sub-Continent to U.S. Northwest Coast (2505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	9	931	2,006	8	932	2,390	8	955	2,416	8	902	2,233	7	821	1,954

Total - US Routes

82 5,982 15,249 84 8,342 16,982 90 8,915 18,008 99 9,603 19,071 117 10,934 21,991

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 20,000 to 40,000 DWT (08)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	1	189	260	0	138	176	0	148	189	0	112	143	0	90	115
Northern Europe to U.S. Northwest Coast (0805)	1	11	368	0	33	153	0	33	163	0	35	124	0	35	100
U.S. Northwest Coast to Southern Europe (0509)	2	349	489	0	221	283	1	303	388	1	473	604	1	650	830
Southern Europe to U.S. Northwest Coast (0905)	1	7	249	0	8	83	0	10	113	1	11	177	1	12	242
U.S. Northwest Coast to Japan (0510)	53	13,805	18,361	67	23,136	29,548	66	22,787	29,102	52	17,703	22,637	33	11,315	14,451
Japan to U.S. Northwest Coast (1005)	40	13,259	7,735	51	200	9,835	50	186	9,686	39	17,103	7,534	25	56	4,810
U.S. Northwest Coast to Australia/New Zealand (0511)	1	132	366	1	91	468	1	135	502	1	210	498	1	299	442
Australia/New Zealand to U.S. Northwest Coast (1105)	4	982	1,288	2	844	1,078	2	907	1,158	2	898	1,147	2	797	1,018
U.S. Northwest Coast to Far East NIC's (0512)	19	5,326	6,166	40	10,708	13,676	64	17,030	21,749	92	26,478	31,262	120	31,821	40,640
Far East NIC's to U.S. Northwest Coast (1205)	15	83	7,130	31	30	14,972	50	32	23,812	72	33	34,226	93	33	44,404
U.S. Northwest Coast to South America East Coast (0513)	8	17	2,520	5	7	1,881	4	10	1,600	2	16	980	1	23	611
South America East Coast to U.S. Northwest Coast (1305)	2	634	699	1	513	666	1	437	558	1	267	342	0	167	213
U.S. Northwest Coast to South America West Coast (0514)	1	2	287	0	2	3	0	1	3	0	2	2	0	1	2
South America West Coast to U.S. Northwest Coast (1405)	1	16	625	0	2	3	0	3	3	0	0	0	0	1	0
U.S. Northwest Coast to East Africa (0515)	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	13	0	0	0	0	0	0	0	0	1	0	0	
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	4	6	0	4	5	0	2	3	0	1	2
Arabian Gulf to U.S. Northwest Coast (1805)	53	53	53	11	11	14	0	10	13	0	3	4	0	1	1
U.S. Northwest Coast to Other Med (0519)	0	0	102	0	0	19	0	0	17	0	0	6	0	0	1
Other Med to U.S. Northwest Coast (1905)	2	361	588	0	185	236	1	246	315	1	229	293	0	155	198
U.S. Northwest Coast to China (0521)	7	448	43	0	0	24	0	0	32	0	0	30	0	0	0
China to U.S. Northwest Coast (2105)	6	6	2,709	0	8	26	0	13	30	0	15	32	0	13	33
U.S. Northwest Coast to South East Asia (0522)	6	6	2,632	0	18	23	0	22	28	0	23	29	0	24	30
South East Asia to U.S. Northwest Coast (2205)	7	41	1,705	0	20	54	0	30	56	0	53	68	0	81	104
U.S. Northwest Coast to Indian Sub-Continent (0523)	3	352	878	0	22	28	0	23	29	0	26	35	0	29	53
Indian Sub-Continent to U.S. Northwest Coast (2305)	2	1	397	7	1,295	1,654	8	1,443	1,843	9	1,496	1,910	7	1,146	1,463
Total - U.S. Northwest Coast Routes	180	23,099	55,895	213	37,498	76,027	254	43,814	92,656	277	46,213	103,395	289	46,752	110,877
Total - US Routes	646	67,212	206,137	558	111,051	203,615	628	122,762	232,001	673	128,477	253,047	752	137,203	287,952

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 40,000 to 80,000 DWT (DC)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	1	85	578	0	106	131	0	115	142	0	117	144	0	113	140
Northern Europe to U.S. Northwest Coast (0805)	3	65	1,026	0	55	129	0	54	139	0	40	141	0	27	137
U.S. Northwest Coast to Southern Europe (0509)	1	0	305	0	38	47	0	53	66	0	83	102	0	114	141
Southern Europe to U.S. Northwest Coast (0905)	1	28	480	0	28	36	0	35	50	0	41	79	0	43	110
U.S. Northwest Coast to Japan (0510)	16	4,539	10,216	11	5,923	7,312	11	6,227	7,687	10	5,403	6,670	7	4,204	5,190
Japan to U.S. Northwest Coast (1005)	10	0	403	7	34	313	7	31	330	6	17	286	5	9	223
U.S. Northwest Coast to Australia/New Zealand (0511)	2	261	672	1	356	516	1	498	615	2	680	840	2	819	1,011
Australia/New Zealand to U.S. Northwest Coast (1105)	3	825	1,531	2	899	1,109	3	974	1,322	3	999	1,806	4	920	2,174
U.S. Northwest Coast to Far East NIC's (U.S.12)	6	3,514	3,684	13	8,119	10,023	18	11,132	13,743	19	11,675	14,413	18	11,239	13,875
Far East NIC's to U.S. Northwest Coast (1205)	6	52	4,245	14	21	1,798	20	23	16,177	20	23	16,965	20	23	16,332
U.S. Northwest Coast to South America East Coast (0513)	3	84	1,595	2	202	1,642	1	199	1,331	1	67	700	0	23	326
South America East Coast to U.S. Northwest Coast (1305)	2	533	638	1	505	624	1	409	1,505	0	215	266	0	100	124
U.S. Northwest Coast to South America West Coast (0514)	1	53	833	0	1	1	0	1	1	0	0	1	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	1	0	901	0	0	1	0	0	1	0	0	1	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	61	0	1	3	0	1	3	0	1	2	0	1	1
U.S. Northwest Coast to South Africa (0517)	0	0	85	0	5	7	0	7	8	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	1	43	0	2	2	0	2	2	0	10	12	0	11	14
U.S. Northwest Coast to Arabian Gulf (0518)	7	1,684	2,620	0	171	211	0	176	218	1	189	233	1	310	383
Arabian Gulf to U.S. Northwest Coast (1805)	1	2	212	0	1	17	0	1	18	0	1	19	0	0	31
U.S. Northwest Coast to Other Med (0519)	1	510	510	2	643	793	2	857	1,058	2	798	985	2	540	667
Other Med to U.S. Northwest Coast (1905)	0	0	64	0	0	63	0	0	0	0	0	78	0	0	53
U.S. Northwest Coast to China (0521)	2	428	946	0	8	24	0	12	32	0	0	38	0	12	46
China to U.S. Northwest Coast (2105)	1	5	629	0	14	18	0	19	23	0	14	28	0	27	34
U.S. Northwest Coast to South East Asia (0522)	3	0	1,825	0	3	155	0	5	162	0	9	184	0	14	201
South East Asia to U.S. Northwest Coast (2205)	1	37	380	0	27	33	0	28	35	0	32	39	0	35	43
U.S. Northwest Coast to Indian Sub-Continent (0523)	1	319	548	3	1,404	1,734	4	1,564	1,931	4	1,619	1,999	3	1,257	1,527
Indian Sub-Continent to U.S. Northwest Coast (2305)	1	0	425	2	0	1,504	3	0	1,676	3	0	1,734	2	0	1,325
Total - U.S. Northwest Coast Routes	73	13,048	35,453	59	18,566	38,248	72	22,384	47,358	72	22,057	47,768	66	19,826	44,112

Total - US Routes 391 84,816 193,869 328 107,537 204,354 369 119,897 230,207 354 119,065 228,221 351 117,619 232,577

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 60,000 to 100,000 DWT (00)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	17	14	14	17	0	0	16	18	0	20	0	17	20
Northern Europe to U.S. Northwest Coast (0605)	0	0	10	9	10	10	0	0	8	10	0	7	0	4	4
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	6	5	6	7	0	0	6	7	0	8	0	7	9
U.S. Northwest Coast to Japan (0510)	0	0	394	329	394	460	0	0	393	460	0	473	0	392	458
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	74	64	74	103	0	0	88	103	0	135	0	136	199
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	155	132	155	168	0	0	144	168	0	173	0	138	161
U.S. Northwest Coast to Far East NIC's (0512)	0	0	1,206	1,100	1,206	1,678	0	0	1,435	1,678	0	1,519	0	994	1,162
Far East NIC's to U.S. Northwest Coast (1205)	0	0	3	3	3	4	0	0	3	4	0	4	0	3	4
U.S. Northwest Coast to South America East Coast (0513)	0	0	42	35	42	59	0	0	28	32	0	44	0	3	4
South America East Coast to U.S. Northwest Coast (1305)	0	0	86	73	86	99	0	0	59	69	0	13	0	13	15
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	1	1	1	1	0	0	1	1	0	2	0	2	2
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	35	30	35	36	0	0	31	36	0	39	0	55	64
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	126	108	126	168	0	0	144	168	0	156	0	90	106
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	1	1	1	2	0	0	2	2	0	2	0	2	2
China to U.S. Northwest Coast (2105)	0	0	2	2	2	3	0	0	3	3	0	4	0	4	5
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	7	6	7	7	0	0	6	7	0	8	0	8	10
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	243	207	243	270	0	0	231	270	0	280	0	183	213
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	6	3,792	5,948	16	20,555	29,809	18	22,677	32,912	17	22,361	32,556	17	21,827	32,219

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 100,000 to 175,000 DWT (DE)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	7	8	0	0	7	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	312	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	620	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	559	609	0	559	653	0	552	645	0	488	571
U.S. Northwest Coast to Far East NIC's (0512)	0	519	519	1	1,462	1,710	1	1,858	2,174	1	1,520	1,778	1	1,002	1,172
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	57	66	0	51	59	0	17	20	0	4	5
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	144	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	144	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	1	553	1,739	1	2,048	2,396	1	2,476	2,897	1	2,095	2,451	1	1,498	1,753

Total - US Routes 43 25,011 55,271 38 31,318 56,274 44 35,695 65,663 43 34,324 68,298 42 32,948 70,850

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - Greater than 175,000 DWT (DF)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	152	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	200	234	0	0	0	0	251	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	258	302	0	0	0	0	212	248	0	187	219
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	10	12	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	0	0	152	0	469	549	0	553	647	0	484	566	0	366	428
Total - US Routes	2	669	3,119	3	7,332	11,062	3	8,043	12,477	3	7,363	12,435	3	6,818	12,472

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 20,000 to 40,000 DWT (EB)
On U.S. Northwest Coast Routes

ROUTE	1987			1992			2000			2010			2020		
	SHIP	CARGO	CAPACITY	SHIP	CARGO	CAPACITY	SHIP	CARGO	CAPACITY	SHIP	CARGO	CAPACITY	SHIP	CARGO	CAPACITY
	YEARS	000 TONS	000 TONS	YEARS	000 TONS	000 TONS	YEARS	000 TONS	000 TONS	YEARS	000 TONS	000 TONS	YEARS	000 TONS	000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	1	32	456	0	61	192	0	57	181	0	43	141	0	30	102

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Combination Carriers - 40,000 to 80,000 DWT (EC)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	41	59	0	44	55	0	44	64	0	24	30	0	11	14
U.S. Northwest Coast to Japan (0510)	0	0	71	0	0	66	0	0	0	0	0	35	0	0	17
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	342	0	422	0	431	532	0	359	444	0	247	305
U.S. Northwest Coast to Far East NIC's (0512)	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	49	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	157	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	49	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	1	41	455	0	388	544	0	476	65	0	385	510	0	260	337

Total - US Routes 33 16,526 29,815 28 16,180 32,061 29 16,256 32,997 27 14,850 31,485 24 13,432 28,883

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Combination Carriers - 80,000 to 100,000 DWT (ED)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	16	84	0	1	2	0	0	1	0	0	1	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	8	9	0	0	8	0	0	5	0	2	2
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	209	244	0	293	343	0	236	276	0	128	150
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	84	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	167	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	1	16	334	0	218	255	0	302	354	0	241	281	0	131	153
Total - US Routes	7	5,089	8,448	11	8,560	15,898	11	9,199	16,824	11	9,121	16,753	11	8,688	16,358

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 100,000 to 175,000 DWT (EE)
On U.S. Northwest Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	25	16,463	36,876	20	23,204	40,753	22	25,757	46,253	24	27,170	52,149	26	28,748	57,805

Total - US Routes

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
 For Shiptype Combination Carriers - Greater than 175,000 DWT (EF)
 On U.S. Northwest Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East MIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East MIC's to U.S. Northwest Coast (1205)	0	0	0	66	0	0	77	0	92	0	0	107	0	47	55
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	0	203	585	1	4,624	5,410	1	5,261	6,155	2	6,593	7,713	2	6,593	7,713

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipoyce Tankers - Less than 10,000 DWT (FA)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	18	18	18	10	13	15	0	12	15	0	13	17	0	14	18
Japan to U.S. Northwest Coast (1005)	0	0	42	0	31	37	0	0	0	0	0	41	0	0	43
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	19	42	42	35	46	84	0	64	84	1	119	155	2	196	256
Far East NIC's to U.S. Northwest Coast (1205)	0	0	7	0	8	15	0	0	0	0	0	28	0	0	47
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	6	9	12	16	18	0	14	18	0	18	24	0	3	4
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	7	26	5	7	6	0	4	6	0	4	5	0	4	6
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	2	49	177	1	65	131	2	98	186	2	157	280	4	240	404

Total - US Routes 54 4,432 6,566 95 5,659 9,172 115 6,360 11,192 163 7,674 16,272 233 9,406 23,421

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Tankers - 10,000 to 40,000 DWT (FB)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	48	48	1	32	112	1	14	145	2	19	257	3	27	401
Northern Europe to U.S. Northwest Coast (0805)	0	14	18	0	42	42	0	42	55	1	74	97	1	116	152
U.S. Northwest Coast to Southern Europe (0509)	0	30	40	0	3	4	0	3	3	0	1	1	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	30	30	0	0	3	0	0	2	0	0	1	0	0	0
U.S. Northwest Coast to Japan (0510)	1	519	519	1	251	328	1	295	386	1	298	399	1	284	372
Japan to U.S. Northwest Coast (1005)	2	54	643	1	67	399	1	75	458	1	68	442	1	67	441
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	139	182	0	117	153	0	61	80	0	32	42
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	1	288	338	1	149	194	1	183	239	1	199	260	1	281	367
Far East NIC's to U.S. Northwest Coast (1205)	1	13	386	1	52	228	1	36	280	1	15	207	1	12	430
South America East Coast to U.S. Northwest Coast (0513)	2	110	877	1	24	202	1	32	232	1	15	207	1	5	363
U.S. Northwest Coast to South America West Coast (1305)	1	0	545	0	94	123	0	108	141	1	138	181	1	169	221
U.S. Northwest Coast to South America West Coast (0514)	0	0	162	0	12	15	0	15	19	0	6	8	0	2	3
South America West Coast to U.S. Northwest Coast (1405)	0	0	21	0	0	3	0	0	3	0	0	1	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	114	0	0	33	0	0	42	0	0	43	0	0	43
Arabian Gulf to U.S. Northwest Coast (1805)	0	40	40	0	9	12	0	11	15	0	12	15	0	12	15
U.S. Northwest Coast to Other Med (0519)	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	2	2	0	2	2	0	1	1	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	11	15	0	9	11	0	4	5	0	1	2
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	57	75	0	38	49	0	22	29	0	12	16
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	115	151	0	102	133	0	96	125	0	101	132
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	11	1,159	3,898	6	1,050	2,113	7	1,081	2,369	8	1,036	2,557	11	1,122	3,002

