



PANAMA CANAL COMMISSION

ANNUAL REPORT

FISCAL YEAR ENDED SEPTEMBER 30, 1984

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PANAMA CANAL COMMISSION

Balboa, Republic of Panama OFFICE OF THE ADMINISTRATOR

FROM THE ADMINISTRATOR

It is a pleasure to submit the annual report of the Panama Canal Commission, for fiscal year 1984, our fifth year of successful operation under the Panama Canal Treaty, and the year in which the Canal organization celebrated the seventieth anniversary of the opening of the Canal.

The recession in maritime trade and the loss of Alaska North Slope (ANS) oil traffic combined to make fiscal year 1984 one in which all major elements of Canal traffic declined. Nevertheless, the Commission continued to recover all costs from revenues in 1984, and ended the year with a small positive balance. This was due to effective cost-reduction efforts as well as to the full-year effect of a modest toll rate increase in March 1983.

Looking to a future in which Canal traffic is expected to increase, and taking advantage of current low traffic levels, management continued a capital program including improvements difficult to accomplish at higher levels of traffic such as channel dredging in the narrow Gaillard Cut where the Canal passes through the continental divide. This year the Commission also completed work on a new Tug/ Miter Gate Repair Facility and a new Marine Traffic Control closed circuit television (CCTV) vessel surveillance system. The latter will permit monitoring activity at critical locations along the length of the Canal and result in a safer operating environment for Canal users. Canal equipment continued to be maintained at a high level or replaced with technologically improved equipment as necessary.

Attention to the equally important human side of the enterprise, the key to the future of the Canal, is shown by the considerable resources which were dedicated to training. Emphasis on training, in order to effectively increase participation by Panamanians at all levels of the Commission, continued to receive priority attention. Panamanian citizens now comprise approximately 78 percent of the work force and are increasingly involved at all management levels.

Please be assured that we at the Commission will continue to meet the challenges of the future in carrying out our mission of providing cost-effective, safe and efficient transit service to the maritime industry.

D.P. Mc

Administrator.

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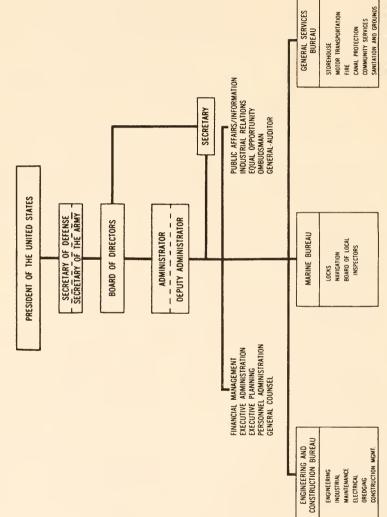
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PANAMA CANAL COMMISSION



September 1984

INTRODUCTION

ORGANIZATION

The Panama Canal Commission is an agency of the Executive Branch of the United States Government, provided for by the Panama Canal Treaty of 1977, and established by the Panama Canal Act of 1979 (93 Stat. 452; 22 U.S.C. 360l et seq), enacted September 27, 1979. The authority of the President of the United States with respect to the Commission is exercised through the Secretary of Defense and the Secretary of the Army. The Commission is supervised by a nine-member Board. Five members are nationals of the United States and four are Panamanians. Board members who are U.S. nationals are appointed by the President with the advice and consent of the Senate.

The Commission was established to carry out the responsibilities of the United States with respect to the Panama Canal under the Panama Canal Treaty of 1977. In fulfilling these obligations, the Commission manages, operates, and maintains the Canal, its complementary works, installations, and equipment, and provides for the orderly transit of vessels through the Canal. The Commission will perform these functions until the treaty terminates on December 31, 1999, when the Republic of Panama will assume full responsibility for the Canal.

The Commission is expected to recover through tolls and other revenues all costs of operating and maintaining the Canal, including interest, depreciation, capital for plant replacement, expansion and improvements, and payments to the Republic of Panama for public services and annuities, in accordance with paragraph 5 of Article III and paragraphs 4(a) and (b) of Article XIII, respectively, of the Panama Canal Treaty of 1977. Revenues from tolls and all other sources are deposited in the U.S. Treasury in an account known as the Panama Canal Commission Fund. Appropriations for operating expenses and capital improvements are enacted annually by the Congress and are limited to the sum of the estimated receipts for the year, plus any unexpended balances in the Panama Canal Commission Fund.

THE CANAL

The Panama Canal is a lock-type canal approximately 51 miles long from deep water to deep water. The minimum width of the navigable channel is 500 feet. Navigable channel depth varies according to the amount of water available in Canal storage areas. The normal range of permissible transit draft is from 38 feet to 39 feet 6 inches tropical fresh water.

INTRODUCTION

Vessels transiting the Canal are raised in three steps to the level of Gatun Lake, the principal source of Canal water, then lowered to sea level again in three steps. The three sets of Canal locks are paired so as to permit simultaneous lockage of two vessels in the same direction or in opposite directions.

Since August 15, 1914, the official date of its opening, the Panama Canal has served world trade virtually without interruption. Through this fiscal year, a total of 638,033 vessels of all types have transited with 534,569 or 83.8 percent of the total being of the oceangoing commercial class.

TOLLS RATES

Panama Canal tolls rates were increased approximately 9.8 percent on March 12, 1983. Tolls rates are: (a) On merchant vessels, Army and Navy transports, tankers, hospital ships, supply ships, and yachts, when carrying passengers or cargo: \$1.83 per net vessel ton of 100 cubic feet of actual earning capacity. Such tonnage is determined in accordance with the "Rules of Measurement of Vessels for the Panama Canal;" (b) on such vessels in ballast, without passengers or cargo: \$1.46 per net vessel ton; and (c) on other floating craft: \$1.02 per ton of displacement.

By treaty, the United States continues to provide to Colombia free transit through the Canal of its troops, materials of war, and ships of war.

PANAMA CANAL COMMISSION

BOARD OF DIRECTORS Ending Fiscal Year 1984

Honorable WILLIAM R. GIANELLI, Chairman, Board of Directors Panama Canal Commission 2000 L Street, N.W., Suite 550 Washington, D.C. 20036

Honorable LUIS A. ANDERSON Secretary General Interamerican Regional Labor Organization Postal Box 7039 Mexico, D.F. 0600

Honorable JOHN A. BUSHNELL Deputy Chief of Mission U.S. Embassy Buenos Aires, Argentina

Honorable FERNANDO CARDOZE Panama, Republic of Panama Honorable ANDREW E. GIBSON Short Hills, New Jersey

Honorable OYDEN ORTEGA Minister of Foreign Relations Panama, Republic of Panama

His Excellency CARLOS OZORES Vice President Panama, Republic of Panama

Honorable WILLIAM SIDELL Poway, California

Honorable WILLIAM W. WATKIN, Jr. Beaufort, South Carolina

Executive Committee

Honorable WILLIAM R. GIANELLI, Chairman Honorable FERNANDO CARDOZE Honorable OYDEN ORTEGA Honorable WILLIAM SIDELL Honorable WILLIAM W. WATKIN, Jr.

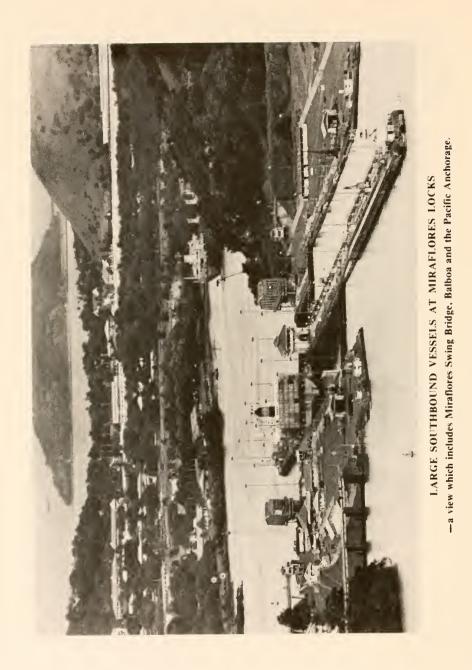
Cut Widening Feasibility Committee

Honorable FERNANDO CARDOZE, Chairman Honorable Andrew Gibson Honorable Oyden Ortega Honorable William W. Watkin, Jr.

OFFICIALS IN THE REPUBLIC OF PANAMA

OFFICIALS IN WASHINGTON, D.C.

Secretary MICHAEL RHODE, Jr.



Chapter I CANAL TRAFFIC

TRAFFIC

All major elements of Canal traffic declined during fiscal year 1984 from the already depressed levels registered in the prior year. Tolls revenue, however, increased due to the full-year impact of the toll rate increase implemented March 12, 1983. The full-year effect of the loss of the Alaska North Slope (ANS) oil and the continued recession in maritime trade through the first half of the year were the major factors in the traffic drop experienced during the year.

Oceangoing transits in fiscal year 1984 decreased 3.9 percent to 11,384 or 31.1 vessels daily from 11,846 or 32.5 daily the prior year. Vessels owned or operated by the U.S. Government and free Colombian and Panamanian Government vessels made 154 transits during the year compared with 139 transits in fiscal year 1983.

Growth in ship size was not evident during fiscal year 1984, as a result of a decline in transits by large tankers and PANAMAX size vessels carrying grains and coal. Transits by vessels having beams of 80 feet and over accounted for 5,496 or 48.3 percent of total oceangoing transits compared with 5,869 or 49.5 percent of total oceangoing transits in the prior year. In fiscal year 1984, vessels having beams of 100 feet and over declined 8.5 percent to 2,170 or 19.1 percent of total oceangoing transits from 2,371 or 20 percent of total oceangoing transits in fiscal year 1983. Average size of oceangoing commercial transits, in terms of Panama Canal net tonnage, also declined slightly. Oceangoing commercial vessels averaged 14,461 Panama Canal net tons in fiscal year 1983.

Total Panama Canal net tonnage dropped 4.0 percent to 163.8 million in fiscal year 1984 from 170.7 million tons in the prior year. Despite the decline in Panama Canal net tonnage, tolls revenue rose 0.5 percent to \$289.2 million from the \$287.8 million of the prior year.

A two-year summary of the principal elements of Canal traffic and tolls revenue is shown in the following table:

	Fiscal year		
	1984	1983	
Oceangoing transits:	11.000		
Commercial	11,230	11,707	
U.S. Government Free	137 17	125	
Total	11,384	11,846	
Daily average	31.1	32.5	
Small transits:			
Commercial	802	810	
U.S. Government	241	242	
Free	96	56	
Total	1,139	1,108	
Total cargo:			
Commercial	140,471,470	145,591,428	
U.S. Government	329,607	354,878	
Free	59	2,512	
Total	140,801,136	145,948,818	
Total Panama Canal net tons and reconstructed displace-			
ment tonnage	163,833,038	170,655,341	
Transit revenue:			
Commercial tolls	\$286,754,765	\$286,057,692	
U.S. Government tolls	2,400,270	1,733,331	
Tolls revenue	\$289,155,035	\$287,791,023	
Harbor pilotage, tug, launch, and other services	58,931,942	55,381,005	
Total transit revenue	\$348,086,977	\$343,172,028	

COMPARATIVE HIGHLIGHTS OF OPERATIONS

COMMODITIES AND TRADE ROUTES

Oceangoing commercial cargo totaled 140.5 million long tons during fiscal 1984, with twelve key commodity groups accounting for 86.2 percent of that total. The groups, shown on page 11, have maintained relatively stable levels of importance to Canal traffic in recent years. In 1983, the proportion observed for these commodity groups was 88.4 percent.

Despite the decline in crude oil movements, petroleum and products ranked as the principal commodity group in fiscal year 1984, accounting for 21.8 percent of total oceangoing commercial cargo. Shipments of petroleum and products totaled 30.7 million long tons, down by 9.4 percent from 33.9 million long tons the prior year. Crude oil, which totaled 14.2 million tons, dropped from the 18.7 million long tons in fiscal year 1983 as a result of the full-year effect of the loss of the ANS trade. This decline was partially offset by the movement of petroleum products increasing to 16.5 million tons from 15.2 million tons in 1983.

, PANAMA CANAL COMMISSION

The second major commodity group in fiscal year 1984 was grain, accounting for 20.0 percent of commercial cargo. Grain shipments totaled 28.1 million long tons, showing a substantial 23 percent decline from the 36.5 million tons registered in fiscal year 1983. Almost the entire drop in this commodity group was due to a sharp decline in the corn movement which offset a marked improvement in the wheat trade. Corn shipments were down by 56.1 percent to 9.5 million tons from the record 21.6 million tons reached the prior year. The decline resulted from a diversion of U.S. corn exports to West Coast ports, a drought which severely reduced U.S. corn production, and increased competition from Canada, Australia, and Argentina-in part, as a result of the strength of the U.S. dollar. The diversion of corn exports to West Coast ports can be attributed to a number of factors such as lower ocean rates from the West Coast during the period, railroad contract haulage rates and the effect of the drought last year in sections of the Midwest. The improvement shown by the wheat movement, which increased by 60.7 percent to 9 million long tons from 5.6 million tons the prior year, was largely due to a resumption of U.S. exports to China. U.S. exports to China via the Canal increased from 1.9 million tons to 4.2 million tons in 1984. Rice, barley, and miscellaneous grains showed increases during the year while the remaining products in the group-soybeans, sorghum and oats-reflected lower tonnages. Grain shipments from the U.S. to the Far East constituted 74.0 percent of the total movement, with Japan, China, and Taiwan being the principal destinations.

Coke and coal, the third commodity group in Canal traffic, continued depressed in 1984, dropping from the 10.7 million tons registered last year to 10 million tons. The group accounted for 7.1 percent of total oceangoing commercial cargo. The weak coal trade reflected a number of factors, including low steel production levels in Japan, a declining U.S. market share in Japanese imports, and an increase in the proportion of U.S. coal exports bypassing the Canal. Coal shipments to Japan totaled 5.5 million tons, or 55 percent of the trade, and shipments to Taiwan and South Korea accounted for 2.3 million tons, or 23 percent of the coal and coke commodity group. The coal bypass movement via the Cape of Good Hope this year was 45 percent of the total U.S. East Coast coal shipped to the Far East, compared with 40 percent in fiscal year 1983.

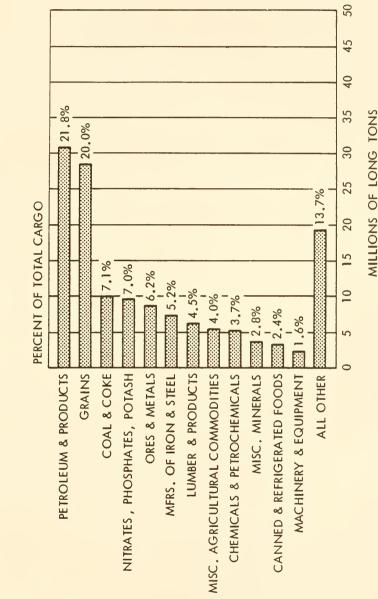
With the exception of canned and refrigerated foods, which declined by 2.9 percent to 3.3 million tons, all other major commodity groups experienced gains during the year. One notable improvement was the increase shown by manufactures of iron and steel which had been registering annual declines during the last few years. This commodity group totaled 7.3 million long tons, increasing by 40.4 percent over the prior year. Nitrates, phosphates, and potash increased by 5.3 percent to 9.9 million tons; ores and metals rose by 8.8 percent to 8.7 million tons; lumber and products was up by 8.5 percent to 6.4 million tons; miscellaneous agricultural products increased by 3.7 percent to 5.6 million tons; chemicals and petroleum chemicals rose by 4.0 percent to 5.2 million tons;

miscellaneous minerals increased by 18.2 percent to 3.9 million tons; and machinery and equipment rose by 10.0 percent to 2.2 million tons.

Trade between the East Coast of the United States and Asia continued to dominate Canal traffic, with nearly 39.3 percent of the total commercial cargo moving over this route. The total cargo tonnage plying the U.S. East Coast-Asia route declined again this year, however, from 60.3 million long tons to 55.2 million tons, a drop of 8.5 percent.

The following chart and table show the principal commodity groups moving in oceangoing commercial vessels in 1984 and a comparison of the major trade routes in fiscal years 1984 and 1983.

PRINCIPAL COMMODITY GROUPS TRANSITING THE CANAL OCEANGOING COMMERCIAL CARGO FY 1984



Major Trade Routes in Canal Traffic

Fiscal vear

(1.0)27.2 29.6 69.4) 10.4) (8.5) 4.0 (6.3) (5.0)3.5) 5.0 Long Tons argo 26.4 14.7 12.3 4.7 Percent increase (decrease) (4.2)(5.6)(6.2) Panama (5.5) 67.0) (5.7) (4,4) (6.3)5.1) 7.4 (8.3) 36.8 23.7 20.2) 6.8 Canal Tons Net 5.247 4,764 4.239 3,260 3.590 2,866 ,178 2.086 3,824 23,319 50.322 2,425 ,518 22.272 45.591 Cargo Tons Long 1983 3,328 26,543 69,504 8,014 3,590 5.510 3,613 [In thousands of tons] 5,633 142,961 56.46 7.40 8,33(4,47 anama Canal Tons Net 4,119 23,316 4,120 2,343 4,704 4,464 4.864 5.229 4,288 4.281 117,155 2,303 3,061 40,471 3.37 Tons argo Suor 1984 4,339 7,350 5,320 4,218 4,944 4,442 3,109 7,039 5.002 2,657 133,976 28.359 62,335 2,754 52.802 Panama Canal Ner Tons East Coast Canada-Asia...... Subtotal Europe-West Coast United States/Canada..... East Coast United States-West Coast Central America ¹..... Europe-West Coast South America East Coast United States/Canada-Oceania..... West Indies-West Coast South America Central American Intercoastal Europe-Oceania Fotal South American Intercoastal..... East Coast United States-West Coast South America Trade Route J.S. Intercoastal (including Alaska and Hawaii) East Coast United States-Asia

¹ In Canal trade route statistics, North Slope oil originating in Alaska is shown as transshipped cargo from Puerto Armuelles, Panama, if the vessel's voyage originated there.



Chapter II

CANAL OPERATIONS

Canal operations are comprised of Transit Operations and Maintenance and Related Canal Projects. The various functions are divided among a number of operating bureaus within the Canal agency.

TRANSIT OPERATIONS

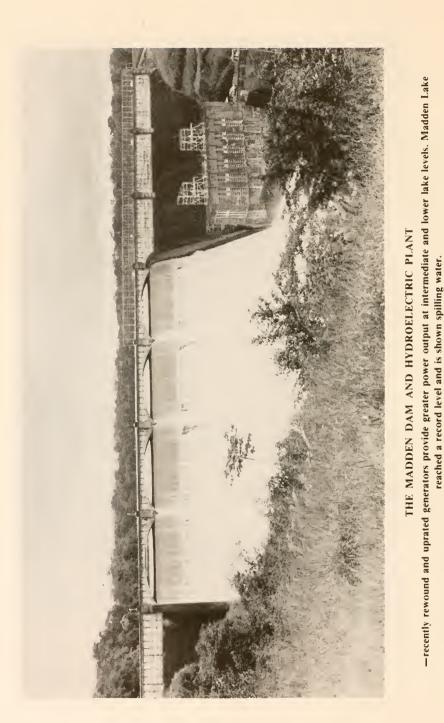
Daily average transits by oceangoing vessels decreased from the 32.5 per day during fiscal year 1983 to 31.1 per day during fiscal year 1984. Average time in Canal waters increased from 20.1 hours in fiscal year 1983 to 23.3 hours in fiscal year 1984.

Fiscal year	Vessels of 600-foot length and over	Percent of total oceangoing transits	Vessels of 80-foot beam and over	Percent of total oceangoing transits
1984	3,865	33.9	5,496	48.3
1983	4,157	35.1	5,869	49.5
1982	5,534	39.1	7,226	51.1
1981	4,855	34.7	6,364	45.5
1980	4,598	33.8	6,089	44.7
1979	4,089	31.3	5,503	42.1

The number of vessels transiting at more than 36-foot drafts remained about the same during FY 1984 with 1,716 such vessels transiting the Canal. The maximum allowable draft remained at 39 feet 6 inches during the entire fiscal year.

Total jobs performed by Commission tugs decreased from 35,454 in fiscal year 1983 to 33,796 in fiscal year 1984.

	Fiscal vear	
	1984	1983
Oceangoing transits Tug jobs:	11,384	11,846
Balboa	23,242	24,044
Cristobal	10,554	11,410
Tug operating hours	55,675	57,249



MAINTENANCE AND RELATED CANAL PROJECTS

During FY 1984, Canal dredging activities were dedicated primarily to intensified efforts on the channel-deepening project. At the beginning of fiscal year 1984, approximately one third of the Canal channel required deepening to about 37 feet above sea level. During the year, the Dredges *Mindi* and *R. M. Christensen* excavated nearly 3 million cubic yards of earth and rock, leaving only ten percent of the channel-deepening project uncompleted. This project is expected to be completed early in CY 1985. In other dredging-related maintenance work, the overhaul of the dipper dredge *Cascadas* was completed at the Industrial Division's Mount Hope facility.

In conjunction with the \$4 million Pedro Miguel Locks overhaul, Miter Gates 62, 63, 64, and 65 were overhauled between November 1983 and March 1984 for the first time in twenty years. Work performed by Commission forces included renewal of miter and quoin bearing plates, pintle and jaw bushings, bottom seals, strut arms and anchor castings. Much of the work performed in the west chamber phase was similar to that done earlier in the East Chamber, including lateral culvert clean out and construction of a modified sill. Other overhaul and major maintenance work included overhaul of Caisson No. 1 and continuing work on the rehabilitation of locks locomotive tow track systems. During the fiscal year, with the installation of wingwall-knuckle pneumatic tire fenders and conversion of the Machinery Transformer Room at Gatun from 240 to 480 volts, these projects were completed at all locks.

Extensions to each side of the Locomotive Component Repair Facility at Pedro Miguel Locks were added by private contractor forces. When fully equipped and staffed, this facility's capacity to overhaul towing locomotive traction units and windlasses will be significantly increased. Six locomotives were overhauled during fiscal year 1984, and ten to twelve units are expected to be overhauled during fiscal year 1985.

A new design replacement runner (waterside prime mover), was installed in the number 1 unit at the Madden Dam Power Plant. The older units regularly suffered from cavitation damage as a consequence of operation with a greater-than-designed hydraulic head. The new design will reduce recurring repair costs and also provide greater power output, at intermediate and lower lake levels, from the recently rewound and uprated generators. Replacement of the runners in the remaining two units is expected to be completed in fiscal year 1985. At Gatun Dam, all fourteen spillway gates were overhauled in place.

The contract to provide a modern Supervisory Control and Data Acquisition System (SCADA) for electrical power dispatching is progressing. Factory acceptance tests are scheduled for completion in January 1985 and installation of equipment will begin in March 1985. Other maintenance work, necessitated by the Mamei curve widening project, included the erection of new towers for navigational aids, range targets and lights.

Contract work on the construction of the new Tug/Miter Gate Facility at the Commission's Industrial Division in Mount Hope is complete except for correction of deficiencies. The Commission took possession prior to final acceptance of work under contract in order to be ready for the Gatun Locks overhaul which was scheduled to begin during October 1984.

Contract work on the Vessel Tie-Up Station was more than a year behind schedule when, in May of 1984, the contract was terminated and the Surety Company elected to complete the work. An experienced marine works contractor was engaged to complete the project and it is now progressing satisfactorily. The project is approximately 80 percent complete and should be finished by March 1985. The project to provide Commission Marine Traffic Controllers with a closed circuit television (CCTV) system for improved vessel surveillance along critical sections of the Canal has been completed and contractor work accepted.

Considerable miscellaneous maintenance work was accomplished as a part of treaty-mandated housing actions resulting from the relocation of transfer-of-function (TOF) Armed Forces civilian personnel and the movement of Commission personnel to core housing areas. Work on houses being transferred to the Republic of Panama on September 30, 1984, was completed on schedule and included units in Santa Cruz, Gamboa, Diablo and the Gavilan area of Balboa. The maintenance work on these housing units was limited to ensuring minimum standards of safety, serviceability, and sanitation.

Chapter III

SUPPORTING OPERATIONS

Supporting operations of the Panama Canal Commission provided essential support services to the operation and maintenance of the waterway and the Agency's facilities, as well as to other U.S. agencies on the Isthmus and to employees and their dependents. These operations included logistical services, employee services, sanitation and grounds management, transportation facilities, public utilities, fire protection, Canal protection, health and safety, and library services.

LOGISTICAL SERVICES

The Storehouse Division provided centralized procurement, inventory management, warehousing, distribution, contract administration, supply and property disposal support to Canal operations. A total of \$70 million in goods and services were procured during fiscal year 1984, including \$30.3 million from sources in Panama. Major contracting activities included approximately \$16.7 million in Bunker "C" fuel for thermoelectric power generation, \$7.8 million for light diesel fuel, \$3.4 million on a spud carriage system for the suction dredge *Mindi*, \$3.1 million for two split-hull dump barges, \$2.5 million for a harbor towboat, and \$1.0 million for premium gasoline.

Approximately \$22.4 million in Commission inventory items were issued, and \$19.3 million was obligated for new inventory purchases during the year. A total inventory of 39,364 line items with an average landed cost value of \$27,514,000 was on hand at year end. This represented a drawdown of over \$6.0 million from the previous year's level, representing high issues over purchases and an aggressive excess stock program implemented during the year.

The Excess Disposal Branch's activities included transfers to other U.S. Government agencies of equipment having an original acquisition value of approximately \$862,000, while property sold to the Government of Panama at fair market value amounted to approximately \$134,000.

The Commission continues to participate under the Military Sealift Command's contract out of the Gulf port of New Orleans, LA. Approximately 12,700 measurement tons of containerized and breakbulk cargo were shipped to the Port of Balboa under the contract. An additional 2,826 measurement tons of general cargo and vehicles were shipped under a commercial contract with an ocean freight transport service from the port of New Orleans to Las Minas, Panama, without experiencing any major problems.

COMMUNITY SERVICES

During fiscal year 1984, the Community Services Division managed employee housing, Commission-owned buildings, library services, and recreation facilities for the agency. Housing expenditures were concentrated on programs for enhancing quarters security, quarters energy conservation and preventive maintenance of aging quarters.

The Commission continued its multiyear housing management plan to concentrate its diminishing housing requirements in selected core housing areas. Implementation of the plan is enabling the Commission to utilize housing and related maintenance resources in the most cost-effective manner, while at the same time to preserve optimum housing accommodations for its eligible employees and to meet its responsibilities under the Panama Canal Treaty. A significant milestone was passed with the cessation of the five-year period, wherein certain civilian employees of the U.S. Armed Forces were entitled by the treaty to reside in Commission housing. In preparation for this event, over 700 housing relocations were mandated during the year, including some 400 transferof-function employees of the U.S. Armed Forces. At year's end, the use of 680 housing units (498 on the Pacific Side and 182 on the Atlantic Side) was transferred to the Republic of Panama.

The Library Services Branch is responsible for providing mission-support information and research to all units of the Commission and maintaining a special collection of library and three-dimensional materials relating to the history of the Panama Canal. On April 2, 1984, the Commission library was converted from a public library to a technical library, offering limited reference and research service to researchers and scholars and official service to the Commission.

SANITATION AND GROUNDS MANAGEMENT

Surveillance and control of biting insects and vermin capable of transmitting disease were continued in the Canal area sanitation program with emphasis on non-chemical control methods, such as drainage maintenance, in lieu of dispersement of chemical insecticides which stress the environment. Some 220 miles of surface water-drainage ditches were maintained to eliminate mosquito breeding around employee housing and work areas. While the 1,290 acres of Canal dredge spoil lagoons offer potentially ideal breeding conditions, preventive actions were successful in curbing mosquito infestations.

PANAMA CANAL COMMISSION

About 3,000 acres of improved grounds were maintained in and around Commission townsites, Commission buildings, and work areas. Vegetation control for the maintenance of aids to navigation, survey markers, utility lines, Canal bank stability drainage systems, and the various dams on Gatun Lake was continued by Commission forces. Grass cutting along utility line right of way was accomplished by contract forces.

Efforts to control and eliminate migrating swarms of Africanized honeybees continued. Commission and U.S. military bee control teams handled 741 cases in fiscal year 1984, as compared to 670 cases the previous year. Twelve transiting vessels required boarding by Commission bee control teams to destroy Africanized bee swarms in fiscal year 1984, while seven ships requested bee control service during fiscal year 1983. These control efforts are important in preventing the accidental ship transport of Africanized bees to noninfested world ports. Several incidents of severe stinging attacks have been reported from Panama during the past fiscal year; however, none have occurred within populated areas where Commission bee control efforts have been directed.

The Commission's sanitary landfill refuse disposal facilities handled 75,000 tons of refuse. Modest improvements begun last year were completed at the landfills, including employee rest rooms, telephone service, and entrance security fence.

