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PANAMA CANAL COMMISSION

ANNUAL REPORT

FISCAL YEAR ENDED SEPTEMBER 30, 1985



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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 1985.

At the end of this fiscal year, the sixth year of operation of the Panama Canal Commission, the Canal remains in excellent operating condition and its facilities and equipment continue to be improved and modernized. Traffic passing through the waterway showed a modest improvement with an increase in oceangoing transits to 31.9 ships per day from 31.1 per day in 1984. Both Panama Canal net tonnage and tolls revenue rose 4 percent from FY 1984 levels.

Projects of major significance to Canal customers completed or underway during the year included: overhaul of Gatun Locks miter gates and installation of lateral culvert bulkhead slots, construction of a vessel tie-up station in Gaillard Cut, upgrading of the Marine Traffic Control vessel monitoring system, rehabilitation of the locks fire fighting system, conversion of Canal buoys to conform to international standards, widening of Bohio Curve in Gatun Lake, enhancement of Commission reservoir management and weather monitoring capabilities, and the awarding of a contract for three new towing locomotives.

The performance of the Commission in accomplishing these and other multifaceted modernization and maintenance programs under the challenging conditions of treaty implementation demonstrates that a skilled and capable work force has been retained to operate the Canal. To ensure that the necessary strengths are available in the critical years ahead, training programs continue to receive high priority, with a major emphasis on increasing the participation of qualified Panamanians commensurate with Treaty requirements. Panamanians now compose 80 percent of the permanent Commission work force with many occupying key management and supervisory positions throughout the organization.

As we look to the future, I am certain that the spirit of cooperation and commitment evident in the Commission work force will enable the Panama Canal to meet the rapidly changing demands of the maritime industry.

D. P. McAuliffe,

Administrator.

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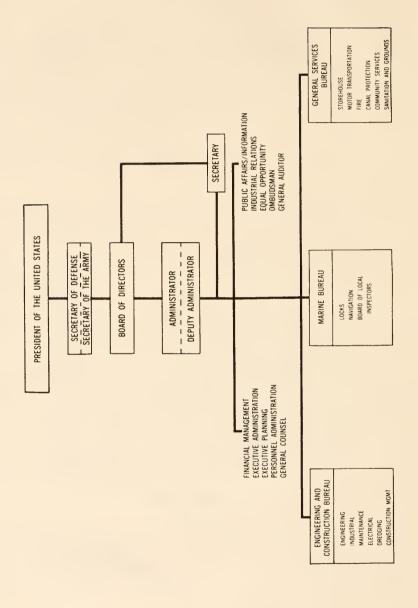
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PANAMA CANAL COMMISSION



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. 3601 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

2 INTRODUCTION

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.

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 650,799 vessels of all types have transited with 546,084 or 83.9 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.

BOARD OF DIRECTORS **Ending Fiscal Year 1985**

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

Honorable Luis A. Anderson Secretary General Interamerican Regional Labor Organization Mexico, D.F.

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

Honorable FERNANDO CARDOZE

Panama, Republic of Panama

Executive Committee

Honorable WILLIAM R. GIANELLI. Chairman Honorable FERNANDO CARDOZE Honorable OYDEN ORTEGA Honorable WILLIAM SIDELL Honorable WILLIAM W. WATKIN, Jr. Honorable ANDREW E. GIBSON Short Hills, New Jersey

Honorable Oyden Ortega Panama, Republic of Panama

His Excellency CARLOS OZORES Panamanian Ambassador to Spain Madrid, Spain

Honorable WILLIAM SIDELL Poway, California

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

Cut Widening Feasibility Committee

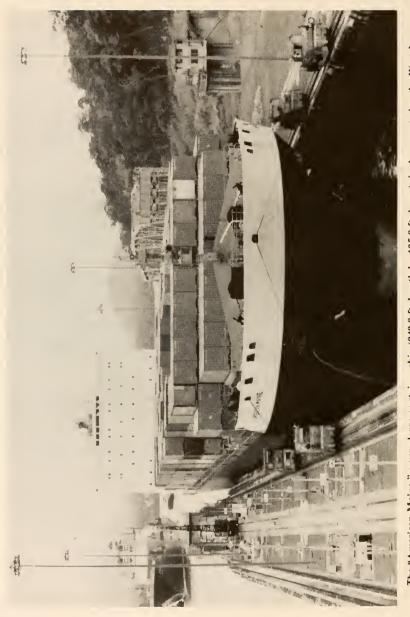
Honorable FERNANDO CARDOZE. Chairman Honorable Andrew E. GIBSON Honorable OYDEN ORTEGA Honorable WILLIAM W. WATKIN, Jr.

OFFICIALS IN THE REPUBLIC OF PANAMA

Administrator Honorable D. P. McAuliffe

OFFICIALS IN WASHINGTON, D.C.

Secretary MICHAEL RHODE, Jr.



The "American Maine," a very large container ship (949.8 ft. length by 105.8 ft. beam), is shown entering the West Lane of Miraflores Locks on a Northbound transit.

Chapter I CANAL TRAFFIC

TRAFFIC

Most elements of Canal traffic improved from prior year levels during fiscal year 1985. Cargo shipments through the Canal, however, decreased relative to the prior year. The gains in traffic without growth in cargo were primarily due to a rise in average ship size and an increase in low density commodities.

Oceangoing transits in fiscal year 1985 increased 2.4 percent to 11,654 or 31.9 vessels daily from 11,384 or 31.1 daily the prior year. Vessels owned or operated by the U.S. Government and free Colombian and Panamanian Government vessels made 139 transits during the year compared with 154 transits in fiscal year 1984.

Average ship size increased during fiscal year 1985 primarily as a result of transits by large, third generation container vessels deployed in new, round-the-world services. The increase was particularly concentrated in vessels with beams of 100 feet and over. Transits in this size category rose 9.8 percent to 2,382 or 20.4 percent of total oceangoing transits from 2,170 or 19.1 percent of total oceangoing transits in fiscal year 1984. Transits by vessels having beams of 80 feet and over accounted for 5,514 or 47.3 percent of total oceangoing transits compared with 5,496 or 48.3 percent of total oceangoing transits in the prior year. Average size of oceangoing commercial vessels, in terms of Panama Canal net tonnage, rose to 14,676 tons in fiscal year 1985 from 14,461 tons in 1984.

Total Panama Canal net tonnage increased 4.0 percent to 170.3 million in fiscal year 1985 from 163.8 million tons in the prior year. Correspondingly, tolls revenue rose 4.0 percent to \$300.8 million from the \$289.2 million in 1984.

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

COMPARATIVE HIGHLIGHTS OF OPERATIONS

	Fisca	l vear
	1985	1984
Oceangoing transits: Commercial	11,515	11.230
U.S. Government	11,313	11,230
Free	10	17
Total	11,654	11,384
Daily average	31.9	31.1
, ,		
Small transits:	793	802
Commercial U.S. Government	273	241
Free	46	96
T	1.112	1.120
Total	1,112	1,139
Total cargo:		
Commercial	138,643,711	140,471,470
U.S. Government	259,524	329,607
Free	23	59
Total	138,903,258	140,801,136
Total Panama Canal net tons and reconstructed displace-	170 330 110	1/2 022 /22
ment tonnage	170,338,118	163,833,672
Transit revenue:		
Commercial tolls	\$298,562,452	\$286,754,765
U.S. Government tolls	2,236,404	2,400,270
Tolls revenue	\$300,798,856	\$289,155,035
Harbor pilotage, tug, launch, and other services	\$61,824,017	\$58,931,942
Total transit revenue	\$361,824,017	\$348,086,977

COMMODITIES AND TRADE ROUTES

Oceangoing commercial cargo totaled 138.6 million long tons during fiscal year 1985, with twelve key commodity groups accounting for 85.0 percent of that total. The groups, shown on page 10, have maintained relatively stable levels of importance to Canal traffic in recent years. In fiscal year 1984, the proportion observed for these commodity groups was 86.2 percent.

Despite a decline in petroleum and petroleum products, this commodity group continued to rank as the principal trade in fiscal year 1985, accounting for 19.3 percent of total oceangoing commercial cargo. The tonnage in this group totaled 26.8 million long tons, down by 12.7 percent from 30.7 million long tons the prior year. The petroleum and products movement at the Canal has been affected by sluggish conditions in these markets. Crude oil totaled 12.4 million tons, dropping 12.7 percent from

14.2 million long tons in fiscal year 1984 and petroleum products, at 14.4 million tons, registered a 12.7 percent decline from 16.5 million tons.

Grain was the second commodity group in fiscal year 1985, accounting for 17.0 percent of commercial cargo. Grain shipments totaled 23.5 million long tons, down 16.4 percent from the already depressed 28.1 million tons registered in fiscal year 1984. All components of the group, except oats and sorghum, showed decreases. The largest decline was reflected in the wheat tonnage which dropped 39.8 percent to 5.4 million long tons from the 9.0 million tons in the prior year. A number of factors accounted for the lower tonnage in the grain trade, particularly a smaller share of U.S. exports in Far East markets. Increased competition from countries such as Argentina and Australia, at the same time that some major importing countries have achieved self-sufficiency in certain grains, are factors which affected U.S. grain exports. An additional factor behind the drop in the Canal grain trade was the shift of U.S. export grain to West Coast ports, promoted by very low rail rates. Grain shipments from the U.S. to the Far East constituted 83.7 percent of the total movement, with Japan, Taiwan and China being the principal destinations.

A significant improvement was observed in the nitrates, phosphates and potash group in fiscal year 1985. This commodity group increased 20.2 percent to 11.9 million long tons from 9.9 million tons in 1984, gaining the third place in Canal major commodity groups. This trade accounted for 8.6 percent of total oceangoing commercial cargo.

Shipments of coal and coke increased 15.0 percent to 11.5 million long tons from 10.0 million tons the prior year, reversing a downward trend which began in 1983. Most of the increase was due to higher shipments to the Far East and Europe. Coal shipments to Japan, however, dropped 14.4 percent to 4.8 million long tons in fiscal year 1985, reflecting a declining U.S. market share in Japanese imports and increases in U.S. coal exports bypassing the Canal.

Other commodity groups experiencing gains during the year were ores and metals, which rose 11.5 percent to 9.7 million long tons; manufactures of iron and steel, which increased 6.9 percent to 7.8 million long tons; miscellaneous minerals, which rose 12.8 percent to 4.4 million long tons; canned and refrigerated foods, which rose 12.1 percent to 3.7 million long tons; and machinery and equipment, which was up by 9.1 percent to 2.4 million long tons.

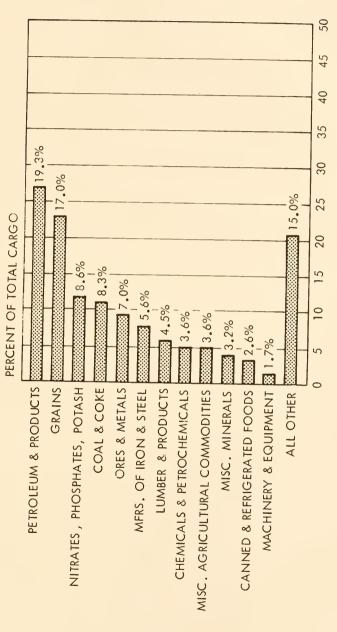
Canal trades registering decreases during the year were lumber and products, which dropped 3.1 percent to 6.2 million long tons; chemicals and petrochemicals, which dropped 3.9 percent to 5.0 million long tons; and, miscellaneous agricultural commodities, which dropped 10.7 percent to 5.0 million long tons.

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Trade between the East Coast of the United States and Asia remained the leading route in Canal traffic, with nearly 38.0 percent of total commercial cargo shipped over this route. The total cargo tonnage plying the U.S. East Coast-Asia route declined again this year, however, from 55.2 million long tons to 52.2 million tons, a drop of 5.4 percent.

The following chart and table show the principal commodity groups moving in oceangoing commercial vessels in 1985 and a comparison of the major trade routes in fiscal years 1985 and 1984.

PRINCIPAL COMMODITY GROUPS
TRANSITING THE CANAL
OCEANGOING COMMERCIAL CARGO FY 1985



MILLIONS OF LONG TONS

Major Voyage Trade Routes in Canal Traffic

10	or ise)	Long Tons Cargo		(5.5)	(0.4)	19.3	(15.5)	(11.7)	- ·	0.46	(7.7)	7.7	7.	(5.6)	4.6	(1.3)	
Percent of	Increase or (Decrease)	Panama Canal Net Tons		3.5	0.0	30.1 24.0	(6.6)	(5.3)	(6.7)	2.3	(6.7)	6.0/	(4.1)	3.6	٤ ٧	1.4	
	- [Long Tons Cargo	of tons]	55,229	14,288	4,704 2,143	4,464	4,281	4,119	4.864	4,120	1.948	2,343	115,882	24 580	140,471	
ear	1984	Panama Canal Tons Tons	[In thousands of tons]	62,802	14,339	7,350	5,320	5,002	4,944	4,218	4,442	2,360	3,109	134,954	100 70	162,335	
FISCAL L		Long Tons Cargo	Ē	52,190	14,228	6,216	3.770	3,779	4,495	5,058	3,743	3,014	2,178	112,920	1	138,643	
	1985	Panama Canal Net Tons		63.702	14,473	9,561	4.993	4.739	4.614	4.313	4,010	4,024	2,983	139,834	1	29,107	
				Trade Route	East Coast United States-West Coast South America	Europe-West Coast United States/Canada	Europe-West Coast South America	West Hulles-Asia (including Alaska and Hawaii)	E. MillerCoastal	East Outs, Wheat Coast South America	West Indied States/Canada-Oceania	Central American Intercoastal	Acitem	Europe-Oceania	Subtotal	All other routes	





A berthing operation in progress at the new Tie-Up Station—recessed in the West Bank of the Canal—North of Pedro Miguel Locks.

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 increased from the 31.1 per day during fiscal year 1984 to 31.9 per day during fiscal year 1985. Average time in Canal waters increased from 23.3 hours in fiscal year 1984 to 23.9 hours in fiscal year 1985.

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
1985	3,862	33.1	5,514	47.3
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 decreased 9.6% during FY 1985 with 1,468 vessels transiting the Canal compared to 1,623 last year.* The maximum allowable draft remained at 39 feet 6 inches during the entire fiscal year.

Total jobs performed by Commission tugs increased from 33,796 in fiscal year 1984 to 34,209 in fiscal year 1985.

		l vear
	1985	1984
Oceangoing transits	11,654	11,384
Tug jobs:		
Balboa	22,991	23,242
Cristobal	11,218	10,554
Tug operating hours	54,889	55,675

^{*} Changed from 1,715 to 1,623.



A "lateral culvert bulkhead slot frame" is shown being placed into the locks floor at the base of the center wall, during the Gatun Locks overhaul.

MAINTENANCE AND RELATED CANAL PROJECTS

Dredging activities continued throughout the fiscal year and May of 1985 saw the completion of the channel deepening project, thereby providing the additional water necessary to virtually guarantee a year-round maximum draft of 39.5 feet for transiting vessels. During FY 1985, the dredges *Mindi* and *Christensen* excavated more than 1.3 million cubic yards of earth and rock.

The Bohio Curve Widening Project is proceeding on schedule. Land drilling and blasting was completed in mid-August and dredging operations are scheduled to begin in mid FY 1986. During FY 1985, the Panama Canal lateral navigational aids system was changed to conform to the International Association of Lighthouse Authorities (IALA) Maritime Buoyage System. Presently all lights, colors, and characteristics, as well as the color of their structures, conform to the IALA System.

Between October 1984 and March 1985, Miter Gates Nos. 21, 22, 23, and 24 from Gatun Locks were overhauled at the Mount Hope Industrial Division using the newly installed syncrolift. As part of the overhaul at Gatun Locks, 109 lateral culvert bulkhead slots were constructed in the east and west floors of the locks chamber. These bulkhead slots at Gatun, together with those previously installed at Miraflores and Pedro Miguel Locks, permit both lanes to remain safely in service during inspection, maintenance, or overhaul of the center and sidewall culverts. Other important maintenance work included continued efforts on the replacement and rehabilitation of the towing locomotive track system, the fendering system at Gatun Locks, and reactivation of the S1P-3 fire protection system at all three locks.

In February 1985, work began on a major modernization of the Dredge MINDI to replace the old spud-maneuvering system with a new hydraulic system mounted on a barge attached to the stern of the dredge. In addition, the cutter motor will be changed to a 900 HP unit and the main power system will be centralized. The overall cost of this project will be approximately \$3.6 million and will bring the capability of this 1937 dredge up to that of any modern dredge of its size and type.

In a continuing effort to upgrade the Commission's hydroelectric generation facilities, a new design turbine runner was installed in units No. 2 and No. 3 at Madden Dam Power Plant. The new design will reduce recurring cavitation damage repair costs and provide higher power output at high lake levels from the recently rewound and uprated generators. This work completes the project, begun in fiscal year 1984, to replace the turbine runners in all three Madden Dam units. Installation of the new Supervisory Control and Data Acquisition System (SCADA) for electrical power dispatching is progressing satisfactorily and is scheduled to be in full operation by the end of fiscal year 1986.

A solicitation for proposals to replace and upgrade the Commission telephone system was issued on July 10, 1985. The new system will replace obsolete, worn electromechanical switching equipment and provide all Commission facilities the opportunity to integrate both voice and data telecommunication services. This multi-year contract, the first of its type to

be approved by GSA for the Commission, is scheduled to be awarded in fiscal year 1986.

A new hydrographic station was constructed on the Piedras River above the Madden Reservoir to provide additional river elevation and rainfall data for early warning flood control operations. Because of the remoteness of the station, its construction required extensive helicopter support. Rio Piedras is the newest of a 30 station hydrographic network located throughout the Canal watershed.

Construction of the Vessel Tie-Up Station has been completed and the facility was accepted by the Commission on August 19, 1985. This station, located on the west bank of Gaillard Cut just north of Pedro Miguel Locks, increases lockage through-put by making it possible to moor northbound vessels awaiting transit of Gaillard Cut.

In other transit-related work, development efforts continued on the Commission's new computerized Marine Traffic Control System. This system, which will provide a major enhancement of vessel traffic management capabilities at the Panama Canal, is expected to come on line during the first quarter of FY 1986.

Miscellaneous maintenance work during the 1985 fiscal year included preparation of over 200 housing units to ensure minimum standards of safety, serviceability, and sanitation prior to their transfer to Panama. In addition, repair work on two major holes in Miraflores and Pedro Miguel locks walls was completed and a towing locomotive turntable installed on the centerwall of Miraflores Locks.

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 1sthmus 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, and supply and property disposal support to Canal operations. A total of \$66.6 million in goods and services were procured during fiscal year 1985, including \$22.0 million from sources in Panama. Major contracting obligations included approximately \$9.2 million for Bunker "C" fuel and \$5.1 million for Navy special fuel for thermoelectric power generation, \$4.7 million for light diesel fuel for floating equipment, \$1.0 million for premium gasoline, \$1.4 million for a split-hull dump barge, and \$4.0 million for three locks towing locomotives.

Approximately \$17.9 million in Commission inventory items were issued for Commission use, and \$19.1 million was obligated for new inventory purchases during the year. A total inventory of 38,573 line items with an average landed cost value of \$28.0 million was on hand at year end.

Activities of the Excess Disposal Branch included no-cost transfers to other U.S. Government agencies of excess equipment having an original acquisition value of approximately \$899,814, while surplus property sold to the Government of Panama at fair market value amounted to approximately \$75,000.

The Logistical Support Branch in New Orleans, LA., expedited urgent purchases and coordinated all Commission cargo shipments from the United States to Panama. Under the coverage of the Military Sealift Command's contract, 12,100 measurement tons of containerized and breakbulk cargo were shipped to the Port of Balboa. An additional 3,550

tons of general cargo and vehicles were shipped under commercial contract with an ocean freight shipper from New Orleans to Las Minas, Republic of Panama.

COMMUNITY SERVICES

During fiscal year 1985, the Community Services Division managed employee housing, Commission-owned buildings, library services, and the employee fitness program for the agency.

Housing expenditures were concentrated on programs for preventive maintenance and repairs, quarters energy conservation, and enhancing the physical security of quarters used by the Commission. The agency continued its multiyear housing management plan designed to concentrate its diminishing housing requirements in selected core 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 preserving optimum housing accommodations for its eligible employees and meeting its ongoing responsibilities under the Panama Canal Treaty. From March to June, 1985, the Commission transferred an additional 500 housing units, excess to its needs, to the Republic of Panama. At the end of the fiscal year, the agency retained the use of 1,895 housing units for its United States-citizen and other eligible employees. This represented 44% of the inventory of approximately 4,300 units owned by the Panama Canal Company immediately prior to entry into force of the Panama Canal Treaty in 1979, indicating that a total of 56% of those units have been transferred in use to Panama in six years.

The buildings management activity, which is responsible for the maintenance and operation of Commission buildings and structures (not specifically assigned to other Commission units) and for a centralized custodial service, transferred 14 non-residential buildings no longer required by the Commission to the Republic of Panama. The Community Services Division was designated as the agency's coordinator for the implementation of Executive Order 12411 and Temporary Regulation D-71 for efficient space management.

Library Services provided mission-support information and research to all units of the Commission and maintained a collection of library and three-dimensional materials relating to the history of the Panama Canal. The division also administered a variety of duty-related as well as off-duty fitness programs and facilities for Commission employees and their dependents.

SANITATION AND GROUNDS MANAGEMENT

Approximately 2,900 acres of improved grounds were maintained within and around Commission residential areas, buildings, and the locks and industrial facilities. Vegetation control was maintained by Grounds Management Branch crews along utility line rights-of-way, earthen saddle dams, Gatun Dam, Canal bank stability drainage systems, and around the perimeters of aids to navigation towers and targets. Close coordination

with Panama officials in the transfer of responsibility for grounds care, resulted in a smooth transition of services in connection with the transfer of large blocks of Commission quarters and buildings in Coco Solo, Ancon, and other areas.