Total - US Routes 295 57,310 113,686 449 88,983 168,596 491 99,642 184,180 548 115,683 214,393 684 147,117 270,379

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 40,000 to 80,000 DWT (FC)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	7	0	2	3	0	0	4	0	0	6
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	6	0	7	13	0	0	17	0	20	26
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	7	0	6	3	0	0	3	0	1	1
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	116	116	116	100	118	128	0	118	151	0	120	153	0	115	147
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	118	0	13	139	0	12	141	0	12	136
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	61	0	40	51	0	21	27	0	11	14
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	32	0	30	39	0	31	40	0	43	55
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	12	0	6	8	0	4	5	0	2	3
South America East Coast to U.S. Northwest Coast (1305)	20	70	70	41	114	130	0	72	130	0	26	167	0	8	204
U.S. Northwest Coast to South America West Coast (0514)	66	112	112	151	193	221	0	173	221	0	222	284	1	271	347
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	25	0	25	32	0	11	14	0	3	4
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	7	0	7	9	0	7	9	0	7	9
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	3	0	2	2	0	1	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	13	0	7	8	0	4	5	0	2	3
South East Asia to U.S. Northwest Coast (2205)	29	115	115	47	60	60	0	43	55	0	42	54	0	46	59
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	72	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	1	249	737	1	490	789	1	536	867	1	520	924	1	549	1,014

Total - US Routes 86 29,704 65,984 103 46,737 78,561 121 52,707 90,542 134 61,848 104,145 166 75,131 129,619

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Tankers - 80,000 to 100,000 DWT (FD)
On U.S. Northwest Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	97	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	1	958	1,123	0	408	497	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1105)	0	0	82	0	0	0	0	482	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	205	241	0	219	44	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	174	261	0	269	460	0	184	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	154	529	0	26	31	0	281	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	83	0	0	4	0	24	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	138	0	0	6	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	264	0	3	29	0	9	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	4	0	27	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (0515)	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (1505)	0	0	97	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (0518)	0	0	255	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (1805)	0	0	480	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (0519)	1	346	286	0	1	1	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (1905)	0	0	83	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (0521)	0	0	195	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (0522)	1	0	864	0	3	3	0	2	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (2205)	1	962	1,598	1	800	622	1	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (0523)	0	0	0	0	0	987	0	826	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	7	2,797	6,672	2	1,734	2,999	3	1,842	3,266	3	1,720	3,108	2	1,679	3,043
Total - US Routes	95	43,275	112,339	63	44,251	78,020	65	48,056	83,244	66	52,550	89,900	70	58,172	98,715

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 100,000 to 175,000 DWT (FE)
On U.S. Northwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Japan (0510)	0	0	0	0	69	81	0	0	0	0	0	0	0	0	0	0	0	0		
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	38	44	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	171	200	5	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0		
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South America West Coast (0514)	1	0	3,916	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Northwest Coast (1405)	1	0	2,192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	140	164	0	0	0	0	0	0	0	0	0	0	0	0		
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Northwest Coast Routes	3	89	6,592	0	424	496	0	458	536	0	394	460	0	345	403	0	302	403		

Total - US Routes 86 48,330 153,437 80 85,252 145,146 99 106,191 179,040 133 143,821 238,940 169 183,327 302,855

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 175,000 to 250,000 DWT (FF)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0502)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	22	0	26	0	0	30	0	0	21	0	0	12
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	6	0	9,458	2	22	26	0	25	30	0	18	21	0	11	12

Total - US Routes 16 1,226 29,728 2 15,550 19,546 3 19,474 24,534 3 26,569 33,550 4 34,008 43,005

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - Greater than 250,000 DWT (FG)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast (1005)	0	0	267	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	269	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	1	0	5,598	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	1	0	4,532	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	2	0	10,666	0	0	0	0	0	0	0	0	0	0	0	0

Total - US Routes 26 29,156 73,643 53 67,935 128,898 67 84,775 160,555 94 115,564 217,955 122 147,902 278,099

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Gas Tankers (GA)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	2	951	1,460	4	1,330	2,956	5	1,684	3,742	6	1,910	4,244	7	2,124	4,721
Japan to U.S. Northwest Coast (1005)	1	0	1,019	2	0	1,748	3	0	2,213	3	0	2,510	4	0	2,792
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	1	0	222	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	163	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	84	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	61	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	5	952	3,186	7	1,330	4,704	8	1,684	5,955	9	1,910	6,753	10	2,124	7,513
Total - US Routes	70	3,540	21,365	49	5,185	22,894	56	6,747	29,175	64	9,384	39,007	86	12,788	52,852

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Vehicle Carriers (18)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0605)	3	15	511	0	9	97	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	1	0	257	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	10	0	2,313	12	0	6,063	11	0	0	9	0	4,595	6	0	3,207
Japan to U.S. Northwest Coast (1005)	9	442	2,438	10	473	5,257	10	0	5,778	8	359	3,984	5	250	2,781
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	1	0	131	3	0	1,600	4	0	2,112	0	0	3,443	0	0	4,959
Far East NIC's to U.S. Northwest Coast (1205)	1	74	215	4	196	2,176	5	0	2,871	9	421	4,681	12	607	6,743
U.S. Northwest Coast to South America East Coast (0513)	2	0	111	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	1	0	129	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	1	0	110	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	4	0	772	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	32	0	16	183	0	0	234	1	41	457	1	69	768
China to U.S. Northwest Coast (2105)	0	0	44	1	0	322	1	0	412	1	0	803	2	0	1,351
U.S. Northwest Coast to South East Asia (0522)	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	69	0	0	3	0	0	4	0	0	8	0	0	14
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	46	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	36	531	7,604	30	694	15,712	31	739	16,526	34	827	18,043	37	930	19,872
Total - US Routes	266	3,730	51,989	216	3,877	91,054	224	3,975	95,338	227	3,899	99,251	230	3,848	105,936

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - Less than 10,000 DWT (PA)
On U.S. Northwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS		CAPACITY 000 TONS		SHIP YEARS		CAPACITY 000 TONS		SHIP YEARS		CAPACITY 000 TONS		SHIP YEARS		CAPACITY 000 TONS		SHIP YEARS		CAPACITY 000 TONS	
	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS	SHIP YEARS	CARGO 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	19	737	2,017	28	1,002	3,004	33	1,209	3,630	38	1,534	4,325	44	2,094	5,157					

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 10,000 to 40,000 DWT (PB)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	4	67	994	0	101	149	0	85	131	0	59	100	0	48	90
Total - US Routes	40	4,148	10,671	22	4,008	7,054	23	4,347	7,740	25	5,022	8,575	30	6,171	10,414

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 40,000 to 80,000 DWT (PC)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	131	1	1	282	1	1	363	1	1	638	2	1	995
Northern Europe to U.S. Northwest Coast (0805)	0	23	46	0	52	67	0	67	86	0	118	151	1	184	235
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	2	2	0	2	2	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	15	46	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	75	127	0	34	43	0	39	50	0	39	49	0	36	47
Japan to U.S. Northwest Coast (1005)	0	15	148	0	19	42	0	22	48	0	23	48	0	27	45
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	12	15	0	10	13	0	5	7	0	3	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
J.S. Northwest Coast to Far East NIC's (0512)	0	90	126	0	45	72	0	59	84	0	74	95	0	111	141
Far East NIC's to U.S. Northwest Coast (1205)	0	35	89	0	37	47	0	43	55	0	42	62	0	38	92
U.S. Northwest Coast to South America East Coast (0513)	0	5	192	0	10	89	0	14	102	0	6	131	0	2	160
South America East Coast to U.S. Northwest Coast (1505)	0	30	247	0	61	78	0	70	90	0	90	115	0	110	141
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	5	6	0	6	8	0	3	3	0	1	1
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	12	91	0	1	2	0	2	2	0	2	2	0	2	2
U.S. Northwest Coast to Other Med (0519)	0	0	46	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	117	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	119	0	3	15	0	2	13	0	1	13	0	1	14
South East Asia to U.S. Northwest Coast (2205)	0	7	133	0	12	15	0	11	14	0	11	13	0	12	15
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	125	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	3	306	1,829	1	294	776	2	347	929	2	415	1,329	3	527	1,892

Total - US Routes

76 26,612 57,511 96 35,219 74,004 104 38,712 80,731 113 42,351 90,463 133 49,436 107,039

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 80,000 to 100,000 DWT (FD)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	9	11	0	12	0	0	15	0	0	32	40
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	98	98	0	55	68	0	65	0	0	81	0	0	65	80
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	4	0	0	4	0	0	5	56
U.S. Northwest Coast to Australia/New Zealand (0511)	0	51	84	0	3	48	0	4	0	0	57	0	0	13	16
Australia/New Zealand to U.S. Northwest Coast (1105)	0	35	84	0	0	44	0	46	0	0	37	0	0	0	10
U.S. Northwest Coast to Far East NIC's (0512)	0	25	182	0	14	17	0	16	0	0	20	0	0	20	25
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	6	8	0	8	0	0	9	0	0	0	8
U.S. Northwest Coast to South America East Coast (0513)	0	0	92	0	2	2	0	2	0	0	3	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	11	13	0	12	0	0	15	0	0	19	24
U.S. Northwest Coast to South America West Coast (0514)	0	0	184	0	1	1	0	1	0	0	1	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	93	0	0	1	0	0	0	0	1	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	98	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	187	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	280	0	0	164	0	0	0	0	169	0	0	0	201
South East Asia to U.S. Northwest Coast (2205)	0	240	280	0	200	247	0	207	0	0	255	0	0	246	303
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	187	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	93	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	2	449	2,116	1	357	693	1	374	1	721	376	717	1	407	764

Total - US Routes 20 11,023 26,428 31 17,832 40,945 33 19,356 43,702 38 22,862 50,894 46 27,968 60,826

3/16/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 100,000 to 175,000 DWT (FE)
On U.S. Northwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Northern Europe to U.S. Northwest Coast (0605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Japan (0510)	0	0	0	0	9	10	0	0	0	0	0	0	0	0	0	0	0	0		
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	10	11	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0		
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	35	41	0	0	0	36	42	0	0	39	45	0	43	50		
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Northwest Coast Routes	2	1,628	3,457	4	7,765	12,240	4	9,967	14,746	5	14,280	19,796	5	19,276	25,724	65	65	65		

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 175,000 to 250,000 DWT (PF)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
	U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Northwest Coast (1005)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Northwest Coast (1305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Northwest Coast (2105)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South East Asia (0522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Northwest Coast (2205)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	0	0	0	0	1,005	1,175	0	1,365	1,596	0	2,036	2,381	0	2,797	3,271

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship Type Other Ships (XX)
On U.S. Northwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Northwest Coast to Northern Europe (0508)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Northwest Coast (0805)	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Southern Europe (0509)	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Northwest Coast (0905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Japan (0510)	6	509	3,435	2	753	990	2	757	955	2	755	952	1	715	863
Japan to U.S. Northwest Coast (1005)	6	152	3,758	1	173	990	1	290	955	1	270	952	1	294	863
U.S. Northwest Coast to Australia/New Zealand (0511)	0	0	82	0	0	19	0	1	22	0	1	27	0	30	33
Australia/New Zealand to U.S. Northwest Coast (1105)	0	0	93	0	0	21	0	19	24	0	25	30	0	27	36
U.S. Northwest Coast to Far East NIC's (0512)	0	0	0	0	0	20	0	27	34	0	33	40	0	29	36
Far East NIC's to U.S. Northwest Coast (1205)	0	0	0	0	0	102	0	152	188	0	275	340	0	474	565
U.S. Northwest Coast to South America East Coast (0513)	0	0	0	0	0	20	0	28	34	0	50	62	0	81	100
South America East Coast to U.S. Northwest Coast (1305)	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South America West Coast (0514)	0	0	42	0	0	17	0	23	28	0	34	42	0	46	57
South America West Coast to U.S. Northwest Coast (1405)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to East Africa (0515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Northwest Coast (1505)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to West Africa (0516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Northwest Coast (1605)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to South Africa (0517)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Northwest Coast (1705)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Arabian Gulf (0518)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Northwest Coast (1805)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to Other Med (0519)	0	0	56	0	0	0	0	1	1	0	1	1	0	1	1
Other Med to U.S. Northwest Coast (1905)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Northwest Coast to China (0521)	0	0	0	0	166	205	0	277	341	0	501	619	0	741	915
China to U.S. Northwest Coast (2105)	0	0	0	0	5	7	0	7	8	0	10	13	0	16	20
U.S. Northwest Coast to South East Asia (0522)	0	0	2	2	105	129	11	199	246	17	294	363	19	399	418
South East Asia to U.S. Northwest Coast (2205)	0	16	16	16	29	872	30	37	1,664	44	52	2,453	50	75	2,827
U.S. Northwest Coast to Indian Sub-Continent (0523)	0	0	0	0	3	4	0	5	6	0	9	11	0	14	18
Indian Sub-Continent to U.S. Northwest Coast (2305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Northwest Coast Routes	14	695	7,565	25	1,436	3,344	44	1,796	4,507	64	2,347	5,912	73	2,895	6,858
Total - US Routes	121	4,312	39,929	104	8,033	24,083	134	9,808	28,048	179	12,739	35,395	220	16,255	43,535