TRANSPORTATION FACILITIES

The Motor Transportation Division operated and maintained a consolidated motor pool of 802 vehicles designed to meet the vehicular transportation requirements of the Commission. The vehicle fleet in fiscal year 1984 included 547 trucks of various types, 199 passenger-carrying vehicles, and 56 specialpurpose vehicles. Vehicle mileage decreased slightly from 7,501,000 miles in fiscal year 1983 to 7,170,000 miles in fiscal year 1984. Fully equipped shops, including a tire retreading plant and heavy duty repair shops, provide facilities for overhauls, maintenance and repairs to the Motor Transportation Division fleet and equipment of other Commission units. In addition, some services were contracted out where they were available in required quantity and quality in Panama. The vehicle inspection facilities located within the Motor Transportation Division areas were used by the Government of Panama to conduct inspections of privately-owned vehicles and by the Motor Transportation Division to perform Commission vehicle inspections.

PUBLIC UTILITIES AND ENERGY

Panama Canal Commission facilities include electric power generation and distribution systems, communication systems, water purification and distribution systems, and a central chilled water air conditioning system for certain public buildings on the Pacific side.

Total Canal area energy demand during fiscal year 1984 was 533 gigawatt hours, a 5.9 percent decrease from the 567 gigawatt hours used last year. The peak hourly demand of 84 megawatts reached on February 27, 1984, was 7.7 percent below the peak of 91 megawatts in the prior year. Agency-directed energy consumption in fiscal year 1984 for electrical power and fuel, calculated together in Btu's, was reduced a total of 25.6 percent in relation to the fiscal year 1975 baseline established by the Federal Energy Management Program. Electrical power consumption by the Commission, of 68.8 gigawatt hours, was 7.4 percent below the usage levels recorded for comparable operations in fiscal year 1975; fuel consumption, excluding fuel for power generation, of 4.6 million gallons, was 40.4 percent below the corresponding 1975 fiscal year baselines.

The water treatment and distribution systems operated by the Commission provide potable water for the Canal area and areas of the Republic of Panama. The Pacific side system serves the Canal area, Panama City, and suburban areas; and the separate Atlantic side system serves the Canal area, the city of Colon, and suburban areas. During fiscal year 1984, the two systems supplied 3,062 million cubic feet of potable water to consumers, a decrease of about 0.5 percent from the previous year. However, Panama City and suburbs consumption increased about 1.0 percent to an average of 34.2 million gallons per day.

FIRE PROTECTION

The Panama Canal Commission Fire Division, in coordination with the Panama Fire Corps, is responsible for fire protection, fire fighting, and rescue operations in Canal operating areas, defense sites, civilian and military areas of coordination, and shipboard fire fighting on all vessels in Canal Area waters.

During fiscal year 1984, there were 563 fires (excluding ships), causing a loss of \$384,952 as compared to 971 fires during fiscal year 1983 which resulted in a loss of \$233,262. Although there were 17 fires aboard ships with losses amounting to \$243,112 during this fiscal year compared to 14 ship fires and losses of \$17,670 the year before, this increase in ship fires does not constitute a threat to the Canal. The Commission continued to upgrade its fire fighting capability, and during fiscal year 1984 we initiated a 3-year program to upgrade our fire fighting facilities at the locks. A variety of hazardous material type emergencies totaled 26.

CANAL PROTECTION

The Canal Protection Division provides a minimum essential level of physical security for important installations and facilities of the Panama Canal Commission through the prevention and detection of theft, pilferage, and sabotage; and the prevention of unauthorized use of Government property, equipment and facilities. Division personnel are also responsible for the Commission physical environmental protection function. Physical security improvements planned the previous year were begun. Approximately one third of the funds have been spent and the remainder of the work is expected to be accomplished during fiscal year 1985.

HEALTH AND SAFETY

The Occupational Health Division and the Safety Division are components of the Office of Personnel Administration. The Personnel Director is the Designated Agency Safety and Health Official.

During fiscal year 1984, the Commission experienced 675 performance of duty accidents in which the employees required medical attention beyond first aid, as compared to 76l such accidents in fiscal year 1983. That experience equates to an incident rate of 7.7 per 200,000 man-hours worked in fiscal year 1984 versus an incident rate of 9.5 in fiscal year 1983. Despite intensified safety awareness training and increased emphasis on the safety role and responsibilities of managers and supervisors, there were ten job-related fatalities recorded in fiscal year 1984. Eight of the ten fatalities occurred in two separate accidents at the end of the fiscal year.

An agency level Occupational Health and Safety Committee, comprised of five labor and five management representatives, was established in fiscal year 1984. This committee, which has been certified by the Department of Labor, serves to consult and advise on the operations of the Commission's occupational safety and health program and to monitor its performance.

Chapter IV

ADMINISTRATION AND STAFF

PERSONNEL FORCE EMPLOYED AND RATES OF PAY

At the end of fiscal year 1984, the total Isthmian force of the Commission was 8,090 compared to 8,344 employees in fiscal year 1983. Of the total in 1984, 7,475 were permanent and 615 temporary. In addition, there was a U.S. Coast Guard officer assigned to the Commission on the Isthmus. Fourteen persons, all U.S. citizens, were employed by the Commission in New Orleans and Washington, D.C.

Approximately 78 percent of the total Isthmian force was comprised of Panamanians; 3 percent of third country nationals; and the remaining 19 percent of U.S. citizens. Rates of pay were based on a U.S. Wage Base for positions normally filled by recruitment from the United States, on a Canal Area Wage Base for occupational categories normally filled by recruitment on the Isthmus prior to the treaty effective date of October 1, 1979, and on a New Wage System for employees hired locally on or after that date. Effective January 1984, the first step of a plan to phase out the New Wage System eliminated one fifth of the difference between the New Wage System and pretreaty wage schedules. Subsequent steps, in October 1984 and 1985, will eliminate the remaining difference. The following table shows the Commission civilian permanent Isthmian work force by citizenship and wage base.

		Non-	
Fiscal Year 1984	U. S.	U.S.	Total
Canal Area Wage Base	92	3,079	3,171
U.S. Wage Base	1,324	1,956	3,280
New Wage Base	68	956	1,024
Total	1,484	5,991	7,475

The total Commission payroll was \$178.3 million in fiscal year 1984 compared to \$170.4 million in fiscal year 1983. Of the total Commission fiscal year 1984 payroll, \$109.5 million was paid to non-U.S. citizen employees and \$68.8 million to U.S. citizen employees.

EQUAL EMPLOYMENT OPPORTUNITY PROGRAM

Between the fiscal years 1983 and 1984, there was a significant decrease in the number of EEO complaints formally filed with the agency. A breakdown of formal EEO complaints filed on the basis of citizenship groupings between the two fiscal years follows:

		l vear
	1984	1983
United States	4	4
Non-United States	4	10
Total	8	14

The decline in the number of formal EEO complaints filed reflects that employees are beginning to utilize the negotiated grievance procedure (NGP) for filing their complaints under collective bargaining agreements. While the Office of Equal Opportunity is not directly involved in the NGP process, pursuant to the Administrator's decision, the Office of EO does make inquiries for management into all grievances which include an EEO issue. In addition to the eight cases investigated in FY 1984, two such in-depth inquiries were also conducted by the office.

Panamanians continued to increase as a percentage of the total permanent work force as follows:

	Fiscal year 1984		Fiscal year 1983
United States	5,790	(20.0%)	1,646 (21.0%)
Panama		(77.3%)	5,966 (76.0%)
Third Country Nationals		(2.7%)	230 (3.0%)

There was little variation in the total permanent work force composition on the basis of sex:

	Fiscal year 1984	Fiscal year 1983
Female	774 (10.3%)	791 (10.1%)
Male	6,716 (89.7%)	7,051 (89.9%)

Employment statistics for fiscal year 1984 reflect continued compliance with treaty mandates. During the five-year period since October 1, 1979, the Commission's total permanent work force decreased by six percent, while Panamanians on the rolls in permanent positions increased by approximately five percent as of September 30, 1984.

PUBLIC AFFAIRS

During fiscal year 1984, the Office of Public Affairs provided media coverage of a number of significant events at the Panama Canal. The commemoration of the seventieth (70th) anniversary of the Canal was accompanied by presentations of mementos and resulted in improved customer relations. Also noteworthy were: participation in marketing activities, including international maritime expositions; coordination of the visits of many distinguished visitors and guests to the Canal; and providing assistance to news media representatives from all over the world during the events surrounding the election of a new Panamanian President and the end of the five-year treaty transition period.

The Graphic Branch provided support to the foregoing activities, as well as producing three new films, among which was a new pilot training film entitled "Filling and Spilling."

During the year, the Guide Service handled a total of 251,888 visitors at Miraflores and Gatun Locks and conducted 818 tours of the locks facilities. Among those visitors were United Nations Secretary General, Javier Perez de Cuellar, and numerous representatives of the international press, television and the motion picture industry.

OMBUDSMAN

The Office of the Ombudsman, established by the Implementing Legislation for the Panama Canal Treaty of 1977, continued to respond to employee and dependent complaints, grievances, and requests for information. Generally, client traffic required the Ombudsman to investigate administrative problems, inefficiencies, omissions, and policy conflicts caused within the Panama Canal Commission and other U.S. Government agencies on the lsthmus as a result of the treaty. However, the widest latitude possible was applied to problems affecting employee morale and quality of life.

During fiscal year 1984, over 2,670 requests for information and/or assistance were recorded by the Ombudsman. As in the previous year, the majority of the Ombudsman's work concerned Commission employees and those employees who were transferred with their functions from the Panama Canal Company/ Canal Zone Government to the Department of Defense. Regardless of the everchanging variety and scope of complaints and questions raised, the root cause remained the same, i.e., treaty stress and strain in the work place and in personal life.

INDUSTRIAL RELATIONS

After several months of negotiation, the fifth and last original contract to be negotiated for a bargaining unit under the Federal Service Labor-Management Relations Statute (Title VII of the Civil Service Reform Act of 1978) was initialled by the Commission and the Maritime/Metal Trades Council for the 166-member professional employee unit. The contract became effective on April 11, 1984. Implementation of this contract extended the number of Commission employees covered by collective bargaining agreements to 7,913, or 97.6 percent of the work force.

Also, the first contract to be negotiated under Title VII in the Commission, the Panama Canal Pilot Unit contract which became effective on January 2, 1981, was renegotiated during the period February 8 through April 9, 1984. The tentative agreement reached on April 9 failed to be ratified by a majority vote of the union membership. After a further attempt at mediation failed, the Federal Service Impasses Panel ordered one of its members to resolve the dispute by use of mediation-arbitration. The impasse procedure is scheduled to take place during the first few weeks of fiscal year 1985.

Chapter V

FINANCIAL REPORT

FINANCIAL STATEMENTS

FOR THE FISCAL YEAR ENDED SEPTEMBER 30, 1984

The financial statements of the Panama Canal Commission, appearing as Tables 1 through 6, with accompanying notes, present the financial position of the Commission at September 30, 1984, and the results of its operations for the fiscal year then ended.

The accounts and statements of the Panama Canal Commission have been examined by the Office of General Auditor of the Commission and are subject to examination by the United States General Accounting Office. Detailed audit reports of the United States General Accounting Office are directed to the Congress and are presented as Congressional documents.

Summary information concerning operating results and capital expenditures follows:

RESULTS OF OPERATIONS

Net revenue from operations amounted to \$6.8 million. Pursuant to the provisions of paragraph 4(c) of Article XIII of the Panama Canal Treaty of 1977 subject to the limitations set forth in chapter 3, subchapter V, section 1341(b)(2) of the Panama Canal Act of 1979 (Public Law No. 96-70), the net revenue was reduced by the fiscal year 1983 unrecovered costs of \$4.1 million, leaving a balance of \$2.7 million payable to the Government of Panama.

CAPITAL EXPENDITURES

Accrued capital expenditures for fiscal year 1984 amounted to \$22.5 million. The principal expenditures were \$4.6 million for construction of tug/lock miter gate repair facilities, \$1.4 million for improvements to electrical power and communication systems, \$1.1 million for construction of the Tie-up Station, \$1.3 million for navigation improvements, \$1.1 million for replacement of launches and launch engines, \$1.0 million for replacement of turntables (locks), and \$1.0 million for replacement of tugboats.

FINANCIAL REPORT

Table 1.-Balance Sheet

Assets	1984	1983
PROPERTY, PLANT AND EQUIPMENT: At cost (Note 1c) Less accumulated depreciation and valuation allowances (Notes 1e, 2 and 3)	\$888,551,801 <u>420,152,474</u> <u>468,399,327</u>	\$869,818,221 402,676,579 467,141,642
CURRENT ASSETS: Cash and fund balances (Notes 4 and 5): Deposit funds and undeposited receipts: Postal fund Trust fund Cash receipts for deposit into U.S. Treasury	151,542 521,421 917,191 1,590,154	158,657 1,132,860 282,793 1,574,310
Unexpended appropriated funds: Operating funds Capital funds Emergency fund	46,185,064 28,986,025 10,000,000 85,171,089	45,222,217 28,517,883 10,000,000 83,740,100
Accounts receivable Other receivables (Note 7)	86,761,243 13,844,708 826,867 14,671,575	85,314,410 11,043,545 826,867 11,870,412
Inventories, less allowance for obsolete and excess stock of \$400,000 and \$750,154, respectively (Notes Ig and 6d) Other current assets	40,718,200	42,010,283
OTHER ASSETS: Deferred charges: Cost of early retirement benefits (Note 1h) Retirement benefits to certain former employees of predecessor agencies (Note 1h) Other	<u>142,413,645</u> 293,400,000 9,596,000 408,213	<u>139,549,488</u> 312,960,000 10,776,000 612,319
Unrecovered costs due from subsequent revenues (Notes 1b and 8)	<u>303,404,213</u> <u>303,404,213</u>	324,348,319 4,132,804 328,481,123

TOTAL ASSELS	 \$914.217.185	\$935,172,253

The accompanying notes are an integral part of this statement.

PANAMA CANAL COMMISSION

September 30, 1983 and 1983

Liabilities	1984	1983
INVESTMENT OF THE UNITED STATES GOVERNMENT:		
Invested capital: Interest-bearing (10.208% and 9.885%, respectively)		
(Note 9) Non-interest-bearing	\$84,014,932	\$108,905,590
Non-Interest-bearing	<u>277,910,116</u> 361,925,048	268,748,245 377,653,835
Current budgetary accounts (Note 4):	501,725,040	
Obligated operating funds Obligated capital funds	46,185,064 19,792,831	45,222,217 18,031,685
Unobligated capital funds	9,193,194	10,486,198
Unobligated emergency fund	10,000,000 85,171,089	10,000,000 83,740,100
CURRENT LIABILITIES:	447,096,137	461,393,935
Accounts payable: U.S. Government agencies	4 97 1 795	2.014.202
Government of Panama	4,861,685 6,630,604	3,914,323 6,205,923
Other	8,067,022	4,708,282
Accrued liabilities:		14,828,528
Employees' leave	39,643,978	38,075,806
Salaries and wages Cost of early retirement benefits (Note 1h)	4,513,849 19,560,000	6,124,362 19,560,000
Retirement benefits to certain former employees of predecessor agencies (Note 1h)	1,234,000	
Employees' repatriation	1,270,000	1,364,000 1,457,000
Ship accident claims (Notes 7 and 10) Net revenue payable to Government of Panama	8,569,562	9,818,560
(Note 11)	2,704,695	
	5,010,926 82,507,010	2,432,361 78,832,089
Other current liabilities:		
Unfunded ship accident claims (Notes 7 and 10) Advances for capital-unexpended (Notes 1d and 12)	19,782,519 14,078,394	17,890,038 13,231,035
Other	483,062	1,114,088
	34,343,975	32,235,161
Deferred Credit:	136,410,296	125,895,778
Advances for capital being amortized (Notes 1d.		
6a and 12)	17,501,785	14,437,009
LONG-TERM LIABILITIES AND RESERVES:		
Cost of early retirement benefits (Note 1h) Retirement benefits to certain former employees of	273,840,000	293,400,000
predecessor agencies (Note 1h) Employees' repatriation	8,362,000	9,412,000
Lock overhauls (Note 1i).	10,728,400 5,395,232	10,200,000 7,607,574
Casualty losses (Notes 1j and 13) Floating equipment repair (Note 6c)	12,383,335 2,500,000	12,825,957
	313,208,967	333,445,531
TOTAL LIADULTIES		
Total Liabilities	<u>\$914,217,185</u>	<u>\$935,172,253</u>

	1984	1983
OPERATING REVENUES:		
Tolls (Note 1b) Advances for capital (Note 1d)	\$289,155,035	\$287,791,023
		(4,078,000)
Net tolls revenue	289,155,035	_283,713,023
Other	120,114,444	111,417,549
Advances for capital (Note 12)	(4,853,615)	(1,173,549)
Net other revenue	115,260,829	110,244,000
Total operating revenue	404,415,864	393,957,023
OPERATING EXPENSES:		
Payments to the Government of Panama (Note 11):		
Public services	10,000,000	10,000,000
Fixed annuity	10,000,000	10,000,000
Tonnage	49,143,817	51,190,136
	69,143,817	71,190,136
Maintenance of channels and harbors	39,633,790	35,970,930
Navigation service and control	71,396,827	72,452,357
Locks operation	46,516,500	45,641,090
General repair, storehouse, engineering and mainte-		
nance services	10,538,895	9,625,198
Transportation and utilities	35,607,259	42,104,531
Housing operations	7,009,386	8,871,031
General and administrative	70,460,073	69,126,899
Interest on interest-bearing investment (Note 9)	9,796,269	9,943,192
Other	37,475,549	33,164,463
Total operating expenses	397,578,365	398,089,827
NET OPERATING REVENUE (LOSS) (Notes 1b, 8 and 11)	6,837,499	(4,132,804)
INVESTED CAPITAL-NON-INTEREST-BEARING:		
Unrecovered costs (recovered) deferred		
(Notes 1b and 8) Net revenue payable to Government of Panama	(4,132,804)	4,132,804
(Note 11)	(2,704,695)	
Investment at beginning of fiscal year Miscellaneous receipts deposited into the U.S.	268,748,245	258,511,310
Treasury	282,793	576,536
Due U.S. Treasury for undeposited receipts	(917,191)	(282,793)
Interest on interest-bearing investment (Note 9)	9,796,269	9,943,192
INVESTED CAPITAL NON-INTEREST-BEARING AT END OF		
FISCAL YEAR	\$277,910,116	\$268,748,245
The accompanying notes are an integral part of this statement		

Table 2.—Statement of Operations and Non-Interest-Bearing Investment Fiscal Years Ended September 30, 1984 and 1983

Fable 3A.—Statement of Changes in the Investment of the United States Govern Fiscal Year Ended September 30, 1984
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Total	\$461.393.935 413.725.000	875,118,935	282.793 9.796.269 2.704.695	12,783,757	30,942,437 405,954,027 917,191 116,358 171,847	2.704.695	440,806,555	\$447,096,137
Capital Funds	\$28,517,883 21,813,000	50,330,883	(21,344,858)	(21,344,858)		•		\$28,986,025
Operating Funds	\$45.222.217 391.912.000	437,134,217	(360.006.716)	(360,006,716)	30,942,437	••••••	30,942,437	\$46,185,064
Emergency Fund	\$10,000,000	10,000,000				• • • • • • • •	•	\$10,000.000
Invested Capital st- Non-Interest- ng Bearing	\$268.748.245	268,748,245	282.793 9.796.269 2.704.695	12.783.757	191.7.19	2,704,695	3,621,886	\$277,910,116
Investeu Interest- Bearing	\$108,905,590	108,905,590	21.344.858 360.006.716	381,351,574	405.954.027 405.954.027 116.358 171.847	•••••••	406,242,232	S84.014.932 (Note 9)
	INVESTMENT AT OCTOBER 1, 1983		INCREASES IN INVESTMENT: Prior year receipts deposited into the U.S. Treasury Expenditures from capital appropriations Expenditures from operating appropriations Interest on investment		DECREASES IN INVESTMENT Funds to be covered into the U.S. Treasury Receipts deposited into the U.S. Treasury Due U.S. Treasury for undeposited receipts Property transferred to the Government of Panama Property transferred to the Government agencies Property transferred to the Government of Panama	Panama (Notes Ib and 8)		INVESTMENT AT SEPTEMBER 30, 1984

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Source of Funds:	1984	1983
From Operations:	£404 415 844	£ 20.2 0.57 0.22
Revenue	\$404,415,864	\$393,957,023
Less operating expenses: Interest on interest-bearing investment Payments to the Government of Panama	9,796,269	9,943,192
(Note 11)	69,143,817	71,190,136
Other expenses	318,638,279	316,956,499
Total operating expenses	397, 578, 365	398,089,827
Net operating revenue (loss) (Notes 1b, 8 and 11) Unrecovered costs for fiscal year 1983	6,837,499	(4,132,804)
(recovered) deferred (Notes 1b and 8) Net revenue payable to Government of Panama	(4,132,804)	
(Notes 1b, 8 and 11)	(2,704,695)	• • • • • • • • • • • •
Unrecovered costs for fiscal year 1983 deferred (Notes 1b, 8 and 11)		4,132,804
Add transactions not requiring outlay of funds:		
Depreciation (Note le)	19,586,529	18,514,996
Provision for lock overhauls (Note 1i)	5,071,000	4,354,000
Provision for casualty losses (Note 1j) Provision for floating equipment repair	7,400,000	3,117,088
(Note 6c)	2,500,000	
Other	5,665,966	1,970,819
	40,223,495	27,956,903
Change in investment of the U.S. Government:		
Interest on interest-bearing investment	9,796,269	9,943,192
Receipts deposited into U.S. Treasury	(405,954,027)	(398,461,068)
Disbursements from appropriated funds Repayment to the U.S. Treasury of the fiscal	381,351,575	446,006,200
year 1980 appropriation lapsed		(28,200,421)
Net property transfers	(288,206)	(202,466)
Other	(634, 399)	293,744
	(15,728,788)	29,379,181
Amortization of advances for capital	941,478	919,711
Advances for capital being amortized (Notes Id,	20(4 222	2 400 771
6a and 12)	3,064,777	2,480,771
Total source of funds	28,500,962	60,736,566
Application of Funds: Lock overhauls expenditures	7,283,342	5,040,623
Casualty losses	7,842,622	4,214,134
Accrued capital expenditures	22,456,349	21,704,598
Total application of funds	37,582,313	30,959,355
INCREASE (DECREASE) IN WORKING CAPITAL	\$ (9,081,351)	\$29,777,211
ANALYSIS OF CHANGES IN WORKING CAPITAL:		
Increase (decrease) in current assets:		
Cash	\$ 15,843	\$ (185,931)
Receivables	2,801,163	1,055,670
Inventories	(1,292,084) (91,755)	7,429,667
Other		
Den dia ana ing takitakan	1,433,167	8,450,052
Decrease (increase) in current liabilities: Accounts payable	(4,730,783)	21,268,127
Accrued liabilities	(3,674,921)	(555,681)
Other	(2,108,814)	614,713
	(10,514,518)	21,327,159
INCREASE (DECREASE) IN WORKING CAPITAL	\$ (9,081,351)	\$ 29,777,211

Table 4.—Statement of Changes in Financial Position Fiscal Years Ended September 30, 1984 and 1983

Source of Appropriations:	1984	1983
Operating funds: Current year operating appropriation	\$391,912,000	\$405,378,634
Obligated operating funds brought forward: Fiscal year 1980 Fiscal year 1981 Fiscal year 1982 Fiscal year 1983	2,543,398 3,424,423 4,717,168 <u>34,537,228</u> 45,222,217 437,134,217	23,684,912 5,623,556 45,131,545 74,440,013 479,818,647
Capital funds: Current year capital appropriation (no year)	21,813,000	29,024,000
Obligated capital funds brought forward: Fiscal year 1980 Fiscal years 1981 through 1982 Fiscal years 1981 through 1983	273,632 17,758,053 18,031,685	358,549 15,347,121
Unobligated capital funds (no year) brought forward: Fiscal year 1980 Fiscal years 1981 through 1982 Fiscal years 1981 through 1983	201,847 10,284,351 10,486,198 50,330,883	599,957 5,118,488 5,718,445 50,448,115
Emergency fund (no year)	10,000,000	10,000,000
Total Source of Appropriations	\$497,465,100	\$540,266,762

Table 5.—Statement of Status of Appropriations Fiscal Years Ended September 30, 1984 and 1983

Table 5.—Statement of Status of Appropriations Fiscal Years Ended September 30, 1984 and 1983

	1984	1983
APPLICATION OF APPROPRIATIONS:		
Operating funds: Expenditures from operating appropriations: Repayment to the U.S. Treasury of the fiscal year 1980 appropriation lapsed Fiscal year 1980. Fiscal year 1981. Fiscal year 1982. Fiscal year 1983. Fiscal year 1984.	\$ 886,097 1,167,815 2,326,651 29,591,407 326,034,746	\$28,200,421 21,121,981 2,830,821 38,274,112 333,648,633
	360,006,716	424,075,968
Obligated operating funds: Fiscal year 1980 Fiscal year 1981 Fiscal year 1982 Fiscal year 1983 Fiscal year 1984 Unobligated operating funds lapsed	1,692,534 3,558,134 2,854,042 3,887,554 34,192,800 46,185,064 30,942,437 437,134,217	2,543,398 3,424,423 4,717,168 34,537,228
Capital funds: Expenditures from capital appropriations: Fiscal year 1980 Fiscal years 1981 through 1983 Fiscal years 1981 through 1984	229,106 21,115,752 21,344,858	483,026 21,447,206
Obligated capital funds: Fiscal year 1980 Fiscal years 1981 through 1983 Fiscal years 1981 through 1984	159,269 19,633,562	273,632 17,758,053
Unobligated capital funds (no year): Fiscal year 1980 Fiscal years 1981 through 1983 Fiscal years 1981 through 1984	<u>19,792,831</u> 87,103 <u>9,106,091</u>	201,848 10,284,350
	<u>9,193,194</u> 50,330,883	<u>10,486,198</u> 50,448,115
Unobligated emergency fund (no year)	10,000,000	10,000,000
TOTAL APPLICATION OF APPROPRIATIONS	\$497,465,100	\$540,266,762

Equipment	
Table 6Statement of Property, Plant and H	September 30, 1984 and 1983

		61	1984	1983	83
	Estimated service life	Сом	Depreciation and valuation allowances	Cost	Depreciation and valuation allowances
Titles and treaty rights	40 years	\$14,728,889	\$4,142,501	\$14,728,889	\$3,774,278
Interest during construction		50,892,311	50,892,311	50,892,311	50,892,311
Canal excavation. fills and embankments	15-100 years	347,536,452	97,504.007	347,536,452	88,974,673
Canal structures and equipment	4-100 years	227,921,383	111,597,988	223,188,786	107,678,797
Supporting and general facilities	4-100 years	163,216,450	102,770,199	159,531,771	98,621,330
Minor items of plant and equipment	•	10,339,272	10,339,272	10,081,037	10,081,037
Facilities held for future use	10-100 years	2,915,933	2,760,398	3,166,947	2,508,355
Plant additions in progress	• • • • • • • • •	30,855,313		20,546,230	
Suspended construction projects		40,145,798	40,145,798	40,145,798	40,145,798
- F					
10TAL		\$888,551,801	\$420,152,474	\$869,818,221	\$402,676,579

NOTES TO FINANCIAL STATEMENTS

1. Summary of Significant Accounting Policies.

The Comptroller General of the United States approved the Accounting Principles and Standards Statement of the Panama Canal Commission in his letter dated September 14, 1982. A summary of significant accounting policies follows:

a. Accounting and reporting. As required by section 1311(a) of the Panama Canal Act of 1979, hereinafter referred to as the Act, the accounts of the Commission are maintained pursuant to the Accounting and Auditing Act of 1950. This requires that the principles, standards and related requirements be met, as prescribed by the Comptroller General of the United States, after consulting with the Secretary of the Treasury and the Director of the Office of Management and Budget concerning their accounting, financial reporting and budgetary needs. The Accounting and Auditing Act of 1950 also requires that the accounts be maintained on an accrual basis.

b. Cost recovery. As required by section 1341(e)(1) of the Act, the application of generally accepted accounting principles to the Panama Canal Commission, a United States Government agency comparable to a rate-regulated public utility, determines the manner in which costs are recognized. The basis for tolls rates is prescribed in section 1602(b) of the Act. This section of the Act, known as the "statutory tolls formula," provides that:

"Tolls shall be prescribed at rates calculated to produce revenues to cover as nearly as practicable all costs of maintaining and operating the Panama Canal, together with the facilities and appurtenances related thereto, including unrecovered costs incurred on or after the effective date of this Act, interest, depreciation, payments to the Republic of Panama pursuant to paragraph 5 of Article III and paragraph 4(a) and (b) of Article XIII of the Panama Canal Treaty of 1977, and capital for plant replacement, expansion, and improvements. Tolls shall not be prescribed at rates calculated to produce revenues sufficient to cover payments to the Republic of Panama pursuant to paragraph 4(c) of Article XIII of the Panama Canal Treaty of 1977."