Environmental health services essential to maintain public health in the Panama Canal area were furnished by the Sanitation Management Branch. Surveillance and control of biting insects and vermin capable of transmitting disease were continued in the Canal Area with emphasis on non-chemical control methods such as drainage maintenance in lieu of extensive dispersements of chemical insecticides. Some 220 miles of surface water drainage ditches were maintained to eliminate mosquito breeding around employee work and housing areas. Requirements of specialized mosquito control measures continue to be necessary for the prevention of such major insect-borne tropical diseases as malaria, yellow fever, and dengue. Additional control efforts were directed against cockroaches, house flies, bats, rats, venomous snakes and other vermin.

Africanized honeybees continue to present ongoing problems within residential areas, at Canal work sites and on vessels transiting Canal waters. A total of 923 swarms and nests of Africanized bees were destroyed in a cooperative effort between Commission and U.S. military bee control teams this fiscal year, a 25 percent increase over the previous year's total. Nests have become more numerous and several severe stinging incidents have occurred, but no human deaths have yet occurred. Commission bee control teams handled 20 swarms on board transiting ships during the year, as compared to 12 incidents last year. A recent inadvertent introduction of Africanized bees into the central valley of California by an infested shipping container emphasizes the continuous need to provide effective bee control and maritime quarantine at the Panama Canal.

The Commission's Pacific and Atlantic sanitary landfill refuse disposal facilities handled 76,000 tons of refuse over the past year. Of the two sites, the Atlantic landfill is unique in that for the past 45 years, it has been utilized to receive all municipal refuse from the Colon metropolitan area and the U.S. military bases, in addition to that of the Commission's residential areas and Panama Canal work sites.

TRANSPORTATION FACILITIES

The Motor Transportation Division operated and maintained a consolidated motor pool of 866 vehicles designed to meet the vehicular transportation requirements of the Commission. The vehicle fleet in fiscal year 1985 included 602 trucks of various types, 208 passenger-carrying vehicles, and 56 special-purpose vehicles. Vehicle mileage decreased slightly from 7,170,000 miles in fiscal year 1984 to 7,056,706 miles in fiscal year 1985. Fully equipped shops, including a tire retreading facility and heavy duty repair shops, provided 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 facility located within the Motor Transportation Division, Ancon area garage, also was 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 1985 was 497 gigawatt hours, a 7.5 percent decrease from the 533 gigawatt hours used last year. The peak hourly demand of 81 megawatts reached on May 3, 1985, was 3.6 percent below the peak of 84 megawatts in the prior year. Agency-directed energy consumption in fiscal year 1985 for electrical power and fuel, calculated together in Btu's, was reduced a total of 28.9 percent in relation to the fiscal year 1975 baseline established by the Federal Energy Management Program. Electrical power consumption by the Commission, 71.6 gigawatt hours, was 3.7 percent below the usage levels recorded for comparable operations in fiscal year 1975; fuel consumption, excluding fuel for power generation, 3.9 million gallons, was 49.4 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 1985, the two systems supplied 3,182 million cubic feet of potable water to consumers, a decrease of about 0.4 percent from the previous year. Water consumed by Panama City and Colon metropolitan areas amounted to approximately 51.1 million gallons per day.

FIRE PROTECTION

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

During fiscal year 1985, there were 758 fires (excluding ships), causing a loss of \$385,892 as compared to 563 fires during fiscal year 1984 which resulted in a loss of \$384,952. There were 20 ship fires during this year versus 17 in the previous year. Ship fire losses in fiscal year 1985 were \$353,405 as compared to \$243,112 the year before. A variety of hazardous materials type emergency responses totaled 64. Ship hazardous cargo stand-bys and marine/dock emergencies totaled 811.

CANAL PROTECTION

The Canal Protection Division is responsible for providing plant protection and physical security for Panama Canal Commission vital installations and facilities devoted to the operation, maintenance, and management of the Panama Canal. Physical security improvement projects continued during the fiscal year in accordance with the program designed to upgrade security systems and hardware and will continue over the next several years. In addition, a new in-service employment concept for filling guard vacancies began during the year using the upward mobility program, which should improve the quality of guard personnel and help reduce turnover.

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 1985, the Commission experienced 748 performance-of-duty accidents in which the employees required medical attention beyond first aid, as compared to 675 such accidents in fiscal year 1984. Though the incident rate rose from 7.7 in fiscal year 1984 to 9.1 per 200,000 man-hours worked in fiscal year 1985, there were no fatalities recorded in fiscal year 1985, as compared to the ten experienced in fiscal year 1984. The sharp decline in fatal accidents can be attributed in part to intensified safety and health awareness, increased training and publicity, issuance and implementation of various new criteria and policies covering safe and healthful work practices and use of protective equipment, such as safe PCB handling, working in confined spaces, and mandatory seat belt use. Additionally, the Commission's alcohol and drug abuse rehabilitation program was strengthened through increased emphasis on counseling abusers, thereby serving to further ensure a safe working environment.



Chapter IV

ADMINISTRATION AND STAFF

PERSONNEL FORCE EMPLOYED AND RATES OF PAY

At the end of fiscal year 1985, the total Isthmian force of the Commission was 8,435 compared to 8,090 employees in fiscal year 1984. Approximately 82 percent of the 1985 Isthmian force was comprised of Panamanians; 2 percent of third country nationals; and the remaining 16 percent of U.S. citizens. Of the total Isthmian force, 7521 were permanent and 914 temporary. There was a U.S. Coast Guard officer assigned to the Commission on the Isthmus. In addition, fourteen persons, all U.S. citizens, were employed by the Commission in New Orleans and Washington, D.C.

Rates of pay were based on a U.S. Wage Base for positions which historically have been hard to fill, and on a Canal Area Wage Base for other occupational categories. Although originally scheduled for elimination in October 1985, the last step of a three-stage plan to phase out the New Wage System was for various administrative reasons implemented on September 29, 1985; this eliminated the remaining difference between the New Wage System and pre-treaty wage schedules. The following table shows the Commission civilian permanent Isthmian work force by citizenship and wage base.

		Non-	
Fiscal Year 1985	U.S	U.S.	Total
Canal Area Wage Base	119	4,221	4,340
U.S. Wage Base		1,960	3,181
Total	1,340	6,181	7,521

The total Commission payroll was \$182.7 million in fiscal year 1985 compared to \$178.3 million in fiscal year 1984. Of the total Commission fiscal year 1985 payroll, \$118.5 million was paid to non-U.S. citizen employees and \$64.2 million to U.S. citizen employees.

EQUAL EMPLOYMENT OPPORTUNITY PROGRAM

Between fiscal year 1984 and 1985, the number of EEO complaints formally filed with the Agency continued to decrease. A breakdown, by citizenship grouping, of formal complaints filed with the Agency during fiscal years 1984 and 1985 follows:

	Fiscal	vear
Citizenship Group	1985	1984
United States	6	4
Non-United States	0	4
Total	6	8

This continuing decrease in the number of EEO complaints reflects the growing number of employees utilizing the grievance procedures negotiated under the Agency's collective bargaining agreements.

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

	Fiscal	Fiscal year 1985		vear 1979
United States Citizens				
Panamanian Citizens	6,000	(79.6%)	5,523	(69.2%)
Third Country Nationals	181	(2.4%)	350	(4.4%)
Total	7,535	(100.0%)	7,978	(100.0%)

Over the six-year period, since October 1, 1979 through September 30, 1985, that the Panama Canal has operated under treaty mandates for increasing the participation of Panamanians, the Agency's total permanent work force decreased 5.6%, while the number of Panamanians rose by 8.6%. This trend of increased participation cuts across all wage categories and pay levels in the Agency.

Between Fiscal Years 1984 and 1985, there was little variation in composition of the total permanent work force on the basis of sex:

	Fiscal	vear 1985	Fiscal year 1984		
Male	6,744	(89.5%)	6,722	(89.7%)	
Female	791	(10.5%)	775	(10.3%)	

PUBLIC AFFAIRS

During fiscal year 1985, the Office of Public Affairs expanded its activities in support of marketing efforts and customer relations in addition to providing media coverage of Panama Commission activities locally and internationally. Through the Commission publication, Spillway, and local press releases, employees were provided information on significant milestones in treaty implementation which affected their work and daily lives as well as news of Canal operations and Commission policies.

The Graphic Branch provided support to the foregoing activities, and produced a variety of audio-visual aids, including slide briefings to assist in official orientations for visitors to the Canal; two multi-image shows, a three projector one for the topographical model at Miraflores Locks and a

12-projector one for use at local and international maritime expositions and conferences. A new information film, "The Vital Element", to stress the importance of preserving the Canal's watershed, was also produced.

During the year, the Guide Service handled a total of 280,480 visitors at Miraflores and Gatun Locks and conducted 843 VIP tours. Among the visitors were officials of the shipping industry, representatives of television networks, writers for news, travel, and shipping industry publications, producers of motion picture documentaries, and government and business officials from all over the world.

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 request for information. Generally, complaints 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 Isthmus as a result of the treaty. In resolving complaints, the widest latitude possible was applied to consideration of problems affecting employee morale and quality of life.

During fiscal year 1985, over 1,962 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.

INDUSTRIAL RELATIONS

With the exception of the pilot bargaining unit, labor-management relations within the Commission during the past year have been marked by routine contract administration activity. Communication between labor and management was generally good and unions continued to enjoy access to the Commission's top management officials. There was an increased awareness by management officials of the obligation to deal with the unions as part of the process of effecting changes in the work place. Labor-management concerns of a pressing nature received prompt attention, and resort to third party dispute resolution was minimal.

Renegotiation of the basic collective bargaining agreement between the Commission and its pilot employees, which began in February 1984 and resulted in impasse prior to the end of fiscal year 1984, was not brought to a conclusion until January of 1985. The agreement that emerged and which was imposed by the Federal Service Impasses Panel, although less generous than the prior agreement, restored a necessary balance to the relationship between the Commission and the pilots. The change, however, was not well accepted and many pilots have refused to embrace the new agreement. The result has been full resort by the union to the entire panoply of dispute

resolution machinery in a campaign against management initiatives and many aspects of the new collective bargaining agreement.

GENERAL COUNSEL

Legislation has been introduced in the 99th Congress to amend the provisions of the Panama Canal Act of 1979 pertaining to vessel damage claims. This bill, H.R. 729, was passed by the House of Representatives on July 22, 1985. By the close of fiscal year 1985, the Senate Armed Services Committee had not held hearings on bill H.R. 729. This bill is virtually identical to bills introduced in both Houses of the 98th Congress, which failed to reach the floor of either House before the end of that Congressional session.

The new bill, H.R. 729, if enacted, would transfer from the Congress to the Commission the authority to settle and pay claims of more than \$120,000 for damage to vessels which occurs outside the locks of the Canal and would subject the Commission to suit on non-locks accidents by claimants who are not satisfied by the Agency's findings, determinations or awards with respect to such claims. In addition, the bill would protect the General Fund of the Treasury from liability for accidents, allow the Commission to purchase catastrophic insurance and set a time limitation on the filing of claims.

Chapter V

FINANCIAL REPORT

FINANCIAL STATEMENTS FOR THE FISCAL YEAR ENDED SEPTEMBER 30, 1985

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, 1985, 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 \$1.1 million. This amount is payable to the Government of Panama 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).

CAPITAL EXPENDITURES

Accrued capital expenditures for fiscal year 1985 amounted to \$29.2 million. The principal expenditures were \$4.1 million for installation of bulkhead slots at Gatun Locks, \$3.9 million for replacement of tugboats, \$2.0 million for the purchase of three split hull dump barges, \$1.7 million for the Vessel Tie-Up Station, \$1.4 million for upgrading Marine Traffic Control System, \$0.9 million for the installation of the Supervisory Control and Data Acquisition System for the Commission's power system.

Table 1.-Statement of Financial Position

Assets	1985	1984
PROPERTY, PLANT AND EQUIPMENT: At cost (Note Ic)	\$896,689,808 <u>426,669,494</u> <u>470,020,314</u>	\$888,551,801 <u>420,152,474</u> <u>468,399,327</u>
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	146,195 1,172,298 456,513 1,775,006	151,542 521,421 917,191 1,590,154
Unexpended appropriated funds: Operating funds Capital funds Emergency fund	43,357,867 24,605,692 10,000,000 77,963,559	46,185,064 28,986,025 10,000,000 85,171,089
Accounts receivable: RegularOther (Note 7)	79,738,565 11,310,945 826,867 12,137,812	13,844,708 826,867 14,671,575
Inventories, less allowance for obsolete and excess stock of \$423,954 and \$400,000, respectively (Notes 1g and 6c)	40,695,032	40,718,200
Other current assets	400,566	262,627
OTHER ASSETS: Deferred charges: Cost of early retirement benefits (Note 1h) Retirement benefits to certain former employees of predecessor agencies (Note 1h) Other	273,840,000 8,740,000 204,106 282,784,106	293,400,000 9,596,000 408,213 303,404,213
Total Assets	\$885,776,395	<u>\$914,217,185</u>

The accompanying notes are an integral part of this statement.

September 30, 1985 and 1984

Liabilities	1985	1984
INVESTMENT OF THE UNITED STATES GOVERNMENT.		
Invested capital:		
Interest-bearing (10.720% and 10.208%, respectively) (Note 9)	\$76,901,053	\$84,014,932
Non-interest-bearing.	286,084,032	277,910,116
	362,985,085	361,925,048
Current budgetary accounts (Note 4):	42.257.047	46 105 064
Obligated operating fundsObligated capital funds	43,357,867 15,232,473	46,185,064 19,792,831
Unobligated capital funds	9,373,219	9,193,194
Unobligated emergency fund	10,000,000	10,000,000
	77,963,559	85,171,089
	440,948,644	447,096,137
CURRENT LIABILITIES:		
Accounts payable: U.S. Government agencies	4,851,421	4,861,685
Government of Panama	6,423,722	6,630,604
Other	9,069,465	8,067,022
	20,344,608	19,559,311
Accrued liabilities:	40.370.754	20 (42 070
Employees' leave	40,368,754 5,391,152	39,643,978 4,513,849
Cost of early retirement benefits (Note 1h)	19,560,000	19,560,000
Retirement benefits to certain former employees of	1 153 000	1 224 000
predecessor agencies (Note 1h) Employees' repatriation	1,152,000 951,000	1,234,000 1,270,000
Marine accident claims (Notes 7 and 10)	5,499,542	8,569,562
Net revenue payable to Government of Panama	1,118,755	2,704,695
Other	<u>2,269,221</u> 76,310,424	5,010,926 82,507,010
Other current liabilities:	70,310,424	82,307,010
Unfunded marine accident claims (Notes 7 and 10)	23,052,507	19,782,519
Advances for capital-unexpended (Notes 1d and 11)	9,614,130	14,078,394
Other	1,188,069	483,062
	33,854,706	34,343,975
	130,509,738	136,410,296
Deferred Credit:		
Advances for capital being amortized (Notes 1d,	26 002 054	17 501 705
6a and 11)	26,082,854	17,501,785
LONG-TERM LIABILITIES AND RESERVES:		
Cost of early retirement benefits (Note 1h)	254,280,000	273,840,000
Retirement benefits to certain former employees of predecessor agencies (Note 1h)	7,588,000	8,362,000
Employees' repatriation	7,386,000	10,728,400
Lock overhauls (Note 1i)	2,796,648	5,395,232
Marine accidents (Note 1j)	13,053,215 745,693	11,771,923 611,412
Floating equipment repair (Notes 1k and 6b)	2,385,603	2,500,000
	288,235,159	313,208,967
T	#00# 77 4 3 0#	6014 217 107
TOTAL LIABILITIES	\$885,776,395	\$914,217,185

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, 1985 and 1984

	1985	1984
OPERATING REVENUES: Tolls (Note 1b)	\$300,807,914	\$289,155,035
Advances for capital (Note 1d)		
Net tolls revenue	300,807,914	289,155,035
Other	111,669,114	120,114,444
Advances for capital (Note 11)	(5,753,649)	(4,853,615)
Net other revenues	105,915,465	115,260,829
Total operating revenues	406,723,379	404,415,864
OPERATING EXPENSES (Note 6d):		
Payments to the Government of Panama:	10,000,000	10,000,000
Public services	10,000,000	10,000,000
Tonnage	52,803,013	49,143,817
Tolllage	72,803,013	69,143,817
	72,803,013	09,143,817
Maintenance of channels and harbors	42,384,789	39,633,790
Navigation service and control	66,755,872	71,396,827
Locks operation	42,881,108	46,516,500
General repair, engineering and maintenance		
services	19,044,297	5,074,102
Supply and logistics	15,517,805	7,612,534
Utilities	34,680,996	34,538,353
Housing operations	6,893,595	6,121,134
General and administrative	65,937,035 7,713,238	70,460,073 9,796,269
Interest on interest-bearing investment (Note 9) Other	30,992,876	37,284,966
Total operating expenses	405,604,624	397,578,365
NET OPERATING REVENUE (Notes 1b and 8)	1,118,755	6,837,499
Invested Capital—Non-Interest-Bearing: Unrecovered costs (recovered) deferred		
(Notes 1b and 8)		(4,132,804)
Net revenue payable to Government of Panama	(1,118,755)	(2,704,695)
Investment at beginning of fiscal year	277,910,116	268,748,245
Miscellaneous receipts deposited into the U.S.	, ,	
Treasury	917,191	282,793
Due U.S. Treasury for undeposited receipts	(456,513)	(917,191)
Interest on interest-bearing investment (Note 9)	7,713,238	9,796,269
INVESTED CAPITAL -Non-Interest-Bearing at End of		
FISCAL YEAR	\$286,084,032	\$277,910,116

The accompanying notes are an integral part of this statement.

Table 3A.-Statement of Changes in the Investment of the United States Government Fiscal Year Ended September 30, 1985

	Total	\$447.096,137 429,846,000	876,942,137	917,191 7,713,238 73,414 1,118,755	9,822,598	24,439,067 416,106,788 3,437,013 257,955	445,816,091	\$440,948,644
	Capital Funds	\$28,986,025	54,186,025	(29,580,333)	(29,580,333)			\$24.605,692
	Operating Funds	\$46,185,064 404,646,000	450,831,064	(383.034.130)	(383,034,130)	24,439,067	24,439,067	\$43,357,867
	Emergency Fund	\$10,000,000	10,000,000					\$10,000,000
Capital	Non-Interest- Bearing	\$277,910,116	277,910,116	917.191	9,749,184	456.513	1,575,268	\$286,084,032
Invessed Capital	Interest- Bearing	\$84,014,932	84,014,932	29,580,333 383,034,130 73,414	412,687,877	416,106,788 3,437,013 257,955	419,801,756	\$76,901,053 (Note 9)
		INVESTMENT AT OCTOBER I, 1984		INCREASES IN INVESTMENT: Prior year receipts deposited into the U.S. Treasury. Expenditures from capital appropriations. Expenditures from operating appropriations. Interest on interest-bearing investment. Property Itansferred from other U.S. Government agencies. Net revenue (Note 1b)		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 other U.S. Government agencies Net revenue payable to Government of Panama (Note 1b)		INVESTMENT AT SEPTEMBER 30, 1985

The accompanying notes are an integral part of this statement.

Table 3B.-Statement of Changes in the Investment of the United States Government Fiscal Year Ended September 30, 1984

	Total	\$461,393,935	875,118,935	282.793 2.796.269 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	50,330,883	(21,344,858)	(21,344,858)				\$28,986,025
	Operating Funds	\$45,222,217	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
Capital	Non-Interest- Bearing	\$268,748,245	268,748,245	282,793 	12,783,757	917,191	2,704,695	3,621,886	\$277,910,116
Invested Capital	Interest- Bearing	\$108,905,590	108,905,590	21,344,858	381,351,574	405,954,027 116,358 171,847		406,242,232	\$84,014,932 (Note 9)
		INVESTMENT AT OCTOBER 1, 1983		INCREASES IN INVESTMENT: Prior year receipts deposited into the U.S. Treasury Prior year receipts deposited into the U.S. Treasury Expenditures from capital appropriations Expenditures from operating appropriations Interest on interest-bearing investment Net revenue (Notes 1b and 8).		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 other U.S. Government agencies	Net revenue payable to Government of Fanama (Notes 1b and 8)		INVESTMENT AT SEPTEMBER 30, 1984

The accompanying notes are an integral part of this statement.

Table 4.-Statement of Changes in Financial Position

Source of Funds:	1985	1984
From Operations: Revenue	\$406,723,379	\$404,415,864_
Less operating expenses:		
Interest on interest-bearing investment	7,713,238	9,796,269
Payments to the Government of Panama	72,803,013	69,143,817
Other expenses	325,088,373	318,638,279
Total operating expenses	405,604,624	397,578,365
Net operating revenue (Notes 1b and 8)	1,118,755	6,837,499
Unrecovered costs for fiscal year 1983 (recovered) deferred (Notes 1b and 8)		(4,132,804)
Net revenue payable to Government of Panama (Notes 1b and 8)	(1,118,755)	(2,704,695)
Add transactions not requiring outlay of funds:	10 415 272	10 594 520
Depreciation (Note le)	18,415,373 3,741,000	19,586,529 5,071,000
Provision for lock overhauls (Note li)	5,200,000	7,400,000
Provision for casualty losses (Note 1j) Provision for floating equipment repair	3,200,000	7,100,000
(Notes 1k and 6b)	2,500,000	2,500,000
Other	4,482,630	5,665,966
	34,339,003	40,223,495
Change in investment of the U.S. Government:		
Interest on interest-bearing investment	7,713,238	9,796,269
Receipts deposited into U.S. Treasury	(416,106,788)	(405,954,027)
Disbursements from appropriated funds	412,614,464	381,351,575
Net property transfers	(3,621,554)	(288,206) (634,399)
Other	460,677	
	1,060,037	_(15,728,788)
Amortization of advances for capital	1,636,845	941,478
Advances for capital being amortized (Notes 1d,	0.501.060	3,064,777
6a and 11)	8,581,069	
Total source of funds	45,616,954	28,500,962
A Company		
Application of Funds: Lock overhauls expenditures	6,339,585	7,283,342
Casualty losses expenditures	3,784,427	7,842,622
Accrued capital expenditures	29,212,127	22,456,349
Floating equipment repair expenditures	2,614,397	
Total application of funds	41,950,536	37,582,313
INCREASE (DECREASE) IN WORKING CAPITAL	\$3,666,418	\$ (9,081,351)
Analysis of Changes in Working Capital: Increase (decrease) in current assets:		
Cash	\$184,853	\$15,843
Receivables	(2,533,763)	2,801,163
Inventories	(23,168)	(1,292,084)
Other	137,938	(91,755)
	(2,234,140)	1,433,167
Decrease (increase) in current liabilities:	(785,297)	(4,730,783)
Accounts payable	6,196,586	(3,674,921)
Accrued liabilities	489,269	(2,108,814)
Other current mannings (111111111111111111111111111111111111	5,900,558	(10,514,518)
INCREASE (DECREASE) IN WORKING CAPITAL	\$3,666,418	\$ (9,081,351)
TYCKI ASI (DECKLASE) IN WORKING CAPITAL	\$5,500,110	

The accompanying notes are an integral part of this statement.