Southwest Coast

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For All Shippers
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	23	2,941	7,930	14	4,456	6,054	9	2,861	3,997	11	3,436	4,611	13	4,178	5,500
Northern Europe to U.S. Southwest Coast (0804)	25	1,844	7,867	13	2,221	6,477	12	2,330	5,884	11	2,385	5,524	10	2,595	5,413
U.S. Southwest Coast to Southern Europe (0409)	9	955	2,953	3	403	1,642	3	400	1,642	4	2,977	2,253	5	2,861	2,972
Southern Europe to U.S. Southwest Coast (0904)	9	564	2,947	2	1,159	1,481	3	1,392	1,762	4	1,982	2,514	4	2,606	3,303
U.S. Southwest Coast to Japan (0410)	77	8,042	18,617	82	11,449	28,359	87	12,610	29,290	88	13,372	27,847	89	14,292	26,150
Japan to U.S. Southwest Coast (1004)	68	4,536	32,642	62	7,252	38,982	64	7,897	41,787	63	8,687	43,861	62	10,627	46,668
U.S. Southwest Coast to Australia/New Zealand (0411)	7	1,281	3,273	6	2,811	4,048	9	1,978	4,678	12	2,255	6,226	15	2,775	8,174
Australia/New Zealand to U.S. Southwest Coast (1104)	7	1,970	2,725	6	2,811	3,500	7	3,226	4,150	9	4,165	5,404	12	5,626	7,338
U.S. Southwest Coast to Far East MIC's (0412)	48	6,857	16,558	49	16,683	23,808	58	24,077	33,965	100	40,305	57,358	165	65,535	95,008
Far East MIC's to U.S. Southwest Coast (1204)	56	5,880	17,252	45	5,629	21,047	73	6,754	31,454	135	8,758	57,108	232	11,921	96,991
U.S. Southwest Coast to South America East Coast (0413)	85	3,791	18,902	45	4,106	13,309	45	5,213	13,658	32	3,075	9,556	28	1,958	8,382
South America East Coast to U.S. Southwest Coast (1304)	24	3,567	7,303	11	3,203	4,996	12	2,990	5,399	10	2,618	4,832	10	2,491	5,259
U.S. Southwest Coast to South America West Coast (0414)	43	2,220	24,635	15	3,136	3,802	17	2,164	4,408	22	1,588	5,864	26	154	7,132
South America West Coast to U.S. Southwest Coast (1404)	38	699	28,354	15	2,287	3,566	16	2,660	4,092	21	3,549	5,304	24	4,370	6,535
U.S. Southwest Coast to East Africa (0415)	1	2	134	1	4	67	0	6	49	0	14	32	0	26	34
East Africa to U.S. Southwest Coast (1504)	1	10	30	0	5	52	0	3	34	0	1	12	0	0	0
U.S. Southwest Coast to West Africa (0416)	47	47	138	0	8	52	0	0	83	0	28	122	0	47	169
West Africa to U.S. Southwest Coast (1604)	1	18	217	0	54	76	0	86	122	171	109	171	1	138	276
U.S. Southwest Coast to South Africa (0417)	2	38	422	0	95	147	0	159	217	0	214	276	0	187	276
South Africa to U.S. Southwest Coast (1704)	1	100	359	0	25	32	0	31	40	0	36	46	0	43	55
U.S. Southwest Coast to Arabian Gulf (0418)	8	178	1,706	2	116	420	2	144	528	3	182	593	3	197	618
Arabian Gulf to U.S. Southwest Coast (1804)	9	334	4,474	2	451	687	2	567	859	3	581	910	3	580	932
U.S. Southwest Coast to Other Med (0419)	17	223	4,474	0	80	617	0	85	537	1	113	234	1	134	265
Other Med to U.S. Southwest Coast (1904)	4	110	857	0	91	122	0	118	156	1	179	240	1	240	365
U.S. Southwest Coast to China (0421)	6	49	2,025	0	97	4,029	8	118	156	12	4,957	8,313	18	7,771	12,739
China to U.S. Southwest Coast (2104)	6	280	6,019	3	3,542	4,242	4	3,999	5,153	4	4,454	6,252	5	5,616	7,890
U.S. Southwest Coast to South East Asia (0422)	16	1,607	6,019	18	3,542	10,289	19	4,851	12,243	24	8,142	17,240	31	13,067	24,855
South East Asia to U.S. Southwest Coast (2204)	25	7,631	12,547	21	9,870	15,228	25	10,311	18,224	33	11,664	20,951	46	13,756	37,904
U.S. Southwest Coast to Indian Sub-Continent (0423)	7	392	1,566	5	2,065	2,800	8	3,289	4,433	13	5,403	7,353	18	7,431	10,235
Indian Sub-Continent to U.S. Southwest Coast (2304)	3	34	876	6	422	2,159	10	509	3,468	16	609	5,806	23	704	8,098
Total - U.S. Southwest Coast Routes	630	54,881	230,611	431	85,211	201,737	495	101,243	237,712	630	131,728	312,482	844	179,369	430,417

Total - US Routes 3,735 598,926 1,565,968 3,494 947,703 1,882,644 4,031 1,104,854 2,191,823 4,870 1,328,408 2,664,842 6,128 1,623,171 3,310,127

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipoyne General Cargo - Greater than 10,000 DMT (AA)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	1	74	134	0	89	126	0	97	133	0	121	158	1	165	216
Northern Europe to U.S. Southwest Coast (0804)	1	86	101	0	82	107	0	87	114	0	87	135	0	87	184
U.S. Southwest Coast to Southern Europe (0409)	0	13	48	0	14	38	0	15	44	0	16	63	0	16	83
Southern Europe to U.S. Southwest Coast (0506)	0	18	81	0	34	45	0	40	52	0	56	73	0	74	97
U.S. Southwest Coast to Japan (0410)	5	777	1,090	3	876	1,146	4	979	1,280	4	1,057	1,381	4	1,071	1,400
Japan to U.S. Southwest Coast (1004)	7	476	2,233	5	565	1,743	6	614	1,948	6	615	2,101	6	650	2,129
U.S. Southwest Coast to Australia/New Zealand (0411)	1	93	354	0	189	247	1	284	371	1	441	577	2	654	855
Australia/New Zealand to U.S. Southwest Coast (1104)	1	41	188	0	45	74	0	53	111	1	74	173	1	88	257
U.S. Southwest Coast to Far East NIC's (0412)	4	201	916	3	555	850	4	898	1,174	8	1,839	2,404	14	3,395	4,436
Far East NIC's to U.S. Southwest Coast (1204)	6	1,456	1,871	4	1,050	1,346	5	1,128	1,859	11	1,198	3,807	20	1,268	7,025
U.S. Southwest Coast to South America East Coast (0413)	12	44	1,866	2	12	479	2	15	216	2	23	406	2	33	374
South America East Coast to U.S. Southwest Coast (1304)	6	250	898	1	174	228	1	166	216	1	148	193	1	136	178
U.S. Southwest Coast to South America West Coast (0414)	8	20	1,966	1	16	355	1	19	345	1	25	434	2	26	490
South America West Coast to U.S. Southwest Coast (1404)	6	111	1,970	1	215	281	1	221	289	1	264	345	1	296	387
U.S. Southwest Coast to East Africa (0415)	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	5	15	0	6	8	0	10	14	0	23	30	0	39	51
West Africa to U.S. Southwest Coast (1604)	0	3	19	0	2	10	0	3	16	0	3	36	0	4	61
U.S. Southwest Coast to South Africa (0417)	1	0	116	0	0	10	0	0	9	0	0	4	0	0	10
South Africa to U.S. Southwest Coast (1704)	0	12	53	0	3	4	0	3	4	0	3	4	0	0	4
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	1	5	287	0	7	9	0	7	9	0	5	6	0	0	5
U.S. Southwest Coast to Other Med (0419)	0	0	54	0	0	29	0	0	36	0	0	33	0	0	84
Other Med to U.S. Southwest Coast (1904)	0	6	21	0	11	14	0	14	18	0	20	26	0	32	42
U.S. Southwest Coast to China (0421)	1	29	155	1	125	208	1	205	272	2	374	489	3	596	779
China to U.S. Southwest Coast (2104)	0	30	82	0	63	83	1	83	109	1	114	195	1	152	311
U.S. Southwest Coast to South East Asia (0422)	1	91	233	1	208	272	2	373	488	3	572	747	3	700	915
South East Asia to U.S. Southwest Coast (2204)	2	79	465	1	73	490	3	86	880	4	99	1,347	5	110	1,649
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	54	59	1	124	162	1	204	267	2	348	455	3	481	628
Indian Sub-Continent to U.S. Southwest Coast (2304)	1	8	319	3	15	738	4	18	1,218	7	22	2,076	10	27	2,868
Total - U.S. Southwest Coast Routes	67	3,982	15,609	29	4,535	9,102	37	5,623	11,753	56	7,545	17,729	80	10,105	25,518
Total - US Routes	337	23,476	71,839	209	28,449	56,451	263	35,612	71,071	379	47,876	102,581	525	63,438	141,863

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype General Cargo - Less than 10,000 DWT (AB)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	3	0	21	0	0	11	0	0	0	0	0	0	0	15	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	9	0	0	2	0	0	0	0	0	0	0	3	0
Southern Europe to U.S. Southwest Coast (0904)	4	0	25	0	0	8	0	0	0	0	0	0	0	13	0
U.S. Southwest Coast to Japan (0410)	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	10	10	50	0	0	24	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	11	0	33	0	5	19	0	28	57	6	64	0	105	0	
U.S. Southwest Coast to South America East Coast (0413)	2	0	90	0	0	43	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	13	0	31	0	7	10	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	3	0	235	0	0	38	0	7	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	12	0	274	0	16	24	0	17	20	0	47	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	1	0	12	0	0	6	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	2	0	8	0	4	11	0	7	12	0	18	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	44	0	3	0	0	3	4	0	34	0	20	6	29
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	18	0	4	6	0	7	12	0	18	0	0	0	0
Total - U.S. Southwest Coast Routes	11	59	908	2	68	204	2	90	3,734	129	258	4	142	6,790	588
Total - US Routes	184	3,657	15,320	75	3,169	6,058	89	3,734	10,024	185	7,111	185	5,029	6,790	14,132

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Container - Greater than 10,000 DWT (AC)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	3	578	798	4	846	1,201	4	913	1,244	4	977	1,277	4	1,011	1,322
Northern Europe to U.S. Southwest Coast (0804)	4	1,169	1,481	6	1,368	1,788	6	1,417	1,852	6	1,392	1,901	6	1,450	1,968
U.S. Southwest Coast to Southern Europe (0409)	1	154	284	1	199	540	2	172	626	2	179	879	3	174	1,214
Southern Europe to U.S. Southwest Coast (0904)	2	3,085	6,292	2	503	667	2	583	761	3	818	1,049	5	1,130	1,477
U.S. Southwest Coast to Japan (0410)	10	2,329	7,695	9	3,313	6,882	11	5,546	7,250	14	7,236	9,484	17	9,080	11,790
Japan to U.S. Southwest Coast (1004)	11	2,329	7,695	9	3,313	6,882	11	5,546	7,250	14	7,236	9,484	17	9,080	11,790
U.S. Southwest Coast to Australia/New Zealand (0411)	3	250	610	3	424	776	3	537	813	4	649	968	5	774	1,210
Australia/New Zealand to U.S. Southwest Coast (1104)	2	360	536	3	487	637	3	511	667	3	608	795	4	760	994
U.S. Southwest Coast to Far East NIC's (0412)	8	3,249	4,154	19	8,228	10,756	30	12,677	16,571	56	23,803	31,116	63	41,725	56,669
Far East NIC's to U.S. Southwest Coast (1204)	10	4,353	5,352	16	3,774	8,594	24	4,518	13,239	45	5,727	24,860	51	7,623	27,889
U.S. Southwest Coast to South America East Coast (0413)	3	75	2,184	2	342	1,070	2	442	1,359	2	701	1,150	2	1,004	1,513
South America East Coast to U.S. Southwest Coast (1304)	3	454	1,120	2	602	1,787	2	583	1,762	2	647	1,846	2	1,722	2,566
U.S. Southwest Coast to South America West Coast (0414)	0	16	35	0	20	26	0	25	32	0	33	43	0	42	55
South America West Coast to U.S. Southwest Coast (1404)	0	17	108	0	8	79	0	9	96	0	10	130	0	10	166
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	1	1	0	2	2	0	4	5	0	7	9
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	20	78	0	34	45	0	0	72	0	85	112	0	107	140
Arabian Gulf to U.S. Southwest Coast (1804)	1	0	76	0	1	43	0	2	70	1	2	108	1	2	136
U.S. Southwest Coast to Other Med (0419)	1	32	337	0	61	131	0	70	174	1	104	270	1	132	427
Other Med to U.S. Southwest Coast (1904)	1	99	227	0	68	89	0	90	118	1	140	183	1	221	289
U.S. Southwest Coast to China (0421)	1	0	390	0	67	88	0	43	130	0	186	243	1	307	401
China to U.S. Southwest Coast (2104)	2	0	903	0	32	204	0	99	300	0	186	562	2	84	929
U.S. Southwest Coast to South East Asia (0422)	2	654	834	4	1,820	2,379	4	2,744	3,587	11	5,036	6,583	19	8,599	11,241
South East Asia to U.S. Southwest Coast (2204)	4	1,000	2,132	5	1,967	2,552	5	2,315	2,552	9	2,924	4,593	15	3,818	7,655
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	16	16	0	61	80	0	85	111	1	136	178	1	212	277
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	16	0	21	28	1	28	108	1	30	174	1	34	270
Total - U.S. Southwest Coast Routes	71	18,392	36,167	87	28,764	45,387	114	37,334	60,497	183	56,729	98,416	224	86,187	122,343
Total - US Routes	270	59,769	113,874	361	94,266	161,096	459	118,600	206,262	668	166,153	300,329	907	234,546	403,474

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Container - Less than 10,000 DWT (AD)
On U.S. Southwest Coast Routes

ROUTE	1987				1995				2000				2010				2020					
	SHIP	CARGO	CAPACITY																			
	YEARS	000 TONS	000 TONS																			
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	25	51	31	0	55	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	2	76	210	1	169	226	1	212	301	1	296	443	2	410	631							
Total - US Routes	36	1,706	4,782	52	4,827	7,566	59	5,803	8,573	77	7,521	11,002	111	9,845	15,235							

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype RORO - Greater than 10,000 DMT (AE)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	18	47	0	22	31	0	0	0	0	26	48	0	27	63
Southern Europe to U.S. Southwest Coast (0904)	0	9	35	0	19	26	0	0	0	0	29	41	0	38	53
U.S. Southwest Coast to Japan (0410)	0	71	71	0	226	314	0	0	0	0	264	367	0	275	382
Japan to U.S. Southwest Coast (1004)	2	105	1,019	2	127	1,242	2	0	0	3	180	1,450	3	244	1,512
U.S. Southwest Coast to Australia/New Zealand (0411)	0	17	136	0	21	232	0	0	0	0	22	387	1	30	468
Australia/New Zealand to U.S. Southwest Coast (1104)	0	130	171	0	180	250	0	0	0	0	301	418	1	364	505
U.S. Southwest Coast to Far East NIC's (0412)	0	54	75	0	179	249	1	1	1	1	608	844	3	1,136	1,578
Far East NIC's to U.S. Southwest Coast (1204)	2	411	680	1	565	927	2	2	2	5	1,292	3,143	9	2,098	5,875
U.S. Southwest Coast to South America East Coast (0413)	2	26	769	0	9	49	0	0	0	0	18	57	0	0	60
South America East Coast to U.S. Southwest Coast (1304)	0	0	19	0	2	3	0	0	0	0	2	3	0	0	3
U.S. Southwest Coast to South America West Coast (0414)	0	18	25	0	17	26	0	0	0	0	26	36	0	0	39
South America West Coast to U.S. Southwest Coast (1404)	0	0	14	0	7	26	0	0	0	6	7	42	0	28	45
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	129	129	179	0	0	0	0	372	517	0	590	819
China to U.S. Southwest Coast (2104)	0	0	0	21	21	29	0	0	0	0	37	51	0	49	68
U.S. Southwest Coast to South East Asia (0422)	0	0	0	2	2	2	0	0	0	4	4	6	0	5	7
South East Asia to U.S. Southwest Coast (2204)	1	6	484	0	7	10	0	0	0	11	15	15	0	13	18
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	134	134	187	0	0	0	370	514	514	0	497	691
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	4	4	6	0	0	0	6	8	8	0	7	10
Total - U.S. Southwest Coast Routes	9	865	3,589	5	1,691	3,788	7	2,255	4,949	11	3,573	7,947	17	5,426	12,197