Under this statutory tolls formula, any unrecovered costs are to be recovered from subsequent revenues. The amount for recovery from subsequent revenues is transferred from Invested Capital to an account within the Other Assets classification. Unrecovered costs are charged back to Invested Capital to the extent subsequent annual revenues exceed annual costs.

c. *Property, plant and equipment.* Property, plant and equipment are recorded at cost, or if acquired from another United States Government agency, at the value determined by the Director of the Office of Management

and Budget. Administrative and other related general expenses are recovered currently and therefore not capitalized. The cost of minor items of property, plant and equipment is charged to expense as incurred.

d. Advances for capital. A portion of tolls in excess of depreciation recoveries may be programmed annually by the Board of Directors for plant replacement, expansion, or improvements. Such funds are considered capital advances from Canal users. Upon utilization, these advances are amortized through an offset to depreciation expense in an amount calculated to approximate the depreciation on assets acquired with such advances.

e. Depreciation. Property, plant and equipment are depreciated over their estimated service lives at rates computed using a straight-line method with additional annual depreciation, identified as composite, to provide for premature plant retirements.

The recurring costs of dredging the waterway are charged to expense. Non-recurring dredging costs for substantial improvements and betterments to the waterway are considered additions to plant and are capitalized and depreciated over their estimated service lives.

f. Accounts receivable. Uncollectible accounts receivable of the Panama Canal Commission are recognized as a reduction in revenue when written off. Any subsequent collections of Commission accounts receivable previously written off are recorded as revenue.

g. Inventories. Operating materials and supplies are stated at average cost, plus cost of transportation to the ultimate destination on the Isthmus of Panama. An allowance has been established to reflect the estimated cost of obsolete and excess stock.

h. *Retirement benefits.* Employer payments to the contributory United States Civil Service Retirement System and to the Republic of Panama Social Security System are charged to expense. The Commission has no liability for future payments to employees under these systems.

Non-United States citizen employees who retired from predecessor agencies prior to October 5, 1958, are not covered by the United States Civil Service Retirement System but do receive benefits under a separate annuity plan. Payments made under this annuity plan are recorded as a current year expense. The liability of the Commission for future annuity payments to these former employees or their eligible widows is reflected in the balance sheet as "Retirement Benefits to Certain Former Employees of Predecessor Agencies" and an equal amount is recorded as a Deferred Charge.

As required by the Act, the Panama Canal Commission is liable for the increase in the unfunded liability of the United States Civil Service Retirement Fund which is attributable to benefits payable from that fund to, or on behalf of, employees and their survivors under the early retirement provisions of the Act. The annual installment to liquidate the increased liability is determined by the Office of Personnel Management.

i. Reserve for lock overhauls. A reserve is provided through an annual

PANAMA CANAL COMMISSION

charge to expense to cover the estimated cost of periodic lock overhauls.

j. *Reserve for casualty losses*. A reserve is provided through an annual charge to expense to cover the estimated cost of marine accidents and other casualty losses.

k. Housing use rights. No monetary value is assigned to the rights granted to the United States Government by the Republic of Panama to use Canal Area housing transferred to the Republic of Panama under the terms of the Panama Canal Treaty of 1977. The cost to manage, maintain and provide livability improvements to these quarters is charged to expense. Rental income is included in other revenues.

2. Plant Valuation Allowances.

At July 1, 1951, certain valuation allowances for property, plant and equipment transferred from the Panama Canal (agency) to the Panama Canal Company and the Canal Zone Government were established, to reduce to usable value the costs of the assets transferred. At October 1, 1979, such valuation allowances as were applicable to the assets transferred from the Panama Canal Company and the Canal Zone Government to the Panama Canal Company and the Canal Zone Government to the Panama Canal Commission were carried forward and are comprised of: (a) \$5.5 million at September 30, 1984, and \$5.6 million at September 30, 1983, to reduce to usable value the cost of property, plant and equipment transferred; (b) \$50.9 million at September 30, 1984, and 1983, to offset interest costs imputed for the original Canal construction period; and (c) \$42.8 million at September 30, 1984, and 1983, to offset the cost of defense facilities and suspended construction projects, the latter being principally the partial construction of a third set of locks abandoned in the early part of World War II.

Property, plant and equipment offset by valuation allowances, when fully or partially reactivated, are reinstated by a reduction in the valuation allowance and by an increase to the non-interest-bearing investment of the United States Government in proportion to the value to the Commission of the reactivated asset.

3. Depreciation as a Percentage of Average Cost of Plant.

The provision for depreciation, expressed as a percentage of average cost of depreciable plant exclusive of valuation allowances, was 2.63% for fiscal year 1984 and 2.55% for fiscal year 1983.

4. Cash and Fund Balances.

As of September 30, 1984, the cash and fund balances of \$86,761,243 are made up of \$83,845,968 on deposit in the United States Treasury, \$1,209,019 on deposit in commercial banks, and \$1,706,256 on hand. Of the total, \$85,171,089 is comprised of current budgetary accounts which include appropriated funds for operations, capital and the emergency fund.

As of September 30, 1983, the cash and fund balances of \$85,314,410 were

made up of \$80,721,975 on deposit in the United States Treasury, \$1,647,360 on deposit in commercial banks, and \$2,945,075 on hand. Of the total, \$83,740,100 was comprised of current budgetary accounts which included appropriated funds for operations, capital and the emergency fund.

The emergency fund represents the amount on deposit in the United States Treasury which is to be used ". . . to defray emergency expenditures and to insure the continuous efficient and safe operation of the Panama Canal when funds appropriated for the operation and maintenance of the Canal prove insufficient for such purposes"

The postal fund consists of outstanding money orders, postal savings and interest accrued thereon. This fund will remain available until liquidated. The trust fund primarily includes deposits made by customers for future tolls and other service payments.

5. Panama Canal Commission Fund.

The Panama Canal Commission Fund as established by the Panama Canal Act of 1979 (Public Law No. 96-70) is made up of receipts deposited in the United States Treasury less appropriation warrants issued during the fiscal year. The balance in this account, \$171.2 million as of September 30, 1984, and \$146.3 million as of September 30, 1983, is available for future appropriations.

Section 1302 of the Panama Canal Act of 1979 (Public Law No. 96-70) provides that all appropriations necessary to operate the Panama Canal shall be issued from the Panama Canal Commission Fund. The appropriations for fiscal year 1980 were issued to the Commission from the General Fund of the United States Treasury. The status of the amount still owed to the General Fund of the United States Treasury for fiscal year 1980 is as follows:

	Millions o	f Dollars
Operating Appropriation Capital Appropriation	\$427.2 36.6	\$463.8
Repaid to General Fund (07/81) Repaid to General Fund (12/82)	(350.0) (28.2)	(378.2)
Amount owed General Fund of U.S. Treasury as of September 30, 1984		\$ 85.6

6. Accounting Changes.

a. Amortization of Advances for Capital (see Note 1d) was implemented in fiscal year 1983 based on the following procedure: At the beginning of each fiscal year, an amount equivalent to any capital advance funds disbursed for plant replacement, expansion, or improvement during the previous fiscal year is reclassified and amortized over the average accounting life of assets acquired in the fiscal year in which the funds were expended. Beginning in fiscal year 1984 a new method was adopted for amortizing disbursements based on the flow of costs from construction work in progress. Disbursements are amortized in proportion

to depreciation costs arising from completed projects transferred from construction work in progress.

b. The intent of the lock overhauls reserve policy is to normalize costs directly related to the periodic repair and maintenance of the locks. Repair and maintenance costs of caissons, which are used exclusively for lock overhauls, have increased dramatically in recent years. To minimize significant fluctuations in results of operations, these costs are now charged to the reserve. In fiscal year 1983, \$754,136 for repair and maintenance of caissons was charged to the reserve for lock overhauls.

c. During fiscal year 1984, a reserve was established for floating equipment repair similar to the reserves now in existence for lock overhauls and marine accidents. A one-time charge to expense of \$2.5 million was made to establish the reserve. The annual accrual will be reviewed and adjusted as appropriate.

d. Effective with fiscal year 1984, there was a change in the method of applying the accounting policy for certain inventories. Inventories of manufactured materials and supplies and water system chemicals valued at \$1.3 million were written off by a charge to operations in fiscal year 1984.

7. Other Receivables.

Other receivables represent services provided in connection with ship accidents for which the vessel is considered to be responsible awaiting final settlement. This amount is also included in the computation of estimated liabilities established for ship accident claims.

8. Unrecovered Costs Due from Subsequent Revenues.

Pursuant to the provisions of section 1341(e) and section 1602(b) of the Panama Canal Act of 1979 (Public Law No. 96-70) the net loss of \$4.1 million from fiscal year 1983 operations was recovered from fiscal year 1984 operating revenue.

9. Interest-Bearing Investment of the United States Government.

The interest-bearing investment of the United States Government in the Panama Canal is determined based on section 1603(a) of the Panama Canal Act of 1979. The interest-bearing investment of the United States Government at September 30, 1984, and September 30, 1983, was determined as follows:

	Millions of	Dollars
Investment at September 30, 1982 Fiscal year 1983 transactions:		\$ 89.8
Disbursements	\$ 446.0	
Receipts	(398.5)	
Repayment to United States Treasury		
of FY 1980 lapsed funds	(28.2)	
Net property transfers	(0.2)	
Net change		19.1
Investment at September 30, 1983		108.9
Fiscal year 1984 transactions:		
Disbursements	381.4	
Receipts	(406.0)	
Net property transfers	(0.3)	
Net change		(24.9)
Investment at September 30, 1984		\$ 84.0

10. Ship Accident Claims.

Liabilities arising from ship accident claims are divided into fund and non-fund categories. The fund category is made up of the following:

- a. Accidents which occurred prior to October 1, 1979.
- b. Accidents which occurred within the locks after September 30, 1979.

c. Accidents which occurred outside the locks after September 30, 1979, for which the claim or estimated liability is \$120,000 or less per ship per accident.

Settlement of liabilities for ship accidents which occurred outside the locks where the claim exceeds \$120,000 requires specific Congressional approval. Until Congressional action is completed, liabilities for these accidents are booked as non-fund.

11. Payments to the Government of Panama.

Based on Article III and Article XIII of the Treaty, the Government of Panama has received payment for public services, fixed annuity and thirty cents per Panama Canal net ton. In addition to these payments, an amount of \$2.7 million is payable to the Government of Panama in accordance with paragraph 4(c) of Article XIII, which states that an annual amount of up to \$10 million will be paid out of operating revenues to the extent that such revenues exceed expenditures of the Commission. This amount is subject to the limitations set forth in section 1341(e) of the Panama Canal Act of 1979 (Public Law No. 96-70).

12. Advances for Capital-Transit Booking System Fees.

During fiscal year 1982, with approval of the Board of Directors, the Commission tested a system whereby shippers, for a fee, could make an advance reservation for vessel transit. The system was activated in fiscal year 1983 and generated funds of \$1.2 million and \$4.9 million in fiscal year 1984. Such funds are considered capital advances from Canal users. By direction of the Board of Directors, these fees are set aside for capital improvements.

13. Reserve for Casualty Losses.

The reserve for casualty losses at September 30, 1984, of \$12.4 million includes \$11.8 million for marine accidents and \$0.6 million for other casualty losses. The monthly accrual for the reserve for marine accidents in fiscal year1984 was \$0.3 million per month for a total of \$4.0 million.

The reserve for casualty losses at September 30, 1983, of \$12.8 million included \$12.5 million for marine accidents and \$0.3 million for other casualty losses. As a result of a management analysis of accident frequency and severity, the regular monthly accrual of \$0.8 million was adjusted downward to recognize in the reserve account balance the decreased loss trend for larger vessels and the reduced potential loss exposure resulting from the significant drop in overall transit levels. Accordingly, the reserve for marine accidents was adjusted during fiscal year 1983 to maintain a balance of \$12.5 million in the account.

14. Contingent Liabilities and Commitments.

In addition to recorded liabilities, the estimated maximum contingent liability which could result from pending claims and lawsuits was \$3.4 million at September 30, 1984, and \$9.8 million at September 30, 1983. In the opinion of management and Commission counsel, these pending claims and lawsuits will be resolved with no material adverse effect on the financial condition of the agency.

Commitments under uncompleted construction contracts and unfilled purchase orders amounted to \$29.7 million at September 30, 1984, and \$30.8 million at September 30, 1983. Of this amount \$0.1 million in unfilled purchase orders were prepaid as of September 30, 1984, and \$0.2 million at September 30, 1983. In addition, the Panama Canal Commission is liable for an indeterminable amount with respect to death and disability payments under the Federal Employees' Compensation Act.

Cash and negotiable securities of a kind acceptable by the United States Government in the amount of \$6.3 million were held by United States depositories designated by the Panama Canal Commission at September 30, 1984, and \$6.5 million at September 30, 1983, to guarantee payment by third parties of their obligations.

The Panama Canal Treaty of 1977, Article XIII, paragraph 4(c), provides that an annual amount of up to \$10 million per year be paid to the Government of Panama out of operating revenues to the extent that such revenues exceed expenditures. Payment to the Government of Panama is subject to the limitations set forth in section 1341(e) of the Panama Canal Act of 1979 (Public Law No. 96-70). In the event operating revenues in any year do not produce a surplus sufficient to cover this payment, the unpaid balance shall be paid from operating surpluses in future years up to the amount available from these surpluses. As of September 30, 1984, the balance contingently payable to the Government of Panama amounts to \$44.2 million. As of September 30, 1983, the balance contingently payable to the Government of Panama amounted to \$36.9 million.

15. Treaty Impact.

On September 7, 1977, the United States of America and the Republic of Panama signed the Panama Canal Treaty of 1977. The Treaty provided for the establishment of the Panama Canal Commission on October 1, 1979, to assume certain operational responsibilities for the Canal until December 31, 1999. When the Treaty terminates on December 31, 1999, the Republic of Panama shall assume total responsibility for the management, operation, and maintenance of the Panama Canal, which shall be turned over in operating condition and free of liens and debts, except as the two Parties may otherwise agree. The effects of these long-range requirements are not considered in the financial statements.

Chapter VI

STATISTICAL TABLES

Shipping Statistics

		Total traffi	с		assessed tolls tonnage basis	Traffic ass on disple tonnag	acement
Fiscal	Number of		Long tons of	Number of	Panama Canal net	Number	Displace- ment
year	transits	Tolls	cargo	transits	tonnage	transits	tonnage
	Oc	EANGOING C	OMMERCIAL	TRAFFIC	21		
1975		\$141,898,218	140,101,459	13,565	135,053,680	44	171,006
1976 *TQ	12,157 3,037	134,204,402 35,272,300	117,212,266 30,888,300	12,123 3,031	127,778,919 33,686,757	34 6	131,258 23,205
1977	11,896	163,826,571	122,978,785	11,868	133,353,132	28	108,642
1978	12,677	194,773,111 208,376,741	142,518,288	12,647 12,902	156,907,260 167,470,601	30 33	109,798 136,600
1979 1980	13,507	291,838,590	167,214,935	12,902	182,063,175	33	130,000
1981	13,884	301,762,600	171,221,762	13,847	188,656,491	37	111,418
1982	14,009 11,707	323,958,366 285,983,805	185,452,332 145,590,759	13,976 11,668	202,884,207	33 39	129,684 132,431
1983 1984	11,230	285,985,805	140,470,818	11,199	162,334,838	31	116,335
	OCEAN	GOING U.S.	Governme	NT TRAI	FIC		
1975	170	\$1,376,797	526,497	148	1,287,777	22	122,953
1976	85	727,983 166,779	177,508	68 13	641,137 118,300	17 5	87,728 65,025
*TQ 1977	18 88	805,983	55,383 212.677	59	577,483	29	165,148
1978	103	889,093	291,115	70	589,085	33	214,145
1979	111	1,054,169 1,515,326	357,482 396,481	80 73	726,755 844,748	31 28	207,640 217,055
1980 1981	89	1,241,442	301,776	68	705,936	21	143,121
1982	110	1,546,746	285,451	67	794,282	43	309,206
1983 1984	125 137	1,721,925 2,388,272	354,873 329,607	77 88	812,840 1,131,865	48 49	350,699 410,682
		FREE OCEAN	ngoing Tra	FFIC ^{1 2}			
1975	7			2	694	5	10,400
1976	38		5,635	17	22,854 1,474	21	41,655 1,800
*TQ 1977	4			3	21,252	5	10,380
1978	5			4	3,789	1	1,100
1979	10 6		1	8 3	4,527	23	2,194 4,810
1980 1981	11			4	2,248	7	8,544
1982	23			9	5,010	14	21,903
1983 1984	14 17		2,504	9 4	9,119 2,224	5 13	5,986 21,025
		TOTAL OCE	ANGOING TR	AFFIC			
					126 242 161		204.250
1975 1976	13,786	\$143,275,015 134,932,385	140,627,956	13,715 12,208	136,342,151 128,442,910	71 72	304,359 260,641
*TQ	3,059	35,439,079	30,943,683	3,047	33,806,531	12	90,030
1977	11,997	164,632,554	123,191,842	11,935	133,951,867	62 64	284,170 325,043
1978 1979	12,785	195,662,204 209,430,910	142,809,403 154,468,349	12,721 12,990	157,500,134 168,201,883	66	346,434
1980	13,614	293,353,916	167,611,416	13,552	182,909,609	62	359,458
1981	13,984	303,004,042 325,505,112	171,523,538	13,919 14,052	189,364,675 203,683,499	65 90	263,083 460,793
1982 1983	14,142	287,705,730	145,948,136	11,754	170,325,877	92	489,116
1984	11,384	289,066,116	140,800,425	11,291	163,469,927	93	548,042

Table 1.—Panama Canal Traffic—Fiscal Years 1975 Through 1984

_		Total traffi	c		assessed tolls tonnage basis	on disp.	sessed tolls lacement ze basis
Fiscal	Number of transits	Tolls	Long tons of cargo	Number of transits	Canal net	Number of transits	Displace- ment tonnage
		SMALL COMM	IERCIAL TR	AFFIC ³			
1975	804	\$52,684	7,939	798	54,174	6	1,120
1976	745	49,314	6,866	737	50,281	8	1,229
*TQ	204	24,785	1,236	204	15,389		1 109
1977 1978	759 792	39,960 63,526	2.820 6,962	751 785	48,717 57,827	7	$1.108 \\ 1.040$
1979	936	76,591	7,718	934	69.229	2	94
1980	788	74,898	787	787	52,052	1	57
1981	791	65,604	1,355	788	44,962	3	279
1982	830	73,228	928	826	50,399	4	315
1983 1984	810 802	73,887 76,921	669 652	810 800	48,033 47,787	2	145
	SM	1ALL U.S. GO	vernment 1	FRAFFIC	-3		
1975	110	\$4,729	1	27	1,023	83	6.382
1976	136	6,168		18	1,159	118	8,019
*TQ	36	1,613	23	4	481	32	2,144
1977	277 187	12,851 9,504		22 25	953 1,446	255 162	16,769 10,742
1978 1979	315	14,375	9	48	2,865	267	15,519
1980	276	15,129		29	1.357	247	14,313
1981	225	10,712	2	16	751	209	10,431
1982	241	10,757		12	415	229	10,973
1983	242 241	11,406 11,998	5	11	332 336	230 233	11,177
1984	241	11,998		0	550	235	11,202
		SMALL FR	REE TRAFFIC			~	105
1975	35 40	•••••	31 50	30 31	1,518 1,484	5	185 701
1976 *TQ	14		50	14	944	9	
1977	54		10	50	2,840	4	466
1978	44		20	42	2,986	2	72
1979	55		3	47	2,160	8	632
1980	47 50	• • • • • • • •	• • • • • • • • • • •	41 41	2,317 2,613	6	560 1.012
1981 1982	58		70	40	2,803	18	1,172
1983	56		8	39	2,321	17	2,010
1984	96		59	86	4.637	10	1,360
	-	FOTAL PANAM	IA CANAL T	RAFFIC			
1975		\$143,332,428	140,635,927	14,570	136,398,866	165	312,046
1976	13,201	134,987,867	117,402,325	12,994	128,495,834	207	270,590
*TQ	3,313 13,087	35,465,477 164,685,365	30,944,942 123,194,672	3,269 12,758	33,823,345 134,004,377	44 329	92,174 302,513
1977 1978	13,808	195,735,234	142,816,393	13,573	157.562.393	235	336,897
	14,362	209.521,876	154,476,079	14,019	168,276,137	343	362,679
1980	14,725	293,443,943	167,612,203	14,409	182,965,335	316	374,388
1981	15,050	303,080,358	171,524,895	14,764	189,413,001	286	274,805
	15,271 12,954	325,589,097 287,791,023	185,738,781 145,948,818	14,930 12,615	203,737,116 170,376,563	341 339	473,253 502,303
	12.523	289.155.035	140,801,136	12,185	163.521.687	338	560,829
Oceangoing traffic includes							

Table 1.—Panama Canal Traffic—Fiscal Years 1975 Through 1984 (Continued)

¹Oceangoing traffic includes ships of 300 net tons and over, Panama Canal measurement, or of 500 displacement tons and over on vessels paying tolls on displacement basis (dredges, warships, etc.).

²Free traffic includes ships of the Colombian and Panamanian Governments and ships transiting for repair by the Commission.

³Includes vessels under 300 net tons, Panama Canal measurement (or under 500 displacement tons for vessels assessed on displacement tonnage).

•Effective 10-1-76 the fiscal year for all U.S. Government agencies was changed from July 1 through June 30, to October 1 through September 30. For continuity purposes, July, August, and September 1976 were designated the Transition Quarter.

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	Number of Transits	Transits	Panama Canal Net Tonnage	Net Tonnage	Long Ton.	Long Tons of Cargo	7	Tolly
	1983-84	1982-83	1983-84	1982-83	1983-84	1982-83	1082-84	
October	106	1,123	12,851,296	16.748.651	10 983 458	14 530 212	LOLOLU S	1962-00
November	871	976	12.842.014	14.437.271	10.938.373	12 267 202	2 22,100,103	C/7.080.02 ¢
December	915	1,038	13,066,789	15.159.478	10 737 300	00,100,21	106,010,22	23,155,590
January	913	994	13,552,761	14,281,604	11.402.597	11 852 750	22,900,193	24, 211, 12, 42
redruary	868	106	12,854,233	13,006,067	11.084.966	10 838 476	22,680,012	010 000,22
MalcII	984	1,044	13,705,979	14,616,188	11.637.624	12.738.743	74 204 031	20,202,02
Aptili	963	666	13,295,263	14,448,846	11.342.269	11.845.294	020 207 22	120,270,72
[vidy	966	955	14.377,680	13.618.472	12.354.653	11 590 813	75 377 511	310 001 124,02
June	950	953	14.056,164	13.729.177	12.139.019	11 674 644	201 028 20	C12,221,42
July	934	926	13,488,255	13,257,916	12.360.590	11 831 786	72 005 141	24,009,24/
August	066	923	14,642,511	13.456.699	12.991.960	11 977 380	75 808 306	200 227 20
September	915	875	13,601,893	12,743,549	12.497.910	11.595.613	24.077.064	040,001,02
Total	11,230	11,707	162,334,838	169,503,918	140,470,818	145,590,759	\$286,677,844	\$285,983,805
Average per month	936	976	13,527,903	14,125,326	11,705,902	12,132,563	\$23,889,820	\$23,831,984

NOTE: The above includes only commercial vessels of 300 net tons and over, Panama Canal measurement, or of 500 displacement tons and over on vessels paying tolls on a displacement tonnage basis. Statistics on these vessels, except as relates to displacement tonnage, have been included in the table above.

PANAMA CANAL COMMISSION

Table 3.-Canal Traffic1 by Flag of Vessel-Fiscal Year 1984

		Measured	t ionnage		
	Number	Panama	1		Long
Flag	of	Canal	Registered	T - 11 -	tons of
Algeria	transits 4	net 44,066	gross ; 53,926	Tolls \$78,239	cargo 49,815
Argentina	2	45,478	53,038	83,225	36,605
Australia	10	212,000	256,910	387,960	155,444
Austria	3	68,331	80,532	125,046	53,008
Bahamas	54	434,128 966,662	527,791 1,140,631	790,760 1,755,355	379,103 1,111,099
Belgium . Bermuda .	3	29,196	23,799	46,227	2,241
Bolivia	9	76,599	96,300	140,176	68,255
Brazil Bulgaria	32 8	269,075 50,158	323,514 60,839	490,310 91,789	125,706 40,348
Canada	лĭ	33,114	48,306	59,007	19,034
Cayman Islands	6	4,164	2,200	7,117	1,417
Chile Colombia	100 168	927,020 2,301,267	1,054,342 2,551,048	1,638,245 4,120,048	852,909 1,562,699
Costa Rica	6	5.682	5,952	10,398	1,741
Cuba	125	751,909	883,884	1,349,906	578,353
Cyprus	86	804,007 8,811	872,642	1,454,435	805,870
Czechoslovakia	250	4,913,177	10,416 6,248,367	16,124 8,741,658	13,858 3,555,601
Denmark Dominican Republic	1	8,275	9,661	15,143	14,436
East Germany	10	53,886	58,750	88,642	15,379
Ecuador	454	3,924,611 18,762	4,584,842 22,606	6,815,958 34,334	2,914,773 30,394
Egypt Finland	24	313,025	383,614	565,026	386,915
France	78	1,322,464	1,178,910	2,434,016	854,638
Ghana Greece	3 788	29,544 12,151,998	39,012 13,808,383	54,066 21,402,463	24,028 14,522,261
Honduras	25	140,887	173,576	239,685	44,076
Honduras Hong Kong	15	346,808	429,572	621,783	537,387
India	18 10	423,865	510,336	747,399	527,389
Indonesia Iraq	2	114,396 20,478	131,907 25,948	209,345 37,475	79,597 38,197
Ireland	4	31,716	37,830	57,435	53,477
lsrael	67	1,349,688	1,770,153	2,469,929	861,572
ltaly Japan	93 1,191	1,104,287 22,190,145	1,390,968 18,775,393	2,005,981 38,425,469	791,049 11,873,771
Kuwait Liberia	2	24,204	30,892	44,293	15,031
Liberia	1,379	25,493,575	26,043,109	44,926,127	25,359,753
Libya	6 14	40,855 229,705	51,486 275,563	66,963 420,360	28,071 392,116
Malta	23	229,373	262,391	408,641	270,423
Mauritania	4	2,509 1,872,156	1,049	3,880	
Mexico Morocco	97 7	1,872,156 76,047	2,406,042 93,091	3,141,887 137,127	1,638,344 124,463
Netherlands	216	2,319,145	2,586,488	4,162,252	1,884,015
New Zealand Nicaragua	4	50,241	52,028	94,372	26,338
Nicaragua Norway	22 337	37,382 6,269,607	32,940 6,699,166	65,770 11,079,426	17,396 5,800,614
Panama	1,770	22,351,853	22,318,616	39,406,920	20,570,055
Panama People's Republic of China Peru	132	2,630,788	2,925,450	4,661,452	2,588,032
Peru Philippines	197 170	2,130,210 2,219,499	2,574,852 2,183,090	3,754,032 3,965,557	2,278,542 2,620,480
Poland	67	488,263	538,356	869,785	257,326
Portugal	4	4,318	5,375	7,902	3,015
Rumania St. Vincent	4	35,166 19,298	41,166 22,812	57,848 31,820	16,672 11,889
Samoa	2	18,398	21,100	33,668	15,166
Saudi Arabia Singapore South Korea	15	95,492	89,626	153,465	17,362
Singapore	222 185	4,375,177 2,744,765	3,903,033 3,299,467	7,589,730 5,016,393	3,304,008 3,625,203
Spain	126	729,832	715,442	1,323,680	574,667
Sri Lanka	4	54,170	61,826	92,869	45,514
Sweden Switzerland	115	2,503,812	2,045,346	4,522,016 1,400,295	1,066,348 349,291
Taiwan	167	766,623 3,826,453	906,526 4,744,484	6,918,014	3,104,410
Thailand	2	9,522	11,046	17,425	7,019
Tonga Turkey	1	422	424	772 186,6 24	121 132,954
United Arab Emirates	12	104,198 25,421	128,082 31,191	43,392	9,321
United Kingdom	557	9,432,702	11,333,745	16,869,077	9,570,188
United States	742	8,718,555	9,888,001	15,235,736	6,922,442 21,825
United States Uruguay U.S.S.R.	3 435	13,708 3,062,916	14,433 3,484,111	24,402 5,380,104	1,823,706
Venezuela	87	193,984	220,807	339,298	105,420
West Germany	232	2,817,494	3,305,859	5,112,291	2,022,601
Yugoslavia	88	827,321	983,361	1,502,005	868,232
Total	11,230	162,334,838	171,957,770	\$286,677,844	140,470,818

¹ Includes only commercial vessels of 300 net tons and over, Panama Canal measurement, or of 500 displacement tons and over on vessels paying tolls on displacement basis (dredges, warships, etc.). ² Includes 3 transits where no registered tonnage was reported.

Table 3.-Canal Traffic' by Flag of Vessel-Fiscal Year 1984-Continued

NOTE.—In Canal traffic statistics, foreign naval vessels such as transports, supply ships, tankers, etc., with a measurement of 300 net tons (Panama Canal measurement) and over, and vessels of ward, dredges, etc., with a displacement of 500 tons and over, are classified as occangoing commercial vessels. Statistics on these vessels, except as related to displacement tonnage, have been included in the table above. As displacement tonnage cannot be combined with net tonnage, the following table shows statistics covering 31 vessels which transited the Canal during fiscal year 1984 and paid tolls on displacement tonnage.