1984

Table 5.—Statement of Status of Appropriations

1985

	1985	1984
Source of Appropriations: Operating funds: Current year operating appropriation	\$404,646,000	\$391,912,000
Obligated operating funds brought forward: Fiscal year 1980	1,692,534 	2,543,398 3,424,423 4,717,168 34,537,228 45,222,217 437,134,217
Capital funds: Current year capital appropriation (no year)	25,200,000	21,813,000
Obligated capital funds brought forward: Fiscal year 1980	159,270 	273,632 17,758,053
Unobligated capital funds (no year) brought		
forward: Fiscal year 1980 Fiscal years 1981 through 1983 Fiscal years 1981 through 1984	87,103 9,106,091	201,847 10,284,351
	9,193,194	10,486,198
	54,186,025	50,330,883
Emergency fund (no year)	10,000,000	10,000,000
TOTAL SOURCE OF APPROPRIATIONS	\$515,017,089	\$497,465,100

The accompanying notes are an integral part of this statement.

Fiscal Years Ended September 30, 1985 and 1984

	1985	1984
APPLICATION OF APPROPRIATIONS:		
Operating funds: Expenditures from operating appropriations:		
Fiscal year 1980	\$909,463	\$886,097
Fiscal year 1981		1,167,815 2,326,651
Fiscal years—Merged	4,054,389	2,320,031
Fiscal year 1983	1,642,554	29,591,407
Fiscal year 1984	29,914,041	326,034,746
Fiscal year 1985	346,513,683	• • • • • • • • • • • • • • • • • • • •
	383,034,130	360,006,716
Obligated operating funds:		
Fiscal year 1980	713,275	1,692,534
Fiscal year 1981Fiscal year 1982		3,558,134 2,854,042
Fiscal years—Merged	1,729,337	2,034,042
Fiscal year 1983	1,957,813	3,887,554
Fiscal year 1984	3,197,827	34,192,800
Fiscal year 1985	35,759,615	• • • • • • • • • • • • • • • • • • • •
	43,357,867	46,185,064
Unobligated operating funds lapsed	24,439,067	30,942,437
	450,831,064	437,134,217
Capital funds: Expenditures from capital appropriations: Fiscal year 1980	68,453	229,106 21,115,752
Fiscal years 1981 through 1985	29,511,880	
	29,580,333	21,344,858
Obligated capital funds:		
Fiscal year 1980	124,574	159,269
Fiscal years 1981 through 1984	15 107 900	19,633,562
Fiscal years 1981 through 1985	15,107,899	• • • • • • • • • • • • • • • • • • • •
	15,232,473	19,792,831
Unobligated capital funds (no year): Fiscal year 1980Fiscal years 1981 through 1984Fiscal years 1981 through 1985	9,319,873	87,103 9,106,091
	9,373,219	9,193,194
	54,186,025	50,330,883
Unobligated emergency fund (no year)	10,000,000	10,000,000
oncongated emergency fund (no year) ,		10,000,000
TOTAL APPLICATION OF APPROPRIATIONS	\$515,017,089	\$497,465,100

The accompanying notes are an integral part of this statement.

Table 6.—Statement of Property, Plant and Equipment September 30, 1985 and 1984

		1985	5	1984	4
	Estimated service	_	Depreciation and valuation		Depreciation and valuation
	life	Cost	allowances	Cost	allowances
Titles and treaty rights	40 years	\$14,728.889	\$4,510,723	\$14,728,889	\$4,142,501
Interest during construction		50,892,311	50,892,311	50,892,311	50,892,311
Capal excavation fills and embankments	15-100 years	347,536,452	106,030,626	347,536,452	97.504,007
Capal structures and equipment	4-100 years	240,486,121	115,524,805	227,921,383	111,597,988
Supporting and general facilities	5-100 years	154,169,752	96,534,802	163,216,450	102,770,199
Minor items of plant and equipment		10,569,651	10,569,650	10,339,272	10,339,272
Facilities held for future use	15-100 years	2,858,777	2,450,779	2,915,933	2,760,398
		35,302,057		30,855,313	
Suspended construction projects	:	40,145,798	40,145,798	40,145,798	40,145,798
TOTAL		\$896,689,808	\$426,669,494	\$888.551,801	\$420,152,474

The accompanying notes are an integral part of this statement.

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 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. Reserve for floating equipment repair. A reserve is provided through an annual charge to expense to cover the estimated cost of repairs to major floating equipment.
- l. 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 Commission were carried forward and are comprised of: (a) \$4.8 million at September 30, 1985, and \$5.5 million at September 30, 1984, to reduce to usable value the cost of property, plant and equipment transferred; (b) \$50.9 million at September 30, 1985, and 1984, to offset interest costs imputed for the original Canal construction period; and (c) \$42.5 million at September 30, 1985, and \$42.8 million at September 30, 1984, 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 2.53% for fiscal year 1985 and 2.63% for fiscal year 1984.

4. Cash and Fund Balances.

As of September 30, 1985, the cash and fund balances of \$79,738,565 are made up of \$74,572,119 on deposit in the United States Treasury, \$1,509,718 on deposit in commercial banks, and \$3,656,728 on hand. Of the total, \$77,963,559 is comprised of current budgetary accounts which include appropriated funds for operations, capital and the emergency fund.

As of September 30, 1984, the cash and fund balances of \$86,761,243 were 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 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, \$180.8 million as of September 30, 1985, and \$171.2 million as of September 30, 1984, 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 of	Dollars
Operating Appropriation	\$427.2 36.6	\$463.8
Repaid to General Fund (07/81)	(350.0) (28.2)	(378.2)
Amount owed General Fund of U.S. Treasury as of September 30, 1985		\$ 85.6

6. Accounting Changes.

- a. In fiscal year 1984 a new method was adopted for amortizing advances for capital 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. During fiscal year 1984, a reserve was established for floating equipment repairs 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.

- c. 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.
- d. During fiscal year 1985, the Commission virtually eliminated transfers of costs from performers of services to requesters of these services to simplify and streamline accounting for costs. Additionally, in fiscal year 1985, the operating expenses for storehouse, transportation, sanitation and grounds management services and the employee fitness program were reclassified in order to reflect more closely the Commission's functional alignment of costs. For comparability, fiscal year 1984 expenses were recast to reflect the same cost alignment as fiscal year 1985. In this connection, storehouse expenses of \$6,543,628 and transportation expenses of \$1,068,906 were combined and restated under supply and logistics. Sanitation and grounds maintenance services expenses of \$1.078.835 were combined with general repair, engineering and maintenance services, and expenses for the employee fitness program of \$888,251 were combined with other. These expenses were originally classified in fiscal year 1984 as follows: storehouse expenses were included in general repair, engineering and maintenance services; transportation expenses with utilities; sanitation and ground maintenance services with other; and employee fitness program costs with housing operations.

7. Other Receivables.

Other receivables represent services provided in connection with marine 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 marine 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, 1985, and September 30, 1984, was determined as follows:

	Millions o	f Dollars
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
Fiscal year 1985 transactions:		
Disbursements	412.6	
Receipts	(416.1)	
Net property transfers	(3.6)	
Net change		(7.1)
Investment at September 30, 1985		\$76.9

10. Marine Accident Claims.

Liabilities arising from marine 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 marine 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. Public Law 99-209, dated December 23, 1985, granted authority to the Commission to adjust and pay these claims. At September 30, 1985, such claims which have accrued since October 1, 1979, totaled \$23.1 million. The authority under Public Law 99-209 is retroactive to October 1, 1979; however, any payments will require appropriations action by the Congress.

11. 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 \$5.8 million in fiscal year 1985 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.

12. 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, 1985, and September 30, 1984. 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 \$25.9 million at September 30, 1985, and

\$29.7 million at September 30, 1984. Of these amounts \$0.2 million in unfilled purchase orders were prepaid as of September 30, 1985, and \$0.1 million at September 30, 1984. 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 \$7.3 million were held by United States depositories designated by the Panama Canal Commission at September 30, 1985, and \$6.3 million at September 30, 1984, 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, 1985, the balance contingently payable to the Government of Panama amounts to \$53.1 million. As of September 30, 1984, the balance contingently payable to the Government of Panama amounted to \$44.2 million.

13. 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

Table 1.—Panama Canal Traffic—Fiscal Years 1976 Through 1985

		Total traffic	,		nssessed tolls onnage basis	on disp	sessed tolls lacement ge_basis
	Number		Long tons	Number	Panama	Number	Displace-
Fiscal vear	of transits	Tolls	of cargo	of transits	Canal nei tonnage	of transits	ment tonnage
year		EANGOING C				77 471.511.5	Tonnage
1976	12,157	\$134,204,402	117,212,266	12,123	127,778,919	34	131,258
*TQ	3,037	35,272,300	30,888,300	3,031	33,686,757	6	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	142,518,288	12,647	156,907,260	30	109,798
1979	12,935	208,376,741 291,838,590	154,110,866	12,902 13,476	167,470,601 182,063,175	33 31	136,600 137,593
1981	13,884	301,762,600	171,221,762	13,847	188,656,491	37	111,418
1982	14,009	323,958,366	185,452,332	13,976	202,884,207	33	129,684
1983	11,707	285,983,805	145,590,759	11,668	169,503,918	39	132,431
1984	11,230	286,677,844	140,470,818	11,199	162,335,342	31	116,335
1985	11,515	298,497,802	138,643,243	11,498	168,940,927	17	86,623
	OCEA	NGOING U.S.	GOVERNME	NT TRAF	FIC ¹		
1976	85	\$727,983	177,508	68	641,137	17	87,728
*TQ	18	166,779	55,383	13	118,300	5	65,025
1977	88	805,983	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	357,482	80	726,755	31	207,640
1980	101 89	1,515,326	396,481	73 68	844,748	28	217,055
1981	110	1,241,442 1,546,746	301,776 285,451	67	705,936 794,282	21 43	143,121 309,206
1983	125	1,721,925	354,873	77	812,840	48	350,699
1984	137	2.388.272	329,607	88	1,131,865	49	410,682
1985	129	2,223,938	259,524	85	1,148,311	44	248,967
		FREE OCEAN	GOING TRA	FFIC 1 2			
1976	38		5,635	17	22,854	21	41,655
*TO	4			3	1,474	i	1,800
1977	13		380	8	21,252	5	10,380
1978	. 5			4	3,789	1	1,100
1979	10		1	8	4,527	2	2,194
1980	6 11			3 4	1,686 2,248	3 7	4,810 8,544
1981	23			9	5,010	14	21,903
1983	14		2,504	ý	9,119	5	5,986
1984	17			4	2,224	13	21,025
1985	10		20	4	2,731	6	8,771
		TOTAL OCE	ANGOING TR	AFFIC !			
1976	12,280	\$134,932,385	117,395,409	12,208	128,442,910	72	260,641
*TO	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	284,170
1978	12,785	195,662,204	142,809,403	12,721	157,500,134	64	325,043
1979	13,056	209,430,910	154,468,349	12,990	168,201,883	66	346,434
1980	13,614 13,984	293,353,916 303,004,042	167,611,416	13,552 13,919	182,909,609 189,364,675	62 65	359,458 263,083
1981	14,142	325,505,112	185,737,783	14,052	203,683,499	90	460,793
1983	11,846	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	163,469,431	93	548,042
1985	11,654	300,721,740	138,902,787	11,587	170,091,969	67	344,361

Table 1.—Panama Canal Traffic—Fiscal Years 1976 Through 1985 (Continued)

		Total traffic		Traffic as	ssessed tolls unage basis	on disp	sessed tolls lacement ge basis
Fiscal	Number		Long tons of	Number of	Panama Canal net	of	Displace- ment
year	transits	<i>Tolls</i> Small Comn	cargo	transits	tonnage	transits	tonnage
	,	SMALL COMP					1.000
1976	745	\$49,314	6,866 1,236	737 204	50,281 15,389	8	1,229
*TQ	204 759	24,785 39,960	2,820	751	48,717	8	1,108
1977	792	63,526	6,962	785	57,827	7	1,040
1979	936	76,591	7,718	934	69,229	2	94
1980	788	74,898	787	787	52,052 44,962	1 3	57 ⁻ 279
1981	791	65,604	1,355 928	788 826	50,399	4	315
1982	830 810	73,228 73,887	669	810	48,033		
1984	802	76,921	652	800	48,008	2	145
1985	793	73,710	468	792	45,694	1	110
	Ѕм	ali. U.S. Go	OVERNMENT	Traffic	3		
1976	136	\$6,168		18	1,159	118	8,019
*TQ	36	1,613	23	4	481	32	2,144
1977	277	12,851	8	22 25	953 1,446	255 162	16,769 10,742
1978	187 315	9,504 14,375	9	48	2.865	267	15,519
1979	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 11,177
1983	242	11,406	5	12 8	332 336	230 233	11,177
1984	241 273	11,998 12,464		15	773	258	11,113
1903	2/3		REE TRAFFI	C 2 3			
1076	40		50	31	1,484	9	701
1976	14			14	944		
1977	54		10	50	2,840	4	466
1978	44		20	42	2,986	2	72 632
1979	55		3	47 41	2,160 2,317	8 6	560
1980	47 50			41	2,613	9	1,012
1982	58		70	40	2,803	18	1,172
1983	56		8	39	2,321	17	2,010
1984	96		59 3	86 32	4,637 1,721	10 14	1,360 1,103
1985	46				1,721	17	1,103
		TOTAL PANA	MA CANAL	TRAFFIC			
1976	13,201	\$134,987,867	117,402,325	12,994	128,495,834	207	270,590
*TQ	3,313	35,465,477	30,944,942	3,269	33,823,345 134,004,377	44 329	92,174 302,513
1977	13,087 13,808	164,685,365 195,735,234	123,194,672 142,816,393	12,758 13,573	157,562,393	235	336,897
1978	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
1982	15,271	325,589,097	185,738,781	14,930 12,615	203,737,116		473,253 502,303
1983	12,954 12,523	287,791,023 289,155,035	145,948,818 140,801,136	12,013	163,522,412		560,829
1984	12,323	300,807,914	138,903,258		170,140,157		356,687
	, _,						

Oceangoing 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.).

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

³ Includes 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.

Table 2.—Oceangoing Commercial Traffic by Months—Fiscal Years 1985 and 1984

Tolls	1983-84	040,510 \$ 22,706,76		388,529 22,960,793		23,231,308 22,680,013						25,364 335 25,808,300		3298,497,802 \$286,677,84	\$24,874,817 \$23,889,820
of Cargo	1983-84	69	10,938,373 24.			11,084,966 23,						12,991,960 25		140,470,818 \$298,	11,705,902 \$24,8
Long Tons of Cargo	1984-85	12,071,648				10,818,565						11,524,275		138,643,243	11,553,604
Panama Canal Net Tonnage	1983-84					12,854,233							13,601,893	162,335,342	13,527,945
ı	1984-85	14,116,692				13,093,376			_				13,853,491	168.940,927	14,078,411
umber of Transits	1983-84					868							3 915	5 11,230	936
Number	1984-85	396	946	939	926	881	500.1	97	1,032	97	66	947	326	11,515	096
		October	November	December	January	ebruary	Aarch		day	lune	luly		September	Total	Average per month
		October	November.	December .	January	February	March	April	May	June	July	August	September.	Total	Average per

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.

Table 3.—Canal Traffic 1 by Flag of Vessel—Fiscal Year 1985

Measured tonnage Num-Panama Long Canal ber of Registered tons of Flag transits net gross 3 Tolls cargo \$ 22,690 Algeria
Argentina
Australia
Austria
Bahamas
Belgium
Bermuda
Berazil
Bulgaria
Canada 16,504 18,634 30,202 142,797 1,419 53,396 78 031 100.052 125.046 68 331 81 222 82 811 539.149 710.832 836.047 1.265.472 130 2,793,797 1.546.018 1,138,817 85,921 631,734 122,750 151 009 209,697 Brazil
Bulgaria
Canada
Cayman Islands
Chile
Colombia
Costa Rica
Cuba
Cyprus
Czechoslovakia
Denmark
East Germany
Ecuador
Egypt
Faroes
Finland
France
Ghana
Greece
Honduras
Hong Kong
Iceland
India
Indonesia
Israel
Italy
Japan
Jordan
Kuwait
Liberia
Malaysia
Malaysia 531 077 29 664 827 969.771 55,784 41,551 66.021 102.085 32 367 56,510 75,371 68,352 123 387 76.261 218,480 49.620 838,671 2.077,909 87 948 618 1,494,733 749,824 2,186,917 158 3.763.531 1.419.456 10,398 5.682 5.952 2 8 2 9 760,131 893,139 124 1,151,042 1,246,235 2,051,508 1,127,480 8 811 10.416 16,124 13.892 4.904,964 240 6.101.056 8 812 431 3 156 542 168,552 195,864 296,700 7,367,564 39 644 4,263,189 4,914,573 2,675,272 37 524 45,230 68,669 72,780 3 8 1 8 1.500 6.987 1 488 229,423 327,208 186,954 159,802 885,850 66 1,079,907 1.995,218 54,722 20,073,080 29,903 39,012 30.718 11,380,341 7/18 13.009.185 13,951,540 102,859 523,250 23.886 83 279 140,690 450.502 553 883 818 207 4,092 482,776 27,171 4.808 7,488 5.413 577,010 869,134 678,919 29,544 1.866.480 49,723 24,400 2 587.415 70 1 413 888 946,443 76 1.008.497 1.261.444 1.833.490 727,190 22,852,603 18,243,365 39,279,434 10,080,593 20,478 25,948 95,274 75.934 138 959 73 226 1.302 25.360.337 25,320,131 44,621,901 727,066 24 082 801 Literia Malaysia Malta Mauritania Mexico Morocco 397,304 470,128 652,072 167,064 243,163 302,505 184,271 350 2,442,822 580 Mauriania
Mexico
Morocco
Netherlands
New Zealand
Nicaragua
Norway
Panama
People's Republic of China
Peru
Philippines
Poland
Portugal
Rumania
St. Vincent
Samoa
Saudi Arabia
Singapore
Somali Republic
South Korea
Spain
Sri Lanka
Sweden
Switzerland
Taiwan
Thailand
Turkey
United Arab Emirates
United Kingdom
United States
Uruguay
U.S.S.R.
Vanuatu
Venezuela
Vietnam
West Germany
Vugoslavia
Total 1,411,365 3.297.492 1,983,978 110 59,105 2,229,155 70.996 107 033 93 510 226 2,444,214 3,959,891 1.536.004 53,267 45,499 83,263 25,444 1 [24,753 20,021 41,661 9.331 5,961,386 26,732,609 305 5.516.206 9.779.604 4.994,595 1,971 26,754,689 47,084,630 23,131,882 2,005,746 99 1,839,808 2,070,176 3.364.935 166 1,561,955 1,874,767 2,800,169 1,672,145 107 3 011 227 3 024 781 5,382,559 614.987 1,027,574 81 566,011 300,908 1.127 591 10,303 18.854 34,210 62,604 39.814 55,161 18,398 52,035 21,100 33,668 12,682 43 756 92.773 29.239 215 3.959.437 3.800.821 7.034.180 3.568,606 27,945 31,629 51,139 21,266 4,480,586 2,465,355 2,873,155 3.420.139 122 655,448 668 218 1,193,787 226 348 281 049 404 060 169.038 109 2,693,815 2.160,673 4.870.481 1.077.479 892,692 1,365,466 424,154 4.099,840 5,003,859 7,450,775 3,216,562 168 9 536 12,649 17,451 1,771 9.222 12 788 6,435 59,374 68,480 97,670 51,145 8,931,608 503 10,620,238 16,052,118 8.770.978 802 9,429,079 10,234,551 16,558,789 6,733,044 27.376 30 331 47 148 5,085,512 561 4,660,894 8.196,388 2,735,703 299 809 75 119 275,882 357,667 512,715 222,880 14,468 5,973,763 1,947,277 7,906 3,301,832 9,123 8,414 2,411,218 285 3.885.973 1,093,080 1.301.820 1,059,143 11.515 168,940,927 175,967,516 \$298.497.802 138,643,243

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.).
Includes 8 transits where no registered tonnage was reported.

Table 3.-Canal Traffic by Flag of Vessel-Fiscal Year 1985-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 war, dredges, etc., with a displacement of 500 tons and over, are classified as oceangoing 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 17 vessels which transited the Canal during fiscal year 1985 and paid tolls on displacement tonnage.

Flag	Trpe	Num- her of transits	Displace- ment tonnage	Tolls
Chile	Naval	1	1,515	\$1,545
Ecuador	Naval	1	1,000	1,020
France	Naval	4	24,494	24,984
Mexico	Naval	l l	1,733	1,768
People's Republic of China	Dredge	1	17,530	17,881
Peru	Naval	1	11,564	11,795
Spain	Naval	l l	3,750	3,825
United Kingdom	Naval	2	6,100	6,222
United States	Dredge	i	3,650	3,723
Venezuela	Naval	4	15,287	15,593
Total		17	86,623	\$88,355

Statistics compiled by Office of Executive Planning.