Total - US Routes

100 9,293 38,142 60 15,888 33,720 70 19,444 40,712 92 26,383 55,502 124 35,388 75,361

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype RoRo - Less than 10,000 DMT (AF)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	1	5	76	0	7	24	0	30	30	0	7	44	1	7	72
Japan to U.S. Southwest Coast (1004)	1	21	112	0	24	34	0	30	41	0	44	1	7	100	
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	2	9	0	2	3	0	2	3	0	4	5	0	5	6
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	0	4	8	0	2	3	0	2	3	0	4	4	0	0	2
South America East Coast to U.S. Southwest Coast (1304)	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	14	27	0	10	14	0	11	15	0	12	17	0	13	18
South America West Coast to U.S. Southwest Coast (1404)	2	0	247	0	0	53	0	0	47	0	0	46	0	0	49
U.S. Southwest Coast to East Africa (0415)	2	63	278	1	40	53	0	35	49	0	35	48	0	37	51
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	3	3	0	4	6	0	7	10	0	12	17
U.S. Southwest Coast to South East Asia (0422)	0	4	12	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	2	4	0	2	4	0	16	22	0	24	34	0	30	42
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	2	6	0	7	10	0	3	12
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	4	6	0	7	10	0	10	14
Total - U.S. Southwest Coast Routes	7	114	826	2	103	226	2	115	246	3	147	310	4	192	405
Total - US Routes	127	2,502	11,441	68	3,507	6,849	76	4,139	7,616	90	5,433	8,950	103	6,936	10,690

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Reefer (BA)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0406)	1	79	139	1	93	173	1	102	189	1	88	164	1	73	135
Northern Europe to U.S. Southwest Coast (0904)	2	26	206	1	16	236	2	14	259	2	9	224	1	5	185
U.S. Southwest Coast to Southern Europe (0409)	1	0	38	1	0	197	1	0	206	1	0	213	1	0	213
Southern Europe to U.S. Southwest Coast (0904)	2	19	24	5	30	56	6	32	59	8	33	61	10	33	61
U.S. Southwest Coast to Japan (0410)	2	25	349	2	502	930	2	575	1,064	3	769	1,425	3	935	1,732
U.S. Southwest Coast (1004)	1	22	156	2	14	375	2	11	429	3	5	575	3	2	699
U.S. Southwest Coast to Australia/New Zealand (0411)	1	14	41	0	23	43	0	28	52	0	32	59	0	35	61
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	0	4	0	0	1	0	0	1	0	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	1	4	0	0	1	0	0	1	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	4	22	427	4	14	429	3	14	399	3	18	369	3	19	311
South America East Coast to U.S. Southwest Coast (1304)	1	46	87	1	44	82	1	41	77	1	38	71	1	32	60
U.S. Southwest Coast to South America West Coast (0414)	7	0	1,523	9	0	1,595	9	0	1,663	11	0	2,024	12	0	2,292
South America West Coast to U.S. Southwest Coast (1404)	8	391	1,690	9	947	1,753	10	987	1,827	12	1,201	2,225	14	1,360	2,519
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	4	16	0	8	14	0	13	24	1	20	38	1	26	48
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	12	0	0	12	0	0	21	0	0	33	1	0	42
U.S. Southwest Coast to Other Med (0419)	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	20	0	0	18	0	0	21	0	0	26	0	0	30
China to U.S. Southwest Coast (2104)	0	2	10	0	5	18	0	6	12	0	8	15	0	9	17
U.S. Southwest Coast to South East Asia (0422)	0	1	25	1	2	60	0	2	56	0	4	56	0	5	55
South East Asia to U.S. Southwest Coast (2204)	0	2	4	0	5	10	0	5	9	0	5	9	0	5	9
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	1	3	0	2	3	0	1	3	0	1	2
Total - U.S. Southwest Coast Routes	29	855	4,834	36	1,706	5,998	38	1,832	6,369	45	2,231	7,586	49	2,540	8,471

Total - US Routes

108 4,151 16,305 172 7,726 30,897 179 8,281 32,346 205 9,431 38,043 228 10,349 42,874

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - Less than 20,000 DWT (DA)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	9	18	0	6	8	0	7	9	0	5	7	0	4	6
Northern Europe to U.S. Southwest Coast (0804)	0	0	42	0	0	12	0	0	12	0	0	10	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	3	14	0	0	8	0	0	8	0	0	14	0	0	22
Southern Europe to U.S. Southwest Coast (0904)	0	3	14	0	0	12	0	12	15	0	19	25	0	30	40
U.S. Southwest Coast to Japan (0410)	1	153	217	2	375	490	2	336	639	1	178	233	0	89	115
Japan to U.S. Southwest Coast (1004)	2	121	418	3	195	1,137	3	180	1,019	1	130	540	1	89	268
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	19	0	0	101	1	105	138	0	0	0	1	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	18	38	0	77	328	1	105	447	1	129	168	1	135	177
Far East NIC's to U.S. Southwest Coast (1204)	0	66	131	1	50	328	2	54	86	2	73	546	2	95	573
U.S. Southwest Coast to South America East Coast (0413)	2	13	319	1	3	100	1	5	86	0	6	49	0	4	28
U.S. Southwest Coast to South America West Coast (0414)	1	0	77	0	21	27	0	18	24	0	10	14	0	6	8
South America West Coast to U.S. Southwest Coast (1404)	1	11	169	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	146	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	34	0	0	12	0	7	16	0	9	16	0	9	17
China to U.S. Southwest Coast (2104)	0	3	47	0	3	18	0	17	23	0	18	23	0	19	25
U.S. Southwest Coast to South East Asia (0422)	0	1	90	1	14	134	1	6	181	2	11	236	2	16	463
South East Asia to U.S. Southwest Coast (2204)	0	4	38	0	43	56	0	58	76	1	94	123	1	148	194
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	4	51	0	6	8	0	11	14	0	16	21	0	16	21
Indian Sub-Continent to U.S. Southwest Coast (2504)	0	0	0	0	1	1	0	1	1	0	1	1	0	0	1
Total - U.S. Southwest Coast Routes	9	452	1,884	8	807	2,451	9	817	2,507	8	699	2,086	8	661	1,963

Total - US Routes

82 5,982 15,249 84 8,342 16,982 90 8,915 18,008 99 9,603 19,071 117 10,954 21,991

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 20,000 to 40,000 DWT (08)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	5	163	1,421	1	223	285	1	241	308	1	249	318	1	244	312
Northern Europe to U.S. Southwest Coast (0804)	3	225	1,143	0	60	231	0	64	249	0	68	257	0	74	252
U.S. Southwest Coast to Southern Europe (0409)	3	163	862	1	172	292	1	156	360	1	60	550	2	34	739
Southern Europe to U.S. Southwest Coast (0904)	2	47	474	0	121	155	0	149	190	1	228	291	1	306	391
U.S. Southwest Coast to Japan (0410)	10	1,054	3,663	4	1,391	1,777	3	1,296	1,655	2	849	1,065	3	505	645
Japan to U.S. Southwest Coast (1004)	20	644	8,480	7	3,644	3,065	6	478	2,873	4	259	1,883	3	138	1,119
U.S. Southwest Coast to Australia/New Zealand (0411)	1	19	276	1	108	514	1	169	574	2	282	911	2	437	1,277
Australia/New Zealand to U.S. Southwest Coast (1104)	1	320	575	1	495	633	1	553	707	2	878	1,121	3	1,230	1,571
U.S. Southwest Coast to Far East NIC's (0412)	11	612	3,322	5	1,553	1,983	8	2,379	3,038	13	3,852	4,919	17	5,174	6,607
Far East NIC's to U.S. Southwest Coast (1204)	13	2,622	5,284	6	1,553	2,543	9	1,538	3,898	15	1,421	6,312	20	1,135	8,478
U.S. Southwest Coast to South America East Coast (0413)	29	1,167	1,125	18	45	733	16	70	612	12	78	513	10	69	422
South America East Coast to U.S. Southwest Coast (1304)	4	1,307	1,626	2	75	989	2	22	908	2	543	693	1	447	570
U.S. Southwest Coast to South America West Coast (0414)	6	23	2,200	0	8	19	0	6	22	0	3	22	0	21	20
South America West Coast to U.S. Southwest Coast (1404)	4	23	2,065	0	3	4	0	5	7	0	12	15	0	22	28
U.S. Southwest Coast to East Africa (0415)	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	16	16	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	3	55	0	43	55	0	70	67	0	90	85	0	114	146
U.S. Southwest Coast to South Africa (0417)	0	8	16	0	30	38	0	51	76	0	68	89	0	57	107
South Africa to U.S. Southwest Coast (1704)	0	16	16	0	17	22	0	22	28	0	26	33	0	31	40
U.S. Southwest Coast to Arabian Gulf (0418)	1	55	242	0	45	58	0	48	62	0	60	76	0	53	67
Arabian Gulf to U.S. Southwest Coast (1804)	0	22	75	0	7	9	0	6	15	0	0	4	0	0	16
U.S. Southwest Coast to Other Med (0419)	2	78	714	0	0	7	0	0	2	0	3	4	0	1	2
Other Med to U.S. Southwest Coast (1904)	1	0	181	0	44	56	0	0	116	1	141	181	0	176	225
U.S. Southwest Coast to China (0421)	3	9	746	0	44	69	0	91	143	1	59	223	1	64	279
China to U.S. Southwest Coast (2104)	3	9	1,021	0	105	177	0	136	186	1	274	350	1	485	619
U.S. Southwest Coast to South East Asia (0422)	4	8	1,082	1	211	269	1	222	284	1	284	353	3	465	642
South East Asia to U.S. Southwest Coast (2204)	5	98	1,639	1	196	250	2	265	338	2	347	444	3	360	459
U.S. Southwest Coast to Indian Sub-Continent (0423)	3	169	498	1	54	27	0	4	37	2	4	48	0	5	50
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	3	54	0	4	4	0	4	37	0	4	48	0	5	50
Total - U.S. Southwest Coast Routes	134	7,875	39,075	50	7,788	14,378	55	8,912	16,940	63	10,161	21,118	72	11,546	25,521
Total - US Routes	646	87,212	206,137	558	111,051	203,615	628	122,762	232,001	673	128,477	253,047	752	137,203	287,952

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 40,000 to 80,000 DWT (DC)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	5	194	2,739	0	223	322	0	231	325	0	221	273	0	197	243
Northern Europe to U.S. Southwest Coast (0804)	8	271	3,733	0	244	301	0	246	304	0	207	255	0	171	227
U.S. Southwest Coast to Southern Europe (0409)	1	84	882	0	30	127	0	28	155	0	11	236	0	6	803
Southern Europe to U.S. Southwest Coast (0904)	17	1,079	2,309	13	272	335	12	333	411	8	506	624	5	651	762
Japan to U.S. Southwest Coast (1004)	6	680	5,685	5	946	1,928	5	1,475	5,408	3	1,034	3,682	2	209	2,264
U.S. Southwest Coast to Australia/New Zealand (0411)	2	114	958	1	152	574	2	219	1,005	3	287	1,610	4	373	2,147
Australia/New Zealand to U.S. Southwest Coast (1104)	2	158	257	0	184	227	0	222	274	1	355	438	1	473	584
U.S. Southwest Coast to Far East NIC's (0412)	8	1,382	5,314	4	2,513	3,404	5	3,424	4,611	8	4,970	6,998	13	6,135	10,865
Far East NIC's to U.S. Southwest Coast (1204)	4	1,188	2,354	2	1,178	1,455	2	1,596	1,971	4	2,423	2,991	6	3,761	4,643
U.S. Southwest Coast to South America East Coast (0413)	14	0	5,597	10	8	6,200	9	12	5,595	6	14	3,957	5	12	3,010
South America East Coast to U.S. Southwest Coast (1304)	2	854	854	1	880	1,087	1	783	966	1	554	684	1	421	520
U.S. Southwest Coast to South America West Coast (0414)	2	83	1,786	0	4	3	0	4	5	0	4	5	0	4	5
South America West Coast to U.S. Southwest Coast (1404)	1	0	0	0	1	1	0	1	3	0	1	3	0	0	3
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	1	1	0	1	1	0	2	0	0	0	5
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	26	0	0	0	10	0	12	15	0	16	20	0	20	25
U.S. Southwest Coast to South Africa (0417)	0	30	84	0	56	69	0	93	115	0	126	155	0	112	138
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	3	4	0	4	5	0	5	6	0	6	7
U.S. Southwest Coast to Arabian Gulf (0418)	0	99	158	0	26	32	0	25	31	0	16	20	0	11	13
Arabian Gulf to U.S. Southwest Coast (1804)	1	24	279	0	6	59	0	9	56	0	6	36	0	4	26
U.S. Southwest Coast to Other Med (0419)	3	112	1,198	0	10	35	0	8	42	0	5	60	0	2	92
Other Med to U.S. Southwest Coast (1904)	0	4	163	0	7	8	0	8	10	0	11	14	0	17	21
U.S. Southwest Coast to China (0421)	1	1	469	0	35	117	0	73	121	0	112	138	0	135	167
China to U.S. Southwest Coast (2104)	1	7	363	0	76	94	0	78	97	0	80	110	0	87	134
U.S. Southwest Coast to South East Asia (0422)	1	0	305	0	18	187	0	24	198	0	48	248	0	85	309
South East Asia to U.S. Southwest Coast (2204)	1	110	519	0	253	312	0	266	329	1	334	412	1	417	514
U.S. Southwest Coast to Indian Sub-Continent (0423)	1	143	335	0	191	236	1	251	310	1	317	391	1	312	385
Indian Sub-Continent to U.S. Southwest Coast (2304)	1	3	285	0	6	212	0	5	279	0	5	352	1	4	347
Total - U.S. Southwest Coast Routes	81	6,647	37,702	40	8,892	23,417	40	10,304	24,463	38	12,172	24,963	41	14,335	28,559

Total - US Routes 391 84,816 193,869 328 107,537 204,354 369 119,897 230,207 354 117,619 232,577