Flag	Type	Number of transits	Displace- ment tonnage	Tolls
Canada	Dredge	1	2,370	\$2,417
Chile	Naval	2	7,500	7,650
Ecuador	do	6	4,739	4,834
France	do	3	18,916	19,294
Italy	do	2	13,100	13,362
Japan	do	4	14,590	14,882
Netherlands	Dredge	3	19,014	19,394
New Zealand	Naval	1	3,060	3,121
People's Republic of China	Dredge	1	15,216	15,520
Peru	Naval	4	4,732	4,827
Turkey	do	1	2,200	2,244
United Kingdom	do	2	6,398	6,526
United States	Dredge		4,500	4,590
Total		31	116,335	\$118,661

Statistics compiled by Office of Executive Planning.

		Grand Total	3,792 78,067 \$137,452 75,748	1,696 29,099 \$53,172 19,130	1.792 13.244 \$23.943 10.013	149 2.176 \$3,964 69	1.587 8.196 \$14.202 2.307	1.797 30.132 \$51.362 32.628
		Total	575 14.628 \$21,359	27 211 \$308	160 796 1,162	3 44 64	416 2,155 \$3,147	582 10,210 \$14,905
**	Ballast	Pacific 10 Atlantic	184 3.080 \$4,497	13 117 \$171	91 374 \$546	1 \$3	69 316 \$461	288 4.369 \$6.378
Vear 198		Atlantic to Pacific	391 11.548 \$16.862	14 94 \$137	69 422 \$616	2 42 \$61	347 1,839 \$2,686	294 5,841 \$8,527
sel-Fiscal		Total	3.217 63,439 \$116,093 75,748	1.669 28.888 \$52.864 19.130	1.632 12.448 \$22.781 10.013	146 2,132 \$3,900 69	1,171 6,041 811,055 2,307	1.215 19.922 \$36.457 32.628
pe of Ves	Laden	Pacific 10 Atlantic	1,578 30,744 \$56,263 28,325	872 15.375 \$28.137 10.295	788 6,214 811.372 4,867	76 1.064 \$1.946 69	733 3,753 \$6,868 1,802	578 10.037 \$18.367 16.549
ffic ¹ by Ty		411antic 10 Pacific	1,639 32,695 \$59,830 47,423	797 13,513 \$24,727 8,835	844 6.234 \$11,409 5.146	70 1.068 \$1,954	438 2,288 54,187 505	637 9.885 \$18,090 16,079
Table 4.—Classification of Canal Traffic' by Type of Vessel—Fiscal Year 1984		Type of Vessel CARGO AND CARGO PASSENGER SHIPS; Built Carriere:	Number of transits	Vulturer of the state states with the state of the state states of the state states of dollars)	Number of transits	Parsenger Jurps Number of transits	Number of transits	Number of transits

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STATISTICAL TABLES

PANAMA CANAL COMMISSION

25 75 \$77	392 1,421 41 \$2,506 \$76	10,813 160,914 \$284,095 139,895	417 1,421 116 \$2,583 \$76	11.230 162.335 116 116 \$286,678 140,471
25 75 \$77	114 376 41 \$591	1,763 28,044 \$40,945	139 376 116 \$668	1,902 28,420 116 \$41,613
9 32 \$33	43 145 29 \$242	646 8,258 \$12,056	52 145 61 \$275	1,204 698 1,902 11,230 20,017 8,403 28,420 162,335 61 116 116 \$29,282 \$12,331 \$41,613 \$286,678 140,471
16 43 \$44	71 231 12 \$349	1,117 19,786 \$28,889	87 231 55 \$393	1,204 20,017 55 \$29,282
· · · · · · · · · · · · · · · · · · · ·	278 1,045 \$1,915 576	9,050 132,870 \$243,150 139,895	278 1,045 \$1,915 576	9,328 133,915 5245,065 140,471
· ·	132 483 \$886 305	4,625 67,187 \$122,953 61,907	132 483 \$886 305	4,757 67,670 \$123,839 62,212
	146 562 \$1,029 271	4,425 65,683 \$120,197 77,988	146 562 51,029 271	4.571 66.245 5121.226 78.259
OTHER TYPE SHIPS: Naval Vessels: Number of transits Displacement tonnage (thousands) Tolls (thousands of dollars)	Barges, Dredges, Drydocks, Ťugs, etc.: Number of transits	SUMMARY: Total Cargo and Cargo/ Passenger Ships: Number of transits Panama Canal net tonnage (thousands) Tolls (thousands of dollars) Cargo (thousands of long tons)	Total Other Type Ships: Number of transits	Grand Total Ships: Number of transits

Includes only commercial vessels of 300 net tons and over (Panama Canal measurement) for vessels paying tolls on net tonnage basis, or of 500 displacement tons and over for vessels paying on displacement tonnage. 2Vessels certificated for more than 12 passengers.

PANAMA CANAL COMMISSION

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		Laden			Ballast	
	Num-		1	Num-		1
	ber	Panama		ber	Panama	
	of	Canal net		of	Canal net	
	transits	tonnage	Tolls	transits	tonnage	Tolls
Algeria Argentina Australia	3	37,574	\$ 68,760	1	6,492	\$ 9,478
Argentina	2	45,478 212,000	83,225			
	10	212,000	387,960			
Austria	31	424,143	125,046 776,182	2	9,985	14,578
Belgium	50	929,807	1,701,547	4	36,855	53,808
Austria Bahamas Belgium Bermuda	1	9,732	17,810	2	19,464	28,417
	9	76,599	140,176			
Brazil. Bulgaria Canada. Cayman Islands.	31	263,407 50,158	482,035 91,789	1	5,668	8,275
Canada	6	22.279	40,771		10,835	15,819
Cayman Islands	4	2,803	5,129	2	1,361	1,987
Chile Colombia	79	749,043	1,370,749	19	177,977	259,846
Colombia	147	2,054,591	3,759,902	21	246,676	360,147
Costa Rica	6 109	5,682 681,402	10,398 1,246,966		70,507	102,940
Cyprus	76	758.337	1,387,757	10	45,670	66,678
Cyprus Czechoslovakia	1	8,811	16,124			
Denmark Dominican Republic	210	4,238,973	7,757,321	40	674,204	984,338
Dominican Republic	1	8,275 26,943	15,143 49,306		26.943	39.337
East Germany Ecuador	361	2,922,140	49,306 5,347,516	5 87	26,943	39,337 1,463.608
Egypt.	501	18,762	34,334	07	1,002,471	1,405.008
Finland	23	291,917	534,208	1	21,108	30,818
France	71	1,307,903	2,393,462	4	14,561	21,259
Ghana	3	29,544	54,066			
Greece	654 17	9,893,367 91,866	18,104,862 168,115	134	2,258,631 49,021	3,297,601 71,571
Honduras	13	312,008	570,975	2	34,800	50,808
India	15	347,450	635,834	3	76,415	111,566
Indonesia	10	114,396	209,345			
Hong Kong India Indonesia Iraq	2	20,478	37,475		1.637	2,390
Ireland	3 67	30,079	55,045 2,469,929	1	1,037	2,390
Israel	84	1,349,688 1,027,999	1,881,238		76.288	111,380
Japan	923	16,251,285	29,739,851	264	5,938,860	8,670,737
Ireland Israel	2	24,204	44,293			
Liberia	1,144	20,820,533	38,101,574	235	4.673.042 21,085	6,824,786 30,784
Libya	14	19,770 229,705	36,179 420,360	3	21,005	30,164
Malta Mauriania Mexico	20	199,341	364,794	3	30,032	43,847
Mauritania	1	586	1,072	3	1,923	2,808
Mexico	59	1,104,160	2,020,613	38	767,996	1,121,274
Morocco	6 175	70,535 2,045,333	129,079 3,742,959	1	5,512 273,812	8,048 399,766
New Zealand	2	48,376	88,528	1	1,865	2,723
Nicaragua	15	30,249	55,356	7	7,133	10,414
Norway	275	5,204,864	9,524,901	62	1,064,743	1,554,525
Panama	1,474 110	18,305,985	33,499,952	296 21	4,045,868 455,163	5,906,967 664,538
People's Republic of China	166	2,175,625	3,981,394 3,160,946	21	402,917	588,259
Philippines	152	1,959,699	3,586,249	18	259,800	379,308
Poland	58	424,111	776,123	9	64,152	93,662
Morocco Netherlands New Zealand Nicaragua Panama People's Republic of China Peru Philippines Poland Portugal Rumania	4	4,318	7,902		17,583	25,671
Rumania Saint Vincent	2 2	17,583 9,850	32,177 18,026	2	9,448	13,794
Samoa	2	18,398	33,668			
Samoa Saudi Arabia	6	37,965	69,476	9	57,527	83,989
Singapore South Korea Spain Sri Lanka	179	3,248,571	5,944,885	43	1,126,606	1,644,845 25,756
South Korea	180 111	2,727,124	4,990,637 1,276,674	5	17,641 32,196	47.006
Sri Lanka	2	697,636 37,245	68,158	2	16,925	24,710
Sweden	107	2.341.757	4,285,415	8	162,055	236,600
Switzerland	78	759,528	1,389,936	1	7,095	10,359
Taiwan	158	3,598,091	6,584,507 17,425	9	228,362	333,409
Tonga	2	9,522 422	17,423			
Turkey	9	87,166	159,514	2	17,032	24,867
United Arab Emirates	2	16,965	31,046	1	8,456	12,346
Sri Lanka Sweden Switzerland Taiwan Thailand Tonga Turkey United Arab Emirates United States United States Unuguav	473	8,353,530	15.286.960	82	1.079.172	1,575,591
United States	590 2	6,762,312	12,375,031 21,702	151	1,956,243 1,849	2,856,115 2,700
Uruguay U.S.S.R.	345	11,859 2,454,720	4,492,138	90	608,196	887,966
Venezuela	63	151,570	277,373	24	42,414	61,924
West Germany Yugoslavia	211	2,699,323	4,939,761	21	118,171	172,530
Yugoslavia	84	794,908	1,454,682	4	32,413	47,323
Total	9,328	133,913,982	\$245,062,587	1,871	28,420,947	\$41,496,595
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Table 5.—Laden and Ballast Traffic by Flag of Vessel Fiscal Year 1984

Above table involves only commercial vessels of 300 net tons or over, Panama Canal measurement.

Average gross tonnage per vessel	13,482 26,519 25,601	26,844	21,123	7,933	10,110	4.493	367	10,755	C81,C1	7,071	10,147	10,416 24,993	9,661	10,229	22,606	15.690	13,004	17,523	0,943 28,638	28.352	13,191	12,9/4	26.420	15.111	15,818	15,446 18,886
Registered gross tonnage	53,926 53,038 256,910	80,532	1,140,631	23,799	323,514	44.930	2,200	1,053,943	2,201,048	883,884	872,642	10,416 6,248,367	9,661	4,582,689	22,606	1.176.770	39,012	13,808,383	0/0.5/1	510.336	131,907	25,948	1 770 153	1.375.118	18,775,393	30,892 26,043,109
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Table 6.-Segregation of Transits' by Registered Gross Tonnage-Fiscal Year 1984

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¹ Includes only commercial vessels of 300 net tons and over, Panama Canal measurement. ² Excludes 31 vessels paying tolls on displacement tonnage basis and 3 transits where no registered tonnage was reported.

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ic	1982 3,262	211	52	80	38	41	3,051	972	24	162	418	156	690	984	46	870	68	1,280	4,232	763	2	· · · · · ·	داد م	14	2.984	160	4,806	2,358	664	1,22/
North Pacific to Atlantic	1983 2,889	171	43	62	28	38	2,718	888	20	592	461	73	684	846	65	671	110	1,556	1,675	299			710	10	1.084	70	5,335	2,738	186	1,411 205
Pac	1984 2,743	222	33	115	53	21	2,521	811	23	605	459	31	591	979	41	886	52	1,839	3,033	533	2	15	/10		1.757	143	5,749	3,182	878	1,435
[Thousands of long tons]	Conmodity Canned and Refrigerated Foods	Canned Foods	Fish	Fruit	Milk	Other and unclassified.	Refrigerated Foods	BananasBananas	Dairy Products	Fish	Fruit, excluding bananas	Meat	Other and unclassified	Chemicals and Petroleum Chemicals	Caustic soda	Chemicals, unclassified	Petroleum Chemicals, miscellaneous	Coal and Coke (excluding petroleum coke)	Grains	Barley	Corn	Oats	Nice	Sobeans	Wheat	Other and unclassified	Lumber and Products	Boards and planks	Plywood, veneers, composition board	Pulpwood
fic	1984 565	110	2	24	68	16	455	7	9	148	115	9	171	4,180	927	2,376	877	8,115	25,089	16	9,490	6	1 2 2 2 2	6 837	7.213	84	614	12	14	30 30
South Atlantic to Pacific	1983 518	74	0	9	57	×	443	-	9	131	100	10	195	4,121	674	2,474	973	9,161	34,785	118	21,625	27	5/2 1	7 039	4,478	78	529	6	20	4/5 25
Ath	1982 574																													

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1 538	00001	24	1.343	295	24	0.40	24	46	5.178		514	96	1.145	1.842	000		2021	3,831	4	426	10	202	000	231	2.575	1,553	00	989	208	70	198	80	5,676	4,136	180	50	730	267	707	149	00	4 i 9 i	CCC 000 C	
1 475	2/+,-	16	1.305	29	20	00	19	37	3.563	201	403	70	1.277	696	214		2000	3,0/0	3	391	5	222	110	149	1,945	1,467	26	823	277	143	142	56	4,577	2,937	107	11	414	24		171	31	10	408 1 640	010°
1 631	100,1	32	1.464	69		r 7	6	28	5.424		294	118	2.084	1.039	120	1 470	2 401	3,091	4	414	0	202	060	130	2,431	1,263	48	725	170	86	175	59	5,028	3.825	892	71	190	272	147	101	- 6	101	7/5	1001
Machinerv and Equipment		Agricultural machinery and implements	Automobiles, trucks, accessories and parts	Construction machinery and equinment			Motorcycles, bicycles, and parts	Other and unclassified	Manufactures of Iron and Steel		Angles, shapes, and sections	Nails, tacks, and spikes	Plates, sheets, and coils	Tubes, pipes, and fittings	Wire bars and rods	wite, data, and undirection	Minarole microfilmanus		Asbestos	Borax	Infusorial earth	Solt	Jall	Soda and sodium compounds	Sulfur	Nitrates, Phosphates, and Potash	Ammonium compounds	Fishmeal	Nitrate of soda	Phosphates	Polash	Fertilizers. unclassified	Ores and Metals	Ores	Alumina/hauxite	Chrome	Conver				Manganese		2lnc Other and unclassified	
550	222	59	292	16		r e	2	64	1.842	1/0	108	54	869	98	307	747			18	S	6			<u>.</u>	13	8,617	535		84	6.395	113	1.490	3,636	888	454	4			: -	11	5		161	
525	242	59	243	104	10	2 e	7	69	1,632		571	0	950	72	161	101	326	077	20	12	~	101	771	10		7,950	379	Ι	27	5.826	127	1.590	3,391	750	375		-	.09	0	122	CC		57	5
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	ic	1982	1,540	64	944	100	96	e	29	209	95	3,471	56	60	451	6	66	878	58	42	40	م	1,752	77	42,324		40,118	610	2,310	304	14	00	۰ م	1 404	1,404
North	Pacific to Atlantic	1983	1,640	57	1,162	60	129	2	21	129	80	3,491	42	31	467	14	123	827	64	36	<u>وا</u>	د دور	1,803	20	20,191	9	14,123	269	7,800	347	6	•••••	87	114	1,024
	Pac	1984	1,203	53	885	×	85	ŝ	19	104	46	4,026	46	49	458	Ξ	110	672	336	48	96 '	ء م	2,179	6I 	18,107	8	10,267	815	3,830	760	LT		4 9 1	101	70/1
	[Thousands of long tons]		Metals	Aluminum	Copper.	-	1	0,1		Zinc		Other Agricultural Commodities		Cocoa and cacao beans	-	Copra and coconuts	Cotton, raw.		Ŭ					1	Petro		•		_	-					
	fic	1984	2,747	312	33	87	14	2,227	12	29	35	1,603	43	m	6	-	15	ę	36	•••••	•••••		1,493	•	12,555	155	3,898	1,129	3,007	983	593	104	737	689	400
South	Atlantic to Pacific	1983	2,641	397	42	238	14	1.846	15	13	76	1,953	56	m	61	•••••	28	ŝ	16	51	•••••		1,701	-	13,727	90	4,547	1,277	3,318	1,352	627	42	662	575	71/
	All	1982	1,425	312	4	22	18	986	32	9	42	2,028	4]	ŝ	20	-	160	11	160	e		7	1,624	2	13,691	128	4,410	1,696	2,121	2,159	1,264	108	259	/29	701

7,760 1,760 1,760 1,160 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,176 1,
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$\begin{array}{c} & 9,309\\ & 9,309\\ & 21\\ & 23\\ & 64\\ & 64\\ & 23\\ & 33\\ & 23\\ & 24\\ & 23\\ & 24\\ & 23\\ & 24\\ & 23\\ & 24\\ & 24\\ & 24\\ & 23\\ & 24\\$
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PANAMA CANAL COMMISSION

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					[Long tons]									
	T_0	West Coa	To West Coast United States	ares	To W.C. Canada				To West Coast Central America	ast Central	America			
Ειετ Γολετ Νορτυ Αμερισλ.	Alaska	Намай	Main- land	Total	Canada	Costa Rica	El Sal- vador	Guate- mala	Mexico	Nica- ragua	Pan- ama	Central America (other) ¹	Balboa. R.P. ²	Total
United State Provide America. United State Dorth Allantic ports		6,922 654	280,094 55,047	287,017 55,701	324,245	4,330 6,791	60,539		33 , 008 73 , 544	3,908 1,025	388 17,034	2.705	38,064 11,365	140,237 112,464
Great Lakes ports Gulf ports United States (other) ¹	6		1,046,785 213,119	1,046,804 234,217	621,872 49	181,983	16,091 302,460 3,831		25,708 424,799	70,843	36,374 5,478	7,681 2,947	8,627 312,984 57,505	50,426 1,337,124 69,761
Total United States	10	28,684	1,595,045	1,623,739	946,166	193,104	382,921		557,059	75,776	59,274	13,333	428,545	1,710,012
EAST COAST CANADA			46,483	46,483	1,438	3,716	3,684	:	•	15,467	4,131	8,935		35,933
EAST COAST CENTRAL AMERICA: Mexico Padama Central America (other)'			17,237 330 10,871	17,237 330 10,871			339,837 8,011	257,036	3,494,440	136,094 1,111	2.362 477 631		55,510 9,618	4,229,769 65,109 10,318 862
Total Central America		:	28,438	28,438	•	:	347,848	257,036	3,494,440	137,984	3,470	152	65,128	4,306,058
EAST COAST SOUTH AMERICA: Brazil Colombia Verezuela	32,350	58,959	310,003 108,440 400,405 23,658	310,003 108,440 491,714 23,658	43,955 5,119 9,890	883 10,725 210	4,876 3,038 303,088	311,995	185,970 103,052 20.664	5,504 1,612 9,728 17,165	5,800	52 923	1,181 45,901	197,233 108,935 688,160 38,039
Total South America	32,350	58,959	842,506	933,815	58,964	11,818	311,002	311,995	309,686	34,009	5,800	975	47,082	1,032,367
WEST INDIES:			1 074						202			8		

STATISTICAL TABLES

78,468 6,117 6,117 281,000 5,324 3,302 374,211

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20,156 1,071 21,227

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14,074 138,380 262,428 141,654 366,284 922,820

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195 62	100,21	C 643 0	104.231	17,782	37,055	7,474	13,946	336,427	72,738	121,503	848,074	- - - - -	4,422	311,077	10.6
264.2	C74.C				667	116			826	266	7,300		•	644,734 8	
1 606	1 650		283		2,583		3,052	51	3,023	21.640	35,197		• • • • • •	101,528	0.1
7 416	98	8	630				263		4,221	2,000	9,636	• • • •		103,538	0.1
17 687	37 754	3615	28.223	7,121	10,036	7,156	1,384	335,428	10,124	18,497	471,525		2,953	809,193	1.0
	0.16	1436	868		8,755	202	5,131	875	13,973	12,788	46,864	•	1,469	1,422,043	
		112	59.384				••••••					•		755,450	
010 00	15,014	750 6	11.251		14,937		3,518	73	14,673	65,622	171,375			1,222,048	1.6
5	881	100	2.592		77		598		17,348	690	23,216			252,543	
56 307	142.00	20.500	40.216	12,048	102.264	12,181	13,838		46.207	109,227	447,282	2,801	3,599	460,250	1.9
410.631	100,014	145 775	392.703	179,805	270,322	109,677	135,283	22,870	398,459	740,262	2,946,219	60,958	291,585	6,854,057	8.8
110.631	140.432	145 775	392.703	179,805	268,944	109,677	129,831	22,870	395,578	739,808	2,936,054	58,352	291,585	6,427,795	8.2
	•						5,452		334	454	6,240			361.652	0.5
					1,378				2,547		3,925	2,606		64,610	0.1
EUROPE: Balaium	Delgiuii	1.1011.00 • • • • • • • • • • • • • • • • • •	Netherlands	Norway	Spain-Portugal	Sweden	United Kingdom	U.S.S.R.	West Germany	Europe (other) ¹	Total Europe	ASIA (MIDDLE EAST)	AFRICA	Grand total	Percent of Pacific-Bound Cargo

See footnotes at end of table.

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[Long tons]

		To k	To West Coast South America	outh Ameri	ca				To Oceania		
EAST COAST NORTH AMERICA:	Chile	Colom- bia	Ecuador	Peru	South America (other) ¹	Total	Australia	French Oceania	New Zealand	Oceania (other) ¹	Total
Unied States: North Atlantic ports	188,761 14,399	24,529 18,964	43,491 51,598	126,743 56,542	13,317 8,588	396,841 150,091	104,112 67,919		85,422 36,581	101,748 29,727	291,282 134,227
Great Lakes ports	5,026 1,381,106 122 787		1,848 911,908 79 817	27,358 1,251,845 53 840	688 79,446 74 940	34.920 4.148.473 706.907	37,983 1,302,922 32 137		145,087	106,289	37,983 1,554,298 118 412
Total United States	1,712,079	583,180	1,088,657	1,516,337	126,979	5,027,232	1,545,073		275,121	316,008	2,136,202
East Coast Canada	21,029	10,688	45,137	52,237	5,418	134,509	45,207		23,484	60,287	128,978
EAST COAST CENTRAL AMERICA: Mexico Panama Central America (other) ¹	5,273	7,694	130,728 657 5,343 974	49,194 930 103 28	2.859 440 4.500	154,748 2.027 9,414 5,530	5	47,159	10,005		10,010 47,159
Total Central America	5,301	11,662	137,702	50,255	7,799	212,719	5	47,159	10,005	:	57,169
EAST COAST SOUTH AMERICA: Brazil Colombia Venezula South America (other) ¹	3,524 1,167,126 51.783	25,708 350,107 18,195 3.491	64,860 44,691 5,646 7,558	1.806 45,839 6.938	1,083 27,854 2,662	90,568 401,211 1,264,660 72,432	30,299		15	23 23 2.165	30,337 2,165
Total South America	1,222,433	397,501	122,755	54,583	31,599	1,828,871	30,299		15	2,188	32,502
W EST INDIES: Cuba		15,623	4,751 6,429 59,447 1,996	37.570 998 6.075	24,340 78,962	66,661 8,245 610,482 2,340	42 60.0973 20		41,336 25 37,703 1,176	227 26,390	41,336 294 143,301 76,120
West Indies (other) ¹	87,468 539,005	15,623	88,590	25,751 70,394	2,867	132,053 819,781	23 61,058	93,159	901 81,141	26,772	262,130

PANAMA CANAL COMMISSION

	41,36/	225,775	20.195	191.921	12.311	12.430	1.057	967.77	16,291	43,136	242,979	891,261	1,082	,509,324	4.5
	C81,11	25,473	8.723	48.507		8.032	14	31,961		15,089	92,360	241,344	30		0.8
				109.289						11,422	42.236	230,572		620,338	0.8
07.7.01	10,008	197,383	7.623	4,995		624		176		7,775	41,280	270,524		410,842	0.5
					12,311							148,821	1.052	1,831,515	2.3
6 72 101	171,103	48,858	37,719	80.165	2,536	71,051	33,480	47,877	76,185	210,126	278,919	1,078,679	2,860		11.6
C35 CC	CC1 '77	6,051	9,139	13,374	449	21.907	5,505	15,202	75,400	31,201	41,790	242,771	LTT T	521.512	
172.05	10/*00	15,643	7,716	21,549	511	16,657	5,004	6,950	774	66,797	48,152	240,514		1,984,320	2.5
907 VC	74120	4,747	5,040	13,919	815	7,052	2,281	5,156	=	36,302	92.617	192,738	. 99	1,675,645	
14 566	000.41	4,897	8,189	5,697	65	7,931	2,714	3,546		11,293	29,048	87,946	••••••	1,106,600	
							17,976		•		67,312		2,017	3,816,574	
EUROPE: Baloium	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	France	Italy	Netherlands	Norway	Spain-Portugal	Sweden	United Kingdom	U.S.S.R.	West Germany	Europe (other) ¹	Total Europe	Africa	Grand total	Percent of Pacific-Bound Cargo

See footnotes at end of table.

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[Long tons]

Percent	p com bound cargo	:	3.4	0.4	52.6 3.2	70.9	2.3	5.8	0.1	.0	6.1	1.0	0.8	4.9 0.3	6.9		1.7	7.0	0.4	0.8	4.8
	Grand total		8,088,989 2,686,836	350,641	41,186,142 2.542.791	55,455,399	1,822,035	4,557,925	114,674	6,451	4,735,213	758.363	622,268	3,828,668 214.138	5,423,437		1,347,231	160,001	106,100,1	597,631	3,732,422
	Total		210.6/2/	227,312	32,477,571 1.823.445	44,012,048	1,474,694	105,161	49 76 660	000°°C7	130,829	116,604	3,682	1,348,678 67.954	1,536,918		1,146,692	100,21	58 488	94,913	1,353,480
	Asia (other) ¹		428,06/ 223,320		682,124 431.587	1,765,098	313,469	36,285		950,c	41,400	4.931		5,591 7 421	17,943		93,173	200,5	0127,110	2,758	130,691
	U.S.S.R				271,677	271,677			:				839		839		118,012	••••••	:		118,012
	Thai- land		3,041 1.278	11,635	45,616 7.484	69,054		336	:		336										
	South Korea		37.344	26,513	2,866,991 146.897	4,200,039	106,922	3,112			3,112	3.655		735	4,390			23	15 788		15,811
sia	Singa- pore		35.108		95,728 88,943	276,961	27		:									007	660		705
To Asia	Philip- pine Islands		7.587		333,250 4.311	353,524											:		:	30.983	30,983
	Japan		4,413,861 940,986	189,164	19,107,964 359.179	25,011,154	720,015	63,533	49	20,494	84,076	100.205	2,843	1,260,180	1,413,918		277.715	207°C	37.720	23.113	342,381
	Indo- nesia		20.339		133,617 9.640	167,287	1,475		:								••••••	1 000	CKK'I		1,995
	Hong Kong		145,941		58,144 235,811	576,216	33,873	\$			\$			25,726	25,726			126.1	10017	31.634	36,212
	China (Taiwan)		1,154,514		3,438,089 447.373	5,223,234	36,039	1,890			1,900	7.813		26,235 5.258	39.306			100'7	10 450	6,425	18,898
	China (Main- land)		236,645 324,568		5,444,371 92.220	6,097,804	262,874		• • • • • • • •					30.211 4 585	34,796		657,792	• • • • • • • •		· · · · · · · · · · · · · · · · · · ·	657,792
		EAST COAST NORTH AMERICA: United States:	North Atlantic ports	Great Lakes ports	Gulf ports	Total United States	East Coast Canada	EAST COAST CENTRAL AMERICA: Mexico	Panama	Central America (other) ¹	Total Central America	EAST COAST SOUTH AMERICA: Brazil	Colombia	Venezuela	Total South America	WEST INDIES:	Cuba	Jamaica	Netherlands west Indies	West Indies (other) ¹	Total West Indies

EUROPE:

	1.0	0.7	0.3	1.3	0.3	0.6	0.2	0.5	0.6	1.0	2.0	8.5	0.1	0.5	:	0.0
																100.0
	821,161	511,620	236,704	1,025,830	229,180	506,495	174,229	377,282	456,064	779,532	1,536,756	6,654,853	64,247	371,693	78,259,299	
	42,622	7,178	2,951	216,594	4,698	13,373	10,360	88,539	4,291	8,866	43,866	443,338	488	68,145	49,019,940	62.6
	86	2,438	2,549	64,056	2,198	3,992	1.331	17.075	454	80	27,836	122,095	427	6,603	2,397,726	
			••••••	••••••					3,837			3.837		:	394,365	0.5
				4,022	••••••		•••••				4,000	8,022		•••••	77,412	0.1
	35,497	812	20	15,881	2,500	34	••••••	40,830		572	1,629	97,775	31	1,716	4,429,796	5.7
	••••••	••••••		3,454				8,995			3,549	15,998		:	293,691	0.4
				631		•••••••••••••••••••••••••••••••••••••••					153	784	•	••••••	385,291	0.5
	6,720	3,501	382	88,674		8,614	9,029	13,297		5,852	5.171	141,240	30	59,826	27,772,640	35.5
								6,391				6,391	- - - - -		177,148	0.2
	••••••	120		243		356		1,538				2,257	• • • •		674,289	0.9
	319	307		39,633		377	••••••	413		1,415	1,528	43,992		••••••	5,363,369	6.9
	• • • • • • • • •									947		947	-		7,954,213	9.0
EUKOPE.	Belgium	France	Italy	Netherlands	Norway	Spain-Portugal	Sweden	United Kingdom	U.S.S.R.	West Germany	Europe (other) ¹	Total Europe	Asia (Middle East)	Africa	Grand total	Percent of Pacific-Bound Cargo

¹ Includes cargo not routed to permit segregation between definite countries.
² Includes both local and transshipped cargo.