Table 4.—Classification of Canal Traffic1 by Type of Vessel—Fiscal Year 1985

	Grand Total		3,721	\$140,295	74,728	1,651	\$58,415	19,947	1.907	13,838	\$24,972	10,150	165	2,678	\$4,883	4	1,905	10,143	2,816	1 777	29,059	30,285
	Total		541	\$21,585	:	26	\$371	:	189	950	1,387	:	4	51	\$74	:	445	2,348		\$7\$	10,300	\$15,038
Ballası	Pacific 10 Pacific		113	\$2,329	:	13	\$156	:	94	349	\$510	:	2	31	\$45	:	38	154		280	4,073	\$5,946
	Atlantic 10 Atlantic		428	\$19,257	:	13	\$215	:	95	109	8878	:	2	20	\$29	:	407	2,194		286	6,227	260.68
	Total		3,180	\$118,710	/4. /28	1,625	\$58,043	19,947	1,718	12,888	\$23,585	10,150	191	2,628	\$4,808	4	1,460	7,795	2,816	1 202	18,759	30,285
Laden	Pacific 10 Pacific		1,623	\$60,313	29,508	866	\$32,662	11,214	849	6,572	\$12,027	5,074	19	970	\$1,775	4	938	4,948 89,054	2,370	540	9.476	15,967
	Atlantic to Atlantic		1,557	\$58.397	45,220	759	\$25,381	8,733	698	6,316	\$11,558	9,0,6	001	1,658	\$3,033	:	522	2,847	446	653	9,283	14,317
	Type of Vessel	CARGO AND CARGO PASSENGER SHIPS: Bulk Carriers:	Number of transits	Tolk (thousands of dollars)	Cargo (thousands of long tons)	Number of transits		Cargo (thousands of long tons)	Number of transits	Panama Canal net tonnage (thousands)	Tolls (thousands of dollars)	Cargo (thousands of long tons)	Number of transits	Panama Canal net tonnage (thousands)	Tolls (thousands of dollars)	Cargo (thousands of long tons)	Number of transits	Panama Canal net tonnage (thousands)	Cargo (thousands of long tons)	Number of transits	Panama Canal net tonnage (thousands)	Cargo (thousands of long tons)

6 9 15 15 27 38 65 65 828 839 867 867	60 46 106 374 237 159 396 1,601 18 4 21 21 8363 \$236 \$599 \$2,806	549 1,780 6,309 28,688 1 89,212 \$41,885 52	66 55 121 389 37 159 396 1.601 45 42 87 87 91 \$275 \$666 \$2.873	97 604 1.901 11.515 16 6.468 29,084 168.941 42 87 45 47 842,551 \$298,498 64 59,487 \$42,551 \$298,498
· · · · · · · · · · · · · · · · · · ·	268 1.206 2 \$2.207 53.715	9,346 1,231 138,651 22,379 \$253,740 \$32,673 137,929	268 66 1,206 237 1,206 237 8391 715	9,614 1,297 139,857 22,616 45 \$255,947 \$33,064 138,644
	122 585 \$1,070 355	€9	122 585 585 	5,008 73,356
		4,460 65,880 . \$120,568	. 146 . 621 . \$1,137	4,606 66,501 \$121,705 74,151
OTHER TYPE SHIPS: Naval Vessels: Number of transits Displacement tonnage (thousands) Tolls (thousands of dollars) Cargo (thousands of long tons)	Barges, Dredges, Lydocks, Tugs, etc.: Number of transits Panama Canal net tonnage (thousands) Displacement tonnage (thousands) Tolls (thousands of Ionlars) Cargo (thousands of Iong Ions)	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 Panama Canal net tonnage (thousands) Displacement tonnage (thousands) Tolls (thousands of dollars) Cargo (thousands of long tons)	Grand Total Ships: Number of transits Panama Canal net tonnage (thousands) Displacement tonnage (thousands) Tolls (thousands of dollars) Cargo (thousands of long tons)

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.

2 Vessels certificated for more than 12 passengers.



Table 5.—Laden and Ballast Traffic by Flag of Vessel Fiscal Year 1985

		Laden			Ballası	
	Num-			Num-		
	her	Panama		her	Panama	
	of	Canal nei	T. 11	of	Canal net	T. 11
	transits	tonnage	Tolls	transits	tonnage	Tolls
Algeria		16,504	\$ 30,202	1	15,541	\$22,690
Australia	5	78,031	142,797			
Austria	3	68,331	125,046			
Bahamas Belgium Bermuda	40	615,291	1,125,983	11	95,541	139,490
Belgium	122	1,450,299	2,654,047	8	95,719	139,750
Brazil	11 28	82,385 525,401	150,765 961,484	2	40,365	58,933
Bulgaria	9	55,784	102,085	'	5,676	8,287
Canada	4	39,748	72,739	2	1,803	2.632
Cayman Islands	9	103,609	189,604	4	19,778	28,876
Chile	71	726,292	1,329,114	10	112,379	164,073
Colombia Costa Rica Cuba	143 6	1,972,388 5,682	3,609,470 10,398	15	105,521	154,061
Cuba	124	700,267	1,281,489	16	59,864	87,401
Cyprus	107	1,002,667	1,834,881	17	148,375	216,628
	1	8,811	16,124			
Denmark	205 20	4,462,658 136,795	8,166,664 250,335	35 6	442,306	645,767 46,365
East Germany	399	3,087,266	5,649,697	100	31,757 1,175,923	1,716,848
Denmark. East Germany Ecuador Egypt.	2	37,524	68,669	100	1,175,725	1,710,848
Faroes Finland	3	3,818	6,987			
Finland	15	146,636	268,344	3	40,318	58,864
France	60	1,063,703 29,903	1,946,576 54,722	2	16,204	23,658
Greece	630	9,345,357	17,102,003	118	2.034.984	2,971,077
Honduras	12	51,629	94,481	6	31,650	46,209
Honduras	23	433,714	793,697	2	16,788	24,510
Iceland	1	4,092	7,488		30.773	
India	21	444,003 27,171	812,525 49,723	2	38,773	56,609
Indonesia	70	1,413,888	2,587,415			
Italy	73	975,904	1,785,904	3	32,593	47,586
Japan	871	15,985,496	29,253,458	271	6,867,107	10,025,976
Japan. Jordan. Kuwait	2 6	20,478 75,934	37,475 138,959			
Liberia	1,081	20,498,090	37,523,021	221	4,862,247	7,098,881
Malaysia	22	397,304	727,066			
Malta	14	158,356	289,791	3	8,708	12,714
Mauritania	59	1,078,692	1,974,006	50	580 905,286	1,321,718
Morocco	4	56,052	102,575	30	3,053	4,457
Netherlands New Zealand Nicaragua	184	1,906,282	3,488,496	42	322,873	471,395
New Zealand	2	45,499	83,263			
Nicaragua	8 253	14,924 4,664,712	27,311	3 52	9,829 851,494	14,350
Norway	1,602	21,683,201	8,536,423 39,680,258	369	5,071,488	7,404,372
People's Republic of China	95	1,786,311	3,268,949	3	53,497	78,106
Peru	153	1,372,755	2,512,142	12	189,200	276,232
Philippines	178	2,665,319	4,877,534	19	345,908	505,026
Panama People's Republic of China Peru Philippines Poland Portugal Rumania	76 I	543,779 945	995,116 1,729	5	22,232	32,459
Rumania	- 1	10,303	18,854			
Samt vincent	2	34,210	62,604			
Samon	2	18,398	33,668			
Saudi Arabia Singapore Somali Republic	4 188	45,410 3,387,574	83,100 6,199,260	1 27	6,625 571,863	9,672 834,920
Somali Republic	100	27,945	51,139	21	3/1,003	0.34,920
South Korea Spain Sri Lanka Sweden	147	2,381,534	4,358,207	7	83,821	122,379
Spain	112	629,752	1,152,446	9	25,696	37,516
Sri Lanka	15	198,896	363,980	3 4	26,452 160,001	40,080
Switzerland	105 72	2,533,814 738,999	4,636,880 1,352,368	4	8.971	233,601 13,098
Taiwan	163	3,959,482	7,245,852	5	140,358	204,923
Thailand	1	9,536	17,451			
Turkey	!	3,887	7,113	1	3,887	5,675
United Arab Emirates	441	29,687 8,123,643	54,327 14,866,267	60	29,687 807,965	43,343
United Kingdom	619	7,536,786	13,792,318	182	1,892,293	2,762,748
Uruguay	4	19,402	35,506	3	7,974	11,642
U.S.S.R	451	3,760,763	6,882,196	110	900,131	1,314,191
Vanuatu Venezuela	98	442 254,958	809 466,573	17	20,924	30,549
Vietnam	96	7,906	14,468		20,924	30,349
West Germany	255	3,116,454	5,703,111	30	185,378	270,652
Yugoslavia	90	949,675	1,737,905	8	143,405	209,371
Total	9.613	139,849,136	\$255,935,431	1,885	29,091,791	\$42,474,015

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

Table 6.-Segregation of Transits! by Registered Gross Tonnage-Fiscal Year 1985

Average gross tonnage per vessel	9.336 9.337 9.336 9.337 9.336 9.448 9.848	15.879
Registered gross tonnage	18.38 18.634 18.634 1.00.052 836.022 1.566.681 1.566.681 1.566.681 1.566.681 1.246.235	25,948 95,274 25,320,131
Total ²	2 2 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1,302
40.000 and over	<u>6</u>	22
30,000 10 39,999	2 · · · · · · · · · · · · · · · · · · ·	232
20,000 10 29,999		
15.000 10 19.999	1	322
10,000		221
8.000 10 9999	202 - 1	82
6,000 10 7,999		
4.000 10 5,999	%	75
2,000 10 3,999	% ::::::::::::::::::::::::::::::::::::	: : : : : :4
Under 2,000		: : ⁻
Flag	Algeria Argentina Australia Austria Bahamas Belgium Bermuda Brazil Bulgaria Canada Cayman Islands Chile Colombia Costa Rica Cuba Cyprus Czechoslovakia Denmark East Germany Ecudor Egypt France France France Honduras Greece Honduras Indonesia Indonesia Italy	Jordan Kuwait Liberia

21,369 14,304 14,304 14,304 14,199 16,815 16,831 16,820 17
470,128 243,163 243,163 244,422 70,996 2,444,421 53,267 20,021 5,961,386 26,732,608 20,55,848 1,374,767 3,024,781 11,359 2,813,155 68,821 88,269 2,813,155 68,480 12,649 1
22 22 22 23 23 1.971 1972 1973 1973 1974 1974 1975 1975 1975 1975 1975 1975 1975 1975
23.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00
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38 162 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8 8 1 2 2 1 1 1 2 2 1 1 1 1 2 1 1 1 1 1
Malaysia Malaysia Mala Mala Mauritania Mauritania Mexico 10 Morocco 10 New Zcaland 25 New Zcaland 25 New Zcaland 26 Noway 27 Poropie's Republic of China 19 Peril 26 Poland 27 Poland 28 Poland 28 Roundania 28 Samoa 28 Samid Vincent 28 Samid Vincent 28 Samid Arabia 28 South Korea 9 South Korea 9 South Korea 9 Switzerland 1 Turkey 1 United Arab Emirates 1 United Arab Emirates 1 United Kingtom 2 United Kingtom 2 United Kingtom 2 United Kingtom 2

2 Excludes 17 vessels paying tolls on displacement tonnage basis and 8 transits where no registered tonnage was reported. ¹ Includes only commercial vessels of 300 net tons and over, Panama Canal measurement.

Statistics compiled by Office of Executive Planning.

Table 7.- Principal Commodities Shipped Through Canal by Fiscal Years

		1983	2,889		43 26,	29	97	38	2,718	888	20	592	461	73	684	846	65	671	110	1.556	1,675	299	-	-	210	:	080	1,00,1	5.335	2 738	981	1,411	202	
North	Pacific to Atlantic	1984	2,743	777	33	213	55	71	2,521	811	23	605	459	31	165	979	41	886	52	1.839	3,033	533	7	15	517	::	10	1,77	5 749	3 182	878	1,435	254	
	Pacifi	1985	3,202	701	52	57	22	17	3,020	883	72	606	537	37	581	1 154	2	296	182	2 929	2.668	421	9	-	919		01	0.00,1	\$ 644	2,102	3,102	1,472	768	
	[Thousands of long tons]	vice do to control	Canned and Refrigerated Foods)					Retri				_			Chemicals and Petroleum Chemicals		•		Coal and Coke (excluding petroleum coke)	Grains	Barley	•	_		Sovheans		Ĭ	Lumber and Products			Pulpwood	
		fic	459	73	3	21	- ;	8 :	15	386	:	7	113	34	7	224	3,855	714	2.305	837	8,553	20,843	55	8,132	38	260	637.7	3 747	133	582	=	21	514	તે .
	South	intic to Paci	1984		110	7 7	47	89	91	455	7	9	148	115	9	171	4.180	927	2.376	877	8,115	25,089	91	9,490	6	756	1,322	7,007	84	614	12	14	559	30
		Ath	1983		4/	m,	9	57	∞	443	-	· vc	13.	001	0	195	4.121	674	2 474	973	9.161	34,785	118	21,625	27	75	1,345	978.4	1.1	529	6	20	475	52

THE CHANGE COMMISSION	-
1,305 1,305 1,305 1,305 1,305 1,305 1,277 1,277 1,445 1,455 1,	31 468 1,640
1.631 1.464 1.464 1.464 1.464 1.464 1.639 1.039 1.	32 572 1,539
1,823 1,589 1,589 1,138 1,138 1,589 1,138 1,589	25 464 2,044
Machinery and Equipment. Agricultural machinery and implements Automobiles, trucks accessories and parts Construction machinery and apparatus Motorcycles, bicycles, and apparatus Motorcycles, bicycles, and apparatus Motorcycles, and apparatus Motorcycles, bicycles, and apparatus Motorcycles, bicycles, and apparatus Manitactures of Iron and Steel Manufactures of Iron and Spikes Plates, sheets, and coils Tubes, pipes, and fittings Wire, bars, and rods Other and unclassified Minerals, miscellaneous Asbestion Asbestion Mittates, Phosphates, and Potash Ammonium compounds Sulfur. Salt Soda and sodium compounds Sulfur. Sulfur. Ammonium compounds Fishmeal Nitrate of soda Phosphates Potash Fertilizers, unclassified Ores Alumina Pauxite Chrome Copper Iron Iron Iron Lead Managanese	Tin Zinc Other and unclassified
\$55 \$41 \$41 \$41 \$41 \$42 \$42 \$42 \$42 \$42 \$42 \$42 \$42	73 288
\$550 \$64 \$64 \$64 \$64 \$65 \$65 \$65 \$65 \$65 \$65 \$65 \$65	131
\$25 \$43 \$48 \$48 \$48 \$48 \$48 \$48 \$48 \$48	97

Table 7.- Principal Commodities Shipped Through Canal by Fiscal Years-Continued

	1983	1,640	/5	1,162	200	(2)	۰ <u>۲</u>	120	80	3,491	45	31	/ of -	127	827	25	36	19	3	1,803	20 101	17,07	14 123	569	2,800	347	6		1 4	1,624	
North Pacific to Atlantic	1984	1,203	555	688 888	00	0,	. <u>o</u>	5	46	4,026	46	46	428	= =	673	336	84	96	3	2,179	18 107	10,10	10 267	815	3,836	160	77	46	167	1,752	
Pacif	1985	1,246	4/	× 1	700	96	ر ک	25.5	35	3,593	57	92	4 -	146	160	125	63	86	7	1,799	15 026	052,51	0000	755	3,629	629	- 12	186	220	1,553	
[Thousands of long tons]		Metals	Alıminum			Lead	01		Zinc	Other Ag					•		<u> </u>		Kubber, faw			7 Petroleum and Products		-		S Fuel Oil, festudat				U Lubricating oil	•
ė	1006	2,866	256	77	134	5	2,318	=	36	67	1,304	- m	12		12	S	67	:	- (1.273		10,837	74	3,397	1,094	2,3/8	478	4	713	219	8
South	min to raci	2.747	300	33	87	4	2,227	12	53	35	200,1	4 د	0	-	15	3	36	:	:	1.493		12,555	155	3,898	1,129	3,007	593	5	737	689	3
	Ath	2,641	207	42	238	4	1.846	15	13	76	1,933	۳ کو	61	:	28	3	91	51	:	1 701	-	13,727	06	4,547	1,277	3,318	1,332	45	199	524	717

571	~	_	7	28	17	54	=	37	5	_	91	87	108	514	٣	9	49	3	:	39	4	m	3	6.514	57,762
378	=	_	S	25	15	31	9	37	7	:	92	164	95	368	3	3	38	10	-	40	43	4	17	7,681	62,212
52 9,889	13	2	5	42	9	-	2	09	21	-	54	174	151	461	-	3	34	12	15	57	38	4	Ξ	8,717	64,492
Other and unclassified	Bricks and tile		Cement	_	_	_	Glass and glassware	_	Liquors and wines		Ĭ	Ĭ	_	_	_	_		•	•			_		All other and unclassified	Total
10,908	4	29	255	417	6	122	20	36	23	24	2	:	190	854	4	312	21	-	00	29	65	4	_	8,397	74,151
798	24	4	174	357	40	219	24	36	91	4	4	17	247	761	m	168	45	-	72	99	47	10	91	8,326	78,259
436 9,309	21	4	64	380	21	242	20	56	31	25	4	∞	245	702	-	210	29	34	15	49	48	46	13	7,050	87,829

Table 8.—Origin and Destination of Commercial Cargo Through the Panama Canal From Atlantic to Pacific During Fiscal Year 1985 Segregated by Countries in Principal Trade Routes

	Тола	107,186 128,115 95,984 1,908,362 41,597 2,281,244	43,814	3.564.048 107.691 14.856 250 3.686.845	40,170 130,746 738,829 28,183 937,928	92.809 148.975 23.346 8.184 273.314
	Balboa, R.P. 2	32.768 11 8.689 1. 314,539 1.90 41,545 2.23		6 9 3	2,904 44,770 1,26,790 3,106 27,570 9,	7 - 12
		: " "		- :		!
a	Central America (other) 1	40,210	3,186	77 7.562	13,662	672 516 516 1,447
ıl Americ	Pan- ama	603 17.194 40,766 	8,281	7,551	5.687	6.540
To West Coast Central America	Nica- ragua	11.210	5,448	94.221 2.593 250 97.064	15.218 640 3.187 4.040 23,085	92,137
To West (Mexico	102.232 55.450 867.998	24,408	2,782,786	20,778 76,671 20,668 118,117	
	Guate- mala	22.785	:	336,594	358.285	606.19
	El Sal- vador	73.815 9.926 415.290 52 499.083	1,171	327.499 3 1.097 328.599	1.270 8,543 326,305 36 36 36,154	5,332
;	Costa Rica	30,608	1,320	22.432	4.913	8,323
[Long tons] To W.C. Canada	Canada	23 38 818,264 	:		35.080 6.181 2.943 44.204	2,944
	Total	272,966 59,368 	19,431	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	791,818 9,374 307,161 30,960 1,139,313	51,589 105,810 98,766 212,684 468,838
To West Coast United States	Main- land	247.687 56.591 	19,431	4 4	791.818 9.374 247.500 30.960 1.079.652	51,589 16.839 98,755 151,707 318,890
Vest Coas	Намаії	25.279 2,777 	:		59,661	53,723
70 4	Alaska		:			35.248
	EAST COAST NORTH AMERICA:	United States: North Atlantic ports South Atlantic ports Great Lakes ports Gulf ports United States (other) 1 Total United States.	EAST COAST CANADA	EAST COAST CENTRAL AMERICA: Mexico Panama Central America (other) '. Cristobal, R.P. ? Total Central America	EAST COAST SOUTH AMERICA: Brazil Colombia Venezuela Venezuela South America (other) ** Total South America	WEST INDIES: Cuba Jamaier Jamaier Netherlands West Indies Trinidad Tobago West Indes (other) Total West Indies

	6.828	086.69	9389	39,211	84,068	3,522	27,544	7.805	55,838	17,056	896.04	235,609	29.690	113	8,488,557	11.4
	•	· · ·		200		3,539 5						<u></u>	:	:		
	:	:		_		3,	:			•		4,105	:		647,187	
	263	29	727	193		734	701	:	36	765	27,236	30,684		113	97.256	0.1
	:		:	:	:	2,024	:	:	:	4,936	1,767	8.727	:	:	806.601	0.1
	15,716	45,656	1,956	9.027	14,799	16.241	26,519	220	618,511	8,270	132,313	889.228	:	:	1,137,586	1.5
	3	2,526	5.002	2,209	:	5,301	321	5,237	37,270	828		58,697	26,690	:	4,039,378	5.4
	399	:	4	3,700	11.935	107		:	:	8,230	31,901	56,313	:	:	835.886	Ξ
	30,877	3,322	12,661	22,846	10,334	23,626	:	2,020	21	12,505	38,665	156,877	:		1,327,216	8.1
	9.570	8.447	2	1,036	:	1,950	3	328	:	1,522	8,120	30,978	:	:	294,140	0.4
	93,390	18,009	6,939	36,937	:	37,555	7,479	12,265	197	47.484	136,190	399,509	8,505	43,238	1.343,777	N. 1.8
	541,875	137,960	211,517	475,500	167,883	354,972	213,228	115,862	36,506	541,796	677.786	3,474,885	127,543	172.827	6.815.880	9.5
	540,883	137,960	211,517	475,340	167,883	354,972	212,107	115,862	36,506	540,604	677.508	3,471,142	119,021	172,827	6,547,860	8.8
	:	:	:	138	:	:	:	:	:	893		1,031	:	:	221,538	0.3
	992	:	:	22	:	:	1,121		:	299	278	2,712	8.522	:	46.482	0.1
EUROPE:	Belgium	France	ttaly	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.