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Bulk Carriers - 80,000 to 100,000 DWT (00)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	32	38	0	33	39	0	31	37	0	27	32
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	41	48	0	41	48	0	34	40	0	28	33
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	59	69	0	73	85	0	111	130	0	143	168
U.S. Southwest Coast to Japan (0410)	0	0	0	0	361	423	0	338	396	0	225	263	0	135	158
Japan to U.S. Southwest Coast (1004)	0	130	173	0	152	398	0	140	372	0	87	248	0	49	149
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	24	28	0	33	39	0	42	49	0	52	61
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	17	20	0	22	26	0	35	41	0	45	53
U.S. Southwest Coast to Far East NIC's (0412)	0	0	82	1	395	463	1	531	621	1	758	866	1	922	1,079
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	160	187	0	231	270	0	394	449	0	629	756
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	131	154	0	116	136	0	81	95	0	60	71
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	9	10	0	15	17	0	20	23	0	18	21
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	3	4	0	3	3	0	1	1	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	2	2	0	2	2	0	1	1	0	1	1
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	1	1	0	1	1	0	1	1	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	5	6	0	10	12	0	15	18	0	18	22
China to U.S. Southwest Coast (2104)	0	0	0	0	12	14	0	12	14	0	12	14	0	13	16
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	5	87	0	56	65	0	58	68	0	76	89	0	100	117
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	28	32	0	36	42	0	45	53	0	44	51
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	1	1	0	1	1	0	1	1	0	1	1
Total - U.S. Southwest Coast Routes	6	3,792	5,948	16	20,555	29,809	18	22,677	32,912	17	22,361	32,556	17	21,827	32,219

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Bulk Carriers - 100,000 to 175,000 DWT (DE)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	277	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	69	73	85	0	113	133	0	148	173	0	0	0
U.S. Southwest Coast to Japan (0410)	0	0	0	26	21	24	0	13	15	0	7	9	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	995	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East, NIC's (0412)	1	91	620	105	97	113	0	111	130	0	120	141	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	504	70	0	75	0	0	87	0	0	94	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	0	0	395	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	1,114	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	4	3	3	0	3	4	0	4	4	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	0	4	3	4	0	5	5	0	6	8	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	1	1	1	0	1	1	0	1	1	0	0	0
Total - U.S. Southwest Coast Routes	2	91	3,904	0	179	280	0	196	305	0	266	375	0	287	430

Total - US Routes

43 25,011 55,271 38 31,318 56,274 44 35,695 65,663 43 34,324 68,298 42 32,948 70,850

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Bulk Carriers - Greater than 175,000 DWT (DF)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	180	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	10	0	12	0	12	0	0	0	22	0	25	29
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	16	0	17	0	17	0	0	20	23	0	21	25
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	252	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	2	0	2	0	2	0	0	1	2	0	0	2
South East Asia to U.S. Southwest Coast (2204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	2	669	583	3	28	33	3	31	47	0	40	36	0	48	56

Total - US Routes

2 669 3,119 3 7,332 11,062 3 8,043 12,477 3 7,363 12,435 3 6,818 12,472

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipshape Combination Carriers - 20,000 to 40,000 DWT (EB)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	1	0	186	0	0	0	0	0	0	0	0	0	0	0	0
Total - US Routes	1	32	456	0	61	192	0	57	181	0	43	141	0	30	102

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 40,000 to 80,000 DWT (EC)
On U.S. Southwest Coast Routes

ROUTE	1987			1992			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	70	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	68	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	13	133	0	42	52	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	272	0	0	0	0	0	0	0	0	0	0	0	131
U.S. Southwest Coast to Japan (0410)	0	0	55	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	134	404	0	231	265	0	323	399	0	485	599	0	605	747
Far East NIC's to U.S. Southwest Coast (1204)	0	0	54	0	38	0	0	0	53	0	0	70	0	0	99
U.S. Southwest Coast to South America East Coast (0413)	0	0	226	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	190	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	190	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	132	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	49	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	2	2	0	1	1	0	0	0	0	2	3
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	2	215	1,982	0	276	378	1	378	519	1	569	782	1	715	981

Total - US Routes

33 16,526 29,815 28 16,180 32,061 29 16,256 32,997 27 14,850 31,485 24 13,432 28,883

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 80,000 to 100,000 DWT (ED)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	7	5,089	8,448	11	8,560	15,898	11	9,199	16,824	11	9,121	16,753	11	8,688	16,358

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Combination Carriers - 100,000 to 175,000 DWT (EE)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	279	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	7	127	0	0	31	0	0	36	0	49	57	0	63	74
U.S. Southwest Coast to Japan (0410)	0	0	118	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	695	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	153	276	0	279	323	0	0	378	0	472	552	0	581	680
Far East NIC's to U.S. Southwest Coast (1204)	0	0	779	0	547	0	0	0	741	0	0	1,063	0	0	1,335
U.S. Southwest Coast to South America East Coast (0413)	0	0	152	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	1,491	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	559	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	3	2	0	0	3	0	3	4	0	4	5
South East Asia to U.S. Southwest Coast (2204)	0	0	106	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	74	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	2	160	4,655	1	267	356	1	524	1,158	1	524	1,695	1	649	2,094

Total - US Routes

25 16,463 36,876 40,753 22 25,757 46,253 24 27,170 52,149 26 28,748 57,805

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Combination Carriers - Greater than 175,000 DWT (EF)
On U.S. Southwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Southern Europe (0604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	4	0	0	0	5	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Far East WIC's (0412)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Far East WIC's to U.S. Southwest Coast (1204)	0	0	0	0	42	49	0	57	0	0	67	0	83	0	0	0	103	120		
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South East Asia to U.S. Southwest Coast (2204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Southwest Coast Routes	0	203	585	1	4,624	5,410	55	62	47	0	73	0	91	107	0	113	133			

Total - US Routes 6,593 7,713

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - Less than 10,000 DWT (FA)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	1	20	0	3	0	0	3	0	0	4	6	0	7	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	4	9	1	1	1	0	1	1	1	1	1	0	1	1
U.S. Southwest Coast to Japan (0410)	0	6	9	0	11	9	0	9	8	0	8	10	0	8	10
Japan to U.S. Southwest Coast (1004)	1	0	59	1	0	0	0	0	0	0	0	75	0	0	77
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	15	17	0	14	16	0	16	11	0	11	15	0	7	9
U.S. Southwest Coast to Far East NIC's (0412)	0	14	17	0	23	30	1	40	74	0	74	97	0	123	160
Far East NIC's to U.S. Southwest Coast (1204)	0	12	44	1	11	66	1	14	24	0	24	215	4	40	354
U.S. Southwest Coast to South America East Coast (0413)	0	9	15	0	17	27	0	9	5	0	5	9	0	3	10
South America East Coast to U.S. Southwest Coast (1304)	0	22	49	0	18	0	0	18	19	0	19	25	0	22	28
U.S. Southwest Coast to South America West Coast (0414)	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	5	0	0	4	2	0	2	3	0	1	1
U.S. Southwest Coast to South East Asia (0422)	0	0	8	0	15	1	0	1	1	0	1	1	0	1	2
South East Asia to U.S. Southwest Coast (2204)	0	26	26	0	34	44	0	31	31	0	31	41	0	34	45
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	4	109	323	3	124	316	4	146	181	5	181	511	8	245	722
Total - US Routes	54	4,432	6,566	95	5,659	9,172	115	6,360	7,674	163	7,674	16,272	233	9,406	23,421

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 10,000 to 40,000 DWT (FB)
On U.S. Southwest Coast Routes

3/14/90

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Southwest Coast to Northern Europe (0408)	4	1,117	1,117	7	1,442	1,885	3	591	772	4	839	1,096	6	1,187	1,532					
Northern Europe to U.S. Southwest Coast (0804)	1	120	293	2	119	809	1	153	332	1	287	471	2	415	666					
U.S. Southwest Coast to Southern Europe (0409)	1	160	167	0	1	15	0	1	17	1	0	0	0	0	10					
Southern Europe to U.S. Southwest Coast (0904)	1	97	308	0	28	36	0	32	41	0	25	33	2	20	26					
U.S. Southwest Coast to Japan (0410)	4	1,584	1,808	2	887	1,160	3	1,018	1,330	3	992	1,297	2	924	1,208					
Japan to U.S. Southwest Coast (1004)	3	51	199	2	39	661	2	42	758	2	30	740	2	23	889					
U.S. Southwest Coast to Australia/New Zealand (0411)	1	166	189	1	125	229	1	105	259	0	150	181	0	89	108					
Australia/New Zealand to U.S. Southwest Coast (1104)	1	195	229	1	190	246	1	215	281	0	196	196	0	0	117					
U.S. Southwest Coast to Far East NIC's (0412)	3	812	957	4	1,084	1,417	5	1,259	1,646	5	1,200	1,568	6	1,617	2,114					
U.S. Southwest Coast to South America East Coast (1204)	2	202	754	3	802	1,049	3	205	1,218	3	353	1,161	6	593	1,565					
U.S. Southwest Coast to South America East Coast (0413)	6	1,530	2,315	6	1,345	1,785	7	1,724	2,124	3	822	1,074	2	289	346					
South America East Coast to U.S. Southwest Coast (1304)	2	234	1,022	2	154	733	3	152	928	1	156	441	2	171	224					
U.S. Southwest Coast to South America West Coast (0414)	2	16	910	4	11	1,315	3	13	1,750	8	156	441	1	2	332					
South America West Coast to U.S. Southwest Coast (1404)	2	52	750	3	850	1,111	4	1,131	1,479	6	1,677	2,192	8	2,186	2,858					
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
West Africa to U.S. Southwest Coast (1604)	0	0	83	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Southwest Coast to South Africa (0417)	0	12	25	0	0	0	0	0	0	0	0	0	0	0	0					
South Africa to U.S. Southwest Coast (1704)	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Southwest Coast to Arabian Gulf (0418)	1	10	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Southwest Coast to Arabian Gulf (1804)	1	212	341	1	200	203	1	251	253	1	259	263	1	265	265					
U.S. Southwest Coast to Other Med (0419)	1	0	182	0	0	261	0	0	328	0	0	339	0	261	341					
Other Med to U.S. Southwest Coast (1904)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
China to U.S. Southwest Coast (2104)	0	0	128	0	128	168	0	143	187	0	69	90	0	24	32					
U.S. Southwest Coast to South East Asia (0422)	0	28	28	0	61	79	0	47	82	0	20	26	0	9	11					
South East Asia to U.S. Southwest Coast (2204)	1	176	207	6	144	1,472	5	96	1,369	5	61	1,436	6	36	1,685					
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	159	159	3	829	1,083	2	771	1,008	3	808	1,057	3	932	1,218					
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	6	0	0	7	0	0	0	0	0	0					
Total - U.S. Southwest Coast Routes	37	6,914	13,258	46	7,833	15,723	47	7,954	16,278	48	7,795	16,277	55	8,814	18,593					

Total - US Routes

295 57,310 113,686 449 88,983 168,596 491 99,642 184,180 214,393 684 147,117 270,379

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 40,000 to 80,000 DWT (FC)
On U.S. Southwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Southwest Coast to Northern Europe (0408)	0	211	211	1	532	679	0	218	278	1	307	395	1	438	559					
Northern Europe to U.S. Southwest Coast (0804)	0	31	61	0	21	209	0	27	85	0	47	121	0	73	172					
U.S. Southwest Coast to Southern Europe (0407)	0	194	208	0	10	13	0	12	15	0	9	0	0	0						
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	399	509	0	462	590	1	456	582	0	7	547					
U.S. Southwest Coast to Japan (0410)	1	464	490	1	7	9	0	7	10	0	5	7	0	4	5					
Japan to U.S. Southwest Coast (1004)	0	0	0	0	22	28	0	19	24	0	10	12	0	5	6					
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	35	42	0	37	48	0	26	33	0	16	20					
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	65	62	0	297	379	0	268	342	0	348	445					
U.S. Southwest Coast to Far East NIC's (0412)	0	55	65	0	260	333	0	36	46	0	62	79	0	103	132					
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	30	38	0	1,658	2,118	2	784	1,160	2	269	322					
U.S. Southwest Coast to South America East Coast (0413)	2	1,200	1,538	3	1,312	1,676	4	211	259	0	223	284	1	254	324					
South America East Coast to U.S. Southwest Coast (1304)	1	227	391	1	211	411	1	24	305	0	10	449	1	3	568					
U.S. Southwest Coast to South America West Coast (0414)	0	25	415	0	19	228	0	200	255	0	296	378	1	386	493					
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	150	192	0	0	0	0	0	0	0	0	0					
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
South Africa to U.S. Southwest Coast (1704)	0	62	62	0	1	1	0	1	1	0	1	1	0	1	2					
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	158	202	0	164	209	0	165	210					
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	126	161	0	0	0	0	0	0	0	0	0					
U.S. Southwest Coast to Other Med (0419)	0	0	55	0	0	0	0	0	0	0	0	0	0	0	0					
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
U.S. Southwest Coast to China (0421)	0	0	65	0	23	29	0	25	32	0	12	15	0	4	5					
China to U.S. Southwest Coast (2104)	0	0	0	0	233	298	0	198	253	0	121	154	0	68	86					
U.S. Southwest Coast to South East Asia (0422)	0	0	51	0	25	115	0	17	108	0	11	113	0	6	128					
South East Asia to U.S. Southwest Coast (2204)	0	203	237	1	407	519	1	382	488	1	399	510	1	453	579					
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	1	1	0	1	1	0	1	1	0	1	2					
Total - U.S. Southwest Coast Routes	6	2,671	4,235	8	3,822	5,490	8	3,989	5,754	7	3,214	4,859	8	3,033	5,632					

Total - US Routes 86 29,704 65,984 103 46,737 78,561 121 52,707 90,542 134 61,848 104,145 166 75,131 129,619

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 80,000 to 100,000 DWT (F9)
On U.S. Southwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	
U.S. Southwest Coast to Northern Europe (0408)	0	277	277	1	413	510	0	209	241	297	1	340	420	0	0	0	0	0	0	
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to Japan (0410)	1	807	807	0	557	687	0	820	683	843	0	660	815	0	0	0	0	0	0	
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Australia/New Zealand to U.S. Southwest Coast (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to Far East NIC's (0412)	0	498	543	0	375	471	0	540	164	372	0	86	295	0	0	0	0	0	0	
Far East NIC's to U.S. Southwest Coast (1204)	0	405	405	0	387	477	0	540	306	378	0	98	224	0	0	0	0	0	0	
U.S. Southwest Coast to South America East Coast (0413)	1	581	581	1	789	975	1	975	300	370	0	0	121	0	0	0	0	0	0	
U.S. Southwest Coast to South America West Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South America East Coast to U.S. Southwest Coast (0414)	0	0	185	0	182	240	0	229	113	91	0	38	47	0	0	0	0	0	0	
U.S. Southwest Coast to South America West Coast (1404)	0	0	0	0	33	40	0	29	35	139	0	40	49	0	0	0	0	0	0	
South America West Coast to U.S. Southwest Coast (0415)	0	0	450	0	3	4	0	5	2	2	0	0	1	0	0	0	0	0	0	
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to South Africa (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	214	0	0	9	0	12	113	91	0	38	47	0	0	0	0	0	0	
Arabian Gulf to U.S. Southwest Coast (1804)	1	25	441	0	16	20	0	20	21	26	0	21	26	0	0	0	0	0	0	
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
U.S. Southwest Coast to China (0421)	0	0	97	0	0	392	0	332	0	202	0	0	113	0	0	0	0	0	0	
China to U.S. Southwest Coast (2104)	0	81	81	0	272	336	0	285	140	173	0	78	97	0	0	0	0	0	0	
U.S. Southwest Coast to South East Asia (0422)	1	358	1,224	1	247	1,276	1	1,289	95	1,365	2	49	1,529	0	0	0	0	0	0	
South East Asia to U.S. Southwest Coast (2204)	3	2,365	2,509	2	2,087	2,576	3	2,602	2,231	2,755	3	2,499	3,086	0	0	0	0	0	0	
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	1	1	0	1	1	1	0	1	2	0	0	0	0	0	0	
Total - U.S. Southwest Coast Routes	9	5,395	8,333	8	5,370	8,498	8	8,447	4,332	7,377	7	4,075	7,088	70	58,172	98,715	7	4,075	7,088	