PANAMA CANAL COMMISSION

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[Long tons]

		To	East Coasi	To East Coast United States	Sa		To E.C. Canada		To East Coast Central America	asi Central	America		
WEST COAST NORTH AMERICA: United States:	North Atlantic ports	South Atlantic ports	Great Lakes ports	Gulf ports	United States (other) ¹	Total	Canada	Mexico	Panama	Central America	Cristo- bal R P 2	Total	
Alaska Hawaii	\$59			360,604	31,057	391,661							
Mainland	662,090	61,587		1,954,681	168,855	2,847,213	355,148	4,056	33,864	2,958	18,211	59,089	
Total United States	662,745	61,587	:	2,444.220	211,029	3,379,581	355,148	4,056	33,864	2,958	18,211	59,089	
WEST COAST CANADA	682,133	292,498	:	324,819	346,723	1,646,173	25,802	6,208	:		10	6,218	
WEST COAST CENTRAL AMERICA: Costa Rica	22.766	22.819		26.136	50.814	122.535		20.619		2 008		72,627	
El Salvador	28,106	19,227		106,602		153,935			1.240		2,558	3,798	
Guatemala	61,812	39,324		27,791	47,970	176.897				••••••			
Honduras	9,443 24,803	22,259		19,290	• •	28.733 227.373	18.364	116.878			974	117.852	
				19,311		116,91				17,727	4	17.731	
Panama	105,944	4,768		127,478	5,700	243,890		•••••	••••••	236		236	
Central America (other) ¹	•••••		:	16,533	10,000	26,533	••••••	:		194	84	278	
Balboa, K.F. ⁴		132		204	61/	cc0,1		:					
Total Central America	252,874	108,529	•••••	523,656	115,203	1,000,262	18,364	137,497	1,240	20,165	3,620	162,522	
WEST COAST SOUTH AMERICA:													
Chile	735,041	78,639		272,123	125,682	1,211,485	73,975	2,108		4,916	268	7,292	
	198,C1 902 244	19,04/		129,288	26,203	276,985	31,136	647				647	
Peru	1.221.176	38.009	1.103	610.938	275.194	2.146.420	9.295	46.506	73.762	7/1.7	400 149	121 000	
South America (other) ¹	32,587	9,741		29,792	9,838	81,958	1,552	3,256			3,256	6,512	
Total South America	2,871,315	176,514	1,103	4,430,686	694,656	8,174,274	168,125	52,838	938,923	7,179	4,504	1,003,444	
OCEANIA:													
Australia	448,662	66,413	37,555	1,399,796	117,185	2,069,611	443,163	44,112	3,600	•••••	258	47,970	
French Oceania	18.851	701		(100,12	1.989	20.900							
	104,595	24,255		<i>911,17</i>	12,111	218,740	15.477	43,413			819	44,232	
	762 440	33,868		33,911	42,683	287,922	32,747	14				14	
l otal Occania	752,449	1 24,068	37,555	1,539,393	173,968	2,628,033	491,387	87,539	3,600	:	1,077	92,216	

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6,024 9,860 10,617	3,112 35,130 45	800 474 2,353	440 21,108 74,510 81,075 174,510 174,033	154,101 1, 0.2	4
602 155	44 104 8,625 1,150 8,625	2.027	820 5,745		2
6,024602	672 1,150	: :	:	8	3
30,806 (32,110	• •	4,597	81 21	m11	
1,335,719 839,389	357,263 604,527 6,951,775	552,667 263,071 1,020,935	123,355 2,294,993	14,343,694 31,172,017 50.1	1.02
	~	197,964 81,033 267,835		4 40	
1,094,786 65,482		59,436 53,189 514,203	1	-11	
5	9 7 6 290.034		1		
		2,104 24,251 74,689	1	- 011	ń
127,874 325,387		293,163 104,598 164,208	1		7.61
A: China. Taiwan	Hong Kong. Indonesia	apan Philippine Islands Singapore	Thailand	Total Asia	Percent of Atlantic-Bound Cargo

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			Total	794,019 692 400,259 1,194,970	375,842	1,968 75,679 10,334 21,241 4,290 10,344 58,021 22,352 204,229	45,587 17 1,954,339 1,462,853 <u>37,089</u> 3,499,885	54,991 7,901 20,961 117,565 201,418
								- Iou iou -
			West Indies (other) ¹	794,019 692 176,015 970,726	149,401	333 31,126 1,126 51,578	99 407,125 57,206 464,430	3,333 4,302 11,691
			Trini- dad/ Tobago			4,302 19,643 23,945	3,476	3,070 1,254 1,987 8,925 15,236
		To West Indies	Puerto Rico	95,509	23,518	1,968 1,596 1,596 1,596 12,015 12,015	20,009 11 1,295,041 1,319,571 3,600 2,638,232	41,771 6,647 443 102,435 151,296
led		To Wes	Nether- lands West Indies	121,126	••••••	71.377 71.377 71.377	282 6 196,543 77,315 274,146	675 94 383 1,152
Continu			Jamaica	1,804	39,215	10,334		558 647 1,390 2,595
Areas-			Haiti/ Domini- can Republic	5,712		85 228 313	25,197 	1,019 6,767 376 8,162
Trade			Cuba		163,708	3,872 3,872 10,344 4,250 9,992 28,458	52,154 8,761 33,489 94,404	4,565
rincipal	ons]		Total	279.066 279.066	426,269	42 27 1.280 1.280 2.230 1.709 3.958 9.986 9.986 9.986	134,759 836,155 96,328 67,610 16,634 1,151,486	15,537 26,523 1,514 43,574
ies in P	[Long tons]	America	South America (other) ¹	9,445	1,794	42 27 1,282 1,282 5,010 6,363	743 6,109 6,868	1,275
Countr		To East Coast South America	Vene- zuela	179,959	78,785	638 638 1,579 1,744 9,986	125,228 18,903 52,651 44,799 3,687 245,268	15,537 25,248 1,514 42,299
1984 Segregated by Countries in Principal Trade Areas-Continued		To East Co	Colom- bia	13,853	683	640 640 132 15 2,214 3,361	8.671 817,252 43,677 6,178 12,931 888,709	
4 Segres			Brazil	75,809	345,007	53 55 108	117 10,524 10,641	
198			West Coast North America: United States:	Alaska	West Coast Canada	WEST COAST CENTRAL AMERICA: Costa Rica El Salvador Guatemala Honduras Nicaragua Panama Central America (other) ¹ Total Central America	WEST COAST SOUTH AMERICA: Chile	OCEANIA: Australia Australia French Occania New Zealand. Occania (other) ¹ . Total Occania

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Table 9.-Origin and Destination of Commercial Cargo Through the Panama Canal From Pacific to Atlantic During Fiscal Year

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PANAMA CANAL COMMISSION

112,084	32,814	12,375	116,278	334,023	5,007	431	20,563	42,788	211,545	223,585	1,111,493	6,587,837	10.6
- - - - - - -	5,463	1,478		47,651	4,429	190	2,069			50,167	111,447	1,759,273	2.8
-	4,198	1,531	• • • • • •	29,497	••••••	238	3,666			32,629	71,759	114,509	0.2
- - - - -	4,740	618	116,278	107,382	578		4,451	17		44,661	278,725	3,205,504	5.2
-	104	101		9,264		3	141			7,012	16,625	484,426	0.8
	13,454	8,040		30,895	• • • • •		1,987			23,078	77,454	131,402	0.2
	4,855	607		17,823			1,922	••••••		22,129	47,336	86,720	0.1
112,084			•	91.511		••••••	6,327	42,771	211,545	43,909	508,147	806,003	1.3
	4,727	1,770		272,475		3,358	3,213			94,249	379,792	2,304,429	3.7
	607	256		21,223		299				12,070	34,455	60,200	0.1
	4,062	1,338		90,512		2,800	1,269			49,809	149,790	710,511	
	58	15		95,620		225	1,944			16,007	113,869	1,020,475	1.6
		161		65,120		34				16,363	81,678	513,243	0.8
ASIA: China	Taiwan	Hong Kong	Indonesia	Japan	Philippine Islands	Singapore	South Korea	Thailand	U.S.S.R.	Asia (other) ¹	Total Asia	Grand total	Percent of Atlantic-Bound Cargo

See footnotes at end of table.

Table 9.—Origin and Destination of Commercial Cargo Through the Panama Canal From Pacific to Atlantic During Fiscal Year 1984 Segregated by Countries in Principal Trade Areas—Continued

[Long tons]

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	225,286	France 278,082 278,082 278,082 436,118 950 751 658	11aly 4,823 340,431 345,254 309,886 26,778 2,125	Nether- lands 1.266.206 1.266.206 1.298.893 4,170	Spain/ Portugal 38 318.168 318.206 122.946	Sweden 	United Kingdom 16,500 	U.S.S.R. 32,567 32,567 261,701	Yugo- slavia 	West Germany 5,120 173,505 178,625 555,253	Europe (other) ¹ 2,816 727,638 730,454 1,651,528	<i>Total</i> 12,759 16,538 <u>3,961,904</u> 3,991,201
212.71	225,286	278,082 278,082 278,082 436,118 950 751 658	4.823 340.431 345.254 309,886 26,778	1,266,206 1,266,206 1,298,893	38 318.168 318.206	<u>84,428</u> 84,428	16,500 <u>191,793</u> 208,293	<u>32,567</u> 32,567	<u>5,223</u> 5,223	5,120 173,505 178,625	2,816 727,638 730,454	12,759 16,538 <u>3,961,904</u> 3,991,201
212.71	225,286	278,082 278,082 436,118 950 751 658	<u>340,431</u> 345,254 309,886 26,778	<u>1.266.206</u> 1.266.206 1.298.893	38 <u>318,168</u> 318,206	<u>84,428</u> 84,428	16,500 191,793 208,293	<u>32,567</u> <u>32,567</u>	<u>5,223</u> 5,223	<u>173,505</u> 178,625	<u>727,638</u> 730,454	16,538 <u>3,961,904</u> <u>3,991,201</u>
15.03- 15.03- 212.71	225,286	278,082 278,082 436,118 950 751 658	<u>340,431</u> 345,254 309,886 26,778	1,266,206 1,266,206 1,298,893	<u>318.168</u> 318,206	<u>84,428</u> 84,428	<u>191,793</u> 208,293	32,567	<u>5,223</u> 5,223	<u>173,505</u> 178,625	<u>727,638</u> 730,454	3.961,904 3.991,201
212.71	225.286	278,082 436,118 950 751 658	345,254 309,886 26,778	1,266,206 1,298,893	318,206	84,428	208,293	32,567	5,223	178,625	730,454	3,991,201
212.71	225,286	436,118 950 751 658	309,886 26,778	1.298,893								
2,000		950 751 658	26,778		122,946	159,432	758,480	261,701	15,853	555,253	1.651.528	
2,000	· · · · · · · · · · · · · · · · · · ·	751 658		4,170							1100 110 00	6.826.519
2,000	· · · · · · · · · · · · · · · · · · ·	751 658		4.170								
2,000		658	2,125			,	4.931			14,667	12,142	64,115
2,000	· • · · · • • · · · ·			2,805	4,277		824	2	2,286	\$7,383	13.820	84,309
2.000			9.047	•••••		••••	••••	•••••		1,931	6,255	17,891
2,000			1,902		6,165					250		8,317
		1,169	6,900	1.036	51,085	540	2,983	40	• • • • • • • • •	176,325	28,668	268,834
		11,069	2,938	9,744	1,313	•••••	1.680		••••	24,928	11.742	70,010
			57,300	1,000	4,764	•••••	•••••	•••••	•••••		1	63.065
	-	1,408	8,125	2,100	4,199	<u></u>	<u></u>	<u></u>	<u></u>	16,097	5,005	36,934
2.000	••••••	16,005	115,115	20,855	72,280	540	10,418	763	2,286	291,581	77,633	613,475
1,15	32,733	66,529	178,125	279,825	40,133	26,910	99,300		21,207	348,378	311,400	1,551,473
		581	13,587	19,422	339	113	2,906	11,785		111,766	19,889	195,621
	82						5,081	25,980	9,062	59,464	117,101	320,055
			•				•					963,351
3	2		15,485		10,711	2,034		269,391	14,436	16,106	126,018	554,826
2,73	34,268	169,799	323,794	393,503	119,008	38,171	207,547	349,565	75,068	655,556	755,259	3,585,326
			178	14,059	1.230		38,133			12,021	44,449	135,393
3,16				6,122			199.354				19,839	228,484
		45,702	4,225								15,126	83,718
												420,936
<u></u>	<u></u>	11,996	1.662	19,437	850	<u></u>	58,166	<u></u>	<u></u>	575	37,648	135,986
3,16	• • • • • • • • • • • • • • • • • • • •	67,769	9,902	155.621	49,194	12,264	376,349	•••••		23,775	204,259	1,004,517
		65	17		28						290	400
		835			773						362	1,970
						••••	26					26
		6,475	71	42,337	267	• • • • • • • • •	7,215	· • • • • • • • •		919	1,426	65,396
				22,633								22,633
					12	• • • • • • • • •		· · · · · · · · · ·			62	74
				• • • • • • • • •		•••••		842	• • • • • • • • •			972
<u></u>	<u></u>	136	<u></u>	<u></u>	1,250	<u></u>	2,980	<u></u>	<u></u>	1,763	2,520	8,649
	648	7,511	88	64,970	2,330		10,221	842	•••••	2,812	4,660	100,120
235.65	260,202	975,284	1 104 039									
200,00			1.104.007	3,200,048	683,964	294,835	1,571,308	645,438	98,430	1,707,602	3,423,793	16,121,158
	4 1.541 35 2.737 3.169 3.169	4 82 1.541 1.451 35 2 2,737 34,268 3,169	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

See footnotes at end of table.

Table 9.-Origin and Destination of Commercial Cargo Through the Panama Canal From Pacific to Atlantic During Fiscal Year 1984 Segregated by Countries in Principal Trade Areas-Continued

[Long tons]

													51	~		51	IC.	ΛL				63
	Percent of total	Atlantic- bound cargo	1.9 0.3 14.1	16.3	18.0	0.3	0.3	0.1	0.3	0.7 0.2	0.0	3.6	4 9	2.2	12.5). 1.1	28,4		4.4 0.4	0.2	0.9	7.2
		Grand Total	1,210,836 157,937 8 746 146	10,114,919	11,205,945	211,287	327,846 205,122	69,023 705 356	177,634	417,518 98,900	6,065	2,218,751	3 054 729	1,352,561	7,772,551	4,60/,5/3	17,693,567		2,766,665 259,344	112,519	715 748	4,461,145
		Total	12,397	822,445	1,899,122		966,6	9,452	58,529	1,010		130,269	28.736	12,000	19731	7,782	64,169				• •	
		Africa (other) ¹	58 170	58,370	140,663		2,569	9,452	13,938			25,959			19731	7,782	23,433		•		•	
		Tunisia		61,428	258,961	- - - - - -				1.010		1,010	17.468			· · ·	17,468					.
	To Africa	South Africa	77 985	27,985	136,100	- - - - -				752	•••••					· · ·			• •		•	
		Morocco	· · · · · · · · · · · · · · · · · · ·		373,196			•••••					1.049	12,000	•••••		13,049				•	
		Egypt	12,397	668,762	695,315		0.0.0.	1 549				4,579	10.219				10,219				•	
[Long tons]		Algeria		5,900	294,887			24 130	44,591			98,721								•••••	•	
[Lc	To Asia (Middle East)	Asia (Middle East)	017 EL	33,419			4,499	10 734		48,348 1,807		65,388	1.422		24,243		46,858			• • • • • • • • • •		
		WEST COAST NORTH AMERICA: United States:	Alaska Hawaii Mainand	Total United States	WEST COAST CANADA	WEST COAST CENTRAL AMERICA: Costa Rica	El Salvador	Honduras	Nicaragua	Panama	Balboa, R.P. ²	I otal Central America	WEST COAST SOUTH AMERICA: Chile	Colombia	Ecuador	South America (other) ¹	Total South America	OCEANIA:	Australia British Oceania	French Oceania	Oceania (other) ¹	

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ASIA

2.4	15	0.6	1.2	12.7	0.9	0.4	1.7	0.3	0.3	4.5		26.6			100.0
1.484.633	920 356	403 547	720.904	7,871,800	581,107	269,361	1,052,651	187.332	212.517	2 812 984		16,517,192	62,211,519		
		•		11.239	:		661			0	1	11,447	2,927,452		4.7
		•					199				1	11.012	259,437	11	0.4
													338,867		3 0.5
													5 164,085		5 0.3
									•				5 386,245	11	2 0.6
	•								•			5	3 1.378.875		
				216	-0+							3 435	8 399.943	11	2 0.6
		667	+C+	435				• • • • • • • • •	***************************************	•	14C.1	3,093	148.758		0
ASIA:	China	[aiwan	Hong Kong	ndonesia	Japan	Philippine Islands	Singapore	South Korea	hailand	J.S.S.R.	Asia (other)	Total Asia			Percent of Atlantic-Bound Cargo

¹Also includes cargo not routed to permit segregation between definite countries. ³Includes both local and transshipped cargo.

PANAMA CANAL COMMISSION

Table 10.—Important Commodity Shipments Over Principal Trade Routes Atlantic to Pacific

		Fiscal year	
EAST COAST UNITED STATES TO WEST COAST UNITED STATES:	1984	1983	1982
Canned and refrigerated foods, miscellaneous	1	1	1
Chemicals and petroleum chemicals	383	309	371
Caustic soda	188	127	154
Chemicals, unclassified	86	54	92
Petroleum chemicals, miscellaneous	109	128	125
Machinery and equipment, miscellaneous	3	8	
Manufactures of iron and steel	14	· · · · · · · ·	7
Plates, sheets, and coils Other and unclassified		••••	/
Nitrates, phosphates, and potash	64		135
Ammonium compounds	15	49	
	49	27	135
Phosphates	137	30	90
Ores and metals	137	30	90
Ore, alumina/bauxite	479	800	1,450
Petroleum and products	4/7	800	65
Crude oil Fuel oil, residual	61	381	159
Gasoline	75	87	494
Jet fuel	32	45	160
Kerosene			11
Lubricating oil	251	186	346
Other and unclassified	60	101	215
Miscellaneous	514	413	334
All other and unclassified	514	413	334
Total	1,595	1,637	2,388
EAST COAST UNITED STATES TO WEST COAST CANADA: Nitrates, phosphates, and potash Phosphates Miscellaneous All other and unclassified Total	$ \begin{array}{r} 937 \\ 937 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9$	<u>569</u> 569 <u>27</u> <u>27</u> 596	<u>601</u> 601
EAST COAST UNITED STATES TO WEST COAST CENTRAL AMERICA: Chemicals and petroleum chemicals, miscellaneous	10	20	13
Coal		88	505
Grains	697	1,924	
Corn	227 104	860 379	140 242
Sorghum	104	461	151
Wheat	210	219	241
Other and unclassified	8	5	19
Lumber and products, miscellaneous	6	2	5
Machinery and equipment, miscellanous	2	3	3
Manufactures of iron and steel, miscellaneous Minerals, miscellaneous	13	5	3
Borax		1	
Soda and sodium compounds	8		4
Sulfur	5		
Nitrates, phosphates, and potash	291	334	459
Ammonium compounds	76 85	117 121	25 214
Fertilizers, unclassified	03	121	214

Table 10.—Important Commodity Shipments Over Principal Trade Routes Atlantic to Pacific—Continued Image: Continued Image: Continued</t

[I housands of long tons]			
		Fiscal year	
EAST COAST UNITED STATES TO WEST COAST CENTRAL	1984	1983	1982
AMERICA—Continued Nitrates, phosphates, and potash—Continued			
Phosphates.	119	71	204
Potash	11	25	16
Ores and metals	<u></u>	<u></u>	2
Ores, miscellaneous			2
Other agricultural commodities	89	77	164
Oilseeds	26	55	136
Sugar	63	22	28
Petroleum and products	95	54	33
Diesel oil Gasoline		2 2	22 1
Fuel oil, residual.	78	45	
Lubricating oil	10	5	10
Petroleum products, miscellaneous	6		1
Miscellaneous	78	85	82
Flour, wheat		2	3
Paper and paper products	23 14	30 10	18 4
All other and unclassified	41	43	57
Total	1,281	2,593	2,067
10tui			2,007
EAST COAST UNITED STATES TO WEST COAST			
South America:			
Canned and refrigerated foods, miscellaneous	36	29	16
Chemicals and petroleum chemicals	183	186	
Caustic soda Chemicals, unclassified	42 128	45 134	33 125
Petroleum chemicals, miscellaneous	128	7	123
Coal and coke	161	227	100
Grains	2,806	3,100	3,231
Corn	347	619	824
Oats	3	7	15
RiceSorghum	85 22	20 122	7 75
Soybeans	137	162	146
Wheat	2,210	2,165	2.156
Other and unclassified	2	5	8
Lumber and products	7	15	15
Pulpwood	5	13	10
Other and unclassified	2	2	5
Machinery and equipment	66	67	139
Agricultural machinery and implements Automobiles, trucks, accessories, and parts	18 19	19 22	29 55
Construction machinery and equipment	18	13	29
Electrical machinery and apparatus	8	6	13
Other and unclassified	3	7	13
Manufactures of iron and steel	30	30	104
Angles, shapes, and sections	3	9	6
Plates, sheets, and coils	6 12	47	8 16
Wire, bars, and rods	3	8	61
Other and unclassified	6	2	13
Minerals, miscellaneous	14	23	34
Soda and sodium compounds	14	18	27
Sulfur	• • • • • • •	2	1
Other and unclassified	• • • • • • • •	3	6

EAST COAST UNITED STATES TO WEST COAST SOUTH AMERICA—Continued 1983 1982 Nitrates, phosphates, and potash 417 282 236 Ammonium compounds 22 8 17 Fertilizers, unclassified 230 150 109 Phosphates 147 111 96 Potash 147 111 96 Ores and metals 132 46 51 Ores, miscellaneous 5 7 144 Metals 127 39 37 Scrap 1111 30 26 Tin, including tinplate 2 3 4 Other and unclassified 144 122 34 Other and unclassified 43 2 -100 Sugar 433 2 -100 -100 Diseels 142 134 144 1212 Other and unclassified -1666 439 170 Diseel oil 183 130 53 Gasoline 142
Nitrates, phosphates, and potash 417 282 236 Ammonium compounds 22 8 17 Fertilizers, unclassified 230 150 109 Phosphates 147 111 96 Potash 18 13 14 Ores and metals 132 46 51 Ores, miscellaneous 5 7 14 Metals 127 39 37 Scrap 111 30 26 Tin, including tinplate 2 3 4 Other and unclassified 14 6 7 Other and unclassified 43 2 Other and unclassified 43 2 Other and unclassified 3 2 Other and unclassified 3 2 Petroleum and products 466 439 170 Diesel oil 183 130 53 Gasoline 3 3 54 54 20 Lupuitied natural gas 54 54
Fertilizers, unclassified. 230 150 109 Phosphates. 147 111 96 Potash 18 13 14 Ores and metals 132 46 51 Ores, miscellaneous 5 7 14 Metals 127 39 37 Scrap 111 30 26 Tin, including tinplate 2 3 4 Other and unclassified 14 6 7 Other and unclassified 14 5 10 Sugar 43 2
Phosphates 147 111 96 Potash 18 13 14 Ores and metals 132 46 51 Ores, miscellaneous 5 7 14 Metals 127 39 37 Scrap 111 30 26 Tin, including tinplate 2 3 4 Other and unclassified 14 6 7 Other and unclassified 44 10 12 Oilseeds 1 5 10 Sugar 43 2 Other and unclassified 3 2 Petroleum and products 466 439 170 Diesel oil 183 130 53 Gasoline 142 134 14 Jet fuel 5 12 Liquified natural gas 54 54 20 Lubricating oil 38 29 40 Other and unclassified 7 43 2 Miscellaneous 665 670
Potash 18 13 14 Ores and metals 132 46 51 Ores, miscellaneous 5 7 14 Metals 127 39 37 Scrap 111 30 26 Tin, including tinplate 2 3 4 Other and unclassified 14 6 7 Other agricultural commodities 44 10 12 Oilseeds 1 5 10 Sugar 43 2 Other and unclassified 3 2 Petroleum and products 466 439 170 Diesel oil 183 130 53 Gasoline 142 134 14 Jet fuel 5 12 Liquified natural gas 54 54 20 Lubricating oil 38 29 40 Other and unclassified 7 43 2 Miscellaneous 665 670 721 Bricks and tile 3
Ores, miscellaneous 5 7 14 Metals 127 39 37 Scrap 111 30 26 Tin, including tinplate 2 3 4 Other and unclassified 14 6 7 Other agricultural commodities 44 10 12 Oilseeds 14 6 7 Other and unclassified 43 2 $$ Other and unclassified $$ 3 2 Petroleum and products 466 439 170 Diesel oil 183 130 53 Gasoline 142 134 14 Jet fuel 5 12 $$ Liquified natural gas 54 54 20 Lubricating oil 38 29 400 Other and unclassified 7 43 2 Miscellaneous 665 670 721 Bricks and tile 3 3 665 Carbon black<
Metals. 127 39 37 Scrap 111 30 26 Tin, including tinplate 2 3 4 Other and unclassified 14 6 7 Other agricultural commodities 44 10 12 Oilseeds 1 5 10 Sugar 43 2 $$ Other and unclassified $$ 3 2 Petroleum and products 466 439 170 Diesel oil 183 130 53 Gasoline 142 134 14 Jet fuel 5 12 $$ Liquified natural gas 54 54 20 Lubricating oil 38 29 40 Other and unclassified 7 43 2 Miscellaneous 665 670 721 Bricks and tile 3 3 6 Carbon black $$ 1 1 Clay, fire, and china 17 <td< td=""></td<>
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Other and unclassified1467Other agricultural commodities 44 10 12 Oilseeds15 10 Sugar432 \dots Other and unclassified \dots 3 2 Petroleum and products 466 439 170 Diesel oil183 130 53 Gasoline142 134 14 Jet fuel5 12 \dots Liquified natural gas 54 54 20 Lubricating oil 37 37 41 Residual fuel oil 38 29 40 Other and unclassified 7 43 2 Miscellaneous 665 670 721 Bricks and tile 3 3 6 Carbon black \dots 1 1 Clay, fire, and china 17 10 Flour, wheat 44 59
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Petroleum and products 466 439 170 Diesel oil 183 130 53 Gasoline 142 134 14 Jet fuel 5 12 Liquified natural gas 54 54 20 Lubricating oil 37 37 41 Residual fuel oil 38 29 40 Other and unclassified 7 43 2 Miscellaneous 665 670 721 Bricks and tile 3 3 6 Carbon black 1 1 1 Clay, fire, and china 17 10 12 Flour, wheat 44 59 56
Gasoline 142 134 14 Jet fuel 5 12 Liquified natural gas 54 54 20 Lubricating oil 37 37 41 Residual fuel oil 38 29 40 Other and unclassified 7 43 2 Miscellaneous 665 670 721 Bricks and tile 3 3 6 Carbon black 1 1 1 Clay, fire, and china 17 10 12 Flour, wheat 44 59 56
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Liquified natural gas 54 54 20 Lubricating oil 37 37 41 Residual fuel oil 38 29 40 Other and unclassified 7 43 2 Miscellaneous 665 670 721 Bricks and tile 3 3 6 Carbon black 1 1 Clay, fire, and china 17 10 12 Flour, wheat 44 59 56
Lubricating oil 37 37 41 Residual fuel oil 38 29 40 Other and unclassified 7 43 2 Miscellaneous 665 670 721 Bricks and tile 3 3 6 Carbon black 1 1 Clay, fire, and china 17 10 12 Flour, wheat 44 59 56
Other and unclassified 7 43 2 Miscellaneous 665 670 721 Bricks and tile 3 3 6 Carbon black 1 1 1 Clay, fire, and china 17 10 12 Flour, wheat 44 59 56
Miscellaneous 665 670 721 Bricks and tile 3 3 6 Carbon black 1 1 1 Clay, fire, and china 17 10 12 Flour, wheat 44 59 56
Bricks and tile 3 3 6 Carbon black 1 1 1 Clay, fire, and china 17 10 12 Flour, wheat 44 59 56
Clay, fire, and china 17 10 12 Flour, wheat 44 59 56
Flour, wheat
Oil, coconut
Oil, vegetable 66 127 104 Paper and paper products 109 99 135
Paper and paper products 109 99 135 Resin 23 33 37
Rubber, manufactured
Tallow 43 49 34 Textiles 9 8 10
Textiles 9 8 10 All other and unclassified 342 263 302
Total
EAST COAST UNITED STATES TO BALBOA, R.P.:
Canned and refrigerated foods, miscellaneous
Grains
Wheat
Other and unclassified 2 10
Machinery and equipment, miscellaneous
Petroleum and products 186 248 68
Diesel
Fuel oil, residual14023728Other and unabagified21115
Other and unclassified 21 11 5 Miscellaneous 140 144 128
Oil, vegetable
All other and unclassified 126 130 110
Total