23.365

23,240

1.707

32,328

49.057

46,393

10,018

15.218

16,684

4.473

Trinidad, Tobago
West Indies (other) ¹

Total West Indies

22,576

33,156

5,136

5,385

185,767

19,474

88.013

Table 8.—Origin and Destination of Commercial Cargo Through the Panama Canal From Atlantic to Pacific During Fiscal Year 1985 Segregated by Countries in Principal Trade Areas-Continued

Long tons]

2.616 59.370 139.510 199,430 1.586,557 2,116,142 Total 84,557 998.683 49,976 1,455 French New Oceania Australia Oceania Zealand (other) 08,162 5.802 To Oceania 24,235 15.883 6.419 2,616 32,120 9,045 430.864 253,598 51,158 42,815 48.870 30,700 1,224,797 22,406 6.050 42.082 3,760,085 1.916,611 2,966,145 88.868 089.18 166,428 427,569 1,280,532 226,677 525.558 Total 4,496 32,320 17,329 6.000 9.836 52,472 (other) 4.650 15,612 44,849 3.127 163,503 4merica To West Coast South America 3,823 16.851 678,107 12,420 6,591 47.012 921,513 27.232 2,931 4.071 Peru 1.951 4,129 8,688 30,367 64.972 59,534 21,905 2,042 78,886 66,308 812.067 998,654 Ecuador 709,810 3.543 13.093 4,100 16.974 409,243 426.556 19.011 760,625 6,437 Colom-bia 7,145 6.432 77,254 83,791 83,686 121 997,912 1.557 1,205.898 14,617 5.878 1,198,463 733,841 Chile United States (other) 1 Total United States EAST COAST CANADA.... Mexico Panama Central America (other) 1...... Total Central America Brazil Colombia South America (other) 1..... Total South America Cuba South Atlantic ports Great Lakes ports Gulf ports Cristobal, R.P. 2 Vene/uela Jamaica Netherlands West Indies North Atlantic ports EAST COAST CENTRAL AMERICA: EAST COAST NORTH AMERICA: EAST COAST SOUTH AMERICA: WEST INDIES:

EUROPE:											
Belgium	83,812	169.6		89,464	28,260	240,546	4.286	13,478	27,094	5.680	50.538
France	5,269	6.286		27,639	6.957	52,580	2.837	169.168	101	29.120	201.226
Italy	6,102	9.136		5,186	6,003	35,833	1,340	7,215	9,736	8,479	26,770
Netherlands	33.947	3,464		45,737	8.179	119,303	42,299	9.576		44,803	136.262
Norway	707	:	- :	:	354	1.061	18.062	:			18.062
Spain-Portugal	26.124	7.541	141,859	15.604	11.057	202,185		767		6,062	9,638
Sweden	25.845	4,410	6,723	8,454	5,841	51,273		:	1,236	1,800	3,195
United Kingdom	30.966	5,216	10,675	19,840	2.077	68,774		647	43,709	46,289	102,876
U.S.S.R.			750	12.987	104,150	117,887		:			:
West Germany	73,760	20,319	48.276	35,336	17.906	195,597	5.926	6,312	20,515	23,802	56,555
Europe (other) ¹	63.332	36,165	87.694	50.122	56.480	293,793	20,727	40.594	18,360	95,434	175,115
Total Europe	349.864	102.228	369,107	310,369	247.264	1,378,832	108,676	247,757	162,335	261,469	780.237
ASIA (MIDDLE EAST)			49	:	:	46	:	:		:	:
AFRICA	2.387	30	77	152	4.882	7,528	5,984	:	:	579	6,563
Grand total	2.953,270	1,343,217	1,766,183	1,313,802	597,214	7,973,686	1.601,903	247,798	680,009	606.399	3,139,109
Percent of Pacific-Bound Cargo	4.0	8.1	2.4	8.1	8.0	10.8	2.2	0.3	6.0		4.2

See footnotes at end of table.

Table 8.—Origin and Destination of Commercial Cargo Through the Panama Canal From Atlantic to Pacific During Fiscal Year 1985 Segregated by Countries in Principal Trade Areas-Continued

	Percent of total	Pacific- bound cargo	3.1	9.5 51.7 3.9	69.3	i	0.3	0.	9.6	1.7	0.8 4.9	0.2	7.6	6.1	0.3	0.4	0.5	4.2
		Grand	7,442,459	38,347,405 2,926,656	51,364,296	000	3.893.172	7.609	4.130,770	1,232,022	625,046 3,619,759	160,565	5,637,392	1,403,300	198,083	267,065	346,048	3.098,236
		Total	6,427,824	223.623 30.212.832 2.293.849	40,975,898	700	217,942	1,309	239,489	198,526	57,357	53,781	1,567,216	1,293,153	111,766	95,392	68,659	1.612,997
		Asia (other) ¹	458,915 335,737	661,124	2,015,241		16,155	1,260	20,560	:	1.996		1,996	48,761	49,122	16,094	30.517	147,125
		U.S.S.R.	18,423	579,494	597,917	:				:			:	135,763	:			135,763
		Thai- land	2,027	90.127	118,980		22.003		22,003	:			:					1,583
		South	1.038.478 45.870	3,105,794	4,463,483		17,776		17,776	11.684	25,458		42,720	33,578	69466		2,000	45,047
	ia	Singa- pore	68.478 29.952	71,351	264,421		5,832	49	5,881	3,371			3,371	:	2,503	10,247		12,750
s	To Asia	Philip- pine Islands	56,267	241.798	328,158	3	651		139	:			:	:	227	2.430		2,677
[Long tons]		Japan	3,327,508	18,484,869	23,365,113		722,157	2/9/51	138,033	159,295	57,357 890,552	39,003	1,146,207	451,832	20,945	54,267	18.658	554,055
		Indo- nesia	5,552 5,938	119,430	147.960				:	:			:		2 200	2,300		3,300
		Hong Kong	111,856	288,226 267,797	797,358		7.121		7,121	:	45,951		45,951	:	8,034		15	8,049
		China (Taiwan)	1.001.669	4,176,773	5,570.355		11,185	77.	12,402	:	2,344		2,344	:	21,466		16,318	37,784
		China (Main- land)	338,651 298,578	2,393,846	3.306,912		15,5/4		15,574	24.176	291.251	9.200	324,627	623,219		40.494	1,151	664.864
		EAST COAST NORTH AMERICA:	North Atlantic ports	Gulf ports	Total United States	EAST COAST CENTRAL AMERICA:	Panama	Cristobal, R.P. 2	Total Central America	EAST COAST SOUTH AMERICA: Brazil	Venezuela	South America (other) 1	Total South America	WEST INDIES: Cuba	Jamaica	Trinidad/Tobago	West Indies (other) 1	Total West Indies

-	90	0.4	1.4	0.3	6.0	0.4	0.5	Ξ	1.2	2.1	10.4	0.2	0.4	0.	100.0
111000	474 945	306.273	1,018,324	259,364	806.089	303,293	368,386	169,618	894.865	1,580,053	7,696,333	169,398	268,071	74,150,945	Ш
7.054	5 190	1.825	211,111	35,290	23.036	574	60.804	661'6	16.377	56,801	427,261	3,611	37,802	46,389,936	
1002	1.137	1,705	44,324	:	5,544		16,407		1.001	32,061	105,201	3,059	3,544	2,542,721	
			:	202	:	:	:	2,287	:		2.489	:	:	736,169	
			12,601	:	:		:	:	:		12,601	:	:	170,632	0.2
155	1891		17,965		25		666			1,342	22,563	336	1,382	4.650,649	6.3
			6,464	:	:	:	14.089	:	:		20,553	:	:	307,070	
			523	:		:	133	:			959	:	:	331,686	0.4
17.5	2.346	101	86.215	7,883	4.478	574	15,122	6,912	4,436	23,398	152,036	186	32.650	26.084.424	35.2
			750	:	:	:	3.268				4.018	:		161,182	0.2
	3,6	61	7,953	85	68	:	:	:			8,172	30	:	969,668	1.2
			31,406		28	:	850		:		32,284	:	:	5,690,015	7.7
2.910			2,910	27,120	12,872	:	9.936	:	10,940		989'99		226	4.815.692	6.5
EUROPE:	Erance	Italy	Netherlands	Norway	Spain-Portugal	Sweden	United Kingdom	U.S.S.R.	West Germany	Europe (other)	Total Europe	ASIA (MIDDLE EAST)	AFRICA	Grand total	Percent of Pacific-Bound Cargo

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

Table 9. - Origin and Destination of Commercial Cargo Through the Panama Canal From Pacific to Atlantic During Fiscal Year 1985 Segregated by Countries in Principal Trade Areas

[Long tons]

		lorar		10,949	10,949		15.586	20,210	70	31	302,608	7,173	:	128	1,490	347.296	2,00	45,/19	40000	10 103	2 521	718,642		142,322			30,499		172,821
America	Cristo- bal			575	575		-	20.210	20	31	453	121	:	78	:::::::::::::::::::::::::::::::::::::::	21.564		04/				5.286			:	:	178		178
To East Coast Central America	Central America	(omer)			P		15.552	:	:	:	:	6,452	:	20	1,490	23,544	100	1,701		/9	707	2,228		:			:		
To East Co.	Daniel Control	nunuu .	:							:	:	:	:	:				:		660,100		660,199		70	:		6/		149
	Maria			10.024	46.008		33	:	:	:	302,155	:	:	:		302,188	71.073	7/0,14	207	6 6 7 0	070*0	50,029		142,252	:	:	30.242		172,494
To E.C. Canada	Canada		300	0000.176	7,171		1,054	:		:	:		1,054	:		2,108	000 001	647	2 2	4 357	177	106,762		336,486	17,716		26,838	37,112	418,152
	Total	220,764	174,963	2 124 707	2,338,235		76,657	106,285	245,679	18,034	94,409	17,486	202,228		574	761,352	1 443 333	348 370	3 9 17 756	1 981 038	70.111	7.660.607		2,160,667	44,048	13,587	230,363	281,215	2,729,880
5	United States		1,347	212,101	393,560		4,353	9.287	55,507		34,733		14.022	:		117.902	184 217	78 799	266 633	220,033	7.154	766,403		62,773		62	19,837	36.219	118.891
To East Coast United States	Gulf	164,187	145,181	7 107 477	574.532		30.847	65.767				17.486	104,554	:	574	339,417	790 153	119 195	2 546 580	764 992	19,627	3,749,546		1,729,564	39,982	:	62,275	48,774	1.880,595
East Coast	Great Lakes	:	:		8.073		:	:	:	:	:	:	:	:		:				2 002		2,002		22.084	:	:	:		22,084
To	South Atlantic		92 172	92 722	424,790		34,754	6.087	20,218	6,781	160		4.518	:		79,518	100 801	56.584	54 477	88 766	11,845	312,473		47,293	:	:	17,477	35,705	100,475
	North Atlantic	56.577	27.885	621.030	937,280		6,703	22,144	998'96		23.668		/9.134	:		228,515	859 162	93.792	950.066	895.678	31,485	2,830,183		298,953	4,066	13,525	130,774	160,517	607.835
	WEST COAST NORTH AMERICA:	Alaska	Hawaii	Total United States	WEST COAST CANADA	WEST COAST CENTRAL AMERICA:	Costa Rica	El Salvador	Guatemala	Honduras	Mexico	Nicaragua	Fanama	Central America (other) 1	Balboa, R.P. 2	Total Central America	WEST COAST SOUTH AMERICA: Chile	Colombia	Ecuador	Peru	South America (other) 1	Total South America	OCEANIA:	Australia	British Oceania	French Oceania	New Zealand	Oceania (other) 1	Total Oceania

ASIA:												
China	178,731	21,477	6.381	1,119,905	816,98	1.413.412	82,946	:	:	:	:	:
Taiwan	430,986	137,313	:	46,421	234,202	848,922	30,162	:	:	999	13,176	13.742
Hong Kong	189,394	81,583	:	6.211	116,707	393,895	25,317	:	:	275	4,535	4,810
Indonesia	72,090	59,393	:	101,144	173,166	405,793	:	1,534	:	:	:	1.534
Japan	2,035,174	930,699	347,599	3,024,341	968,010	7,305,823	156,915	28,574		2,564	31,294	62,432
Philippine Islands	198,442	24.690	:	25,862	231,363	480,357	5,027	1,016	:	:	-	1,017
Singapore	170,819	72,865	:	64,245	100,992	408,921	518	:	:	130	294	424
South Korea	218,671	104,401	63	392,093	297,196	1,012,427	16,455	:	:	1,626	4.726	6,352
Thailand	089	:	:	84,101	14,110	168'86	:	41,668	:	:	:	41,668
U.S.S.R.			:		:	:	:	:		:	:	:
Asia (other) 1	1,273,276	555,106		337,033	357,870	2,523,285	106,485	8,413		8.613	78,886	95,912
Total Asia	4,768,263	1,987,530	354,043	5,201,356	2,580,534	14.891.726	423,825	81,205	:	13,774	132,912	227,891
Grand total	9,993,106	2,993,508	386,202	13,942.873	4,190,818	31.506,507	1,229,318	661,948	661,248	39,946	160,465	1.523,607
Percent of Atlantic-Bound Cargo	15.5	4.6	9.0	21.6	6.5	48.9	1.9	1.0	1.0	0.1	0.2	2.4

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 1985 Segregated by Countries in Principal Trade Areas-Continued

[Long tons]

		To East C	To East Coast South America	America					To We	To West Indies			
WEST COAST NORTH AMERICA: United States:	l Brazil	Colom- bia	Vene- zuela	South America (other) 1	Total	Cuba	Haiti/ Domini- can Republic	Jamaica	Nether- lands West Indies	Puerto Rico	Trini- dad/ Tobago	West Indies (other) !	Total
Alaska Hawaii Manland Total United States	78,966	8,199	5,875 64,151 70,026	2,312	5,875 153,628 159,503		112	59 575 634	149,708	73,303	54,677	497,896 180,563 678,459	552,632 112 404,149 956,893
WEST COAST CANADA	590,922	1,191	293,297	=	885,421	163,782	:	18,069	:	32,857	:	9.976	224,684
WEST COAST CENTRAL AMERICA: Costa Rica El Salvador Gustemala Honduras Mexico Nicaragua Panama Central America (other) 1 Balboa, R. P. 7 Total Central America		9,457	20.690	76 76 30 300 822	20,690 9,457 1,472 402 771 25,141 88	7,029 18,282 1,792 3,042	73 639	808 9,842 	18,509	500 5,621 714 8,166 63,957 78,958	2,952 19,823 19,823 25,452	10.179 656 656 461 	1,308 31,365 18,415 20,479 8,277 18,282 9,588 69,490
WEST COAST SOUTH AMERICA: Chile Colombia Ecuador Peru South America (other) 1 Total South America	566 11,428 92 12,086	8.181 784.456 120.629 80.863 8.891 1.003.020	95,609 104,775 2,351 81,027 10,470 294,232	535 2,000 4,512 3,578 10,625	104,325 891,231 123,546 177,830 23,031 1,319,963	15,442	29.720	236,430	152.967 154.064 307.031	22,974 1,951,728 1,166,289 3,388 3,144,379	52,375	10,785 64,963 117,795	63,479 2,458,463 1,453,958 38,890 4,014,790
OCEANIA: Australia British Oceania French Oceania New Zealand Oceania (other) Total Oceania		1,012	688		688 20,398 21,086	13,210	8,692	334	850	46.815 338 	7,190	6,140	61,329 338 35,110 56,135 152,912

115,163	23,107	448.204	5,200	90,421	212,654	10.6
38		63,848	276		- 1 -	110
2.677	1,230	30,389	329		20,768	198,968
6.236	448	131,413	1,000		301.776	3,734,151
: <u>7</u>	909	8,812	14 20		3,312	489,466
677	18,340	51,694	2,524		60.149	440,631
4.909	411	35,001	3.190		22.659	105,774
114,448		127,047	1,051 6,012	90,421	34,449	862,574
63,408	12,883	358.762	6,902 4,162		96,277	2,994,878
1,453	783	30.676	2,140		13,479	62,849
63,408	11,217	109,134	4.657 2.909		254,376	979,116
		186,226	705		208,030	1,231,540
497	883	32,726	105		39,399	1.1
ASIA: China Tauwan	Hong KongIndonesia	Japan	Singapore	Thailand U.S.S.R.	Asia (other) 1	Grand total

See footnotes at end of table.

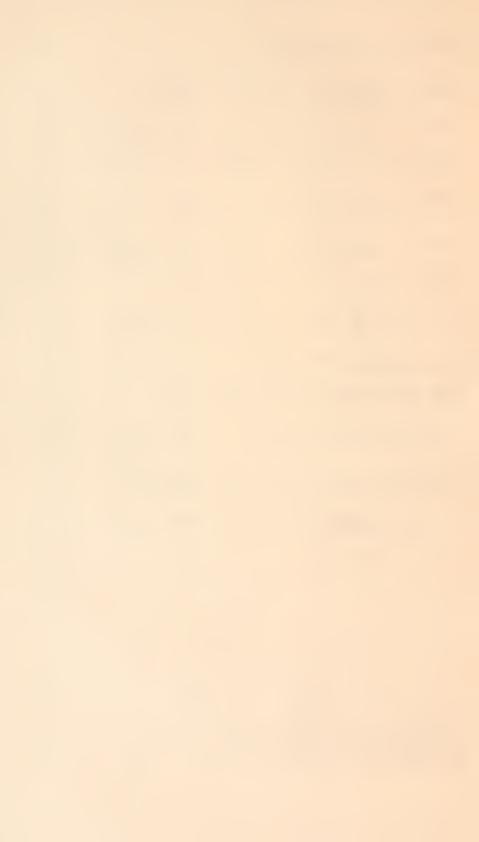


Table 9.—Origin and Destination of Commercial Cargo Through the Panama Canal From Pacific to Atlantic During Fiscal Year 1985 Segregated by Countries in Principal Trade Areas—Continued

[Long tons]

							To E	игоре						
WEST COAST NORTH AMERICA:		Den-	East				Nether-	Spain/		United		West	Europe	
United States:	Belgium	mark	Germany	Finland	France	Italy	lands	Portugal	Sweden	Kingdom	U.S.S.R.	Germany	(other) t	Total
Alaska					12			1,407				195	36,729	38,343
Hawaii													26.573	26.573
Mainland	392,508	566			99,710	195,255	1,827,915	202,503	44,910	179,061	41,594	127,428	452,398	3,563,848
Total United States	392,508	566			99,722	195,255	1,827,915	203,910	44,910	179,061	41,594	127,623	515,700	3,628,764
WEST COAST CANADA	869,335	445,985	373,064	384,843	664,146	473,922	825,031	32,079	329,593	870,849	121,951	275,007	1,292,328	6,958,133
WEST COAST CENTRAL AMERICA:														
Costa Rica	41				389	2,614	625	31		1,191	6,244	14,943	3,783	29,861
El Salvador	697				20,547	1,816	2,025	3,212		312	34	22,421	18,472	69,536
Guatemala			2,486			33,539	30	23				11,706	23,604	71,388
Honduras						4,428	66	8,990				1,868	1,280	16,632
Mexico		17			6,688	4,341	4,531	56,832	2,000	4,451		124,265	24,148	227,273
Nicaragua					1,989	279	11,852	3,917		498		9,006	6,215	87,232
Panama						33,203	19,232	1,847					16,677	70,977
Central America (other) 1	2,241				5,533	2,713	1,395	4,995		800	189	43,215	26,109	87,190
Balboa, R.P. 2	24		<u></u>					30			133		16	203
Total Central America	47,714	17	11,269	• • • • • • • • • • • • • • • • • • • •	35,146	82,933	39,756	79,877	2,000	7,252	6,600	227,424	120,304	660,292
WEST COAST SOUTH AMERICA:														
Chile	186,971	1,111	70,802		89,329	185,331	323,059	41,623	32,893	111,196		440,113	213,735	1,696,163
Colombia	13,406				265	86	32,310	2,648	1,335	994		121,560	7,050	179,654
Ecuador	57,402	104	19,557	109	8,080	47,215	55,151	5,170	653	15,518	31,354	108,611	131,025	479.949
Peru	351,539	64	1,182	37,187	36,328	108,585	70,280	32,394	8,152	61,187	193,440	206,327	396,670	1,503,335
South America (other) 1	12,802				35,822	51,183	55,419	25,509	2,182	27,629	508,470	35,459	112,897	867.372
Total South America	622,120	1,279	91,541	37,296	169,824	392,400	536,219	107,344	452152	216,524	733,364	912,070	861,377	4,726,473
OCEANIA:														
Australia	7,828					2,793	13,016			11,387		8,991	6,151	50,166
British Oceania		3,425						27,559		138,137			29,528	198,649
French Oceania	18,601				55,235	4,774		489					46,133	125,232
New Zealand	88,929		1,347		14,567	1,570	235,332		6,374	27,254		15,683	40,434	431,490
Oceania (other)	12,952		<u></u>		25	1,226	9,175			37,931		7,452	20,562	89,323
Total Oceania	128,310	3,425	1,347		69,827	10,363	257,523	28,048	6,374	214,709		32,126	142,808	894,860
Asia:														
China														
Taiwan					607		2,708						173	
Hong Kong					1,606		1,567	536					86	3,795
Indonesia														
Japan	3,717				3,634			786		7,514		5,964	17,046	
Philippine Islands							12,378							12,378
Singapore					119									543
South Korea					67		1,390	170					71	
Thailand						• • • • • • •								
U.S.S.R.											13,591			13,591
Asia (other)	41				1,925	511	65	2,773				152	4,099	9,707
Total Asia	3,758				7,958	511	67,611	4,265		7,655	13,591	6,116	21,475	132,940
Grand total	2,063,745	451,272	477,221	422,139	1,046,623	1,155,384	3,554,055	455,523	428,092	1,496,050	917,000	1,580,366	2,953,992	17,001,462
Percent of Atlantic-Bound Cargo	3.2	0.7	0.7	0.7	1.6	1.8	5.5	0.7	0.7	2.3	1.4	2.5	4.6	26.4

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 1985 Segregated by Countries in Principal Trade Areas-Continued [Long tons]