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - 100,000 to 175,000 DWT (FE)
On U.S. Southwest Coast Routes

ROUTE	1987				1995				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Japan to U.S. Southwest Coast (1004)	0	0	0	0	91	0	106	0	108	127	0	131	0	108	0	108	127	0		
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	66	0	77	0	56	65	0	34	0	15	0	15	18	0		
U.S. Southwest Coast to Far East NIC's (0412)	0	219	230	0	278	326	0	315	368	0	29	0	0	0	0	0	0	0		
Far East NIC's to U.S. Southwest Coast (1204)	0	116	230	0	280	327	0	266	312	0	104	0	0	0	0	131	153	0		
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America East Coast to U.S. Southwest Coast (1304)	0	0	126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to South America West Coast (0414)	1	0	1,710	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South America West Coast to U.S. Southwest Coast (1404)	1	0	4,047	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Southwest Coast (1704)	0	0	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	406	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Other Med (0419)	0	0	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to China (0421)	0	0	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Southwest Coast (2104)	0	0	0	0	41	48	0	35	41	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to South East Asia (0422)	1	0	1,520	1	64	1,512	1	29	1,569	1	21	25	17	1,669	1	12	1,866	14		
South East Asia to U.S. Southwest Coast (2204)	1	1,950	2,103	1	1,814	2,122	1	1,882	2,201	1	2,003	2,342	2,388	2,618	2	2,238	2,618	0		
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Southwest Coast Routes	6	2,285	10,862	3	2,678	4,593	3	2,717	4,713	3	2,543	4,624	2,597	4,893	3	2,597	4,893	4,893		

Total - US Routes 86 48,330 153,437 80 85,252 145,146 99 106,191 179,040 133 143,821 238,940 169 183,327 302,855

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Tankers - 175,000 to 250,000 DWT (FF)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	1	0	430	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	3,764	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	0	0	37	25	43	0	42	28	0	29	34	0	17	20
U.S. Southwest Coast to Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	3	0	4,239	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	3	0	6,652	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	1	0	1,188	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	231	0	0	488	0	435	509	0	464	542	0	518	606
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	8	215	16,504	2	479	560	0	501	586	0	502	587	0	538	629

Total - US Routes

16 1,226 29,728 2 15,550 19,546 3 19,474 24,534 3 26,569 33,550 4 34,008 43,005

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Tankers - Greater than 250,000 DWT (FG)
On U.S. Southwest Coast Routes

3/14/90

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	0	0	267	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	1,048	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East MIC's (0412)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East MIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	3,445	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (0414)	1	0	5,598	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	790	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	28	33	0	0	0	0	35	37	0	0	41
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	2	0	11,149	0	28	33	0	30	30	35	35	37	0	35	41

Total - US Routes		26	29,156	73,643	53	67,935	128,838	67	84,775	160,555	94	115,564	217,955	122	147,902	278,099
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3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shipoye Gas Tankers (GA)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (04/08)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Northern Europe (04/09)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (04/10)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	91	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (04/11)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	21	0	0	19	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (04/12)	0	1	73	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (04/13)	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (04/14)	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (04/15)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (04/16)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (04/17)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (04/18)	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	7	41	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (04/19)	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (04/21)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (04/22)	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	63	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (04/23)	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	1	8	575	0	9	21	0	9	19	0	3	7	0	1	2

Total - US Routes 70 3,540 21,365 49 5,185 22,894 56 6,747 29,175 64 9,384 39,007 86 12,788 52,852

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Ship-type Vehicle Carriers (HB)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	1	0	99	1	0	224	1	0	215	0	0	144	0	0	86
Northern Europe to U.S. Southwest Coast (0804)	6	172	1,017	5	186	2,062	5	178	1,973	3	119	1,322	2	71	788
U.S. Southwest Coast to Southern Europe (0409)	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	21	0	4,358	29	0	13,411	27	0	12,782	22	0	10,164	15	0	7,095
Japan to U.S. Southwest Coast (1004)	15	902	3,788	21	873	9,704	20	832	9,249	16	662	7,354	11	462	5,134
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	2	0	346	3	0	2,052	5	0	2,708	7	0	4,415	11	0	6,359
Far East NIC's to U.S. Southwest Coast (1204)	1	109	273	3	139	1,540	3	183	2,033	6	298	3,315	8	430	4,774
U.S. Southwest Coast to South America East Coast (0413)	6	0	1,261	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	3	0	478	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	2	0	430	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	2	0	312	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	46	0	0	62	0	0	41	0	0	16	0	0	4
East Africa to U.S. Southwest Coast (1504)	0	10	30	0	5	52	0	3	34	0	1	12	0	0	3
U.S. Southwest Coast to West Africa (0416)	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	4	0	302	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	2	0	164	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	8	0	1,484	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	1	0	150	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	69	0	1	9	0	1	12	0	2	23	0	3	39
China to U.S. Southwest Coast (2104)	0	0	98	0	0	14	0	0	18	0	0	36	0	0	60
U.S. Southwest Coast to South East Asia (0422)	0	0	61	0	4	49	0	6	64	0	11	127	1	19	213
South East Asia to U.S. Southwest Coast (2204)	0	0	72	0	0	50	0	0	64	0	0	128	1	0	215
U.S. Southwest Coast to Indian Sub-Continent (0423)	1	0	80	0	11	127	1	15	164	1	30	336	2	53	588
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	21	0	0	47	0	0	60	0	0	124	1	0	216
Total - U.S. Southwest Coast Routes	79	1,194	15,177	64	1,219	29,403	63	1,218	29,418	57	1,124	27,515	52	1,038	25,574
Total - US Routes	266	3,730	51,989	216	3,877	91,054	224	3,975	95,338	227	3,899	99,251	230	3,848	103,936

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - Less than 10,000 DWT (PA)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS	SHIP YEARS	CAPACITY 000 TONS	CARGO 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	0	15	7	0	9	8	0	11	8	0	0	0	0	11	0
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	7	0	13	15	21	0	28	39	0	0	0	51	66	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	1	18	15	0	20	19	0	25	11	0	0	0	14	6	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	12	0	0	0	14	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	32	27	40	35	27	1	36	28	1	0	0	15	32	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	37	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	2	71	157	1	62	77	1	95	114	1	88	130	1	112	164

Total - US Routes

19 757 2,017 28 1,002 3,004 33 1,209 3,630 38 1,534 4,325 44 2,034 5,157

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 10,000 to 40,000 DWT (PB)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
	U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	88	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	112	617	0	32	42	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	133	592	1	15	361	1	17	17	22	194	2	2	69	8
South East Asia to U.S. Southwest Coast (2204)	0	836	990	2	98	579	2	65	39	622	21	700	2	876	1,145
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	2	110	0	0	948	3	733	778	1,017	876	1,145	4	0	2
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	5	98	0	1	1	0	0	0	2	0	0	0	0	0
Total - U.S. Southwest Coast Routes	7	1,102	2,567	6	927	2,006	6	918	2,090	6	916	1,957	6	987	2,030
Total - US Routes	40	4,148	10,671	22	4,008	7,064	23	4,347	7,740	25	5,022	8,575	30	6,171	10,414

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 40,000 to 80,000 DWT (PC)
On U.S. Southwest Coast Routes

ROUTE	1987				1989				2000				2010				2020			
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS		
U.S. Southwest Coast to Northern Europe (0408)	0	217	217	1	377	481	0	154	197	0	219	280	1	310	396	0	0	0		
Northern Europe to U.S. Southwest Coast (0804)	0	31	192	1	48	320	0	61	131	0	100	186	0	150	264	0	0	0		
U.S. Southwest Coast to Southern Europe (0409)	0	270	270	0	0	7	0	0	8	0	0	6	0	0	5	0	0	0		
Southern Europe to U.S. Southwest Coast (0904)	1	850	879	1	432	551	1	505	645	1	506	647	1	481	614	1	0	0		
U.S. Southwest Coast to Japan (0410)	0	12	271	0	8	170	0	9	199	0	0	200	0	0	190	0	0	0		
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Australia/New Zealand to U.S. Southwest Coast (1104)	1	268	313	1	331	423	0	326	416	1	160	286	1	104	478	0	0	0		
U.S. Southwest Coast to Far East NIC's (0412)	1	38	86	0	25	88	0	28	87	0	47	60	0	78	99	0	0	0		
Far East NIC's to U.S. Southwest Coast (1204)	2	664	1,686	1	593	757	2	749	937	1	354	667	1	120	763	1	0	0		
U.S. Southwest Coast to South America East Coast (0413)	0	100	285	0	81	125	0	81	158	0	86	110	0	99	126	0	0	0		
South America East Coast to U.S. Southwest Coast (1304)	0	0	1,333	0	0	10	0	10	12	0	0	4	0	1	2	0	0	0		
U.S. Southwest Coast to South America West Coast (0414)	2	0	1,672	0	0	12	0	0	15	0	0	7	0	0	0	0	0	0		
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to West Africa (0416)	0	0	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to South Africa (0417)	0	0	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	88	0	0	0	0	0	69	0	0	0	0	0	0	0	0	0		
Arabian Gulf to U.S. Southwest Coast (1804)	0	24	68	0	32	40	0	40	51	0	41	52	0	41	53	0	0	0		
U.S. Southwest Coast to Other Med (0419)	0	0	152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
U.S. Southwest Coast to China (0421)	0	0	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
China to U.S. Southwest Coast (2104)	0	2	92	0	58	74	0	6	47	0	3	29	0	1	16	0	0	0		
U.S. Southwest Coast to South East Asia (0422)	1	0	490	2	17	859	2	49	63	0	30	39	0	17	22	0	0	0		
South East Asia to U.S. Southwest Coast (2204)	1	282	328	1	365	466	1	370	473	2	392	501	3	440	1,057	1	0	0		
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	174	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total - U.S. Southwest Coast Routes	14	2,788	8,983	8	2,387	4,503	8	2,408	4,410	8	1,961	4,077	9	1,854	4,706	9	1,854	4,706		

107,039

90,463

49,436

Total - US Routes

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 80,000 to 100,000 DWT (PD)
On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	1	540	1,106	2	1,281	1,843	2	1,415	2,082	3	1,744	2,818	4	2,662	4,520

Total - US Routes 20 11,023 26,428 31 17,832 40,945 33 19,356 43,702 38 22,862 50,894 46 27,968 60,826

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Product Tankers - 100,000 to 175,000 DWT (PE)
On U.S. Southwest Coast Routes

ROUTE	1987				1995				2000				2010				2020				
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	2	1,428	3,457	4	7,765	12,240	4	9,967	14,746	5	14,280	19,796	5	19,276	25,724	0	294	417	0	488	0

Total - US Routes

3/14/90

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
 For Shiptype Product Tankers - 175,000 to 250,000 DWT (PF)
 On U.S. Southwest Coast Routes

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Europe to U.S. Southwest Coast (0604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Southern Europe (0409)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Japan (0410)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan to U.S. Southwest Coast (1004)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Far East NIC's to U.S. Southwest Coast (1204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America East Coast (0413)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America East Coast to U.S. Southwest Coast (1304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South America West Coast (0414)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South America West Coast to U.S. Southwest Coast (1404)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Med to U.S. Southwest Coast (1904)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to China (0421)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China to U.S. Southwest Coast (2104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South East Asia to U.S. Southwest Coast (2204)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - U.S. Southwest Coast Routes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total - US Routes	0	0	1,175	0	1,005	1,596	0	1,365	2,381	0	2,797	3,271	0	2,797	3,271

COMPARISON OF SHIP YEARS, CARGO AND CAPACITY
For Shiptype Other Ships (00)
On U.S. Southwest Coast Routes
1995

ROUTE	1987			1995			2000			2010			2020		
	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS	SHIP YEARS	CARGO 000 TONS	CAPACITY 000 TONS
U.S. Southwest Coast to Northern Europe (0408)	1	23	97	0	32	40	0	33	41	0	37	46	0	44	55
Northern Europe to U.S. Southwest Coast (0804)	0	0	110	0	0	45	0	0	46	0	0	52	0	0	62
U.S. Southwest Coast to Southern Europe (0409)	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0
Southern Europe to U.S. Southwest Coast (0904)	0	0	0	0	6	7	0	8	10	0	13	16	0	19	24
U.S. Southwest Coast to Japan (0410)	2	207	569	2	461	569	2	474	585	2	551	681	2	634	785
Japan to U.S. Southwest Coast (1004)	2	283	892	2	294	792	2	393	815	2	476	948	2	547	1,095
U.S. Southwest Coast to Australia/New Zealand (0411)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia/New Zealand to U.S. Southwest Coast (1104)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Far East NIC's (0412)	1	14	179	0	52	65	0	73	90	1	87	158	1	79	289
Far East NIC's to U.S. Southwest Coast (1204)	1	57	221	0	57	80	0	85	111	1	158	195	1	289	357
U.S. Southwest Coast to South America East Coast (0413)	0	0	23	0	10	25	0	12	26	0	19	29	0	27	34
South America East Coast to U.S. Southwest Coast (1304)	0	12	111	0	11	13	0	11	14	0	12	15	0	13	18
U.S. Southwest Coast to South America West Coast (0414)	4	15	807	0	14	18	0	17	21	0	21	26	0	22	27
South America West Coast to U.S. Southwest Coast (1404)	4	0	771	0	0	18	0	0	21	0	0	25	0	27	27
U.S. Southwest Coast to East Africa (0415)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Africa to U.S. Southwest Coast (1504)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to West Africa (0416)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Africa to U.S. Southwest Coast (1604)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to South Africa (0417)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa to U.S. Southwest Coast (1704)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Arabian Gulf (0418)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arabian Gulf to U.S. Southwest Coast (1804)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Southwest Coast to Other Med (0419)	1	0	95	0	1	13	0	1	2	0	2	3	0	3	4
Other Med to U.S. Southwest Coast (1904)	0	0	13	0	0	2	0	0	22	0	4	39	0	0	69
U.S. Southwest Coast to China (0421)	0	0	55	5	17	973	6	27	1,037	9	49	1,601	13	78	2,451
China to U.S. Southwest Coast (2104)	0	3	3	1	31	31	0	27	34	2	42	52	2	64	79
U.S. Southwest Coast to South East Asia (0422)	0	0	0	0	176	217	0	304	375	0	452	559	0	539	665
South East Asia to U.S. Southwest Coast (2204)	0	16	22	1	34	42	1	43	53	1	59	73	1	82	101
U.S. Southwest Coast to Indian Sub-Continent (0423)	0	0	10	0	18	22	0	29	36	0	49	61	0	66	82
Indian Sub-Continent to U.S. Southwest Coast (2304)	0	0	0	0	1	1	0	1	1	0	1	1	0	2	2
Total - U.S. Southwest Coast Routes	17	657	4,166	12	1,210	2,973	13	1,542	3,343	18	2,035	4,584	26	2,517	6,232