		Fiscal year	
	1984	1983	1982
EAST COAST UNITED STATES TO HAWAII: Miscellaneous	29	53	52
All other and unclassified	29	53	52
Total	29	53	52
EAST COAST UNITED STATES TO OCEANIA:		670	107
Chemicals and petroleum chemicals	<u>705</u> 560	<u> </u>	<u>427</u> 274
Caustic soda Chemicals, unclassified	145	172	117
Petroleum chemicals, miscellaneous	• • • • • • • •	8	36
Coal and coke		30 116	21 27
Rice		1	1
Soybeans	29 3	105 10	14 12
Other and unclassified Lumber and products	9		5
Pulpwood	9		5
Machinery and equipment	8	$\frac{12}{2}$	<u> </u>
Agricultural machinery and implements Automobiles, trucks, accessories and parts	8	2	10
Construction machinery and equipment	2	6	7
Electrical machinery and apparatus Other and unclassified	2	1	1 2
Manufactures of iron and steel, miscellaneous		3	3
Minerals, miscellaneous Nitrates, phosphates, and potash	500	1 710	488
Ammonium compounds	13	8	21
Fertilizers, unclassified	122	184	104
Phosphates Potash	348 17	513 5	358 5
Petroleum and products	265	293	159
Liquefied gas	66 16	21 8	25 30
Lubricating oil Residual fuel oil	2	144	
Petroleum coke	177	101	68
Other and unclassified Miscellaneous	4 612	19 574	36 800
Clay, fire and china		11	24
Glass and glassware Oil, vegetable	4	23	4 39
Paper and paper products	27	35	25
Resin Rubber, manufactured	12	19 1	9 4
Textiles			1
All other and unclassified	568	503	694
Total	2,136	2,309	1,952
EAST COAST UNITED STATES TO ASIA:		100	
Canned and refrigerated foods	6	7	7
Refrigerated foods	171	182	208
Fruit	104	89	107
Meat Other and unclassified	1 66	2 91	
Chemicals and petroleum chemicals	2,148	2,257	2,212
Caustic soda	49	56	2
Chemicals, unclassified	1,423	1,494	1,498

[
		Fiscal year	1003
AST COAST UNITED STATES TO ASIA—Continued	1984	1983	1982
Chemicals and petroleum chemicals—Continued			
Petroleum chemicals, miscellaneous	676	707	712
Coal and coke	7,838	8,729	20,484
Grains	20,962	29,326	28,896
Barley	0.070	104	12 515
Corn Rice	8,878	20,103 25	12,515 50
Sorghum	1,195	834	1,650
Soybeans	6,148	6,264	6,074
Wheat	4,679	1,955 41	8,477 130
Other and unclassified	62 229	281	196
Lumber and products	225	258	174
Pulpwood Other and unclassified	4	23	22
Machinery and equipment	49	67	67
Agricultural machinery and implements	4	6	11
Automobiles, trucks, accessories and parts	10	7	8
Construction machinery and equipment	10	23 11	23 10
Electrical machinery and apparatus Other and unclassified	16	20	15
Manufactures of iron and steel	103	96	162
Angles, shapes, and sections	34	33	30
Plates, sheets, and coils	15	8	19 21
Tubes, pipes, and fittings	3	21	16
Other and unclassified	51	30	76
Minerals, miscellaneous		1	1
Nitrates, phosphates, and potash		4,961	3,981
Ammonium compounds	93 329	47 401	40 232
Fertilizers, unclassified Phosphates	4.775	4,477	3,659
Potash	10	36	50
Ores and metals	1,988	1,810	1,015
Ores, miscellaneous	7	25	12
Metals	1,981	1,785	2
Aluminum	26	26 69	2
Iron Scrap	1,946	1,654	964
Tin, including tinplate	1	3	11
Other and unclassified	8 24	33 59	26 201
Other agricultural commodities	22	34	30
Beans, edible Cotton, raw	22	23	152
Other and unclassified	2	2	19
Petroleum and products	598	1,234	709
Gasoline	4	18	31
Liquefied gas	178 103	360 58	100
Lubricating oil Petroleum coke	260	590	61
Diesel	34	24	136
Residual fuel oil		145	217 31
Jet fuel Other and unclassified		29 10	67
Miscellaneous	4,689	4,039	4,115
Bricks and tile		1	3
Carbon black			2

[Thousands of long tons]

ΕA

[I housands of long tons]			
		Fiscal year	
EAST COAST UNITED STATES TO ASIA—Continued	1984	1983	1982
Miscellaneous-Continued			
Clay, fire and china	320	323	380
Fibers, plant	21	15	39
Flour, wheat	50	103	150
Groceries, miscellaneous	12	11	14
Oil, vegetable	67	47	115
Paper and paper products	164	243	208
Resin	80	106	240
Rubber, manufactured	27	5	17
Tallow Textiles	2 27	6	17 113
Tobacco and manufactures	7	45	53
All other and unclassified	3,896	3,110	2,768
Total	44,012	53,049	62,254
EAST COAST CANADA TO WEST COAST UNITED STATES:			
Petroleum and products			26
Gasoline			26
Miscellaneous	46		12
Pulpwood	1	2	5
All other and unclassified	45	9	7
Total	46	11	38
EAST COAST CANADA TO WEST COAST CENTRAL AMERICA:			
Manufactures of iron and steel, miscellaneous]	8
Miscellaneous	<u> </u>	57	<u> </u>
Paper and paper products	24	47	9
Total	36	58	27
EAST COAST CANADA TO WEST COAST SOUTH AMERICA:			
Grains	5	8	7
Barley	5	5	
Other and unclassified		3	7
Machinery and equipment, miscellaneous	5 4	5 17	4
Manufactures of iron and steel, miscellaneous Minerals, miscellaneous	12	17	20 13
Asbestos	12	13	13
Ores and metals	2	13	3
Metals	2		3
Tin, including tinplate			1
Other and unclassified	2	1	2
Miscellaneous	107	89	94
Paper and paper products	48	45	54
All other and unclassified	59	44	40
Total	135	133	141
EAST COAST CANADA TO OCEANIA:	1.20	100	104
Miscellaneous	129	100	<u> </u>
Paper and paper products	10 119	100	167
Total	129	100	184

		Fiscal year	
	1984	1983	1982
EAST COAST CANADA TO ASIA: Canned and refrigerated foods	43	49	60
Refrigerated foods	43	49	60
Fish	25	31	39
Other and unclassified	18	18	21
Chemicals and petroleum chemicals, miscellaneous	176	4 88	2 145
Grains Barley			
Corn			20
Soybeans	176	45 43	60 43
Wheat Other and unclassified	 <i>.</i>		14
Lumber and products	228	146	120
Pulpwood	226 2	144	120
Other and unclassified	1		2
Manufactures of iron and steel, miscellaneous	42	58	37
Ores and metals	335	<u> </u>	$\frac{203}{74}$
Ores, miscellaneous Metals	218	442	129
Aluminum	40	142	119
1ron	9	87 160	10
ScrapOther and unclassified	118 51	53	
Miscellaneous	650	674	650
Paper and paper products	70	105	89
Resin Slag	16	26 15	36 19
All other and unclassified	564	528	506
Total	1,475	1,569	1,219
EAST COAST CENTRAL AMERICA TO WEST COAST UNITED			
STATES: Nitrates, phosphates, and potash	14	28	29
Amonium compounds	14	15	29
Fertilizers, unclassified		13	
Petroleum and products	<u>•••••</u>	<u>••••</u>	106
Residual fuel oil Miscellaneous			
All other and unclassified	14	19	
Total	28	47	135
EAST COAST CENTRAL AMERICA TO WEST COAST CENTRAL			
AMERICA: Nitrates, phosphates, and potash	132	102	101
Ammonium compounds	25		38
Phosphates			21 42
Fertilizers, Petroleum and products	107 4,092	102 3,247	2,199
Crude oil	931	1,378	875
Diesel oil	79	139	159
Liquefied gas	312 2,337	198 1,396	5 908
Gasoline			4
Other and unclassified	433	136	248

[I nousands of long tons]			
		Fiscal year	
EAST COAST CENTRAL AMERICA TO WEST COAST CENTRAL AMERICA—Continued	1984	1983	1982
Miscellaneous	16	3	6
All other and unclassified	16	3	6
Total	4,240	3,352	2,306
EAST COAST CENTRAL AMERICA TO WEST COAST SOUTH AMERICA:			
Nitrates, phosphates, and potash	26	20	
Fertilizers, miscellaneous	26	20	
Other agricultural commodities	5	<u></u>	10
Sugar	5	· · · · · · · · ·	10
Petroleum and products	70	5	17
Other and unclassified	70	5	17
Miscellaneous	106	39	42
All other and unclassified	106	39	42
Total	207	64	69
EAST COAST CENTRAL AMERICA TO BALBOA, R.P.:			
Petroleum and products	65	56	99
Diesel oil	4	33	62
Fuel, oil, residual	61	23	30 7
Total	65	56	
EAST COAST CENTRAL AMERICA TO OCEANIA: Petroleum products	46		
Miscellaneous	11	4	6
All other and unclassified	———————————————————————————————————————	4	6
Total	57	4	<u>6</u>
EAST COAST CENTRAL AMERICA TO ASIA: Chemicals and petroleum chemicals	13	10	24
Nitrates, phosphates, and potash		10	7
Phosphates			2
Fertilizers, miscellaneous		10	5
Ores and metals, miscellaneous	43	61	73
Other agricultural commodities	2		
Coffee	2	11	10
Petroleum and products	•••••	<u>56</u> 56	· · · · · · ·
Crude petroleum Miscellaneous	73	76	
All other and unclassified	73	76	38
Total	131	224	152
			152
EAST COAST SOUTH AMERICA TO WEST COAST UNITED STATES:			
Canned and refrigerated foods, miscellaneous	16	2	
Chemicals and petroleum chemicals	74	90	3
Lumber and products, miscellaneous	31	24	2
Manufactures of iron and steel, miscellaneous Ores and metals	171 30	181 44	54 19
Ores	27	44	19
Alumina/bauxite	27	24	19
Other and unclassified		24	17
Metals, miscellaneous	3		
Other agricultural commodities	6	11	5
Cocoa and cacao beans	• • • • • • •	1	1

[f nousands of long tons]			
		Fiscal year	
EAST COAST SOUTH AMERICA TO WEST COAST UNITED	1984	1983	1982
STATES—Continued			
Other agricultural commodities—Continued	6	5	4
Coffee	6	5	4
Sugar, raw Petroleum and products	450	480	295
	107	56	64
Asphalt Crude oil	136	258	48
Diesel oil		29	
Fuel oil, residual	62	50	
Gasoline	89	87	48
Jet fuel	32	• • • • • • •	90
Kerosene		• • • • • • •	45
Liquefied gas Miscellaneous	97	38	30
Paper and products	10	23	7
All other and unclassified	87	15	23
Total	875	870	408
EAST COAST SOUTH AMERICA TO WEST COAST CANADA:			
Manufactures of iron and steel	43	33	20
Miscellaneous	16		17
All other and unclassified	16		17
Total	59	33	37
i otal			
EAST COAST SOUTH AMERICA TO WEST COAST CENTRAL			
AMERICA:			
Coal	103	79	79
Grains	205		62
Sorghum			38
Soybeans	197		19
Other and unclassified	8		5
Nitrates, phosphates, and potash	23	55	4
Fertilizers, miscellaneous	23	55	4
Petroleum and products	594	669	<u> </u>
Crude oil	594	667 2	/54
Liquefied gas	• • • • • • • •	2	61
Other agricultural commodities	12	52	28
Sugar	12	52	28
Miscellaneous	48	7	23
All other and unclassified	48	7	23
Total	985	862	1,014
10tai	705		
East Coast South America to West Coast			
South America:			
Chemicals and petroleum chemicals, miscellaneous	18	12	25
Grains	7	2	<u>••••</u>
Oats	1	2	• • • • • • •
Grains, miscellaneous	6		
Minerals, miscellaneous			3
Salt	57	62	22
Nitrates, phosphates, and potash	57	62	22
Fertilizers, unclassified	57 28	62 26	15
Ores and metals	18	14	
Ore, alumina/bauxite	10	14	,

Table 10.-Important Commodity Shipments Over Principal Trade Routes Atlantic to Pacific-Continued Image: Continued Image: Continued</t

[Thousands of long tons]		PT 1	
FAST CONST SOUTH AMERICA TO WEST CONST	100.1	Fiscal year	
EAST COAST SOUTH AMERICA TO WEST COAST SOUTH AMERICA-Continued	1984	1983	1982
Ores and metals—Continued			
Metals, miscellaneous	10	12	6
Other agricultural commodities	<u></u>	18	10
Sugar		13	
Other and unclassified	1.560	5	10
Petroleum and products	1,568	1,654	1,643
Crude oil Diesel oil	1,085	1,116 168	1,165
Fuel oil. residual	26	112	104
Gasoline	224	180	96
Jet fuel	25	18	
Liquefied gas	23	4	59
Lubricating oil Other and unclassified	83	44 12	21
Miscellaneous	151	82	127
All other and unclassified	151	82	127
Total	1,829	1,856	1,845
			1,045
EAST COAST SOUTH AMERICA TO BALBOA, R.P.: Petroleum and products	42	74	46
Diesel oil	20	19	40
Gasoline	20	8	
Fuel oil, residual		47	30
Miscellaneous	5	4	1
All other and unclassified	5	4	1
Total	47	78	47
EAST COAST SOUTH AMERICA TO HAWAII:			
Petroleum and products	59	<u></u>	27
Jet fuel	26		27
Kerosene	33	• • • • • • • •	
Nitrates, phosphates, and potash	<u>••••</u>	<u>•••</u>	
Fertilizers, unclassified		<u></u>	
Total	59	<u></u>	38
EAST COAST SOUTH AMERICA TO OCEANIA			
Petroleum and products	30	25	
Miscellaneous	2	47	9
All other and unclassified	3	47	9
Total	33	72	9
EAST COAST SOUTH AMERICA TO ASIA:	22	10	1.5
Canned and refrigerated foods, miscellaneous Chemicals and petroleum chemicals, miscellaneous	22 47	19 38	15 153
Lumber and products, miscellaneous	32	29	133
Manufactures of iron and steel, miscellaneous	88	143	28
Nitrates, phosphates, and potash	<u></u>	2	19
Fertilizers, miscellaneous		2	19
Ores and metals	290	323	284
Ores	121	103	107
Alumina/bauxite	49	16	23
Copper Manganese			13 64
Other and unclassified	37	13	7
Metals, miscellaneous	169	220	177
Other agricultural commodities	<u>••••</u>	4	7
Cotton, raw	••••	2	5

		Fiscal year	
	1984	1983	1982
EAST COAST SOUTH AMERICA TO ASIA—Continued Other agricultural commodities—Continued			
Other and unclassified		2	2
Petroleum and products	1,031	1,093	1,660
Crude oil	892	846 61	1,360 119
Diesel oil Gasoline	• • • • • • •	53	46
Jet fuel	92	30	87
Liquefied gas		8	
Residual fuel oil Other and unclassified		48 47	38 10
Miscellaneous	27	32	31
Paper and products	16		
All other and unclassified	11	32	31
Total	1,537	1,683	2,208
WEST INDIES TO WEST COAST UNITED STATES:			
Chemicals and petroleum chemicals, miscellaneous	99		24
Minerals, miscellaneous	24	24	<u></u>
Salt	24	24	
Ores and metals	253	284	159
Ore, alumina/bauxite	184 69	251 33	159
Metals, miscellaneous Petroleum and products	233	487	568
Asphalt	27	31	5
Liquefied gas	17		
Fuel oil, residual	60	287 58	81 355
Gasoline Jet fuel	60	58 64	122
Lubricating oil	69	47	5
Miscellaneous	46	<u></u>	<u> </u>
All other and unclassified	46	<u></u>	1
Total	655	795	752
WEST INDIES TO WEST COAST CANADA:			6
Machinery and equipment	· · · · · · · · ·	<u></u>	6
Electrical machinery and apparatus Ores and metals		4	6
Ore, alumina/ bauxite		4	6
Total		4	12
WEST INDIES TO WEST COAST CENTRAL AMERICA	2	1	2
Chemicals and petroleum chemicals, miscellaneous Other agricultural commodities	18	11	13
Sugar	18	11	13
Petroleum and products	187	265	675
Crude oil		34	43
Diesel oil	81	97 7	267 189
Fuel oil, residual		78	140
Lubricating oil	6	4	4
Other and unclassified	51	45	32
Miscellaneous	71	45	<u> </u>
Cement	4 67	6 39	20
Total	278	322	728
l otal			

		Fiscal year	
	1984	1983	1982
WEST INDIES TO WEST COAST SOUTH AMERICA:		2	~
Chemicals and petroleum chemicals, miscellaneous Other agricultural commodities	53	3 47	5
Minerals, miscellaneous	6	9	
Sulfur	6		
Ores and metals	12		1
Ores, miscellaneous	7		1
Metals, miscellaneous	5		
Petroleum and products	733	975	1,453
Crude oil		45	52
Dieset oil	357	363	471
Fuel oil, residual Gasoline	91 147	53 379	25 729
Jet fuel	5	28	36
Kerosene	39	26	40
Liquefied gas		7	8
Lubricating oil	79	56	77
Other and unclassified	15	18	15
Miscellaneous	16	27	20
All other and unclassified	16	27	20
Total	820	1,061	1,479
West Indies to Balboa, R.P.:			
Petroleum and products	97	297	182
Diesel oil	28	110	59
Fuel oil, residual	5	117	102
Gasoline Other and unclassified	22 42	65 5	15
Miscellaneous		5	13
All other and unclassified			13
Total	97	297	195
WEST INDIES TO HAWAII			
Petroleum and products	268	323	388
Diesel oil		16	
Jet fuel	268	297	388
Residual fuel oil		10	
Total	268	323	388
West Indies to Oceania:	30		07
Minerals, miscellaneous	38	44	97
Salt Other agricultural commodities	38 41	44	97
	41	•••••	15
Sugar Petroleum and products	180		15 69
Diesel oil	46	16	4
Gasoline	78	48	6
Jet fuel	34	28	54
Lubricating oil	4		5
Other and unclassified	18	7	
Miscellaneous	3	4	14
All other and unclassified	3	4	14
Total	262	147	195

Table 10.—Important Commodity Shipments Over Principal Trade Routes Atlantic to Pacific—Continued Image: Continued Image: Continued</t

		Fiscal year	
	1984	1983	1982
West Indies to Asia: Canned and refrigerated foods	25	14	21
	<u> </u>	$\frac{14}{7}$	21
Fish, refrigeratedOther and unclassified	6	7	21
Chemicals and petroleum chemicals, miscellaneous	38	49	17
Ores and metals	36	46	48
Ores	31	39	43
Alumina/bauxite	26	39	36
Other and unclassified	5		7
Metals, miscellaneous	5	7	5
Other agricultural commodities	1,162	1,394	1,466
Sugar	1,161	1,393	1,464
Other and unclassified Petroleum and products	70	439	374
Diese! oil			36
Liquefied gas		86	
Gasoline		78	7
Jet fuel		71	246
Fuel oil, residual		138 66	58 27
Lubricating oil Petroleum products, miscellaneous	38	00	21
Miscellaneous	22	34	15
All other and unclassified	22	34	15
Total	1,353	1,976	1,941
EUROPE TO WEST COAST UNITED STATES:			
Canned and refrigerated foods, miscellaneous	46	39 24	36
Chemicals and petroleum chemicals	5	2	15
Caustic soda Chemicals, unclassified	18	22	8
Lumber and products, miscellaneous	20	17	15
Machinery and equipment	193	150	152
Automobiles, trucks, accessories and parts	185	138	148
Construction machinery and equipment	5	4	1
Electrical machinery and apparatus Other and unclassified	1	5	3
Manufactures of iron and steel	780	610	732
Angles, shapes, and sections	53	34	88
Plates, sheets, and coils	469	379	308
Tubes, pipes, and fittings	33	14	28
Wires, bars, and rods	108	41	104
Other and unclassified Nitrates, phosphates, and potash	117 346	142 244	204 317
Ammonium compounds	100	63	163
Fertilizers, unclassified	200	159	78
Nitrate of soda	42	22	76
Other and unclassified	4		
Ores and metals	51	92	14
Ores, miscellaneous	12 39	20 72	1 13
	29	63	1
Iron Other and unclassified	29 10	9	12
Petroleum and products	53	23	94
Other and unclassified	53	23	94
Miscellaneous	1,428	953	833
Bricks and tile	10	8	12

Table 10.-Important Commodity Shipments Over Principal Trade Routes Atlantic to Pacific-Continued Image: Continued Image: Continued</t

		Fiscal year	
	1984	1983	1982
EUROPE TO WEST COAST UNITED STATES—Continued Miscellaneous—Continued			
Cement	92	35	
Glass and glassware	1	2 8	1
Liquors and wines Marble and stone	9	2	6
Paper and paper products	201	57	42
Rubber, manufactured	1,108		1 769
All other and unclassified	2.940	2,152	2.208
1 ota1			
EUROPE TO WEST COAST CANADA:	7	5	5
Canned and refrigerated foods, miscellaneous Machinery and equipment	7 13	5 14	5
Automobiles, trucks, accessories and parts	6	5	
Other and unclassified	7	9	1
Manufactures of iron and steel		68	209
Angles, shapes, and sections Plates, sheets, and coils	22 43	7 27	38 84
Tubes, pipes, and fittings	16	2	19
Wire, bars, and rods	26	6	25
Other and unclassified Nitrates, phosphates, and potash	30 7	26 11	43
Fertilizers, unclassified			<u></u>
Petroleum and products	<u></u>	<u></u>	6
Asphalt	283	164	6 174
Bricks and tile	1		2
Liquors and wines	1	3	3
All other and unclassified	281	161	169
Total	447	262	403
EUROPE TO WEST COAST CENTRAL AMERICA:			
Canned and refrigerated foods, miscellaneous	4	1	
Chemicals and petroleum chemicals, miscellaneous	13 53	38 33	6 48
Grains Corn	4	1	10
Wheat	30	25	34
Other and unclassified	19	7	4
Machinery and equipment	41	24	35
Automobiles, trucks, accessories and parts Other and unclassified	32	14	24
Manufactures of iron and steel	46	64	55
Angles, shapes, and sections	11	11	3
Plates, sheets, and coils	15	21	26 3
Wire, bars, and rods	14	15	17
Other and unclassified	4	17	6 225
Nitrates, phosphates, and potash	<u> </u>	35	56
Ammonium compounds Fertilizers, unclassified	240	204	162
Potash	11	28	7
Ores and metals	10	9	1
Metals, miscellaneous Petroleum and products	10 239	3	
Other agricultural commodities	25	101	24

		Fiscal year	
	1984	1983	1982
EUROPE TO WEST COAST CENTRAL AMERICA-Continued			
Other agricultural commodities—Continued Sugar	25	101	24
Miscellaneous	139	125	100
Cement	1		1
Glass and glassware		1	$\frac{2}{1}$
Paper and paper products	124	120	96
Total	841	665	494
EUROPE TO WEST COAST SOUTH AMERICA:	26	28	41
Canned and refrigerated foods	20	14	30
Canned foods	16		24
Milk Other and unclassified	5	3	6
Refrigerated foods	5	14	
Dairy products	32	3 11	7
Other and unclassified Chemicals and petroleum chemicals	63	58	75
Caustic soda	4	4	6
Chemicals, unclassified	56	51	62 7
Petroleum chemicals, miscellaneous Coal and coke	3	3	
Grains	47	83	28
Barley	5	1	14
Oats	3 16	16 19	27
Rice	5	20	
Other and unclassified	18	27	5 4
Lumber and products	3	1	
Pulpwood Other and unclassified	2	1	3
Machinery and equipment	93	109	183
Agricultural machinery and implements	17 22	20 26	29 55
Automobiles, trucks, accessories and parts Construction machinery and equipment	22	35	54
Electrical machinery and apparatus	15	14	25
Other and unclassified	12	14	20 158
Manufactures of iron and steel	<u> </u>	<u> </u>	28
Angles, shapes, and sectionsPlates, sheets, and coils	48	46	51
Tubes, pipes, and fittings	13	13	24
Wire, bars, and rods	19 19	14 32	24 31
Other and unclassified Minerals, miscellaneous	22	37	38
Soda and sodium compounds	22	36	36
Other and unclassified		111	2 158
Nitrates, phosphates, and potash	16	24	36
Ammonium compounds Fertilizers, unclassified	48	47	87
Phosphates	7 10	20 19	18 17
Potash Other and unclassified	10	19	
Ores and metals	21	16	36
Ores, miscellaneous	4	1	11 25
Metals	17	15	23

		Fiscal year	
	1984	1983	1982
EUROPE TO WEST COAST SOUTH AMERICA—Continued Ores and metals—Continued			
Iron	1	3	3
Tin, including tinplate	8	5	14
Other and unclassified	8 52	7 75	8 44
Other agricultural commodities	52	<u> </u>	34
SugarOther and unclassified		6	10
Petroleum and products	64	131	81
Diesel oil	42	53	26
Gasoline	4	23	5
Liquefied gas Residual fuel oil		27 20	17
Other and unclassified	8	8	27
Miscellaneous	478	414	462
Ammunition and explosives	1	2	1
Bricks and tileCement	5 3	6 2	17
Flour, wheat	41	29	15
Glass and glassware	6	6	20
Groceries, miscellaneous	3	9 7	3
Liquors and wines	2		12
Oil, vegetable	1		2
Paper and paper products	33	39	55
Resin Rubber, manufactured	63	8 5	8 4
Textiles	7	5	8
Wax, paraffin	7	4	5
All other and unclassified	360	292	305
Total	1,079	1,192	1,308
EUROPE TO OCEANIA: Canned and refrigerated foods, miscellaneous	15	14	14
Chemicals and petroleum chemicals	164	111	117
Caustic soda	45	30	29
Chemicals, unclassified	108	67	79
Petroleum chemicals, miscellaneous	11 28	14	9 1
Machinery and equipment	24	31	36
Agricultural machinery and implements	1	1	3
Automobiles, trucks, accessories and parts	14	11	21
Construction machinery and equipment Electrical machinery and apparatus	32	12	8
Other and unclassified	4	4	22
Manufactures of iron and steel	28	29	37
Angles, shapes, and sections	4	5	5
Plates, sheets, and coils	7 7	7 3	8 7
Wire, bars, and rods	6	6	10
Other and unclassified	4	8	7
Minerals, miscellaneous	0	7	6
SaltSoda and sodium compounds	9 1	6	5
Nitrates, phosphates, and potash	69	51	17
Ammonium compounds	13	1	2
Fertilizers, unclassified	19	32	15

		Fiscal year	
Evener to Opprove Continued	1984	1983	1982
EUROPE TO OCEANIA—Continued Nitrates, phosphates, and potash—Continued			
Phosphates		17	
Potash	37	1	
Ores and metals, miscellaneous Other agricultural commodities, miscellaneous	2 6	9	1
Petroleum and products	60	5	10
Lubricating oil	7	2	8
Other and unclassified	53	3	2
Miscellaneous	485	505	580
Bricks and tile	2	1	4
Cement	18 12	16 9	30 9
Flour, wheat	2	2	9
Groceries, miscellaneous	4	2	. 7
Liquors and wines	2	9	3
Oil, vegetable	26	16	11
Paper and paper productsRubber, manufactured	9	6	7
Textiles		i	1
All other and unclassified	410	442	507
Total	891	766	828
Europe to Asia:			
Canned and refrigerated foods	14	13	14
Refrigerated foods, miscellaneous	14	13	14
Chemicals and petroleum chemicals	251	283	182
Caustic soda	19	13	8
Chemicals, unclassified	219	234	151
Petroleum chemicals, miscellaneous Coal and coke	13	36	23 59
Lumber and products, miscellaneous	2		19
Machinery and equipment	7	9	13
Automobiles, trucks, accessories and parts	7	9	13
Ores and metals, miscellaneous	48		13
Petroleum and products, miscellaneous Miscellaneous	54 67	53 104	15 31
Paper and paper products		17	
All other and unclassified	67	87	31
Total	443	462	346
AFRICA TO WEST COAST UNITED STATES:			
Canned and refrigerated foods, miscellaneous			1
Manufactures of iron and steel, miscellaneous	88	76	115
Ores and metals	40	22	91
Metals	14		6
Other and unclassified	14	11	6
Ores	26		85
Manganese ore Lead ore	21	3	50 33
Other and unclassified	5		2
Petroleum and products	143	177	181
Crude oil	59	147	47
Gasoline	28	30	27
Other and unclassified	56	• • • • • • •	107

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Table 10.—Important Commodity Shipments Over Principal Trade Routes Atlantic to Pacific—Continued Vertical Vertical</t