	To Asia (Middle East)				To Africa					Percent of total
WEST COAST NORTH AMERICA: United States:	Asia (Middle East)	 Algeria	Egipi	Morocco	South	Tunisia	Africa (other) 1	Total	Grand Total	Atlantic- bound cargo
Alaska		:	3,064	:	:	:	:	3,064	814,803	1.3
Hawaii Mainland	40,290	85,771	331,285	85,494	64,716		175,511	742,777	7,915,921	12.3
Total United States	40,290	177,28	334,349	85,494	64,716		115,511	745,841	8,938,247	13.9
WEST COAST CANADA	266,456	240,426	530,030	673,561	130,176	387,918	108.018	2,070,129	12,796,237	8.61
WEST COAST CENTRAL AMERICA:						407		407	145 653	
El Salvador	1,274							4	238,127	0.4
Guatemala	4,142	:	:	:	:	343		343	340,037	0.5
Honduras	, 200	P50 5	:	:	:	:	11,405	11,405	66.581	- 0
Nicaragua	70717	28,864					5,429	34,293	164,868	0.3
Panama	44,341	:	:	:	:	:	1,679	1,679	331,008	9.9
Central America (other) 1		:	:	:	:	:	:	:	181,949	0.3
Balboa, R.P. ^z		:							2,355	0.0
Total Central America	51,959	34,818	:	:	:	840	18,513	54,171	2,112,773	3.3
WEST COAST SOUTH AMERICA:	18951		040			7 007	790	767.0	2 478 475	2
Colombia	100101		2			1000		1711	1 410 273	, ,
Ecuador	23,607						2.823	2.823	7.568,509	1.1
Peru	20,559		:			:	9,882	9,882	5,161,057	8.0
South America (other) 1	4,830					1,504	10,337	11,841	1,018,773	1.6
Total South America	64,677	:	940	:	:	105'6	23,832	34,273	18,646,187	28,9
Oceania:										
Australia		:	:	:	:	:	:	:	2,751,658	6.4
									138,819	0.2
New Zealand		43,179	:	1,968	:	:	466	45,646	820,344	E. 1
Oceania (other) 1									463,785	0.7
Total Oceania		43,179	:	1968	:	:	466	45,646	4,435,357	6.9

ASIA:									
China	:	:	:	:	:	:	:	1,674,929	2.6
	411	:		:	:	:	:	957,556	1.5
	98			:	:	:	:	463,893	0.7
Indonesia	:	:	:	:	:	:	:	526,203	8.0
	943	:	:	100	:	5,218	5,218	8,426,137	13.1
Philippine Islands		:	:		:		:	498,791	8.0
Singapore	:	:	:	:	:	:		422,508	0.7
South Korea	6	:	:	:	:	710	710	1,065,116	1.7
Thailand	:	:	:	:	:	:		230,980	0.4
U.S.S.R.	:	:	:	:	:	:		244,906	0.4
Asia (other) 1 8,1.						:	:	3.052,478	4.7
Total Asia9,607	7			100		5,928	6,028	17.563,497	27.2
Grand total432,989	9 404,194	865,319	761,023	194,992	398,259	332,301	2,956.088	64,492,298	
Percent of Atlantic-Bound Cargo	7 0.6	132	1.2	0.3	9.0	0.5	4.6		0 001

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

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

		Fiscal year	
EAST COAST UNITED STATES TO WEST COAST	1985	1984	1983
UNITED STATES: Canned and refrigerated foods, miscellaneous Chemicals and petroleum chemicals	5 321	1 383	1 309
Caustic soda	93	188	127
Chemicals, unclassified	116	86	54
Petroleum chemicals, miscellaneous	112	109	128
Machinery and equipment, miscellaneous		3 14	8
Manufactures of iron and steel	• • • • • • •	14	
Other and unclassified Nitrates, phosphates, and potash	38	64	76
Ammonium compounds	16	15	49
Phosphates	22	49 137	27 30
Ores and metals		137	30
Ore, alumina/bauxite Petroleum and products	530	479	800
Fuel oil, residual	37	61	381
Gasoline	147	75	87
Jet fuel	28 260	32 251	45 186
Lubricating oil Petroleum coke	57	251	
Other and unclassified	i	60	101
Miscellaneous	472	514	413
All other and unclassified	472	514	413
Total	1,366	1,595	1,637
EAST COAST UNITED STATES TO WEST COAST CANADA:			
Nitrates, phosphates, and potash	808	937	569
Phosphates	808	937	569
Miscellaneous	10	9	27
All other and unclassified	10	9	27
Total	818	946	596
EAST COAST UNITED STATES TO WEST COAST CENTRAL			
AMERICA. Chemicals and petroleum chemicals, miscellaneous	16	10	20
Coal	322		88
Grains	760	697	1,924
Corn	95	227	860
Sorghum	131 294	104 148	379 461
Soybeans Wheat	236	210	219
Other and unclassified	4	8	5
Lumber and products, miscellaneous		6	2
Machinery and equipment, miscellanous		2	3 5
Manufactures of iron and steel, miscellaneous	2	13	3 1
Minerals, miscellaneous			
Borax		8	
Sulfur		5	
Nitrates, phosphates, and potash	490	291	334
Ammonium compounds	116	76	117 121
Fertilizers, unclassified	136 219	85 119	71
Phosphates Potash	19	119	25
Other agricultural commodities	59	89	77
Oilseeds	59	26	55

		Fiscal year	
EAST COAST UNITED STATES TO WEST COAST CENTRAL AMERICA—Continued	1985	1984	1983
Other agricultural commodities—Continued			
Sugar Petroleum and products		63	22
Diesel oil	<u>171</u>	95	54
Gasoline	13	i	2
Fuel oil, residualLubricating oil	94 6	78 10	45 5
Petroleum products, miscellaneous	21	6	
Miscellaneous	64	78	85
Flour, wheat	1. 17	23	30
Tallow	22	14	10
Total	1,884	1,281	$\frac{43}{2,593}$
	1,004	1,201	
EAST COAST UNITED STATES TO WEST COAST SOUTH AMERICA:			
Canned and refrigerated foods, miscellaneous	23	36	29
Chemicals and petroleum chemicals	231	183	186
Caustic soda	61 164	42 128	45 134
Petroleum chemicals, miscellaneous	6	13	7
Coal and coke Grains	162 1,772	161 2,806	227 3,100
Corn	91	347	619
Oats	1 37	3 85	7 20
Sorghum	85	22	122
Soybeans	154 1,403	137 2,210	162
WheatOther and unclassified	1,403	2,210	2,165
Lumber and products	8	7	15
PulpwoodOther and unclassified	4	5 2	13
Machinery and equipment	52	66	67
Agricultural machinery and implements	15	18	19
Automobiles, trucks, accessories, and parts Construction machinery and equipment	14 14	19 18	22 13
Electrical machinery and apparatus	6	8	6
Other and unclassified	3 26	3 30	7 30
Angles, shapes, and sections	5	3	9
Plates, sheets, and coils	5 7	6 12	4 7
Wire, bars, and rods	3	3	8
Other and unclassified	6 45	6 14	2 23
Soda and sodium compounds	36	14	18
Sulfur	7 2		2
Other and unclassified	445	417	3 282
Ammonium compounds	13	22	8
Fertilizers, unclassified	147 261	230 147	150 111
Potash	24	18	13
Ores and metals	158	132	46
Ores, miscellaneous	26	5	7

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

		Fiscal year	
EAST COAST UNITED STATES TO WEST COAST	1985	1984	1983
South America—Continued			
Ores and metals—Continued	132	127	39
Metals	127	111	30
Scrap Tin, including tinplate	3	2	3
Other and unclassified	2	14	6
Other agricultural commodities	5	44	10
Oilseeds	4	1 43	5 2
SugarOther and unclassified	· · · · · · i		3
Petroleum and products	256	466	439
Diesel oil	65	183	130
Gasoline	75	142	134
Jet fuel	52	5 54	12 54
Liquified natural gas	25	37	37
Lubricating oil	29	38	29
Other and unclassified	10	7	43
Miscellaneous	577	665	670
Bricks and tile	3	3	3
Carbon black	1	17	10
Clay, fire, and chinaFlour, wheat	15	44	59
Groceries, miscellaneous	2		7
Oil coconut	1 54	3 66	4 127
Oil, vegetable	111	109	99
Resin	36	23	33
Rubber, manufactured	4	6	7
Tallow	33 7	43	49 8
TextilesAll other and unclassified	297	342	263
Total	3,760	5,027	5,124
Total			
EAST COAST UNITED STATES TO BALBOA, R.P.:	9	8	8
Canned and refrigerated foods, miscellaneous	84	88	93
Grains	33	26	35
Corn	51	60	48
Other and unclassified		2	10
Machinery and equipment, miscellaneous	1 7	4	4
Ores and metals, miscellaneous	169	186	248
Petroleum and products Diesel	63	25	
Fuel oil, residual	98	140	237
Other and unclassified	8	21	- 11
Miscellaneous	128	140	144
Oil, vegetable	11	14 126	14 130
All other and unclassified	398	429	501
Total	398	429	301
EAST COAST UNITED STATES TO HAWAII:			
Miscellaneous	46	29	53
All other and unclassified	46	29	53
Total	46	29	53
E TO COLOT HAUTED STATES TO OCCANIA.			
EAST COAST UNITED STATES TO OCEANIA: Chemicals and petroleum chemicals	519	705	570
Chemicals and performant entitled at 11111111111111			

		Fiscal vear	
	1985	1984	1983
EAST COAST UNITED STATES TO OCEANIA—Continued			
Chemicals and petroleum chemicals—Continued	430	560	390
Caustic soda	82	560 145	172
Petroleum chemicals, miscellaneous	7		8
Coal and coke			30
Grains	48	32	116
Rice			1
Soybeans	48	29	105
Other and unclassified	2	3 9	10
Pulpwood	2	9	******
Machinery and equipment	11	13	12
Agricultural machinery and implements	1	8	2
Automobiles, trucks, accessories and parts	4	Ĭ	1
Construction machinery and equipment	5	2	6
Electrical machinery and apparatus			1
Other and unclassified	1	2	2 3
Minerals, miscellaneous	10		1
Nitrates, phosphates, and potash	743	500	710
Ammonium compounds	10	13	8
Fertilizers, unclassified	191	122	184
Phosphates	510	348	513
Potash Petroleum and products	32 338	17 265	5 293
Diesel oil	44		
Liquefied gas	105	66	21
Lubricating oil	23	16	8
Residual fuel oil		2	144
Petroleum coke	156	177	101
Other and unclassified	10 445	4 612	19 574
Clay, fire and china	24	- 012	11
Glass and glassware			2
Oil, vegetable	3	4	3
Paper and paper products	18	27	35
Resin	1	12	19 1
Rubber, manufactured	399	568	503
Total	2,116	2,136	2,309
	====		
EAST COAST UNITED STATES TO ASIA:		122	100
Canned and refrigerated foods	111	177	189
Canned foods, miscellaneous	3 108	6 171	7 182
Fruit	28	104	89
Meat	1	104	2
Other and unclassified	79	66	91
Chemicals and petroleum chemicals	1,919	2,148	2,257
Caustic soda	41	49	56
Chemicals, unclassified	1,340	1,423	1,494
Petroleum chemicals, miscellaneous Coal and coke	538 7,990	676 7,838	707 8,729
Grains	17,731	20,962	29,326
Barley	31		104
Corn	7,853	8,878	20,103
Rice	1		25

	Fiscal year		
	1985	1984	1983
EAST COAST UNITED STATES TO ASIA—Continued			
Grains—Continued	2.022	1.105	024
Sorghum	2,033 5,725	1,195 6,148	834
Soybeans	1,984	4,679	6,264 1,955
Wheat	104	62	41
Lumber and products	284	229	281
Pulpwood	279	225	258
Other and unclassified	5	4	23
Machinery and equipment	49	49	67
Agricultural machinery and implements	5	4	6
Automobiles, trucks, accessories and parts	5	10	7
Construction machinery and equipment	14	10	23
Electrical machinery and apparatus	6	9	11
Other and unclassified	19 41	16	20 96
Manufactures of iron and steel		103	
Angles, shapes, and sections	! 9	34 15	33
Plates, sheets, and coils	9	3	21
Wires, bars, and rods			4
Other and unclassified	31	51	30
Minerals, miscellaneous	4		1
Nitrates, phosphates, and potash	5,193	5,207	4,961
Ammonium compounds	122	93	47
Fertilizers, unclassified	249	329	401
Phosphates	4,810	4,775	4,477
Potash	12 2,149	10 1,988	36 1,810
Ores and metals	64	7	25
Ores, miscellaneous	2,085	1,981	1,785
	1	26	26
Aluminumlron	24	20	69
Scrap	2,048	1,946	1,654
Tin, including tinplate	1	1	3
Other and unclassified	11	8	33
Other agricultural commodities	6	24	59
Beans, edible	2	22	34
Cotton, raw	4		23
Other and unclassified	031	500	1 224
Petroleum and products	821	598	1,234
Gasoline	120	4 178	18 360
Liquefied gas	130 71	103	58
Lubricating oilPetroleum coke	447	260	590
Diesel		34	24
Residual fuel oil	50		145
Jet fuel	28		29
Other and unclassified	92	19	10
Miscellaneous	4,678	4,689	4,039
Bricks and tile	1 24		1
Carbon black	364	320	323
Clay, fire and china	6	21	15
Flour, wheat	4	50	103
Groceries, miscellaneous	16	12	7
Marble and stone	9	16	11
Oil, vegetable	70	67	47 243
Paper and paper products	184	164	243

		Fiscal year	
	1985	1984	1983
EAST COAST UNITED STATES TO ASIA—Continued Miscellaneous—Continued			
Resin	181	80	106
Rubber, manufactured	7 2	27	5
Tallow Textiles	50	2 27	6 17
Tobacco and manufactures	4	7	45
All other and unclassified	3,756	3,896	3,110
Total	40,976	44,012	53,049
EAST COAST CANADA TO WEST COAST UNITED STATES: Miscellaneous	19	46	11
Pulpwood		1	2
All other and unclassified	19	45	9
Total	19	46	11
EAST COAST CANADA TO WEST COAST CENTRAL AMERICA:			
Manufactures of iron and steel, miscellaneous	24		1
Miscellaneous		36	57
Paper and paper products	11 9	12 24	10 47
Total	44	36	58
EAST COAST CANADA TO WEST COAST SOUTH AMERICA:			
Grains		5	8
Barley		5	5
Other and unclassified			3
Machinery and equipment, miscellaneous		5 4	5 17
Minerals, miscellaneous	9	12	13
Asbestos	9	12	13
Ores and metals	1	2	1
Metals		2	
Tin, including tinplate Other and unclassified		2	i
Miscellaneous	79	107	89
Paper and paper products	33	48	45
All other and unclassified	46	59	44
Total	89	135	133
EAST COAST CANADA TO OCEANIA: Miscellaneous	109	129	100
Paper and paper products		10	
All other and unclassified	109	119	100
Total	109	129	100
EAST COAST CANADA TO ASIA:	6.1	42	40
Canned and refrigerated foods	<u>51</u>	43	49
Refrigerated foods	23	25	31
Other and unclassified	28	18	18
Chemicals and petroleum chemicals, miscellaneous	5	:	4
Grains	107	176	88
Soybeans	79	176	45 43
Other and unclassified	28		
Lumber and products	185	228	146
Pulpwood	185	226 2	144
Other and unclassified	• • • • • • •	2	2

		Fiscal year	
	1985	1984	1983
EAST COAST CANADA TO ASIA—Continued Machinery and equipment, miscellaneous	2	1	
Manufactures of iron and steel, miscellaneous	25	42	58
Ores and metals	355	335	550
Ores, miscellaneous	48	117	108
Metals	307	218	442
Aluminum	45	40	142
Copper	59 48	30	24 87
Scrap	124	118	160
Other and unclassified	31	51	53
Miscellaneous	796	650	674
Paper and paper products	193 59	70	105
Resin		16	26 15
All other and unclassified	544	564	528
Total	1,526	1,475	1,569
EAST COAST CENTRAL AMERICA TO WEST COAST UNITED STATES:			
Nitrates, phosphates, and potash		14	28
Amonium compounds		14	15
Fertilizers, unclassified			13
Miscellaneous	• • • • • • •	14	19
All other and unclassified	•••••	14	19
Total	• • • • • • •	28	47
EAST COAST CENTRAL AMERICA TO WEST COAST CENTRAL AMERICA:			
Nitrates, phosphates, and potash	536	132	102
Ammonium compounds	45	25	
Phosphates	86 405	107	102
Fertilizers	3,022	4,092	3,247
Asphalt	49	17	
Crude oil	745	931	1,378
Diesel oil	111	79	139
Liquefied gas	327 1,734	312 2,337	198 1,396
Gasoline	1,734	2,337	1,370
Other and unclassified	39	416	136
Miscellaneous	24	16	3
All other and unclassified	24	16	3
Total	3,582	4,240	3,352
EAST COAST CENTRAL AMERICA TO WEST COAST SOUTH AMERICA:			
Nitrates, phosphates, and potash	2	26	20
Fertilizers, miscellaneous	2	26	20
Other agricultural commodities		5	
Sugar		5	
Petroleum and products	138		5
Other and unclassified	138 46	70 106	5 39
All other and unclassified	46	106	39
Total	186	207	64

[Thousands of foliag tons]			
		Fiscal year	
	1985	1984	1983
EAST COAST CENTRAL AMERICA TO BALBOA, R.P.:			
Petroleum and products	104	65	56
Diesel oil	30	4	33
Fuel, oil, residual	73	61	23
Other and unclassified	1		
Total	104	65	56
			=====
EAST COAST CENTRAL AMERICA TO OCEANIA:			
Petroleum products		16	
Miscellaneous	12	46 11	4
All other and unclassified			
	12	11	4
Total	12	57	4
EAST COAST CENTRAL AMERICA TO ASIA:			
Chemicals and petroleum chemicals	19	13	10
Nitrates, phosphates, and potash	18		10
Fertilizers, miscellaneous	18	• • • • • • •	
Ores and metals, miscellaneous	90	43	10 61
Other agricultural commodities	2	2	11
Coffee	2	2	
Petroleum and products	2	2	11
	• • • • • • • • •	• • • • • • • •	56
Crude petroleum			56
Miscellaneous	109	73	76
All other and unclassified	109	73	76
Total	238		
			224
EAST COAST SOUTH AMERICA TO WEST COAST UNITED STATES: Canned and refrigerated foods, miscellaneous. Chemicals and petroleum chemicals Lumber and products, miscellaneous Manufactures of iron and steel, miscellaneous Ores and metals Ores Alumina/bauxite Other and unclassified Metals, miscellaneous Other agricultural commodities Cocoa and cacao beans Coffee Sugar, raw Petroleum and products Asphalt. Crude oil Diesel oil Fuel oil, residual Gasoline Jet fuel Liquefied gas Petroleum products, miscellaneous Miscellaneous	9 77 26 648 76 74 64 10 2 9 1 8 95 22 28 42	16 74 31 171 30 27 27 27 	2 90 24 181 44 24 20 1 1 1 5 5 480 56 258 29 50 87 38
EAST COAST SOUTH AMERICA TO WEST COAST UNITED STATES: Canned and refrigerated foods, miscellaneous. Chemicals and petroleum chemicals Lumber and products, miscellaneous Manufactures of iron and steel, miscellaneous Ores and metals Ores Alumina/bauxite Other and unclassified Metals, miscellaneous Other agricultural commodities Cocoa and cacao beans Coffee Sugar, raw Petroleum and products Asphalt Crude oil Diesel oil Fuel oil, residual Gasoline Jet fuel Liquefied gas Petroleum products, miscellaneous Miscellaneous Paper and products	9 77 26 648 76 74 64 10 2 9 1 8	16 74 31 171 30 27 27 27 6 6 6 6 6 6 	2 90 24 181 44 24 20 1 1 5 5 480 56 258 29 50 87 3 87
EAST COAST SOUTH AMERICA TO WEST COAST UNITED STATES: Canned and refrigerated foods, miscellaneous. Chemicals and petroleum chemicals Lumber and products, miscellaneous Manufactures of iron and steel, miscellaneous Ores and metals Ores Alumina/bauxite Other and unclassified Metals, miscellaneous Other agricultural commodities Cocoa and cacao beans Coffee Sugar, raw Petroleum and products Asphalt. Crude oil Diesel oil Fuel oil, residual Gasoline Jet fuel Liquefied gas Petroleum products, miscellaneous Miscellaneous	9 77 26 648 76 74 64 10 2 9 1 8 95 22 28 42	16 74 31 171 30 27 27 27 	2 90 24 181 44 24 20 1 1 1 5 5 480 56 258 29 50 87 38

[Thousands of long tons			
		Fiscal year	
	1985	1984	1983
EAST COAST SOUTH AMERICA TO WEST COAST CANADA:	26	43	22
Manufactures of iron and steel	26 18	16	33
All other and unclassified	18	16	• • • • • • • •
	44	59	22
Total			33
EAST COAST SOUTH AMERICA TO WEST COAST CENTRAL			
AMERICA:	77	103	70
Coal	77 49	103 205	79
	21		******
Sorghum	28	197	
Other and unclassified	20	8	
Nitrates, phosphates, and potash	17	23	55
Fertilizers, miscellaneous	17	23	55
Petroleum and products	687	594	669
Crude oil	659	594	667
Liquefied gas			2
Other and unclassified	28		
Other agricultural commodities	• • • • • • •	12	52
Sugar		12	52
Miscellaneous	30	48	7
All other and unclassified	30	48	7
Total	860	985	862
EAST COAST SOUTH AMERICA TO WEST COAST			
SOUTH AMERICA:		4.0	
Chemicals and petroleum chemicals, miscellaneous	8	18	12
Grains		7	2
Oats	I	1	2
Grains, miscellaneous	170	6 87	34
Minerals, miscellaneous	6		
Salt	6		
Nitrates, phosphates, and potash	91	57	62
Fertilizers, unclassified	91	57	62
Ores and metals	13	28	26
Ore, alumina/bauxite	6	18	14
Metals, miscellaneous	7	10	12
Other agricultural commodities	• • • • • • •	• • • • • • •	18
Sugar			13
Other and unclassified	1.503	1 540	1 454
Petroleum and products	1,582	1,568	1,654
Crude oil	1,133	1,085	1,116 168
Fuel oil, residual.	32	26	112
Gasoline	271	224	180
Jet fuel	9	25	18
Liquefied gas			4
Lubricating oil	42 18	23 83	44 12
Miscellaneous	45	64	48
All other and unclassified	45	64	48
Total	1,916	1,829	1,856
		1,027	
EAST COAST SOUTH AMERICA TO BALBOA, R.P.:	71	42	74
Petroleum and products	65	20	19
Diesel oil	03	20	19