Total - US Routes

121 4,312 39,929 104 8,033 24,033 134 9,808 28,048 179 12,739 35,395 220 16,255 43,535

APPENDICES

WSTS Regions

-
- | | | |
|--|--|---|
| <p>1. <u>United States*</u></p> <p>2. <u>Canada*</u></p> <p>3. <u>Japan</u></p> <p>4. <u>Southern Europe*</u>
Greece
Italy
Portugal
Spain
Turkey</p> <p>5. <u>Northern Europe</u>
Austria
Belgium-Luxembourg
Denmark
Faeroe Islands
Finland
France
Germany
Iceland
Ireland
Netherlands
Norway
Sweden
Switzerland
United Kingdom
Greenland</p> <p>6. <u>Eastern Europe</u>
USSR
East Germany
Poland
Czechoslovakia
Hungary
Romania
Bulgaria
Albania</p> <p>7. <u>Western Africa</u>
Mauritania
Senegal
Gambia
Mali
Niger
Upper Volta
Guinea-Bissau
Cape Verde
Guinea
Sierra Leone
Liberia
Ivory Coast
Ghana
Togo
Soa Tome
Benin
Nigeria
Equatorial Guinea
Cameroon
Chad
Central African Republic
Gabon
Congo
Zaire
Burundi
Rwanda</p> | <p>8. <u>Other Mediterranean</u>
Yugoslavia
Gibraltar
Malta
Cyprus
Morocco
Algeria
Tunisia
Libya
Egypt
Syria
Lebanon
Israel</p> <p>9. <u>Eastern Africa</u>
Sudan
Ethiopia
Djibouti
Somalia
Uganda
Kenya
Tanzania</p> <p>10. <u>Southern Africa</u>
Angola
Zambia
Zimbabwe
Malawi
Mozambique
Comoro Islands
Madagascar
Reunion
Mauritius
Seychelles
Botswana
Lesotho
Swaziland
South Africa</p> <p>11. <u>Caribbean Basin</u>
St. Pierre
Mexico
Cuba
Haiti
Dominica
Jamaica
Guatemala
Belize
Bahamas
Bermuda
Barbados
Antigua
Dominican Republic
St. Lucia
Grenada
St. Vincent
Honduras
El Salvador
Nicaragua
Costa Rica
Panama
U.S. Virgin Islands
Panama Canal
Netherlands Antilles
Martinique
Guadeloupe
Trinidad</p> <p>12. <u>West Coast of South America</u>
Colombia
Ecuador
Peru
Bolivia
Chile</p> | <p>13. <u>East Coast of South America</u>
Venezuela
Guyana
Suriname
French Guiana
Brazil
Paraguay
Argentina
Uruguay</p> <p>14. <u>Red Sea & Arabian Gulf</u>
Jordan
Iraq
Saudi Arabia
North Yemen
South Yemen
Kuwait
Bahrain
Abu Dhabi
Dubai
Other United Arab Emirates
Qatar
Oman
Iran</p> <p>15. <u>Indian Subcontinent</u>
Afghanistan
Nepal
Pakistan
Bangladesh
India
Bhutan
Sri Lanka
Maldives
Burma</p> <p>16. <u>Southeast Asia</u>
Thailand
Laos
Cambodia
Vietnam
Malaysia
Brunei
Singapore
Indonesia
Philippines</p> <p>17. <u>China & North Korea</u>
Mongolia
China
North Korea</p> <p>18. <u>Far Eastern Newly Industrialized Economies</u>
South Korea
Taiwan
Hong Kong
Macau</p> <p>19. <u>South Pacific</u>
Australia
New Zealand
Papua New Guinea
New Caledonia
Polynesia
New Hebrides
Nauru
Solomon Islands
Fiji
Western Samoa
Tonga
Pacific (Trust) Islands
Guam
Oceania N.E.S.</p> |
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*Underlying country or coastal segments are also maintained separately.

WSTS Commodities Classifications

Group	Description	SITC Codes Included in Group
1	Live animals	00
2	Meat, fish, and dairy products	01,02,03
3	Fruit and vegetables	05
4	Grain, animal feedstuffs	041,042,043,044,045,08
5	Sugar	06
6	Flour, other food preparations, beverages, and tobacco	046,047,048,07,09,11,12
7	Animal skins, textile fibers and waste	21,26,29
8	Oilseeds	22
9	Animal and vegetable oils and fats	4
10	Rubber	23
11	Lumber, plywood, and processed wood	24,63
12	Pulp and waste paper	25
13	Phosphates and other natural fertilizers	271
14	Cement, lime, stone, and other crude minerals	27 (except 271), 661
15	Manufactured fertilizers	56
16	Iron ore	281
17	Bauxite and other nonferrous ores	287
18	Other ores and scrap	28 (except 281,287)
19	Coal and coke	32,335
20	Crude petroleum	333
21	Other petroleum products	33 (except 333,335)
22	Natural gas	34
23	Liquid bulk chemicals	511
24	Other chemicals	51 (except 511), 52,53
25	Pharmaceuticals, toiletries	54,55
26	Explosives, plastics, chemical products	57,58,59
27	Leather and rubber materials, textiles	61,62,65 (except 658,659)
28	Paper and paper manufactures	64
29	Other nonmetallic mineral and metal manufactures	66 (except 661,665,666), 69 (except 696,697,699)
30	Iron and steel	67
31	Nonferrous metals	68
32	Heavy industrial machinery and equipment	711,712,714,718,721,725,728,736,737
33	Light industrial machinery and equipment	713,716,724,726,727,741,742,743,745,749
34	Heavy transportation and construction equipment	722,723,744,782,783,786,791
35	Automobiles	781
36	Motorcycles, automotive parts	78 (except 781,782,783,786)
37	Aircraft and ships	79 (except 791)
38	Electrical equipment and parts	75,76,77
39	Consumer goods	658,659,665,666,696,697,699,8
40	Commodities and transactions N.E.S.	9

Vessel Type, Size Categories, and Codes

Type	DWT	Code
LINER:		
General Cargo	<10,000	AB
	>10,000	AA
Container	<10,000	AD
	>10,000	AC
Ro/Ro	<10,000	AF
	>10,000	AE
Other	<10,000	AH
	>10,000	AG
Reefer		BA
Multi-Deckers	<10,000	CB
	>10,000	CA
Bulk Carriers	<20,000	DA
	20,000 - 40,000	DB
	40,000 - 80,000	DC
	80,000 - 100,000	DD
	100,000 - 175,000	DE
	>175,000	DF
Combination Carriers	<20,000	EA
	20,000 - 40,000	EB
	40,000 - 80,000	EC
	80,000 - 100,000	ED
	100,000 - 175,000	EE
	>175,000	EF
Tankers	<10,000	FA
	10,000 - 40,000	FB
	40,000 - 80,000	FC
	80,000 - 100,000	FD
	100,000 - 175,000	FE
	175,000 - 250,000	FF
	>250,000	FG
Gas Tankers		GA
Heavy Lift		HA
Vehicle Carriers		HB

Vessel Deadweight/Draft Tables

Fleet Forecasts for the United States to 2020 has used deadweight capacity to measure vessel demand and supply, and to show the present and future composition of vessel fleets. To simplify the analyses and presentation of results, it also aggregated fleet capacities into a limited number of size ranges. To use the forecasts in Corps studies, it is necessary to relate the distributions of fleet capacity to the vessel dimensions that are relevant for study purposes--vessel drafts for channel deepening studies, vessel beam or length when channel width or bends are the problems.

The following tables have been prepared to facilitate use of the forecasts in channel deepening studies. The tables were produced by stratifying statistics for the current world fleet to show deadweight/draft relationships for specific types of vessels. Since the proportions of specific types of vessels change very little over time, the relationships shown are applicable to all forecast periods. There are three tables for each type of vessel. Average vessel deadweights are needed to calculate transportation cost by vessel size. Capacity distribution (total fleet deadweight and percent of total) are needed to calculate port transportation costs with and without channel deepening.

Because of variations in vessel geometry, actual average deadweights do not increase uniformly with design draft. Therefore, "smoothed" overall average deadweights are also shown. The "smoothed" deadweights are based on regression analyses using data for all vessels of each type shown. Analysis of the data showed almost all actual drafts were within the range of 15% less to 10% greater than the central trend (20% shallower in the case of containerships), and this is consistent with vessel design practice. There are deviations from the central trend due to Panama Canal and other constraints, but such deviations cannot be handled with the simple logarithmic curve used to produce smoothed drafts. Drafts for containerships also plateau at 43 feet for the largest sizes (50,000 dwt. and over) because of berth depths. Use of smoothed deadweights will avoid aberrations in channel deepening benefits (or negative benefits) using actual average sizes in the world fleet.

TANKER DEADWEIGHT/DRAFT RELATIONSHIPS

DESIGN DRAFT	AVERAGE TANKER DEADWEIGHT BY DRAFT.....							ACTUAL	SMOOTHED
	DEADWEIGHT SIZE CATEGORIES.....							AVERAGE	AVERAGE
	<10000	10K-40K	40K-80K	80K-100K	100K-175K	175K-250K	>250K	DWT	DWT
<15	3509							3509	NA
15	2136							2136	2288
16	2449							2449	2805
17	3117							3117	3396
18	3712							3712	4066
19	3764							3764	4822
20	4071							4071	5669
21	5181							5181	6611
22	5568	10935						5640	7656
23	5979	15243						8202	8808
24	6838	12621						8731	10073
25	8498	13287						11763	11457
26	8711	15855						13754	12965
27	9339	14909						14030	14604
28		16272						16272	16379
29		16503						16503	18295
30		20128	46624					21758	20359
31		22179	54381					22425	22577
32		25219						25219	24954
33		28373	42039					31697	27497
34		30462	47023					31938	30211
35		31553	47187					32465	33103
36		33259	52863					34527	36178
37		34442	44223					36805	39443
38		36766	49132					42517	42903
39		34510	54245	81283		113512		52357	46566
40		39181	59803	85226		112500		72242	50436
41			56516	85921				62234	54520
42			64043	86990				71608	58824
43			64295	86475	151630			75674	63355
44			63455	87572	121293			78488	68118
45			67266	89703	101032			84456	73121
46			71002	89225	108983			88972	78368
47			61528	93440	107557			93665	83867
48			77102	90123	110711			99613	89624
49				93801	118815			107445	95645
50			69999	97187	126724			120884	101936
51				98319	126416			117476	108505
52				83935	129774	180305		117778	115356
53				83957	136450			115453	122498
54				99900	131604	180377		132608	129935
55					131854			131854	137675
56				81282	146749			145742	145724
57					145547	178380		152843	154089
58					138849	176162		151287	162775
59						195097	256000	203797	171790
60									181141
61					159571	233344	258000	212040	190833
62					173792	223256		210890	200873
63					159999	229644	258055	232787	211268
64						231579	259399	240431	222024
65						232598	255610	244530	233149
66						228143	260105	254294	244648
67						236466	266636	261836	256529
68						235027	271545	260995	268798
69							274828	274828	281461
70						225770	277997	264070	294526
71							279910	279910	307999
72							297455	297455	321887
73							329819	329819	336196
74							398848	398848	350934
75							362793	362793	366107
76							393168	393168	381722
>76							453574	453574	NA

TANKER DEADWEIGHT/DRAFT RELATIONSHIPS

DESIGN DRAFT	TOTAL TANKER FLEET DEADWEIGHT BY DRAFT.....						TOTAL	
	DEADWEIGHT SIZE CATEGORIES.....						DMT	
	<10000	10K-40K	40K-80K	80K-100K	100K-175K	175K-250K	>250K	ALL SIZES
<15	701875							701875
15	301184							301184
16	345279							345279
17	501837							501837
18	393466							393466
19	451691							451691
20	333837							333837
21	429997							429997
22	824110	21870						845980
23	454402	365832						820234
24	253016	227184						480200
25	59488	199305						258793
26	130667	570792						701459
27	28016	238550						266566
28		992569						992569
29		709646						709646
30		1227798	186494					1414292
31		2883286	54381					2937667
32		1992281						1992281
33		1588885	756702					2345587
34		2802497	423207					3225704
35		3565509	330310					3895819
36		7217281	792950					8010231
37		3891973	1592035					5484008
38		1764790	1523081		113512			3401383
39		379614	3037715	81283	113996			3612608
40		274269	3887174	6562393	112500			10836336
41			3277920	1202896				4480816
42			3906649	2609703				6516352
43			2443212	2853671	3442			5300325
44			1522928	3065030	121293			4709251
45			807190	2960198	202064			3969452
46			213005	4907353	217966			5338324
47			123056	2149116	537787			2809959
48			77102	1261720	1549951			2888773
49				1876027	2851552			4727579
50			69999	485933	3674994			4230926
51				688234	1896244			2584478
52				839351	2984798	180305		4004454
53				503740	1228048			1731788
54				99900	1974066	180377		2254343
55					11998718			11998718
56				81282	9391932			9473214
57					2037656	713520		2751176
58					277698	713520		991218
59						1170579	256000	1426579
60								0
61					797857	1866750	516000	3180607
62					521376	2009307		2530683
63					521376	2066796	1032220	3620392
64						6947362	3631583	10578945
65						6047544	7157093	13204637
66						1368859	7022848	8391707
67						1655260	9865533	11520793
68						3055346	8689444	11744790
69							10168629	10168629
70						903080	3057968	3961048
71							3918739	3918739
72							5949102	5949102
73							19129490	19129490
74							4387327	4387327
75							2176755	2176755
76							1179504	1179504
>76							4535739	4535739
Total	5208865	30913931	25025110	32227830	43128826	28878605	92673974	258057141