		Fiscal year	
AFRICA TO WEST COAST UNITED STATES—Continued	1984	1983	1982
Miscellaneous	21	6	11
All other and unclassified	21	6	11
Total	292	281	399
AFRICA TO WEST COAST CANADA: Manufactures of iron and steel, miscellaneous		4	40
Miscellaneous	4	47	40 31
Phosphates			29
All other and unclassified	4	7	2
Total	4	11	71
AFRICA TO WEST COAST CENTRAL AMERICA:			
Canned and refrigerated foods	1		
Nitrates, phosphates, and potash	<u></u>	32	21
Fertilizer, miscellaneous	• • • • • • • •	12 20	
Phosphates Miscellaneous	3		21
All other and unclassified	3		
Total	4	32	21
AFRICA TO WEST COAST SOUTH AMERICA: Manufactures of iron and steel, miscellaneous		(27
Miscellaneous	3	6 5	27 13
All other and unclassified	3	5	13
Total	3	11	40
AFRICA TO ASIA: Canned and refrigerated foods	68	61	59
Fish, refrigerated	68	59	52
Other and unclassified		2	7
Nitrates, phosphates, and potash	<u>.</u>	<u>•••••</u>	<u> 6</u>
Phosphates Miscellaneous	· · · · · · · ·	• • • • • • • •	6
All other and unclassified	<u></u>	<u></u>	9
Total	68	61	74
ASIA (MIDDLE EAST) TO WEST COAST UNITED STATES: Miscellaneous	61	61	13
Chemicals, miscellaneous			
Liquefied gas	28		
All other and unclassified	33	22	13
Total	61	61	13
ASIA (MIDDLE EAST) TO WEST COAST SOUTH AMERICA:			
Miscellaneous	<u></u>	2	4
All other and unclassified	<u></u>	2	4
Total		2	4

Table 11.—Important Commodity Shipments Over Principal Trade Routes Pacific to Atlantic

[]		Fiscal year	
West Coast United States to East Coast United States:	1984	1983	1982
Canned and refrigerated foods, miscellaneous Chemicals and petroleum chemicals	1 93	8 94	1 85
Chemicals, unclassified	90	78	78
Petroleum chemicals, miscellaneous	3 59	34	7 5
Minerals, miscellaneous Soda and sodium compounds	<u>105</u> 68	<u>87</u> 87	<u> </u>
Salt Petroleum and products	37 2,553	6,663	32,369
Crude oil	1,816	5,923 190	31,249 269
Fuel oil, residual	151	63	284
Gasoline Lubricating oil	117 96	115	88 131
Other and unclassified Miscellaneous	46 428	270 279	348 266
All other and unclassified	428	279	266
Total West Coast United States to East Coast Canada:	3,239	7,165	32,865
Petroleum and products	327	26	<u></u>
Diesel oil Other and unclassified	193 134		
Miscellaneous All other and unclassified	<u>28</u> 28	8	<u>10</u> 10
Total	355	34	10
West Coast United States to East Coast South America:			
Canned and refrigerated foods	8	15	26
Canned foods, miscellaneous Refrigerated foods	5 3	5 10	14 12
Fruit, excluding bananas Other and unclassified	3	9	12
Chemicals and petroleum chemicals, miscellaneous Coke, coal type	8 27	3	3 10
Grains	60	21	42
WheatBarley	58	18	23 17
Other and unclassified	2 31	3 35	2 41
Pulpwood Other and unclassified	31	30 5	34
Machinery and equipment, miscellaneous	3	52	5
Manufactures of iron and steel, miscellaneous Minerals, miscellaneous	45	83	112
Borax	3 6	5 20	7 15
Soda and sodium compounds Infusorial earth	28 8	58	85 5
Nitrates, phosphates, and potash	<u> </u>	7	<u></u>
Potash		6	• • • • • • •
Ammonium compounds Ores and metals	1	<u> </u>	2
Metals, miscellaneous	1	1	2

Table 11.-Important Commodity Shipments Over Principal Trade Routes Pacific to Atlantic-Continued

		Fiscal year	
WEST COAST UNITED STATES TO EAST COAST SOUTH	1984	1983	1982
AMERICA:	15	9	23
Other agricultural commodities	11	2	9
Beans, edible Peas, dry	4	7	14
Petroleum and products	<u></u>	1	21
Petroleum coke			21
Other and unclassified		1	
Miscellaneous	80	46	52
Clay, fire and china Flour, wheat	0 1	3	4
Oil, vegetable	6		5
Paper and paper products	17	4	4
All other and unclassified	48	37	39
Total	279	228	338
WEST COAST UNITED STATES TO WEST INDIES:			
Canned and refrigerated foods, miscellaneous	1	5	9
Grains	95	<u> </u>	84
Rice Petroleum and products	95 1,091	1,316	84 3,575
Crude oil		287	3,255
Diesel oil	89	100	
Gasoline		28	
Residual fuel oil Other and unclassified	918 84	800 101	320
Miscellaneous	7	4	8
All other and unclassified	7	4	8
Total	1,194	1,402	3,676
WEST COAST UNITED STATES TO EUROPE: Canned and refrigerated foods	71	123	104
Canned foods, miscellaneous	1	3	
Refrigerated foods	70	120	104
Fish	- 4	5	19
Fruit, excluding bananas	10	40	20
Other and unclassified Chemicals and petroleum chemicals, miscellaneous	56 65	75 95	65 72
Coal and coke	102	601	516
Grains	344	137	597
Barley		· · · · · · · · · ·	126
Rice Wheat	298 46	5 132	110 358
Other and unclassified			3
Lumber and products	566	636	553
Boards and planks	222	222	175
Plywood, veneers, composition board	75 217	134 257	76 272
Pulpwood Other and unclassified	52	237	30
Machinery and equipment, miscellaneous			2
Manufactures of iron and steel, miscellaneous	2		6
Minerals, miscellaneous	434	408	418
Borax	411	385	386 26
Sulfur	23	23	6
Nitrates, phosphates, and potash	1	1	35
Ammonium compounds	• • • • • • •	• • • • • • •	4
Fertilizers, unclassified	• • • • • • •	• • • • • • •	28

[]	Fiscal vear		
	1984	1983	1982
WEST COAST UNITED STATES TO EUROPE:			
Nitrates, phosphates, and potash—Continued	1	1	2
Fishmeal Ores and metals	81	112	3 56
Ores	43	68	49
Copper		50	
Lead		4	3
Other and unclassified	43	14	8
Metals	38	44	<u> </u>
Copper Lead	30	41	6
Tin, including tinplate		2	
Other and unclassified	8	•••••	
Other agricultural commodities	102	44	
Beans, edible	1 41		1
Cotton, raw Molasses	43	40	24
Oilseeds	17	4	5
Petroleum and products	1,538	1,884	1,841
Petroleum coke	1,538	1,512	1,198
Residual fuel oil	• • • • • • • •	195 177	460 183
Miscellaneous	669	700	806
Carbon black			79
Clay, fire and china	16	21	5
Groceries, miscellaneous	2 6	1 7	7
Oil, vegetable Paper and paper products	55	56	51
Seeds, excluding oilseeds			3
Slag			5
All other and unclassified	590	615	650
Total	3,975	4,741	5,045
WEET COLOT HUITED STATES TO A EDICA			
WEST COAST UNITED STATES TO AFRICA: Chemicals and petroleum chemicals, miscellaneous		1	1
Coke, coal type		53	
Grains	636	506	1,673
Wheat	583	485	1,673
Other and unclassified Lumber and products, miscellaneous	53 15	21	
Machinery and equipment, miscellaneous			2
Minerals, miscellaneous	128	139	72
Sulfur	101	139	60
Other and unclassified	27 28	• • • • • • •	12 28
Petroleum and products, miscellaneous Miscellaneous	15	24	70
Flour, wheat		20	29
Oil, vegetable	10		18
All other and unclassified	5	4	23
Total	822	725	1,880
WEST COAST CANADA TO EAST COAST UNITED STATES:	101	164	140
Chemicals and petroleum chemicals, miscellaneous Lumber and products	181 1,196	154 1,080	149 686
Boards and planks	1,188	1,000	648
Other and unclassified	1,100	80	38

		Fiscal year	
	1984	1983	1982
WEST COAST CANADA TO EAST COAST UNITED STATES: Minerals, miscellaneous	49	11	
Sulfur	49		<u>•••••</u>
Nitrates, phosphates, potash	124	133	77
Ammonium compounds		14	
Fertilizers, miscellaneous	•••••	29	
Potash	124	90 11	77 7
Ores and metals Other and unclassified	<u>•••••</u>	11	7
Petroleum and products	85	213	
Crude oil		108	
Others and unclassified	85	105	
Miscellaneous	11	29	13
All other and unclassified	11	29	<u> </u>
Total	1,646	1,631	932
West Coast Canada to East Coast South America:			
Coal		30	80
Grains	51	21	21
Barley		21	21
Wheat	56		27
Pulpwood	56	29	27
Other and unclassified		3	
Minerals, miscellaneous	256	120	327
Sulfur Other and unclassified	256	120	326
Nitrates, phosphates, and potash	34	20	115
Fertilizers, unclassified		1	1
Potash	32	19	111
Other and unclassified Ores and metals, miscellaneous	2 2	• • • • • • •	3
Miscellaneous	27	35	20
Paper and paper products	23	22	10
All other and unclassified	4	13	10
Total	426	258	604
West Coast Canada to West Indies:			
Grains	<u></u>	<u></u>	14
Barley			14
Chemicals and petroleum chemicals, miscellaneous	2	36	
Lumber and products	31	<u> </u>	<u>29</u> 29
Boards and planks Nitrates, phosphates, and potash	31	17	
Minerals, miscellaneous	121	69	165
Sulfur	121	69	165
Other agricultural commodities	31	<u>•••••</u>	<u></u>
Peas, dry Petroleum and products	31 150		
Other and unclassified	150	52	
Miscellaneous	4	2	9
Paper and paper products	4	2	6
All other and unclassified			3
Total	376	205	217

		Fiscal year	
	1984	1983	1982
West Coast Canada to Europe:	24	21	10
Canned and refrigerated foods, miscellaneous Chemicals and petroleum chemicals, miscellaneous	34 331	31 173	39 62
Coal and coke	1,446	766	520
Grains	877	665	1,431
Barley	483	272	557
Wheat	278	361	751
Other and unclassified	116	32	123
Lumber and products	2,304	2,037	2,292
Boards and planks	1,064 171	886 175	1,092 165
Pulpwood	923	875	993
Other and unclassified	146	101	41
Machinery and equipment	<u></u>	3	<u> </u>
Machinery and equipment, miscellaneous		3	1
Minerals, miscellaneous	1,021	677	794
Asbestos	3	2	3
Sulfur	1,018 1	675 18	791 25
Nitrates, phosphates, and potash		10	22
Fertilizers, unclassified Potash	• • • • • • •	14	22
Fishmeal.	1	4	3
Ores and metals	55	87	126
Ores	17	30	72
Copper	6	12	51
Zinc	4	6	7
Other and unclassified	7 38	12 57	14 54
Metals	1		2
Aluminum Copper			6
Lead	17	37	18
Zinc	19	15	28
Other and unclassified	1 294	4	
Other agricultural commodities		57	
Oilseeds Other and unclassified	291 3	51 6	26 4
Petroleum and products	118	86	115
Petroleum coke	103	84	115
Other and unclassified	15	2	
Miscellaneous	346	610	708
Paper and paper products	157	357	428
All other and unclassified	189		280
Total	6,827	5,210	6,143
West Coast Canada to Africa:			
Chemicals and petroleum chemicals, miscellaneous		26	
Coal and coke	35	50	
Grains	659	53	103
Wheat	659 299	53 312	103 153
Lumber and products Boards and planks	261	265	94
Pulpwood	201	18	41
Other and unclassified	9	29	18
Minerals, miscellaneous	855	786	1,045
Sulfur	855	786	1,045

PANAMA CANAL COMMISSION

Table 11.—Important Commodity Shipments Over Principal Trade Routes Pacific to Atlantic—Continued Image: Continued Image: Continued</t

		Fiscal year	
	1984	1983	1982
WEST COAST CANADA TO AFRICA-Continued	17	-	
Nitrates, phosphates, and potash Potash	13	7	•••••
Miscellaneous	38	2	
All other and unclassified	38	2	7
Total	1.899	1,236	1,308
West Coast Canada to Asia (Middle East):			
Grains	<u>•••••</u>	<u>••••</u>	26
Barley Lumber and products	• • • • • • • •		26 4
Other and unclassified	••••••	2	
Minerals, miscellaneous	•••••	123	153
Sulfur		123	153
Miscellaneous	<u>•••••</u>	<u></u>	3
Other and unclassified	<u>••••</u>	<u>•••••</u>	3
Total	· · · · · · · · ·	125	186
WEST COAST CENTRAL AMERICA TO EAST COAST UNITED STATES:			
Canned and refrigerated foods	114	162	98
Refrigerated foods	114	162	98
Bananas	114	161	98
Other and unclassified		1	
Minerals, miscellaneous	<u> </u>	<u> </u>	272
Salt Sulfur	194	150	272
Nitrates, phosphates, and potash	4	9	5
Fishmeal	4	9	5
Ores and metals, miscellaneous		23	18
Other agricultural commodities	<u>666</u> 33	<u>548</u> 43	328
Coffee	215	189	69
Sugar	416	316	222
Other and unclassified	2		6
Petroleum and products Miscellaneous	6 6	5 12	26 21
Oil, vegetable		7	9
All other and unclassified	6	5	12
Total	999	909	768
WEST COAST CENTRAL AMERICA TO EAST COAST CENTRAL AMERICA:			
Grains, miscellaneous	43	21	22
Nitrates, phosphates, and potash	<u>- 85</u> 85	<u> </u>	<u>69</u>
Phosphates Petroleum and products	85 17	143	52
Crude oil			27
Gasoline	1		
Diesel oil	16		25
Miscellaneous All other and unclassified	<u> </u>	2	
Total	14	$\frac{2}{166}$	<u> </u>

WEST COAST CENTRAL AMERICA TO WEST INDIES: 1983 1982 Canned and refrigerated foods. 24 63 79 Refrigerated foods, miscellaneous 22 43 31 Boards and planks 19 41 31 Other and unclassified 19 43 4 Molasses. 19 43 4 Molasses. 19 44 4 Petroleum and products, miscellaneous 16 21 12 All other and unclassified 16 21 12 Total 204 168 141 WEST COAST CENTRAL AMERICA TO EUROPE: 204 168 141 Canned and refrigerated foods 99 120 126 Refrigerated foods 99 120 126 Bananas 76 101 93 Other and unclassified 23 19 33 Chemicals and petroleum chemicals, miscellaneous 13 1 Manufactures of iron and steel, miscellaneous 15 15 35 Nitrates, phosphates, and potanks 9 15 <th></th> <th></th> <th>Fiscal year</th> <th></th>			Fiscal year	
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Lumber and products 22 41 33 Boards and planks 19 41 31 Other and unclassified 19 43 4 Molasses 29 29 Other and unclassified 19 14 4 Metoleum and products, miscellaneous 123 13 Miscellaneous 16 21 12 Total 204 168 141 WEST COAST CENTRAL AMERICA TO EUROPE: 204 168 141 Canned and refrigerated foods 99 120 126 Bananas 76 101 93 0 Other and unclassified 23 19 33 Chemicals and petroleum chemicals, miscellaneous 13 1 Maudactures of iron and steel, miscellaneous 13 1 Maudactures of iron and steel, miscellaneous 15 15 35 Nitrates, phosphates, and potash 4 1 12 Fertilizers, unclassified 12 201 153 151 Ores and metals, miscella				
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Other agricultural commodities 19 43 4 Molasses 29 29 Other and unclassified 19 14 4 Petroleum and products, miscellaneous 123 13 Miscellaneous 16 21 12 All other and unclassified 16 21 12 Total 204 168 141 WEST COAST CENTRAL AMERICA TO EUROPE: 29 120 126 Canned and refrigerated foods 99 120 126 Refrigerated foods 99 120 126 Bananas 76 101 93 Chemicals and petroleum chemicals, miscellaneous 20			41	
Molasses 19 14 4 Petroleum and products, miscellaneous 123 13 Miscellaneous 16 21 12 All other and unclassified 16 21 12 All other and unclassified 16 21 12 Total 204 168 141 WEST COAST CENTRAL AMERICA TO EUROPE: 204 168 141 Canned and refrigerated foods 99 120 126 Refrigerated foods 99 120 126 Bananas 76 101 93 Other and unclassified 23 19 33 Chemicals and petroleum chemicals, miscellaneous 13 11 Lumber and products 9 16 15 Boards and planks 9 15 14 Other and unclassified 12 12 Fertilizers, unclassified 14 12 Fertilizers, unclassified 1 2 Other and unclassified 1 2 Other and uncla	Other and unclassified			
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Petroleum and products, miscellaneous 123 1 12 All other and unclassified 16 21 12 All other and unclassified 204 168 141 WEST COAST CENTRAL AMERICA TO EUROPE: 204 168 141 WEST COAST CENTRAL AMERICA TO EUROPE: 99 120 126 Canned and refrigerated foods 99 120 126 Bananas 76 101 93 Other and unclassified 23 19 33 Chemicals and petroleum chemicals, miscellaneous 20 Grains, miscellaneous 13 1 1 Unber and products 9 15 14 0 14 Other and unclassified 1 1 12 Fertilizers, unclassified 1 1 12 Other and unclassified 1 2 1 12 Other and unclassified 1 2 1 12 15 15 15 15 15 15 15 15				
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All other and unclassified 16 21 12 Total 204 168 141 WEST COAST CENTRAL AMERICA TO EUROPE: 204 168 141 West Coast CENTRAL AMERICA TO EUROPE: 99 120 126 Refrigerated foods 99 120 126 Bananas 76 101 93 Other and unclassified 23 19 33 Chemicals and petroleum chemicals, miscellaneous 3 20 Grains, miscellaneous. 9 16 15 15 Boards and planks 9 15 14 0ther and unclassified 1 12 Fertilizers, unclassified 1 12 12 12 12 Orter and unclassified 1 12 13 11 Manufactures of iron and steel, miscellaneous 201 153 151 35 Nitrates, phosphates, and potash 4 1 12 Orter and unclassified 13 151 Ores and metals, miscellane			21	
WEST COAST CENTRAL AMERICA TO EUROPE: 99 120 126 Canned and refrigerated foods 99 120 126 Bananas 76 101 93 Other and unclassified 23 19 33 Chemicals and petroleum chemicals, miscellaneous 20 Grains, miscellaneous 9 16 15 Boards and planks 9 15 14 Other and unclassified 1 122 Manufactures of iron and steel, miscellaneous 15 15 35 Nitrates, phosphates, and potash 4 1 122 Other and unclassified 1 1 Ores and metals, miscellaneous 205 183 172 Ores 201 153 151 Other and unclassified 4 30 21 Ores and metals, miscellaneous 205 183 172 Ores 201 153 151 Other and unclassified 4 30 21 Other and unclass	All other and unclassified	16	21	12
WEST COAST CENTRAL AMERICA TO EUROPE: Canned and refrigerated foods 99 120 126 Refrigerated foods 99 120 126 Bananas 76 101 93 Other and unclassified 23 19 33 Chemicals and petroleum chemicals, miscellaneous 9 16 15 Grains, miscellaneous 9 16 15 Boards and planks 9 15 14 Other and unclassified 1 1 Manufactures of iron and steel, miscellaneous 15 15 Nitrates, phosphates, and potash 4 1 12 Orther and unclassified 1 1 1 Ores and metals, miscellaneous 205 183 172 Ores 201 153 151 5 Other and unclassified 4 30 21 5 Other and unclassified 4 30 21 5 28 Ores and metals, miscellaneous 205 153 151 5 28 Other and unclassified 4 <	Total	204	168	141
Canned and refrigerated foods 99 120 126 Refrigerated foods 99 120 126 Bananas 76 101 93 Other and unclassified 23 19 33 Chemicals and petroleum chemicals, miscellaneous 9 16 15 Grains, miscellaneous 9 16 15 Boards and planks 9 15 14 Other and unclassified 1 1 129 Manufactures of iron and steel, miscellaneous 15 15 35 Nitrates, phosphates, and potash 4 122 9 120 126 Fertilizers, unclassified				
Refrigerated foods 99 120 126 Bananas 76 101 93 Other and unclassified 23 19 33 Chemicals and petroleum chemicals, miscellaneous 13 1 Grains, miscellaneous 9 16 15 Boards and planks 9 15 14 Other and unclassified 1 1 Manufactures of iron and steel, miscellaneous 15 15 35 Nitrates, phosphates, and potash 4 1 12 Fertilizers, unclassified 1 1 Ortes and metals, miscellaneous 205 183 172 Ores 201 153 151 Other and unclassified 1 2 2 Other and unclassified 1 2 2 153 151 Ores 106 125 151 10 Other and unclassified 2 2 11 Other and unclassified <		99	120	126
Bananas7610193Other and unclassified231933Chemicals and petroleum chemicals, miscellaneous131Lumber and products91615Boards and planks91514Other and unclassified91514Other and unclassified4112Fertilizers, unclassified412Other and unclassified412Other and unclassified12Other and unclassified12Other and unclassified12Other and unclassified1Ores201153151Copper205183172Ores201153151Copper2521Other and unclassified2521Other and unclassified25Other and unclassifiedOther and unclassifiedOther and unclassifiedOther and unclassifiedOther and unclassifiedOther and unclassifiedOther and unclassified <t< td=""><td>C C</td><td></td><td></td><td></td></t<>	C C			
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Lumber and products91615Boards and planks91514Other and unclassified11Manufactures of iron and steel, miscellaneous1515Nitrates, phosphates, and potash41Pertilizers, unclassified41Other and unclassified1Ores and metals, miscellaneous205183Ores and metals, miscellaneous201153Ores201153Ores196125Other and unclassified528Other and unclassified528Other and unclassified45Other and unclassified44Other and unclassified44Other and unclassified45Beans, edible58Other and unclassified11Molasses586Other and unclassified31Tobacco and manufactures11All other and unclassified95118Tobacco and manufact			20	
Boards and planks91514Other and unclassified111Manufactures of iron and steel, miscellaneous151535Nitrates, phosphates, and potash4112Fertilizers, unclassified49Fishmeal12Other and unclassified1Ores and metals, miscellaneous205183172Ores201153151Copper196125151Other and unclassified528Metals2521Other and unclassified45Other and unclassified45Other and unclassified45Other and unclassified45Other and unclassified45Other and unclassified45Other and unclassified45Cocoa and cocoa beans6Cotton, raw464547Molasses586241Oilseeds31Tobacco and manufactures111All other and unclassified95118115Tobacco and manufactures111All other and unclassified95118115Tobacco and manufactures111All oth				
Other and unclassified11Manufactures of iron and steel, miscellaneous1515Nitrates, phosphates, and potash41Fertilizers, unclassified4Prishmeal.12Other and unclassified4Ores and metals, miscellaneous205183IT2OresOres201153Copper196125Other and unclassified430Copper2521Other and unclassified45Other and cocoa beans6Cocoa and cocoa beans6Coffee7977Coffee7977Molasses586Sugar71Seeds, excluding oilseeds3Tobacco and manufactures11All other and unclassified95118Total613736Beananas901Other and unclassified1Other and unclassified1Other and unclassified1Other and unclassified1Other and unclassified1				
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Nitrates, phosphates, and potash 4 1 12 Fertilizers, unclassified 4 9 Fishmeal. 1 2 Other and unclassified 1 2 Ores and metals, miscellaneous 205 183 172 Ores 201 153 151 Copper 201 153 151 Other and unclassified 5 28 28 Metals 4 30 21 Copper 257 421 Beans, edible 4 5 257 Other and unclassified 4 5 257 Other agricultural commodities 169 257 421 Beans, edible 5 4 24 Cocoa and cocoa beans 6 257 421 Molasses 5 86 241 Oilseeds 14 6 24 Peas, dry 7 17 28 Sugar 7 22 5 Miscellaneous 99 124 117 Seeds, excluding oilseeds 3 1 Total 613 736 898 898 West CoAst Central America to Africa: Canned and refrigerated foods 1 0 10 0 10 Other and unclassified 1 10 Bananas 10 0 Other and unclassified 1 10		15		
Fishmeal.12Other and unclassified1Ores and metals, miscellaneous205Isa153Ores201Isa151Copper196Isa125Other and unclassified5Zas43021Copper25Other and unclassified4Copper25Other and unclassified4Copper257Attack4Other agricultural commodities169257421Beans, edible5Coccoa and cocca beans6Cotton, raw46Attack4Oilseeds14Attack99124117Seeds, excluding oilseeds3Total95Ital1All other and unclassified959511811510Bananas10Other and unclassified10		4	1	
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Ores and metals, miscellaneous 205 183 172 Ores 201 153 151 Copper 196 125 151 Other and unclassified 5 28 Metals 4 30 21 Copper 257 21 Other and unclassified 4 5 Other agricultural commodities 169 257 Attack 4 5 1169 Deams, edible 5 4 Cocoa and cocoa beans 6 1169 Cotton, raw 46 45 Molasses 5 86 241 01 613 Oilseeds 14 6 Peas, dry 7 17 Sugar 7 22 Tobacco and manufactures 1 1 All other and unclassified 95 118 Total 95 118 115 Metals 10 10 Bananas 10 10		• • • • • • •	1	
Ores201153151Copper0ther and unclassified528Metals43021Copper2521Other and unclassified45Other agricultural commodities169257421Beans, edible54Cococa and cocoa beans6Coffee797776Cotton, raw464547Molasses586241Oilseeds14624Peas, dry71728Sugar7225Miscellaneous99124117Seeds, excluding oilseeds31All other and unclassified91118115Total613736898WEST COAST CENTRAL AMERICA TO AFRICA:1001Bananas1001Other and unclassified1101	Ores and metals miscellaneous	205	183	
Copper .196125151Other and unclassified .528Metals.43021Copper2521Other and unclassified .45Other agricultural commodities .169257421Beans, edible .54Cocoa and cocoa beans6Coffee .797776Cotton, raw464547Molasses.586241Oilseeds14624Peas, dry71728Sugar .7225Miscellaneous99124117Seeds, excluding oilseeds31All other and unclassified .111All other and unclassified .95118115Total613736898WEST COAST CENTRAL AMERICA TO AFRICA:1100Bananas1001Other and unclassified .1110			-	
Other and unclassified528Metals43021Copper2521Other and unclassified45Other agricultural commodities169257Beans, edible54Coccoa and coccoa beans6Coffee7977Cotton, raw4645Molasses586Oilseeds146Oilseeds717Sugar722Miscellaneous99124117Seeds, excluding oilseeds31Tobacco and manufactures11All other and unclassified95118Total613736Bananas10Other and unclassified110				
Copper .2521Other and unclassified .45Other agricultural commodities .169257Beans, edible .54Cocoa and cocoa beans .6Coffee .79Cotton, raw .46Add 4547Molasses .5Sugar .7Total .99Ital .99Ital .11All other and unclassified .1Mest Const Central America to Africa .Mest Const Central America to Africa .Mest Const Central America to Africa .Mest Const Central America to Africa .Const Central America to Africa .Other and unclassified .Ital .It				
Other and unclassified45Other agricultural commodities169257421Beans, edible54Cocoa and cocoa beans6Coffee797776Cotton, raw464547Molasses586241Oilseeds14624Peas, dry71728Sugar7225Miscellaneous99124117Seeds, excluding oilseeds31Textiles5613736898WEST COAST CENTRAL AMERICA TO AFRICA: Canned and refrigerated foods110Bananas100ther and unclassified1	Metals	4		
Other agricultural commodities 169 257 421 Beans, edible 5 4 Cocoa and cocoa beans 6 Coffee 79 77 76 Cotton, raw 46 45 47 Molasses 5 86 241 Oilseeds 14 6 24 Peas, dry 7 17 28 Sugar 7 22 5 Miscellaneous 99 124 117 Seeds, excluding oilseeds 3 1 Textiles 5 613 736 898 WEST COAST CENTRAL AMERICA TO AFRICA: 10 10 10 10 Bananas		•••••		21
Beans, edible54Cocoa and cocoa beans6Coffee7977Cotton, raw4645Molasses586241Oilseeds14Oilseeds14624Peas, dry7Sugar7225Miscellaneous99124117Seeds, excluding oilseeds3Tobacco and manufactures11All other and unclassified95118Total613736Bananas100Other and unclassified110Bananas10Other and unclassified11		•		
Cocoa and cocoa beans 6				421
Coffee 79 77 76 Cotton, raw 46 45 47 Molasses 5 86 241 Oilseeds 14 6 24 Peas, dry 7 17 28 Sugar 7 22 5 Miscellaneous 99 124 117 Seeds, excluding oilseeds 3 1 Textiles 5 5 Tobacco and manufactures 1 1 1 All other and unclassified 95 118 115 Total 613 736 898 WEST COAST CENTRAL AMERICA TO AFRICA: 10 10 10 Bananas		-	*	
Molasses	Coffee	79	77	76
Oilseeds 14 6 24 Peas, dry 7 17 28 Sugar 7 22 5 Miscellaneous 99 124 117 Seeds, excluding oilseeds 3 1 Textiles 5 5 Tobacco and manufactures 1 1 1 All other and unclassified 95 118 115 Total 613 736 898 WEST COAST CENTRAL AMERICA TO AFRICA: 10 10 10 Bananas				
Peas, dry 7 17 28 Sugar 7 22 5 Miscellaneous 99 124 117 Seeds, excluding oilseeds 3 1 Textiles 5 5 Tobacco and manufactures 1 1 1 All other and unclassified 95 118 115 Total 613 736 898 WEST COAST CENTRAL AMERICA TO AFRICA: 1 10 10 Bananas			- •	
Sugar 7 22 5 Miscellaneous 99 124 117 Seeds, excluding oilseeds 3 1 Textiles 5 1 Tobacco and manufactures 1 1 All other and unclassified 95 118 Total 613 736 898 WEST COAST CENTRAL AMERICA TO AFRICA: 1 1 1 Canned and refrigerated foods 1 10 10 Bananas 10 10 10				
Seeds, excluding oilseeds. 3 1 Textiles. 3 5 Tobacco and manufactures. 1 1 All other and unclassified 95 118 Total. 613 736 WEST COAST CENTRAL AMERICA TO AFRICA: 1 1 Canned and refrigerated foods 1 10 Bananas 10 0 10 Other and unclassified 1 1	Sugar			5
Textiles. 5 Tobacco and manufactures. 1 1 All other and unclassified 95 118 115 Total. 613 736 898 WEST COAST CENTRAL AMERICA TO AFRICA: 1 10 Bananas 10 10 Other and unclassified 1 10			124	117
Tobacco and manufactures 1 1 1 All other and unclassified 95 118 115 Total 613 736 898 WEST COAST CENTRAL AMERICA TO AFRICA: Canned and refrigerated foods 1 10 Bananas 10 10 Other and unclassified 1 10		3		}
All other and unclassified 95 118 115 Total 613 736 898 WEST COAST CENTRAL AMERICA TO AFRICA: Canned and refrigerated foods 1 10 Bananas 10 Other and unclassified 1 10				
WEST COAST CENTRAL AMERICA TO AFRICA: Canned and refrigerated foods				115
WEST COAST CENTRAL AMERICA TO AFRICA: Canned and refrigerated foods Bananas Other and unclassified	Total	613	736	898
Canned and refrigerated foods 1 10 Bananas 10 10 Other and unclassified 1 10				
Bananas			1	10
Other and unclassified 1			1	
Lumber and products, miscellaneous	Other and unclassified			
	Lumber and products, miscellaneous	9	2	7