		Fiscal vear	
EAST COAST SOUTH AMERICA TO BALBOA, R.P.—Continued	1985	1984	1983
Petroleum and products—Continued			
Gasoline	1 5	22	8 47
Miscellaneous	7	5	47
All other and unclassified	7	5	4
Total	78	47	78
EAST COAST SOUTH AMERICA TO HAWAII: Petroleum and products	60	59	
Jet fuel	60	26	******
Kerosene		33	
Total	60	59	
EAST COAST SOUTH AMERICA TO OCEANIA: Petroleum and products	29	30	25
Miscellaneous	3	3	47
All other and unclassified	3	3	47
Total EAST COAST SOUTH AMERICA TO ASIA:	= 32	33	72
Canned and refrigerated foods, miscellaneous	15	22	19
Chemicals and petroleum chemicals, miscellaneous	70	47	38
Grains, miscellaneous	53 42	32	29
Manufactures of iron and steel, miscellaneous	357	88	143
Nitrates, phosphates, and potash Fertilizers, miscellaneous	• • • • • • •		$\frac{2}{2}$
Ores and metals	364	290	323
Ores	146	121	103
Alumina/bauxite	14 64	49	16 10
Manganese	66	37	74
Other and unclassified	2 218	35 169	3 220
Other agricultural commodities	5		4
Cotton, raw	3		2
Other and unclassified	632	1.031	1,093
Crude oil	508	892	846
Diesel oil	29 34	• • • • • • •	61 53
Jet fuel	61	92	30
Liquefied gas Residual fuel oil			8 48
Other and unclassified		47	47
Miscellaneous	29	$\frac{27}{16}$	32
All other and unclassified	29	11	32
Total	1,567	1,537	1,683
WEST INDIES TO WEST COAST UNITED STATES:		1.7	
Chemicals and petroleum chemicals, miscellaneous Manufactures of iron and steel	30	17 30	33
Minerals, miscellaneous	38	24	24
Salt Nitrates, phosphates and potash	38 63	24 82	24
Ores and metals	57	253	251
Ore, alumina/bauxite	57	184	251

	_	Fiscal year	
	1985	1984	1983
WEST INDIES TO WEST COAST UNITED STATES—Continued Ores and metals—Continued			
Metals, miscellaneous		69	
Petroleum and products	166	233	487
Asphalt		27	31
Liquefied gas		17	207
Fuel oil, residual	43	60	287 58
Jet fuel	106	60	64
Lubricating oil	17	69	47
Miscellaneous	• • • • • • •	46	• • • • • • • •
All other and unclassified	254	16	705
Total	354	655	795
WEST INDIES TO WEST COAST CENTRAL AMERICA:			
Chemicals and petroleum chemicals, miscellaneous	1	2	1
Other agricultural commodities	3	18	11
Sugar	3	18	11
Petroleum and products	135	187	265
Crude oil		01	34
Diesel oil	44 8	81	97 7
Gasoline	54	49	78
Kerosene	15	16	17
Lubricating oil	5	6 36	4 28
Other and unclassified	71	71	45
Cement	15	4	6
All other and unclassified	56	67	39
Total	210	278	322
WEST INDIES TO WEST COAST SOUTH AMERICA:			3
Chemicals and petroleum chemicals, miscellaneous Nitrates, phosphates and potash	41		
Other agricultural commodities		53	47
Minerals, miscellaneous	2	6	9
Sulfur	2	6	9
Ores and metals	<u>13</u>	<u>12</u>	******
Ores, miscellaneous	5	5	
Petroleum and products	567	733	975
Crude oil			45
Diesel oil	232	357	363
Fuel oil, residual	76 138	91 147	53 379
Jet fuel	16	5	28
Kerosene	7	39	26
Liquefied gas		79	7 56
Lubricating oilOther and unclassified	98	15	18
Miscellaneous	7	16	27
All other and unclassified	7	16	27
Total	630	820	1,061
WEST INDIES TO BALBOA, R.P.: Petroleum and products	64	97	297
Diesel oil	55	28	110
Diesel Oli	33	20	

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

	_	Fiscal year	
	1985	1984	1983
WEST INDIES TO BALBOA, R.P.—Continued			
Petroleum and products—Continued Fuel oil, residual	3	5	117
Gasoline	1	22	65
Other and unclassified	5	42	5
Total	64	97	297
WEST INDIES TO HAWAII:			
Petroleum and products	115	268	323
Diesel oil			16
Jet fuel	61	268	297
Residual fuel oil	54	240	10
Total	115	<u>268</u>	323
WEST INDIES TO OCEANIA:	27	20	4.4
Minerals, miscellaneous	26	38	44
Salt Other agricultural commodities	26	38 41	44
Sugar	•••••	41	• • • • • • • • • • • • • • • • • • • •
Petroleum and products	57	180	99
Diesel oil		46	16
Gasoline	29	78	48
Jet fuel		34	28
Lubricating oil	5 23	4 18	7
Miscellaneous		3	4
All other and unclassified		3	4
Total	83	262	147
WEST INDIES TO ASIA: Canned and refrigerated foods	14	25	14
Fish, refrigerated	10	19	7
Other and unclassified	4	6	7
Chemicals and petroleum chemicals, miscellaneous	71	38	49
Ores and metals	46	36	46
Ores	46	31	39
Alumina/ bauxite	43	26	39
Other and unclassified		5 5	7
Other agricultural commodities	1,264	1,162	1,394
Sugar	1,264	1,161	1,393
Other and unclassified		1	1
Petroleum and products	54	70	439
Crude oil Liquefied gas	10		86
Gasoline			78
Jet fuel			71
Fuel oil, residual		20	138
Lubricating oilPetroleum products, miscellaneous	44	38 32	66
Miscellaneous	164	22	34
All other and unclassified	164	22	34
Total	1,613	1,353	1,976
EUROPE TO WEST COAST UNITED STATES:			
Canned and refrigerated foods, miscellaneous	64	46	39
Chemicals and petroleum chemicals	99	23	24
Caustic soda	10	5	2

	Fi	scal year	
EUROPE TO WEST COAST UNITED STATES—Continued	1985	1984	1983
Chemicals and netroleum chemicals—Continued	89	18	22
Chemicals, unclassified Lumber and products, miscellaneous	21	20	17
Machinery and equipment	246	193	150
Automobiles, trucks, accessories and parts	226	185	138
Construction machinery and equipment	8	5	4 5
Flectrical machinery and apparatus	5 7	1 2	3
Other and unclassified	729	780	610
Manufactures of iron and steel	69	53	34
Angles, shapes, and sectionsPlates, sheets, and coils	389	469	379
Tubes pines and fittings	48	33	14
Wires hars and rods	63 160	108 117	41 142
Other and unclassified	358	346	244
Nitrates, phosphates, and potash	119	100	63
Ammonium compounds	210	200	159
Nitrate of soda	28	42	22
Other and unclassified	1 82	4 51	92
Ores and metals	56	12	20
Ores, miscellaneous	26	39	72
Metals	20	29	63
IronOther and unclassified	6	10	9
Petroleum and products	252	53	23
Gasoline	248	27 26	23
Other and unclassified	1,623	1,428	953
Miscellaneous	25	10	8
Bricks and tile	207	92	35
Glass and glassware	1	1	2
Liquors and wines	6 7	6	8 2
Marble and stone	181	201	57
Rubber, manufactured	i	1	
All other and unclassified	1,195	1,108	841
Total	3,474	2,940	2,152
EUROPE TO WEST COAST CANADA: Canned and refrigerated foods, miscellaneous	6	7	5
Machinery and equipment	16	13	14
Automobiles, trucks, accessories and parts	15	6	5
Other and unclassified	193	7 - 137	68
Manufactures of iron and steel	15	22	7
Angles, shapes, and sections	84	43	27
Tubes, pipes, and fittings	25	16	2
Wire hars and rods	26	26	6 26
Other and unclassified	43 8	30 7	11
Nitrates, phosphates, and potash	8	7	
Fertilizers, unclassifiedOres and metals	11	89	
Miscellaneous	166	194	164
Bricks and tile	3	1	3
Liquors and wines	2 161	1 192	161
All other and unclassified	400	447	262
Total	400	===	

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

		Fiscal year		
	1985	1984	1983	
EUROPE TO WEST COAST CENTRAL AMERICA: Canned and refrigerated foods, miscellaneous	17	4	1	
Chemicals and petroleum chemicals, miscellaneous	19	13	38	
Grains	128	53	33	
Corn	5	4	1	
Rice	55	14	5	
Wheat	51	30	25	
Other and unclassified	17 55	5 41	2 24	
Automobiles, trucks, accessories and parts	22	9	10	
Other and unclassified	33	32	14	
Manufactures of iron and steel	90	46	64	
Angles, shapes, and sections	24	11	11	
Plates, sheets, and coils	30	15	21	
Tubes, pipes, and fittings	23	2 14	15	
Wire, bars, and rods Other and unclassified	9	4	15 17	
Nitrates, phosphates, and potash	327	27 İ	267	
Ammonium compounds	47	20	35	
Fertilizers, unclassified	262	240	204	
Potash	18	11	28	
Ores and metals	$\frac{28}{28}$		9	
Metals, miscellaneous Petroleum and products	415	10 239	3	
Crude pertroleum	342	201		
Other and uncalssified	73	38	3	
Other agricultural commodities		25	101	
Sugar	142	25	101	
Miscellaneous	143	139	125	
Cement	1	1	1	
Paper and paper products	17	14	4	
All other and unclassified	124	124	120	
Total	1,232	841	665	
T				
Europe to West Coast South America:	26	26	20	
Canned and refrigerated foods	<u>26</u> 17	<u> 26</u> 21	<u>28</u>	
Canned foods	1/	16	11	
Milk	17	5	3	
Refrigerated foods	9	5	14	
Dairy products	3	3	3	
Other and unclassified	6	2	11	
Chemicals and petroleum chemicals	59	63	58	
Caustic soda	10 48	4 56	4 51	
Chemicals, unclassified	1	3	3	
Coal and coke		13	8	
Grains	41	47	83	
Barley	5	5	1	
Oats	4	3	16	
Wheat	17	16 5	19 20	
Other and unclassified	15	18	27	
Lumber and products		3	i	
Pulpwood		1		
Other and unclassified		2	1	

		Fiscal year	
	1985	1984	1983
EUROPE TO WEST COAST SOUTH AMERICA—Continued Machinery and equipment	71	93	109
Agricultural machinery and implements	13	17	20
Automobiles, trucks, accessories and parts	19	22	26
Construction machinery and equipment Electrical machinery and apparatus	19 12	27 15	35 14
Other and unclassified	8	12	14
Manufactures of iron and steel	149	115	121
Angles, shapes, and sections	31 60	16 48	16 46
Plates, sheets, and coils	11	13	13
Wire, bars, and rods	36	19	14
Other and unclassified	11 43	19 22	32 37
Soda and sodium compounds	39	22	36
Other and unclassified	4		!
Nitrates, phosphates, and potash	116	82	111
Ammonium compounds	26 57	16 48	47
Phosphates	7	7	20
Potash	25 1	10 1	19 1
Other and unclassified Ores and metals	132	21	16
Ores, miscellaneous	120	4	1
Metals	12	17	15
Iron Tin, including tinplate	1 1	1 8	3 5
Other and unclassified	10	8	7
Other agricultural commodities	10	52	75
Sugar	2 8	52	69 6
Other and unclassified	119	64	131
Diesel oil	76	42	53
Gasoline	• • • • • •	4	23 27
Liquefied gas Residual fuel oil	37	10	20
Other and unclassified	6	8	8
Miscellaneous	613	478 1	414
Ammunition and explosives Bricks and tile		5	6
Cement		3	2
Flour, wheat	23	41 6	29 6
Groceries, miscellaneous	7	3	9
Liquors and wines	3	2	7
Oil, vegetable	49	33	39
Resin	6	6	8
Rubber, manufactured	1 3	3 7	5
Textiles	3	7	4
All other and unclassified	511	360	292
Total	1,379	1,079	1,192
EUROPE TO OCEANIA:			
Canned and refrigerated foods, miscellaneous	13 139	15 164	14 111
Chemicals and petroleum chemicals	33	45	30
Cuusii souu iiiiiiiiiiiiiiiiiiiiiiiiiiiii			

EUROPE 10 OCEANIA—Continued Chemicals and petroleum chemicals—Continued Chemicals unclassified 96 108 67 Petroleum chemicals, miscellaneous 3 28 4 4 4 4 4 4 4 4 4	[I nousands of long tons]		Electronia	
EUROPE TO OCEANIA - Continued Chemicals and petroleum chemicals. —Continued Chemicals, unclassified 96 108 7 Petroleum chemicals, miscellaneous 10 11 14 14 14 14 14 14				1002
Chemicals and petroleum chemicals—Continued Chemicals, unclassified 96 108 67	Francis Octavia Continued	1985	1984	1983
Chemicals, unclassified 96 105 09 Petroleum chemicals, miscellaneous 3 28 4 Machinery and equipment 22 24 31 Agricultural machinery and implements 1 1 1 Automobiles, trucks, accessories and parts 16 14 11 Construction machinery and equipment 2 3 12 Electrical machinery and apparatus 1 2 4 3 Other and unclassified 22 28 29 Angles, shapes, and sections 4 5 7 7 Tubes, pipes, and fittings 5 7 7 7 7 Tubes, pipes, and fittings 6 6 6 6 6 6 Wire, bars, and rods 4 <	Chemicals and petroleum chemicals—Continued			
Petroleum chemicals, miscellaneous 10	Chemicals, unclassified			
Machinery and equipment	Petroleum chemicals, miscellaneous			
Agricultural machinery and implements	Lumber and products, miscellaneous			
Agricultural interrupts and partis Automobiles, trucks, accessories and parts Construction machinery and equipment Electrical machinery and apparatus 1	Machinery and equipment			
Construction machinery and equipment 2 3 1 2 2 3 1 2 2 3 1 2 2 3 1 2 4 4 4 4 4 4 4 4 4	Agricultural machinery and implements	-		
Electrical machinery and apparatus 1	Automobiles, trucks, accessories and parts			
Other and unclassified 22 28 29 Manufactures of iron and steel 22 28 29 Angles, shapes, and sections 7 7 7 7 7 7 7 7 7 7 7 7 7 7 3 Wire, bars, and rods 6 9 1 1 1 1 1 1 1 1 1<	Electrical machinery and apparatus			
Manufactures of iron and steel 22 28 29 Angles, shapes, and sections 7 7 7 7 Plates, sheets, and coils 7 2 2 2<	Other and unclassified			
Angles, shapes, and sections 7 1 1 2 2 1		22	28	
Plates, sheets, and coils	Angles, shapes, and sections			5
Tubes, pipes, and fittings Wire, bars, and rods Other and unclassified Minerals, miscellaneous. Salt Soda and sodium compounds Salt Ammonium compounds Soda and sodium compounds Ammonium compounds Soda and sodium compounds Ammonium compounds Ammonium compounds Pertilizers, unclassified Ammonium compounds Pertilizers, unclassified Ammonium compounds Pertilizers, unclassified Ammonium compounds Pertilizers, unclassified Ammonium compounds Automobiles Ammonium compounds Automobiles, rucks, accessories and parts Andon compounds Automobiles, trucks, accessories and parts Andon compounds Automobiles, trucks, accessories and parts Andon compounds	Plates, sheets, and coils			7
Willey and sunclassified 4 4 8 Minerals, miscellaneous 9 10 7 Salt 6 9 6 Soda and sodium compounds 3 1 1 Nitrates, phosphates, and potash 82 69 51 Ammonium compounds 26 13 1 Fertilizers, unclassified 33 19 32 Phosphates 1 -1 17 Potash 22 37 1 Ores and metals, miscellaneous 2 2 2 Other agricultural commodities, miscellaneous 4 6 9 Other and unclassified 19 60 5 Lubricating oil 9 7 2 Other and unclassified 10 53 3 Miscellaneous 465 485 505 Bricks and tile 2 2 1 Cement 13 18 16 Flour, wheat 8 12	Tubes, pipes, and fittings			
Minerals, miscellaneous	Wire, bars, and rods			
Salt	Other and unclassified			
Soda and sodium compounds				
Nitrates, phosphates, and potash 82 69 51 Ammonium compounds 26 13 1 Fertilizers, unclassified 33 19 32 Phosphates 1 17 Potash 22 37 1 Ores and metals, miscellaneous 2 2 2 Other agricultural commodities, miscellaneous 4 6 9 Petroleum and products 19 60 5 Lubricating oil 9 7 2 Other and unclassified 10 53 3 Miscellaneous 465 485 505 Bricks and tile 2 2 2 1 Cement 13 18 16 Flour, wheat 8 12 9 Glass and glassware 2 2 2 2 Groceries, miscellaneous 1 4 4 2 Glass and paper products 5 9 6 Rub	Salt			
Ammonium compounds 26 13 1 Fertilizers, unclassified 33 19 32 Phosphates 1	Nitrates phosphates and notash			51
Fertilizers, unclassified. 33 19 32 Phosphates. 1	Ammonium compounds		13	1
Phosphates. 1 <td< td=""><td>Fertilizers unclassified</td><td></td><td>19</td><td></td></td<>	Fertilizers unclassified		19	
Potash 22 37 Ores and metals, miscellaneous 2 2 Other agricultural commodities, miscellaneous 4 6 9 Petroleum and products 19 60 5 Lubricating oil 9 7 2 Other and unclassified 10 53 3 Miscellaneous 465 485 505 Bricks and tile 2 2 2 1 Cement 13 18 16 Flour, wheat 8 12 9 Glass and glassware 2 2 2 2 Groceries, miscellaneous 1 4 2 <td>Phosphates</td> <td></td> <td></td> <td></td>	Phosphates			
Other agricultural commodities, miscellaneous 4 6 9 Petroleum and products 19 60 5 Lubricating oil 9 7 2 Other and unclassified 10 53 3 Miscellaneous 465 485 505 Bricks and tile 2 2 2 1 Cement 13 18 16 Flour, wheat 8 12 9 Glass and glassware 2 9 6 16 16 26 16 16 26 16 16 26 16 16 26 16 16 26 14 13 18 14 44 410 442 444 410 442 44	Potash			1
Other agiterituits continues 19 60 5 Lubricating oil 9 7 2 Other and unclassified 10 53 3 Miscellaneous 465 485 505 Bricks and tile 2 2 1 Cement 13 18 16 Flour, wheat 8 12 9 Glass and glassware 2 9 6 6 16 6 16 1 <td>Ores and metals, miscellaneous</td> <td></td> <td></td> <td> 0</td>	Ores and metals, miscellaneous			0
Lubricating oil	Other agricultural commodities, miscellaneous			
Other and unclassified 10 53 3 Miscellaneous 465 485 505 Bricks and tile 2 2 1 Cement 13 18 16 Flour, wheat 8 12 9 Glass and glassware 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 9 6 16 26 16 16 26 16 16 26 16 16 26 16 16 26 16 16 26 16 16 26 16 16 26 16 16 26 16 16 26 14 13 16 26 14 13 16 26 14 13 16 26 14 13 16 26 14 13 18 16 26 14 13 18 16				
Miscellaneous 465 485 505 Bricks and tile 2 2 1 Cement 13 18 16 Flour, wheat 8 12 9 Glass and glassware 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 9 0 1 4 2 2 2 9 0 1 4 2 2 2 9 0 16 26 16 16 26 16 16 26 16 16 26 16 16 26 14 13 16 26 14 44 410 442 442 442 442 442 442 442 442 442 44 410 442 442 442 442 442 442 442 442 442 444 410 442 <td>Other and unclassified</td> <td>-</td> <td></td> <td></td>	Other and unclassified	-		
Bricks and tile 2 2 1 Cement 13 18 16 Flour, wheat 8 12 9 Glass and glassware 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 9 0il, vegetable 1 4 2 2 2 9 0il, vegetable 16 26 16 16 26 16 16 26 16 16 26 16 16 26 14 13 1				
Cement		2	2	1
Flour, wheat	Cement	13		
Glass and glassware	Flour, wheat			
Liquors and wines	Glass and glassware			2
Collaboration Collaboratio	Groceries, miscellaneous	-		
Paper and paper products S 9 6 Rubber, manufactured 1 1 1 1 1 1 1 1 1	Liquors and wines			
Rubber, manufactured	Paper and paper products			
Textiles	Rubber manufactured			
All other and unclassified	Textiles			-
EUROPE TO ASIA: Z6 14 13 Canned and refrigerated foods, miscellaneous 26 14 13 Chemicals and petroleum chemicals 218 251 283 Caustic soda 21 19 13 Chemicals, unclassified 161 219 234 Petroleum chemicals, miscellaneous 36 13 36 Lumber and products, miscellaneous 2 Machinery and equipment 10 7 9 Auttomobiles, trucks, accessories and parts 10 7 9 Manufactures of iron and steel 56 Ores and metals, miscellaneous 14 48 Petroleum and products, miscellaneous 34 54 53				
Canned and refrigerated foods 26 14 13 Refrigerated foods, miscellaneous 26 14 13 Chemicals and petroleum chemicals 218 251 283 Caustic soda 21 19 13 Chemicals, unclassified 161 219 234 Petroleum chemicals, miscellaneous 36 13 36 Lumber and products, miscellaneous 2 Machinery and equipment 10 7 9 Automobiles, trucks, accessories and parts 10 7 9 Manufactures of iron and steel 56 Ores and metals, miscellaneous 14 48 Petroleum and products, miscellaneous 34 54 53	Total	780	891	766
Canned and refrigerated foods 26 14 13 Refrigerated foods, miscellaneous 26 14 13 Chemicals and petroleum chemicals 218 251 283 Caustic soda 21 19 13 Chemicals, unclassified 161 219 234 Petroleum chemicals, miscellaneous 36 13 36 Lumber and products, miscellaneous 2 Machinery and equipment 10 7 9 Automobiles, trucks, accessories and parts 10 7 9 Manufactures of iron and steel 56 Ores and metals, miscellaneous 14 48 Petroleum and products, miscellaneous 34 54 53				
Refrigerated foods, miscellaneous 26 14 13 Chemicals and petroleum chemicals 218 251 283 Caustic soda 21 19 13 Chemicals, unclassified 161 219 234 Petroleum chemicals, miscellaneous 36 13 36 Lumber and products, miscellaneous 2 Machinery and equipment 10 7 9 Automobiles, trucks, accessories and parts 10 7 9 Manufactures of iron and steel 56 Ores and metals, miscellaneous 14 48 Petroleum and products, miscellaneous 34 54 53		26	1.4	13
Chemicals and petroleum chemicals 218 251 283 Chemicals and petroleum chemicals 21 19 13 Chemicals, unclassified 161 219 234 Petroleum chemicals, miscellaneous 36 13 36 Lumber and products, miscellaneous 2 Machinery and equipment 10 7 9 Automobiles, trucks, accessories and parts 10 7 9 Manufactures of iron and steel 56 Ores and metals, miscellaneous 14 48 Petroleum and products, miscellaneous 34 54 53				
Caustic soda 21 19 13 Chemicals, unclassified 161 219 234 Petroleum chemicals, miscellaneous 36 13 36 Lumber and products, miscellaneous 2 Machinery and equipment 10 7 9 Automobiles, trucks, accessories and parts 10 7 9 Manufactures of iron and steel 56 Ores and metals, miscellaneous 14 48 Petroleum and products, miscellaneous 34 54 53 7 10 7 10 7	Refrigerated toods, miscellaneous			
Classic sounclassified 161 219 234 Petroleum chemicals, miscellaneous 36 13 36 Lumber and products, miscellaneous 2 Machinery and equipment 10 7 9 Automobiles, trucks, accessories and parts 10 7 9 Manufactures of iron and steel 56 Ores and metals, miscellaneous 14 48 Petroleum and products, miscellaneous 34 54 53 7 10 7 10 10				
Petroleum chemicals, miscellaneous 36 13 36 13 36 13 36 14 15 15 15 15 15 15 15				
Lumber and products, miscellaneous 2 Machinery and equipment 10 7 9 Automobiles, trucks, accessories and parts 10 7 9 Manufactures of iron and steel 56 Ores and metals, miscellaneous 14 48 Petroleum and products, miscellaneous 34 54 53				36
Machinery and equipment				
Automobiles, trucks, accessories and parts 10 7 9 Manufactures of iron and steel 56 Ores and metals, miscellaneous 14 48 Petroleum and products, miscellaneous 34 54 53		10		9
Manufactures of iron and steel	Automobiles, trucks, accessories and parts		7	9
Petroleum and products, miscellaneous	Manufactures of iron and steel		40	
retroleum and products, iniscenancous				53
Misculations				
	miscenaneous			