TANKER DEADWEIGHT/DRAFT RELATIONSHIPS

DESIGN DRAFT	PERCENTAGE DISTRIBUTION TANKER FLEET CAPACITY BY DRAFT.....						OVERALL PERCENT	
	DEADWEIGHT SIZE CATEGORIES.....						DWT	
	<10000	10K-40K	40K-80K	80K-100K	100K-175K	175K-250K	>250K	
<15	0.272						0.272	
15	0.117						0.117	
16	0.134						0.134	
17	0.194						0.194	
18	0.152						0.152	
19	0.175						0.175	
20	0.129						0.129	
21	0.167						0.167	
22	0.319	0.008					0.328	
23	0.176	0.142					0.318	
24	0.098	0.088					0.186	
25	0.023	0.077					0.100	
26	0.051	0.221					0.272	
27	0.011	0.092					0.103	
28		0.385					0.385	
29		0.275					0.275	
30		0.476	0.072				0.548	
31		1.117	0.021				1.138	
32		0.772					0.772	
33		0.616	0.293				0.909	
34		1.086	0.164				1.250	
35		1.382	0.128				1.510	
36		2.797	0.307				3.104	
37		1.508	0.617				2.125	
38		0.684	0.590		0.044		1.318	
39		0.147	1.177	0.031	0.044		1.400	
40		0.106	1.506	2.543	0.044		4.199	
41			1.270	0.466	0.000		1.736	
42			1.514	1.011	0.000		2.525	
43			0.947	1.106	0.001		2.054	
44			0.590	1.188	0.047		1.825	
45			0.313	1.147	0.078		1.538	
46			0.083	1.902	0.084		2.069	
47			0.048	0.833	0.208		1.089	
48			0.030	0.489	0.601		1.119	
49				0.727	1.105		1.832	
50			0.027	0.188	1.424		1.640	
51				0.267	0.735		1.002	
52				0.325	1.157	0.070	1.552	
53				0.195	0.476	0.000	0.671	
54				0.039	0.765	0.070	0.874	
55				0.000	4.650	0.000	4.650	
56				0.031	3.639	0.000	3.671	
57					0.790	0.276	1.066	
58					0.108	0.276	0.384	
59					0.000	0.454	0.553	
60					0.000	0.000	0.000	
61					0.309	0.723	1.233	
62					0.202	0.779	0.981	
63					0.202	0.801	1.403	
64						2.692	4.099	
65						2.343	5.117	
66						0.530	3.252	
67						0.641	4.464	
68						1.184	4.551	
69						0.000	3.940	
70						0.350	1.535	
71							1.519	
72							2.305	
73							7.413	
74							1.700	
75							0.844	
76							0.457	
>76							1.758	
Total	2.018	11.979	9.698	12.489	16.713	11.191	35.912	100.000

BULK CARRIER DEADWEIGHT/DRAFT RELATIONSHIPS

..... AVERAGE BULK CARRIER DEADWEIGHT BY DRAFT.....							ACTUAL	SMOOTHED
DESIGN.....	..... SIZE RANGES (000 DWT).....						AVERAGE	AVERAGE
DRAFT	<20	20-40	40-80	80-100	100-175	>175	DWT	DWT
23	12721						12721	8353
24	12366						12366	9574
25	14034	22916					15144	10912
26	12137	22356					14524	12374
27	13125	28398					13464	13964
28	15266	37564					16897	15691
29	16090	23068					16210	17558
30	17246	24277					18289	19573
31	18185	24485					21344	21742
32	19344	25154					24780	24071
33	18205	26776	49662				26681	26565
34		28092	43773				28573	29233
35		32775	42585				33926	32078
36		34720	42947				36972	35109
37		37050	44395				39499	38331
38		37692	46254				42574	41751
39		37879	46614	87916			45344	45376
40		39722	56284				56163	49211
41			60001	87179			60424	53263
42			63314	86942			64139	57539
43			65948				65948	62046
44			67069	92067			67426	66790
45			71342	85014	111695		73946	71778
46			73578	81853			76268	77016
47			74439	80013			74717	82511
48			70304	80694	108992		92245	88270
49			75390	94413	112669		103445	94300
50					124244		124244	100607
51					111942		111942	107199
52					125013		125013	114082
53					137334	183063	139461	121263
54					135086		135086	128749
55					132221		132221	136547
56					148471	186739	158454	144664
57					152749	203723	160208	153107
58					146819	184259	159299	151882
59					162331	197013	189581	170998
60						198997	198997	160461
61					153265	197986	183079	190278
62								200457
63						240000	240000	211003
64								221926
65						225362	225362	233231
66								244927
67						260000	260000	257019

BULK CARRIER DEADWEIGHT/DRAFT RELATIONSHIPS

.....TOTAL BULK CARRIER FLEET DEADWEIGHT BY DRAFT.....							TOTAL
DESIGN.....	.....SIZE RANGES (000 DWT).....					DWT	
DRAFT	<20	20-40	40-80	80-100	100-175	>175	ALL SIZES
23	101765						101765
24	49464						49464
25	98238	22916					121154
26	97092	67068					164160
27	577493	28398					605891
28	580104	112693					692797
29	1850391	46136					1896527
30	2673159	655486					3328645
31	3473406	4701159					8174565
32	502935	9508119					10011054
33	163842	8541460	99324				8804626
34		7978020	393954				8371974
35		15535366	2682851				18218217
36		9027100	4208766				13235866
37		5112954	3063244				8176198
38		1846929	3006481				4853410
39		643946	3123117	87196			3854259
40		39722	7654611				7694333
41			11400205	261536			11661741
42			5255088	260826			5515914
43			10617669				10617669
44			4627758	92067			4719825
45			2853677	510082	111695		3475454
46			1986609	1064094			3050703
47			1414334	80013			1494347
48			140608	161387	435968		737963
49			150779	377651	1126686		1655116
50					745465		745465
51					1007474		1007474
52					4000419		4000419
53					5630690	366126	5996816
54					5403423		5403423
55					4098863		4098863
56					2524003	1120433	3644436
57					5346200	1222337	6568537
58					1468186	921293	2389479
59					486993	2167144	2654137
60						2387959	2387959
61					4293	395971	400264
62							0
63						240000	240000
64							0
65						1352172	1352172
66							0
67						520000	520000
Total	10167889	63867472	62679075	2894852	32390358	10693435	182693.81

BULK CARRIER DEADWEIGHT/DRAFT RELATIONSHIPS

DESIGN.....	PERCENTAGE DISTRIBUTION BULK CARRIER FLEET CAPACITY BY DRAFT						TOTAL FLEET CAPACITY
	SIZE RANGES (000 DWT).....						
DRAFT	<20	20-40	40-80	80-100	100-175	>175	
23	0.056						0.056
24	0.027						0.027
25	0.054	0.013					0.066
26	0.053	0.037					0.090
27	0.316	0.016					0.332
28	0.318	0.062					0.379
29	1.013	0.025					1.038
30	1.463	0.359					1.822
31	1.901	2.573					4.474
32	0.275	5.204					5.480
33	0.090	4.675	0.001				4.819
34		4.367	0.002				4.583
35		8.504	0.015				9.972
36		4.941	0.023				7.245
37		2.799	0.017				4.475
38		1.011	0.016				2.657
39		0.352	0.017	0.048			2.110
40		0.022	0.042	0.000			4.212
41			0.062	0.143			6.383
42			0.029	0.143			3.019
43			0.058	0.000			5.812
44			0.025	0.050			2.583
45			0.016	0.279	0.061		1.902
46			0.011	0.582	0.000		1.670
47			0.008	0.044	0.000		0.818
48			0.001	0.088	0.239		0.404
49			0.001	0.207	0.617		0.906
50					0.408		0.408
51					0.551		0.551
52					2.190		2.190
53					3.082	0.200	3.282
54					2.958	0.000	2.958
55					2.244	0.000	2.244
56					1.382	0.613	1.995
57					2.926	0.669	3.595
58					0.804	0.504	1.308
59					0.267	1.186	1.453
60					0.000	1.307	1.307
61					0.002	0.217	0.219
62						0.000	0.000
63						0.131	0.131
64						0.000	0.000
65						0.740	0.740
66						0.000	0.000
67						0.285	0.285
Total	5.566	34.959	34.308	1.585	17.729	5.853	100.000

LINER VESSEL DEADWEIGHT/DRAFT RELATIONSHIPS

.....AVERAGE LINER-TYPE VESSEL DEADWEIGHT BY DRAFT.....

DESIGN DRAFT (FEET)	.....GENERAL CARGO VESSELS.....				.....CONTAINER VESSELS.....				.....RO-RO VESSELS.....			
	DEADWEIGHT SIZES		OVERALL SMOOTHED DEADWEIGHT SIZES		DEADWEIGHT SIZES		OVERALL SMOOTHED DEADWEIGHT SIZES		DEADWEIGHT SIZES		OVERALL SMOOTHED	
	<10000	>10000	AVERAGE	AVERAGE	<10000	>10000	AVERAGE	AVERAGE	<10000	>10000	AVERAGE	AVERAGE
<15	2251		2251	2229	2574		2574	2180	1819		1819	2007
15	2644		2644	2642	2625		2625	2645	3309		3309	2428
16	3538		3538	3098	3735		3735	3169	3210		3210	2902
17	3312		3312	3597	3972		3972	3755	3941		3941	3431
18	3884		3884	4141	3928		3928	4407	3759		3759	4018
19	4711		4711	4732	4486		4486	5128	4272		4272	4664
20	4528		4528	5369	6000	10164	6320	5920	5783	10300	5838	5374
21	6119		6119	6055	6961		6961	6786	5746	11256	6205	6149
22	7140		7140	6791	7249	10731	7556	7730	6795	11032	6963	6992
23	6250	12186	6910	7577	6995	10758	7650	8755	8032	10215	8294	7905
24	6886	11717	7293	8415	8417	13439	9254	9863	7882	11725	8473	8891
25	7612	11689	8677	9306	8776	11766	9225	11057	7505	10745	9567	9951
26	8369	12537	9949	10251	8465	14096	12357	12341	8500	14793	14203	11089
27	8548	13579	11771	11250	9207	14344	14095	13717	5618	21394	16135	12307
28	9133	13221	11917	12305		13790	13790	15187		14548	14548	13607
29	8477	14534	14488	13417		14536	14536	16755	8301	14677	13260	14992
30	9368	15511	15447	14586		19474	19474	18424	8450	20812	20125	16463
31		16916	16916	15814		20548	20548	20195		15660	15660	18023
32		18001	18001	17101		21036	21036	22073		21849	21849	19674
33		18155	18155	18448		23168	23168	24059		19051	19051	21419
34		22380	22380	19857		28007	28007	26157		23980	23980	23259
35		21860	21860	21327		30409	30409	28369		30264	30264	25197
36		25663	25663	22861		35722	35722	30697		44026	44026	27235
37				24458		34263	34263	33145				29376
38				26120		39621	39621	35715		31365	31365	31620
39		41687	41687	27847		41797	41797	38409				
40						40071	40071	41231				
41						45002	45002	44183				
42						46759	46759	47267				
43						51757	51757	50486				

LINER VESSEL DEADWEIGHT/DRAFT RELATIONSHIPS

.....TOTAL LINER-TYPE FLEET DEADWEIGHT BY DRAFT.....									
DESIGN DRAFT (FEET)	..GENERAL CARGO VESSELS..		....CONTAINER VESSELS....			.....RO-RO VESSELS.....			TOTAL DWT
	DEADWEIGHT <10000	SIZES >10000	TOTAL DWT	DEADWEIGHT <10000	SIZES >10000	TOTAL DWT	DEADWEIGHT <10000	SIZES >10000	
<15	380462		380462	90085		90085	247716		247716
15	195647		195647	23625		23625	138991		138991
16	339620		339620	85896		85896	192620		192620
17	304740		304740	23831		23831	201002		201002
18	330113		330113	78564		78564	184200		184200
19	325031		325031	112153		112153	170894		170894
20	344110		344110	144004	20328	164332	462605	10300	472905
21	648644		648644	278442		278442	252821	45023	297844
22	878186		878186	224709	32192	256901	496066	33096	529162
23	350024	85301	435325	132913	43031	175944	176705	30644	207349
24	599108	93734	692842	42086	13439	55525	173400	46900	220300
25	753564	409108	1162672	298385	70598	368983	30021	75217	105238
26	493774	451337	945111	177767	662525	840292	25500	429000	454500
27	393229	1113514	1506743	27621	846272	873893	22473	171148	193621
28	273993	846164	1120157		510248	510248		378243	378243
29	8477	1889475	1897952		188962	188962	16602	102737	119339
30	28105	4451618	4479723		837397	837397	16900	707594	724494
31		4854912	4854912		1582169	1582169		438487	438487
32		2610182	2610182		946602	946602		262189	262189
33		1797343	1797343		1668078	1668078		723946	723946
34		1544209	1544209		2436571	2436571		407667	407667
35		262320	262320		2371913	2371913		484224	484224
36		76990	76990		1964720	1964720		132079	132079
37			0		1815959	1815959			
38			0		4516769	4516769		94094	94094
39		166749	166749		2089863	2089863			
40					160285	160285			
41					1395067	1395067			
42					187035	187035			
43					2122027	2122027			
Total	6646827	20652956	27299783	1740081	26482050	28222131	2808516	4572588	7381104

LINER VESSEL DEADWEIGHT/DRAFT RELATIONSHIPS

.....PERCENTAGE DISTRIBUTION LINER-TYPE FLEET CAPACITY BY DRAFT.....

DESIGN DRAFT (FEET)	..GENERAL CARGO VESSELS..		....CONTAINER VESSELS....		.....RO-RO VESSELS.....				
	DEADWEIGHT <10000	SIZES >10000	TOTAL DWT	DEADWEIGHT <10000	SIZES >10000	TOTAL DWT	DEADWEIGHT <10000	SIZES >10000	TOTAL DWT
<15	1.394		1.394	0.319		0.319	3.356		3.356
15	0.717		0.717	0.084		0.084	1.883		1.883
16	1.244		1.244	0.304		0.304	2.610		2.610
17	1.116		1.116	0.084		0.084	2.723		2.723
18	1.209		1.209	0.278		0.278	2.496		2.496
19	1.191		1.191	0.397		0.397	2.315		2.315
20	1.260		1.260	0.510	0.072	0.582	6.267	0.140	6.407
21	2.376		2.376	0.987	0.000	0.987	3.425	0.610	4.035
22	3.217		3.217	0.796	0.114	0.910	6.721	0.448	7.169
23	1.282	0.312	1.595	0.471	0.152	0.623	2.394	0.415	2.809
24	2.195	0.343	2.538	0.149	0.048	0.197	2.349	0.635	2.985
25	2.760	1.499	4.259	1.057	0.250	1.307	0.407	1.019	1.426
26	1.809	1.653	3.462	0.630	2.348	2.977	0.345	5.812	6.158
27	1.440	4.079	5.519	0.098	2.999	3.096	0.304	2.319	2.623
28	1.004	3.100	4.103		1.808	1.808	0.000	5.124	5.124
29	0.031	6.921	6.952		0.670	0.670	0.225	1.392	1.617
30	0.103	16.306	16.409		2.967	2.967	0.229	9.587	9.816
31		17.784	17.784		5.606	5.606		5.941	5.941
32		9.561	9.561		3.354	3.354		3.552	3.552
33		6.584	6.584		5.911	5.911		9.808	9.808
34		5.656	5.656		8.634	8.634		5.523	5.523
35		0.961	0.961		8.404	8.404		6.560	6.560
36		0.282	0.282		6.962	6.962		1.789	1.789
37		0.000	0.000		6.435	6.435		0.000	0.000
38		0.000	0.000			16.004		1.275	1.275
39		0.611	0.611		7.405	7.405			
40					0.568	0.568			
41					4.943	4.943			
42					0.663	0.663			
43					7.519	7.519			
Total	24.348	75.652	100.000	6.166	93.834	100.000	38.050	61.950	100.000