Table 11.-Important Commodity Shipments Over Principal Trade Routes Pacific to Atlantic-Continued

[Thousands of long tons]			
		Fiscal year	
	1984	1983	1982
WEST COAST CENTRAL AMERICA TO AFRICA—Continued			
Manufactures of iron and steel	54	64	8
Other agricultural commodities	66	35	14
Coffee	11	19	1
Peas, dried		6	
Sugar, raw	55		
Other and unclassified		10	13
Miscellaneous	1	2	11
All other and unclassified	1	2	
Total	130	104	50
10tai			
West Coast South America to East Coast United			
STATES:		50.4	
Canned and refrigerated foods	561	504	513
Canned foods, miscellaneous	24	10	21
Refrigerated foods	537	494	492
Bananas	305	315	354
Fish	27	23	18
Fruit, excluding bananas	194	141	116
Refrigerated, miscellaneous	11	15	4
Chemicals and petroleum chemicals, miscellaneous	28	24	66
Lumber and products	28	19	23
Boards and planks	11	8	8
Other and unclassified	17	11	15
Manufactures of iron and steel, miscellaneous	5	3	5
Minerals, miscellaneous	472	382	198
Salt	460	377	197
Soda and sodium compounds	11	5	
Other and unclassified	1		1
Nitrates, phosphates, and potash	135	166	154
Fishmeal	33	42	44
Nitrate of soda	102	120	105
Potash	• • • • • • • •	4	5
Ores and metals	555	742	1,015
Ores	232	319	727
Copper	11	10	12
Iron	19		161
Lead	36	25	9
Tin	9	1	2
Zinc	20	11	12
Other and unclassified	137	272	531
Metals	323	423	288
Copper	267	367	233
	14	20	14
Zinc	30	33	29
Other and unclassified	12	3 596	12
Other agricultural commodities	588		441
Beans, edible		1	2
Cocoa and cacao beans	27	19 124	38
Coffee Cotton, raw	175	124	128
Molasses	139	301	146
Sugar	242	148	120
Petroleum and products	5,603	5,076	4,055
Crude oil	3,567	3,724	2.981
Fuel oil, residual	1.725	1.224	943
Gasoline	113	20	15
Gusonie er	115	20	.5

Table 11.—Important Commodity Shipments Over Principal Trade Routes Pacific to Atlantic—Continued Image: Continued Image: Continued</t

[Thousands of long tons]			
		Fiscal year	
WEST COAST SOUTH AMERICA TO EAST COAST UNITED	1984	1983	1982
STATES—Continued Petroleum and products—Continued			
Other and unclassified	198	108	116
Miscellaneous	199	126	131
Fibers, plant	5	6	8
Groceries, miscellaneous	7	4	7
Oil, fish			18
Paper and products	9	3	2
Textiles	11	10	9 89
All other and unclassified	167	106	which is not set of the local division of th
Total	8,174	7,638	6,601
WEST COAST SOUTH AMERICA TO EAST COAST CANADA:		10	
Nitrates, phosphates, and potash	4		
Nitrate of soda	4	10	1
Ores and metals, miscellaneous	76 32	52 40	61 10
Other agricultural commodities	19		10
Molasses Sugar	19		10
Other and unclassified	12	1	••••••
Minerals, miscellaneous		30	75
Salt		30	75
Petroleum and products	52	55	
Crude oil	52	55	
Miscellaneous	4	1	4
All other and unclassified	4	1	4
Total	168	188	151
West Coast South America to East Coast Central			
AMERICA:			
Manufactures of iron and steel, miscellaneous	5	21	
Nitrates, phosphates, and potash		· · · <u>· · · · ·</u>	11
Nitrate of soda			11
Ores and metals	52	24	38
Metals, miscellaneous	5		22
Ores, miscellaneous	47	13	16
Other agricultural commodities	2	12	<u></u>
Sugar		12	
Other and unclassified	2		
Petroleum and products	939	821	228
Crude oil	939	821	228
Miscellaneous	1	12	18
Paper and paper products	•••••	2	2
All other and unclassified	1		16
Total	999	890	295
WEST COAST SOUTH AMERICA TO EAST COAST SOUTH			
AMERICA: Canned and refrigerated foods	5	5	0
Fruit refrigerated, excluding bananas	5	5	5
Other and unclassified		2	4
Chemicals and petroleum chemicals, miscellaneous	13	3	- ii
Lumber and products, miscellaneous	75	44	109
Manufactures of iron and steel, miscellaneous	1	1	• • • • • • •

		Fiscal year	
WEST COAST SOUTH AMERICA TO EAST COAST SOUTH AMERICA—Continued	1984	1983	1982
Nitrates, phosphates, and potash			1
Ores and metals, miscellaneous	51	54	84
Other agricultural commodities	<u> </u>	<u> </u>	<u> </u>
Beans, edible	16	20	34 87
Other and unclassified	1	1	í
Petroleum and products	922	1,537	1,202
Crude oil	907	1,528	1,074
Other and unclassified	15	9	128
Miscellaneous	44	31	89
Oil, fish Oil, vegetable	4		27
Paper and paper products	15	9	13
All other and unclassified	19	19	49
Total	1,151	1,702	1,627
WEST COAST SOUTH AMERICA TO WEST INDIES:			
Canned and refrigerated foods	44	56	44
Canned foods, miscellaneous	4		
Fish, refrigerated	40	55	44
Other and unclassified Grains, miscellaneous	2	1 12	
Lumber and products	26	27	21
Boards and planks	22	27	17
Other and unclassified	4		4
Nitrates, phosphates, and potash	9	12	24
Fishmeal Ores and metals	9	12	24 13
Ores. miscellaneous	· · · · · · · · · ·	· · · · · · · ·	1
Metals, miscellaneous	•••••	• • • • • • • •	2
Other agricultural commodities	<u></u>	18	15
Molasses			13
Sugar	•••••	16	
Other and unclassified Petroleum and products	3,392	2 2,059	2 1,062
Crude oil	2,624	1.650	948
Fuel oil, residual	730	343	82
Other and unclassified	38	66	32
Miscellaneous	27	27	2
All other and unclassified	27	27	2
Total	3,500	2,211	1,194
West Coast South America to Europe:			
Canned and refrigerated foods	699	723	1,009
Canned foods, miscellaneous	24	25	27
Refrigerated foods	675	698	982
Bananas Fish, refrigerated	238 297	278 293	342 474
Fruit, excluding bananas	139	116	141
Other and unclassified	1	11	25
Chemicals and petroleum chemicals, miscellaneous	9	9	7
Coke, coal type Grains, miscellaneous	45	3 37	21 52
Lumber and products	118	172	137
Boards and planks	13	7	7

		Fiscal year	
Weet Court South Autrust To Funder Continued	1984	1983	1982
WEST COAST SOUTH AMERICA TO EUROPE—Continued Lumber and products—Continued			
Pulpwood	98	153	97
Other and unclassified	7	12	33
Manufactures of iron and steel	11 733	895	
Nitrates, phosphates, and potash	23		904
Fertilizers, unclassified			
Fishmeal.	646	737	861
Nitrate of soda	64	147	82
Potash Ores and metals	1,415	1,564	4 1,890
Ores	759	730	1,043
Copper	111	103	206
lron		53	101
Lead	101	64	105
Tin	21	30	36
Zinc Other and unclassified	500 26	448 32	525 70
Metals	656	834	847
Copper	563	667	585
Lead	34	41	41
Zinc Other and unclassified	40 19	54 72	135 86
Other agricultural commodities	209	357	320
Cocoa and cacao beans	12	9	14
Coffee	143	189	204
Cotton, raw	11	30	27
Molasses Oilseeds	13	1	
Sugar	12	107	• 59
Wool, raw	10	16	9
Other and unclassified	3	5	4
Petroleum and products Other and unclassified	<u>•••••</u>	3	<u></u>
Miscellaneous	346	253	292
Groceries, miscellaneous	12	6	15
Oil, fish	109	54	125
Paper and paper products	13	5	8
Seeds, excluding oilseeds	1	9	1
All other and unclassified	204	179	137
Total	3,585	4,016	4,692
HAWAII TO EAST COAST UNITED STATES:			
Other agricultural commodities	129	196	50
Sugar	129	196	50
Miscellaneous	12		7
All other and unclassified	12		7
Total	141	215	57
OCEANIA TO EAST COAST UNITED STATES:	211	370	405
Canned and refrigerated foods	311	378	405
Refrigerated foods	311	1	5
Dairy products Fruit, refrigerated	8	61	77
Meat	23	12	1
Other and unclassified	280	303	322

[Thousands of long tons]

		Fiscal year	
	1984	1983	1982
OCEANIA TO EAST COAST UNITED STATES—Continued	10	0	21
Chemicals and petroleum chemicals, miscellaneous Manufactures of iron and steel, miscellaneous	10 64	9 62	31 40
Ores and metals	1,175	418	497
Ores	1,156	376	481
Alumina/bauxite	611	31	66
lron	53		
Lead	5	53	4
Manganese	61	47	55
Other and unclassified	426	245	356
Metals	19	42	16
Aluminum metal Lead metal		25 11	6
Zinc.		1	1
Other and unclassified	8	5	15
Other agricultural commodities	445	311	634
Molasses	203	101	233
Sugar	242	210	398
Wool, raw			3
Petroleum and products	241	100	191
Crude oil Fuel oil, residual	160	100	36 115
Other and unclassified	81	100	40
Miscellaneous	382	372	352
All other and unclassified	382	372	352
Total	2,628	1.650	2,150
OCEANIA TO EAST COAST CANADA: Canned and refrigerated foods	33	55	37
Refrigerated foods	33	55	37
Other and unclassified	33	55	37
Ores and metals	76	25	12
Ores, miscellaneous	76	25	12
Other agricultural commodities	347	216	303
Sugar	347	216	303
Miscellaneous	35	54	49
All other and unclassified	35	54	49
Total	491	350	401
OCEANIA TO EAST COAST CENTRAL AMERICA:			
Canned and refrigerated foods, miscellaneous	28	12	20
Coal	22		
Ores and metals	37	86	46
Manganese ore	22	39	
Ores, miscellaneous	15	47	46
Miscellaneous All other and unclassified	4	6	14
	4	6	14
Total	91	104	80
OCEANIA TO WEST INDIES:			
Canned and refrigerated foods	143	74	32
Canned foods, miscellaneous	10	4	7
Refrigerated foods			25
Dairy products Fish, refrigerated	6 113	5 50	1
Meat	5	30 8	14
Other and unclassified	9	7	1

		Fiscal year	
	1984	1983	1982
OCEANIA TO WEST INDIES—Continued	E 0		22
Miscellaneous	58	<u> </u>	$\frac{32}{32}$
All other and unclassified	<u> </u>	85	<u> </u>
Total			
Oceania to Europe:	194	195	298
Canned and refrigerated foods	<u>186</u> 186	<u>185</u> 185	298
Refrigerated foods	100	6	15
Dairy products Fruit, excluding bananas Meat	92 2	53	75 59
Other and unclassified	92	126	149
Chemicals and petroleum chemicals, miscellaneous	115		
Grains, miscellaneous	74 72	155	277
Ores and metals	58	79	217
Alumina/bauxite	38		
Copper		71	201
Other and unclassified	20	8 76	16
Metals	14	35	<u>60</u> 26
CopperZinc		15	
Other and unclassified	14	26	34
Other agricultural commodities	271	251	232
Copra Molasses	7 20	11 69	9 90
Skins and hides		1	1
Sugar	236	166	123
Wool, raw Miscellaneous	287	296	335
Groceries, miscellaneous		1	
Oil, coconut	8	5	44
Oil, vegetable Tallow	26 32	24 5	23 5
All other and unclassified	221	261	263
Total	1,005	887	1,142
ASIA TO EAST COAST UNITED STATES: Canned and refrigerated foods	175	205	149
Canned foods	90	64	79
Fruit	85	45	61
Vegetables	1	6	9
Other and unclassified Refrigerated foods	5 85	13 141	70
Fruit, refrigerated	9	78	15
Other and unclassified	76	63	55
Chemicals and petroleum chemicals, miscellaneous	69	108	118
Coal and coke Lumber and products	183 693	641	43
Boards and planks	58	37	13
Plywood, veneers, composition board	591	585	357
Other and unclassified	44	19	44 1,258
Machinery and equipment	1,369	1,210	1,238
Agricultural machinery	24		10

		Fiscal year	
	1984	1983	1982
ASIA TO EAST COAST UNITED STATES—Continued			
Machinery and equipment—Continued Automobiles, trucks, accessories and parts	1,275	1,131	1,164
Construction machinery and equipment	45	19	34
Electrical machinery and apparatus	12	13	21
Other and unclassified	13	36	29
Manufactures of iron and steel	4,931	2,905	4,311
Angles, shapes, and sections	277	348	459
Nails, tacks, and spikes	102 1,852	59 1,035	84 896
Tubes, pipes, and fittings	951	564	1,438
Wire, bars, and rods	320	174	220
Other and unclassified	1,429	725	1,214
Nitrates, phosphates, and potash	2	2	2
Fertilizers, unclassified	2	2	2
Ores and metals	1,054	901	1,124
Ores	1,018	835	1,059
Alumina/bauxite	143	43	102
Chrome	28	11	38
Manganese Other and unclassified	7 840	1 780	11 908
Metals	36	66	65
Aluminum	30	29	32
Copper	1	7	5
lron		1	20
Zinc	· · · · · · · · · ·		1
Other and unclassifiedOther agricultural commodities	5	29	7
	532	323	411
Coffee	3	8 1	1
Rubber, raw	92	56	35
Sugar	428	251	373
Other and unclassified	4	7	1
Petroleum and products, miscellaneous	676	141	375
Miscellaneous	4,660	3,611	3,283
Bricks and tile Clay, fire and china	3	1	2
Fibers, plant	1	2	2
Glass and glassware	2	4	7
Groceries, miscellaneous	10	7	9
Oil, coconut	43	63	56
Oil, vegetable	5 2	32 2	93
Porcelainware Rubber, manufactured	33	41	1
Textiles	16	6	9
All other and unclassified	4,544	3,452	3,086
Total	14,344	10,047	11,490
Asia to East Coast Canada:			
Canned and refrigerated foods, miscellaneous	5	1	1
Machinery and equipment	· · · · · · · · ·	6	2
Other and unclassified	•••••	6	2
Manufactures of iron and steel	7	30	18
Plates, sheets, and coils	4	10 9	6 9
Wire, bars, and rods		2	3
Other and unclassified	3	9	

		Fiscal year	
	1984	1983	1982
Asia to East Coast Canada—Continued	55	6	1
Ores and metals, miscellaneous	55	6	
Ores Alumina/bauxite	55	6	<u></u>
Metals	<u></u>	<u></u>	<u> </u>
Other and unclassified			1
Miscellaneous	327	278	262
All other and unclassified	327	278 321	<u> 262</u> 284
Total			204
ASIA TO EAST COAST CENTRAL AMERICA:			27/
Chemicals and petroleum chemicals, miscellaneous		70	276
Grains, miscellaneous Machinery and equipment, miscellaneous	21		4
Manufactures of iron and steel, miscellaneous	8	14	71
Ores and metals, miscellaneous	<u></u>	58	43
Ores, miscellaneous		58 27	43 24
Miscellaneous	15	27	24
All other and unclassified	47	169	418
Total			
ASIA TO EAST COAST SOUTH AMERICA: Chemicals and petroleum chemicals, miscellaneous Machinery and equipment	2 42	4	4 70
Automobiles, trucks, accessories and parts	16	19	29
Construction machinery and equipment	6	32	6 13
Electrical machinery and apparatus Other and unclassified	11	10	22
Manufactures of iron and steel	161	230	522
Plates, sheets, and coils	72	91	141
Tubes, pipes, and fittings	46 43	86 53	293 88
Other and unclassified Nitrates, phosphates, and potash		4	
Fertilizers, unclassified		4	
Ores and metals	15	32	47
Ores	2	22	8
Chrome	2		8
Other and unclassified	13	10	
Tin, including tinplate	6	3	4
Other and unclassified	7	7	35
Other agricultural commodities	3	<u> </u>	4
Rubber, raw	3	2	2
Petroleum and products Other and unclassified	<u></u>	2	2
Miscellaneous	157	186	341
Glass and glassware		ļ	1
Resin Rubber, manufactured	1	1	3 10
Textiles	1	2	6
All other and unclassified	154	176	321
Total	380	534	990

Table 11.—Important Commodity Shipments Over Principal Trade Routes Pacific to Atlantic—Continued Image: Continued Image: Continued</t

Fiscal vear ASIA TO CRISTOBAL, R.P.: Machinery and equipment Electrical machinery and apparatus..... t Other and unclassified Manufactures of iron and steel, miscellaneous Miscellaneous Textiles..... All other and unclassified Total..... ASIA TO WEST INDIES: Canned and refrigerated foods Canned foods, miscellaneous Refrigerated foods Fish, refrigerated Other and unclassified Chemicals and petroleum chemicals, miscellaneous Coal and coke Grains..... Rice..... Soybeans Lumber and products Boards and planks Plywood veneers Pulpwood..... Other and unclassified Machinery and equipment Automobiles, trucks, accessories and parts Electrical machinery and apparatus..... Other and unclassified Δ Manufactures of iron and steel Plates, sheets, and coils Tubes, pipes, and fittings Other and unclassified Nitrates, phosphates and potash Fertilizers, unclassified..... ; 2 Fishmeal..... Ores and metals Metals, miscellaneous Ores, miscellaneous Petroleum and products Diesel oil Gasoline Other and unclassified Miscellaneous Bricks and tile Glass and glassware Groceries, miscellaneous Paper and paper products Porcelainware Resin..... Rubber, manufactured..... ł Textiles All other and unclassified 1,111

Table 11.—Important Commodity Shipments Over Principal Trade Routes Pacific to Atlantic—Continued Image: Continued Image: Continued</t

[Thousands of long lons]	ands of long	lons
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	Fiscal year		
	1984	1983	1982
Asia to Europe:			
Canned and refrigerated foods	4	15	6
Chemicals and petroleum chemicals, miscellaneous	3	3	12
Coke, coal type		32	46
Machinery and equipment	4	3	10
Automobiles, trucks, accessories and parts	2	3	10
Other and unclassified	2		
Ores and metals, miscellaneous	2		29
Other agricultural commodities		23	
Sugar raw		23	
Petroleum and products, miscellaneous	4		58
Miscellaneous	83	85	69
Oil, coconut	24	19	
Oil, fish	37	31	27
Oil, vegetable	2		8
All other and unclassified	20	35	34
Total	100	161	230

Table 12.-Principal Canal Commodities by Direction-Fiscal Year 1984

[Long tons]

Commodity	Atlantic to Pacific	Pacific to Atlantic	Total
Ammonium compounds	534,564	48,194	582,758
Asbestos	18,272	4,137	22,409
Asphalt	155,120	7,752	162,872
Automobiles, trucks, and accessories	291,978	1,464,446	1,756,424
Bananas	7,281	810,586	817,867
Barley	16,217	533,118	549,335
Beans, edible	41,794	46,362	88,156
Benzene	39,670	38,457	78,127
Borax	5,320 23,761	414,453	419,773
Bricks and tile Canned food products	110.066	10,935 222,052	34,696 332,118
Carbon black	4,301	654	4,955
Caustic soda	926,776	40,854	967,630
Cement	173,650	4,680	178,330
Chemicals, petroleum various	876,875	51,859	928,734
Chemicals, various	2,284,963	848,197	3,133,160
Clay, fire and china	357,338	24,945	382,283
Coal and coke (excluding petroleum coke)	8,114,756	1,839,461	9,954,217
Cocoa and cacao beans	3,424	48,928	52,352
Coffee Coke, petroleum	9,394	457,502	466,896
Copra and coconuts	459,978 644	1,752,350 10,649	2,212,328 11,293
Corn	9,490,137	6,769	9,496,906
Cotton, raw	14,522	109,552	124,074
Fertilizers, various	1,489,549	58,961	1,548,510
Fibers, plant	40,489	14,514	55,003
Fishmeal	146	724,813	724,959
Flour, wheat	218,886	30,805	249,691
Gasoline	983,101	760,179	1,743,280
Glass and glassware	23,960	6,437	30,397
Grains, various Groceries, various	84,255 35,926	142,982 37,409	227,237 73,335
Infusorial earth	8,714	8,921	17,635
Jet fuel	593,446	76,785	670.231
Kerosene	103,963	9	103,972
Liquefied gas	737,363	46,254	783,617
Liquors	16,141	6,815	22,956
Lumber and products (excluding pulpwood)	55,430	4,314,158	4,369,588
Machinery, agricultural	59,284	32,411	91,695
Machinery, construction	91,140	68,623	159,763
Machinery, electrical Machinery, various	41,026 66,121	29,260 36,480	70,286 102,601
Manufactures of iron and steel	1,842,064	5,424,091	7,266,155
Metal, aluminum	308,901	53,121	362,022
Metal, copper	33,104	885,466	918,570
Metal, iron	86,660	7,843	94,503
Metal, scrap	2,227,015	2,556	2,229,571
Metals, various (including tinplate)	91,113	254,201	345,314
Molasses	3,227	672,371	675,598
Nitrate of soda	84,437 9,085	169,781 14,621	254,218 23,706
Oil, coconut	3,572	91,854	95,426
Oil, crude	3.898.360	10,267,133	14,165,493
Oil, diesel	1,129,458	815,191	1,944,649
Oil, fish	16,835	164,393	181,228
Oil, lubricating	689,285	167,438	856,723
Oil, residual fuel	3,007,038	3,835,746	6,842,784
Oil, vegetable	247,018	95,478	342,496
Oilseeds Ore, alumina/bauxite	35,939	336,304	372,243
Ore, copper	454,023	891,864 389,512	1,345,887 389,512
010, 00ppei		507,512	569,512

Table 12.—Principal Canal Commodities by Direction—Fiscal Year 1984— Continued

[Long tons]

	Atlantic	Pacific to Atlantic	Total
Commodity	to Pacific	to Attantic	Total
Ore, iron	11,286	72,731	84,017
Ores, various	422,412	2,471,194	2,893,606
Paper and paper products	761,427	368,471	1,129,898
Peas, dry	382	47,693	48,075
Petroleum and products, various	797,570	377,758	1,175,328
Phosphates	6,395,119	86,163	6,481,282
Potash	113,469	174,921	288,390
Pulpwood	558,726	1,434,788	1,993,514
Refrigerated food products (excluding			
bananas)	447,564	1,710,405	2,157,969
Resin	167,901	2,630	170,531
Rice	117,197	517,207	634,404
Rubber, manufactured	44,576	38,291	82,867
Rubber, raw	463	96,202	96,665
Salt	77,451	696,231	773,682
Seeds, excluding oilseeds	1,287	9,638	10,925
Slag, clinkers, and dross	71,676	1,198	72,874
Soda and sodium compounds	55,167	136,052	191,219
Sorghum	1.321.691	36	1,321,727
Soybeans	6,837,354	61,387	6,898,741
Sugar	1,493,408	2,178,612	3,672,020
Sulfur	12.520	2,430,820	2,443,340
Tallow	66,404	39,868	106,272
Textiles	47,136	43,486	90,622
Tobacco and manufactures	9,558	4.370	13,928
Toluene	51,956	65	52,021
Wax, paraffin	15,533	17,104	32,637
Wheat	7.213.478	1,756,966	8,970,444
Wool, raw	68	19,107	19,175
All other	8,369,645	7,686,453	16,056,098
Total	78,259,299	62.211.519	140,470,818
10(41			140,470,010

Other Statistics

Table 13.-Water Supply and Usage

			Percent	
	Fiscal	Vear	of us fiscal	
	1984	1983	1984	
	. 1984 (Acre		1984	1985
MADDEN AND GATUN LAKE WATER SUPPLY:	(min	,,		
Total runoff, Madden Lake Basin	2,160,415	1,334,650		
Evaporation from Madden Lake	44,821	36,993		
Municipal water use Madden Lake	81,865	80,028		
· · · · · · · · · · · · · · · · · · ·	2,033,729	1.217.629		
Available for Madden Lake usage Total runoff, Gatun Lake (area below Madden)	2,775,947	1,637,906		
Subtotal	4,809,676	2,855,535		
Evaporation from Gatun Lake	433,455	444,508		
Available for Gatun watershed usage	4,376,221	2,411,027		
Madden Lake Water Usage:				
	1,457,483	1,165,151	81	88
Hydroelectric power	14,519	14,479	Ĩ	1
Leakage	241,093	62.351	13	5
Spillway discharge	81,865	80,028	5	6
Municipal				
Total Madden Lake usage	1,794,960	1,322,009	100	100
GATUN LAKE WATER USAGE:				
	1.711.708	425,023	43	18
Hydroelectric power	1,876,653	1,858,609	47	78
Lockages, Gatun and Pedro Miguel	94,975	94,654	2	4
Municipal and other usages	303,007		8	-
Spillway discharge				<u></u>
Total Gatun Lake usage	3,986,343	2,378,286	100	100

Table 14.-Dredging Operations-Fiscal Year 1984

(Cubic yards)

Rock Total

Earth

Pacific District	2,578,415	452,045	3,030,460
Atlantic District		452,045	3,030,460

Table 15. — Electrical	Power Generated
------------------------	-----------------

(Gigawatt hours) 1

	Fiscal	year
Generation:	1984	1983
Gatun hydro station	93	27
Madden hydro station	162	114
Thermal generating stations	347	440
Gross generated by Panama Canal Commission	602	581
Less station service usage	(13)	(16)
Net total generated by Panama Canal Commission	589	565
Power Purchases:		
Through interconnect from Panama	2 8	9
Net Energy charged for Wheeling	8	9
Power Sales:		
Through interconnect to Panama	(66)	(7)
Net power generated and purchases for Canal area only	533	567
Other power generated by military for own use	· · · ·	<u></u>
Total Canal area requirements	533	567
Power distributed to Comission's customers	488	523
Distribution losses	45	44
Peak load (thousands of kilowatts)	84	91
Date of peak load	Feb. 27	Apr. 4
Canal area load factor ²	72.6%	71.4%

¹ One gigawatt hour equal to 1 million kilowatt hours.
² Total Canal area requirements divided by number of hours per year times peak load.

Table 16.-Fire Statistics

	Fiscal Year 1983		Fiscal Year 1984	
	Num- ber of fires	Property loss	Num- ber of fires	Property loss
РСС	86	\$168,887	164	\$8,259
Armed Forces	329	36,280	474	43,710
Private (including ships)	61	372,066	82	189,768
R.P.*	104	50,830	265	9,195
Total	580	\$628,063	985	\$250,932
Value of Property involved in ship fires		\$103,418,1		\$46,626,259
Value of Property involved in other fires		90,789,3		100,950,457
Calls for emergency aid **		2,7		2,926
Total number of calls (all types) responded to		3,4	53	4,102

* Statistics started as of October 1, 1979 due to the Treaty implementation. ** Includes Fire Apparatus and Ambulance.