•		Fiscal year	
	1985	1984	1983
EUROPE TO ASIA—Continued Miscellaneous—Continued	2		17
Paper and paper products	67	67	87
Total	427	443	462
10ta1			
AFRICA TO WEST COAST UNITED STATES: Canned and refrigerated foods, miscellaneous Manufactures of iron and steel, miscellaneous Ores and metals	3 82 35	88 40	76 22
Metals	14	14	11
Other and unclassified	14	14	11 11
Ores	21	26	$\frac{11}{3}$
Manganese ore	16	21	8
Lead oreOther and unclassified	5 37	5 143	177
Petroleum and products		59	147
Crude oil	37	28	30
Other and unclassified		56	
Miscellaneous	16	21	6
All other and unclassified	16	21	6
Total	173	292	281
Total			
AFRICA TO WEST COAST CANADA: Manufactures of iron and steel, miscellaneous Miscellaneous Phosphates All other and unclassified	39 35 4	<u>4</u> 4	4 7 7
Total	43	4	11
••••			
AFRICA TO WEST COAST SOUTH AMERICA: Manufactures of iron and steel, miscellaneous Miscellaneous All other and unclassified Total	8 8 8	$\frac{\frac{3}{3}}{\frac{3}{3}}$	5 5 11
AFRICA TO ASIA.	20	68	61
Canned and refrigerated foods	38	68	59
Fish, refrigeratedOther and unclassified			2
Total	38	68	61
1 Otal			
ASIA (MIDDLE EAST) TO WEST COAST UNITED STATES: Miscellaneous	<u>128</u>	61	61 39
Soybeans	54		
Gasoline	26	28	
Liquefied gas	47	33	22
All other and unclassified	128	61	61
Total	128		

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

[1 nousands of long tons]		P	
		Fiscal year	
WEST COAST UNITED STATES TO EAST COAST	1985	1984	1983
United States: Canned and refrigerated foods, miscellaneous		1	8
Chemicals and petroleum chemicals	94	93	94
Chemicals, unclassified	85	90	78
Petroleum chemicals, miscellaneous	9	3	16
Lumber and products		59	34
Minerals, miscellaneous	72	105	87
Soda and sodium compounds	72	68	87
Salt	2,271	37 2,553	6 662
Petroleum and products			6,663
Crude oil	1,766	1,816 327	5,923 190
Fuel oil, residual	79	151	63
Gasoline	144	117	115
Lubricating oil	142	96	102
Other and unclassified	49	46	270
Miscellaneous	513	428	279
All other and unclassified	513	428	279
Total	2,950	3,239	7,165
WEST COAST UNITED STATES TO EAST COAST CANADA:			
Petroleum and products	269	327	26
Residual fuel oil	36	59	
Diesel oil	80	193	
Gasoline		34	26
Petroleum coke	153	41	
Miscellaneous	2	28	8
All other and unclassified	2	28	8
Total	271	355	34
WEST COAST UNITED STATES TO EAST COAST SOUTH			
AMERICA:			
Canned and refrigerated foods	3	8	15
Canned foods, miscellaneous	3	5	5
Refrigerated foods		3	10
Fruit, excluding bananas		3	9
Other and unclassified			1
Chemicals and petroleum chemicals, miscellaneous	• • • • • •	8	3
Coke, coal typeGrains	• • • • • • •	27 60	21
	•••••	58	18
Wheat Other and unclassified	• • • • • • •	2	3
Lumber and products	24	31	35
Pulpwood	24	31	30
Other and unclassified			5
Machinery and equipment, miscellaneous		3	5 2
Manufactures of iron and steel, miscellaneous		1	
Minerals, miscellaneous	40	45	83
Borax	2	3	5
Salt Soda and sodium compounds	38	6 28	20 58
Infusorial earth		8	
Nitrates, phosphates, and potash		1	7
Fertilizers, unclassified			1
Potash			6
Ammonium compounds		1	
Ores and metals		1	1
Metals, miscellaneous		1	1

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

,		Fiscal year	
WEST COAST UNITED STATES TO EAST COAST SOUTH	1985	1984	1983
AMERICA—Continued	10	15	9
Other agricultural commodities	6	11	
Peas, dry	4	4	7
Petroleum and products	15	• • • • • • •	
Petroleum cokeOther and unclassified	15		· · · · · · · i
Miscellaneous	62	80	46
Clay fire and china	5	8	5
Flour, wheat Oil, vegetable.	3	1 6	
Paper and paper products	12	17	4
All other and unclassified	42	48	37
Total	154	<u>279</u>	228
WEST COAST UNITED STATES TO WEST INDIES:			
Canned and refrigerated foods, miscellaneous	3	1 95	5 77
Grains	67	95	
Rice Petroleum and products	883	1,091	1,316
Crude oil			287
Diesel oil	277	89	100 28
Gasoline	594	918	800
Other and unclassified	12	84	101
Miscellaneous	$\frac{4}{4}$	$\frac{7}{7}$	4
All other and unclassified	957	1,194	1,402
Total	====	= 1,1/4	
WEST COAST UNITED STATES TO EUROPE:	121	71	123
Canned and refrigerated foods Canned foods, miscellaneous	121		3
Refrigerated foods	120	70	120
Fish	54	4	5
Fruit, excluding bananasOther and unclassified	11 55	10 56	40 75
Chemicals and petroleum chemicals, miscellaneous	66	65	95
Coal and coke	56	102	601
Grains	137	<u>344</u> 298	5
Rice Wheat	18	46	132
Lumber and products	395	566	636
Boards and planks	141 38	222 75	222 134
Plywood, veneers, composition board Pulpwood	201	217	257
Other and unclassified	15	52	23
Manufactures of iron and steel, miscellaneous	477	2 434	408
Minerals, miscellaneous	410	411	385
Sulfur	67	23	23
Nitrates, phosphates, and potash	9		
FishmealOres and metals	9 48	1 81	1 112
Ores	3	43	68
Copper			50
Lead			4 14
Other and unclassified	3	43	14

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

		Fiscal year	
	1985	1984	1983
WEST COAST UNITED STATES TO EUROPE—Continued			
Ores and metals—Continued Metals	45	38	44
Aluminum	27	8	
Copper	11	30	41
Lead			1
Tin, including tinplate Other and unclassified	7	• • • • • • •	2
Other agricultural commodities	21	102	44
Beans, edible		1	
Cotton, raw	21	41	40
Molasses		43	
Oilseeds	1,502	17 1,538	1,884
Diesel oil	99	1,550	72
Petroleum coke	1,279	1,538	1,512
Residual fuel oil	123		195
Other and unclassified	770		105
Miscellaneous	770	669	700
Groceries, miscellaneous	11	16 2	21
Oil, vegetable	15	6	7
Paper and paper products	26	55	56
Slag All other and unclassified	15	590	615
	703 3,602		615
Total	3,002	3,975	4,741
WEST COAST UNITED STATES TO AFRICA:			
Chemicals and petroleum chemicals, miscellaneous Coke, coal type			53
Grains	576	636	506
Rice	185		21
Wheat	391	583	485
Soybeans Lumber and products, miscellaneous	• • • • • • •	53 15	
Minerals, miscellaneous	112	128	139
Sulfur	47	101	139
Soda and sodium compound	65	27	
Petroleum and products, miscellaneous		28	
Miscellaneous	58	15	24
Flour, wheatOil, vegetable		10	20
All other and unclassified	58	5	4
Total	746	822	725
WEST COAST CANADA TO EAST COAST UNITED STATES:			
Chemicals and petroleum chemicals, miscellaneous	257	181	154
Coal and coke, coal type	74		
Lumber and products	1,605	1,196	1,080
Boards and planksPulpwood	1,520 35	1,188	1,000
Other and unclassified	50	7 1	17 63
Minerals, miscellaneous		49	11
Sulfur		49	11
Nitrates, phosphates, potash	280	124	133
Ammonium compounds	• • • • • • •		14
Fertilizers, miscellaneous Potash Potash	280	124	29 90
	200	124	70

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

		Fiscal year	
WEST COAST CANADA TO EAST COAST UNITED STATES—Continued	1985	1984	1983
Ores and metals	1		11
Other and unclassified	100	85	11 213
Crude oil	56		108
Diesel oil	44	85	53
Others and unclassified	21	·····ii	52 29
All other and unclassified	21	11	29
Total	2,338	1,646	1,631
WEST COAST CANADA TO EAST COAST SOUTH AMERICA:	194		30
Coal	285	51	21
Barley			21
Wheat	285	51	
Lumber and products	61	56	32
Pulpwood	61	56	29 3
Other and unclassified	265	256	120
Sulfur	250	256	120
Other and unclassified	15		
Nitrates, phosphates, and potash	19	34	$\frac{20}{1}$
Fertilizers, unclassified Potash	18	32	19
Other and unclassified	1	2	
Ores and metals, miscellaneous	17	2	
Miscellaneous		<u>27</u> 23	$\frac{35}{22}$
Paper and paper products	6	4	13
Total	885	426	258
WEST COAST CANADA TO WEST INDIES:			
Chemicals and petroleum chemicals, miscellaneous	2	2	36
Lumber and products	36	31	29
Boards and planks	36	31	29
Nitrates, phosphates, and potash	17 136	37 121	17 69
Sulfur	136	121	69
Other agricultural commodities		31	
Peas, dry		31	
Petroleum and products	10	150	52
Other and unclassified	10	150	52
Miscellaneous	<u>24</u>	4	$\frac{2}{2}$
Paper and paper productsAll other and unclassified	7		
Total	225	376	205
WEST COAST CANADA TO EUROPE:			
Canned and refrigerated foods, miscellaneous	24	34	31
Chemicals and petroleum chemicals, miscellaneous	198	331	173
Coal and cokeGrains	2,103 664	1,446 877	766 665
Barley	354	483	272
Wheat	310	278	361
Other and unclassified	1.026	116	32
Lumber and products	1,926	2,304 1,064	$\frac{2,037}{886}$
Boards and planks	042	1,004	000

		Fiscal year	
	1985	1984	1983
WEST COAST CANADA TO EUROPE—Continued			
Lumber and products—Continued Plywood, veneers, composition board	192	171	175
Pulpwood	968	923	875
Other and unclassified	124	146	101
Machinery and equipment	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	3
Machinery and equipment, miscellaneous Minerals, miscellaneous	1,281	1,021	3 677
Asbestos	1	3	2
Sulfur	1,280	1,018	675
Nitrates, phosphates, and potash	<u></u>	1	18
Potash			14
FishmealOres and metals	49	1 55	4 87
Ores	21	17	30
Copper		6	12
Zinc	4	4	6
Other and unclassified	17	7	12
Metals	28	38	57
Aluminum		1	· · · · · · · · · · · · · · · · · · ·
Lead	14	17	37
Zinc	14	19	15
Other and unclassified		1 294	4
Other agricultural commodities	80 68	294	<u>57</u>
Oilseeds Other and unclassified	12	3	6
Petroleum and products	86	118	86
Petroleum coke	66	103	84
Other and unclassified	20	15	2
Miscellaneous	547	346	610
Paper and paper products	305 242	157 189	357 253
Total	6,958	6,827	5,210
WEST COAST CANADA TO AFRICA:			
Chemicals and petroleum chemicals, miscellaneous			26
Coal and coke		35	50
Grains	547	659	53
Wheat	547	659 299	53 312
Lumber and products Boards and planks	<u>264</u> 253	261	265
Pulpwood	11	29	18
Other and unclassified		9	29
Minerals, miscellaneous	1,189	855	786
Sulfur Nitrates, phosphates, and potash	1,189 15	855 13	786 7
Potash	15	13	7
Miscellaneous	55	38	2
All other and unclassified	55	38	2
Total	2,070	1,899	1,236
WEST COAST CANADA TO ASIA (MIDDLE EAST):			
Grains	172		
Barley	67		
Wheat	105		
Lumber and products	13	• • • • • • •	

		Fiscal year	
	1985	1984	1983
WEST COAST CANADA TO ASIA (MIDDLE EAST)—Continued			
Lumber and products—Continued	13		2
Other and unclassified	82		123
Sulfur	82		123
Total	267		125
		====	
WEST COAST CENTRAL AMERICA TO EAST COAST UNITED STATES:			
Canned and refrigerated foods	34	114	162
Refrigerated foods	34	114	162
Bananas	32	114	161
Other and unclassified	2		150
Minerals, miscellaneous	58	203	150
Salt	58	194	150
Sulfur Nitrates, phosphates, and potash	26	4	9
Fishmeal	26	4	9
Ores and metals, miscellaneous			23
Other agricultural commodities	558	666	548
Coffee	27	33	43
Molasses	188 341	215 416	189 316
Sugar Other and unclassified	2	2	310
Petroleum and products	46	6	5
Miscellaneous	39	6	12
Oil, vegetable			7
All other and unclassified	39	6	5
Total	761	999	909
WEST COAST CENTRAL AMERICA TO EAST COAST CENTRAL			
AMERICA:		43	21
Grains, miscellaneous	310	85	143
Phosphates	302	87	143
Fertilizer, unclassified	8	2	
Petroleum and products	7	17	
Diesel oil	5	16	
Gasoline	1	1	• • • • • • •
Kerosene	7	12	2
All other and unclassified	7	12	2
Total	324	159	166
WEST COAST CENTRAL AMERICA TO WEST INDIES: Canned and refrigerated foods	78	24	63
Refrigerated foods, miscellaneous	78	24	63
Lumber and products	23	22	41
Boards and planks	23	19	41
Other and unclassified		3	43
Other agricultural commodities		19	43 29
MolassesOther and unclassified	6 20	19	14
Petroleum and products, miscellaneous	29	123	
Miscellaneous	22	16	21
All other and unclassified	22	16	21
Total	178	204	168

	_	Fiscal year	
	1985	1984	1983
WEST COAST CENTRAL AMERICA TO EUROPE:	0.0	00	120
Canned and refrigerated toods	89	99	$\frac{120}{120}$
Refrigerated foods	89		101
Bananas	43 46	76 23	101
Other and unclassified	6		20
Chemicals and petroleum chemicals, miscellaneous Grains, miscellaneous		13	
Lumber and products	9	9	16
Boards and planks	9	9	15
Other and unclassified		15	1 15
Manufactures of iron and steel, miscellaneous	• • • • • • •	4	13
Nitrates, phosphates, and potash		4	
Fertilizers, unclassified			1
Ores and metals, miscellaneous	141	205	183
Ores	140	201	153
Copper	135	196	125
Other and unclassified	5	5	28
Metals	1	4	$\frac{30}{25}$
Copper		4	25 5
Other and unclassified Other agricultural commodities	340	169	257
Other agricultural commodities		5	4
Beans, edible		6	
Coffee	123	79	77
Cotton, raw	69 59	46 5	45 86
Molasses	39 7	14	6
Oilseeds	37	7	17
Sugar	45	7	22
Miscellaneous	75	99	124
Seeds excluding oilseeds	2	3	5
Textiles	1	· · · · · i	1
Tobacco and manufactures	7 i	95	118
Total	660	613	736
WEST COAST CENTRAL AMERICA TO AFRICA:	6		1
Canned and refrigerated foods	6		
BananasOther and unclassified			1
Lumber and products, miscellaneous	11	9	2
Manufactures of iron and steel		54	64 35
Other agricultural commodities	36	<u>66</u>	19
Coffee	1	11	6
Peas, dried	29	55	
Other and unclassified			10
Miscellaneous	1		2
All other and unclassified	1	1	2
Total	54	130	104
WEST COAST SOUTH AMERICA TO EAST COAST UNITED			
STATES:			
Canned and refrigerated foods	737	561	504
Canned foods, miscellaneous	18	24	10
Refrigerated foods	719	537	494

[Thousands of long tons] Fiscal year WEST COAST SOUTH AMERICA TO EAST COAST UNITED STATES-Continued Canned and refrigerated foods-Continued Fish..... Fruit, excluding bananas..... Refrigerated, miscellaneous..... Chemicals and petroleum chemicals, miscellaneous Lumber and products Boards and planks Other and unclassified Manufactures of iron and steel, miscellaneous Minerals miscellaneous..... Soda and sodium compounds Other and unclassified Nitrates, phosphates, and potash..... Fishmeal.... Nitrate of soda Potash Ores and metals Iron...... Tin Zinc..... Metals.... Lead Zinc......... Other and unclassified Other agricultural commodities Beans, edible Cocoa and cacao beans Cotton, raw Molasses..... Sugar Petroleum and products 4,596 5,603 5,076 3,724 Crude oil 2.686 3.567 Fuel oil, residual..... 1,743 1,725 1,224 Diesel oil Other and unclassified Miscellaneous Oil, fish Paper and products Textiles.... 7,660 8,174 7,638 WEST COAST SOUTH AMERICA TO EAST COAST CANADA. Nitrates, phosphates, and potash..... Nitrate of soda Ores and metals, miscellaneous Other agricultural commodities

		Fiscal year	
WEST COAST SOUTH AMERICA TO EAST COAST UNITED	1985	1984	1983
STATES—Continued			
Other agricultural commodities—Continued Molasses		19	
Sugar		12	39
Other and unclassified		1	1
Minerals, miscellaneous	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	30
Salt	• • • • • • •		30
Petroleum and products	• • • • • •	<u> 52</u> 52	55
Crude oil	6	4	33
All other and unclassified	6	4	1
Total	107	168	188
WEST COAST SOUTH AMERICA TO EAST COAST CENTRAL			
AMERICA:			
Manufactures of iron and steel, miscellaneous	2	5	21
Ores and metals	8	52	24
Metals, miscellaneous	5	5	11
Ores, miscellaneous	3 38	47	13 12
Other agricultural commodities		2	12
Sugar Other and unclassified	38	2	12
Petroleum and products	662	939	821
Crude oil	629	939	821
Other and unclassified	33		
Miscellaneous	3	1	12
Paper and paper products	3		2 10
Total	713	999	890
			= 070
WEST COAST SOUTH AMERICA TO EAST COAST SOUTH AMERICA:			
Canned and refrigerated foods	7	5	5
Canned foods, miscellaneous	2		
Fruit refrigerated, excluding bananas	1	· · · · · · · · · · · · · · · · · · ·	3
Other and unclassified	4 11	5 13	2 3
Lumber and products, miscellaneous	28	75	44
Manufactures of iron and steel, miscellaneous		1	1
Ores and metals, miscellaneous	82	51	54
Other agricultural commodities	110	40	27
Beans, edible	2 80	23 16	26
Other and unclassified	28	10	1
Petroleum and products	995	922	1,537
Crude oil	905	907	1,528
Gasoline	90	10	9
Other and unclassified	88	5 44	31
Oil, fish	1	4	
Oil, vegetable	16	6	3
Paper and paper products	17	15	9
All other and unclassified	54	19	19
Total	1,321	1,151	1,702
WEST COAST SOUTH AMERICA TO WEST INDIES:	5.4	4.4	= (
Canned and refrigerated foods	54	44	56
Canned foods, miscellaneous	1	4	

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

		Fiscal year	
Wass Cover Courty Avenue, to What Ivores Continued	1985	1984	1983
WEST COAST SOUTH AMERICA TO WEST INDIES—Continued Canned and refrigerated foods—Continued			
Fish, refrigerated	53	40	55
Other and unclassified	• • • • • • •		12
Grains, miscellaneous Lumber and products	61	26	27
Boards and planks	57	22	27
Other and unclassified	4	4	
Nitrates, phosphates, and potash	72	9	12
FishmealPhosphates	20 52	9	12
Other agricultural commodities			18
Sugar			16
Other and unclassified			2
Petroleum and products	3,818	3,392	2,059
Crude oil	2,875 44	2,624	1,650 28
Fuel oil, residual	899	730	343
Other and unclassified		38	38
Miscellaneous	10	27	27
All other and unclassified	10	27	27
Total	<u>4,015</u>	3,500	2,211
WEST COAST SOUTH AMERICA TO EUROPE: Canned and refrigerated foods	1,018	699	723
Canned foods, miscellaneous	15	24	25
Refrigerated foods	1,003	675	698
Bananas	307	238	278
Fish, refrigerated	506 140	297 139	293
Fruit, excluding bananas Other and unclassified	50	139	116 11
Chemicals and petroleum chemicals, miscellaneous	5	ġ	9
Coke, coal type		45	3
Grains, miscellaneousLumber and products	123	45 118	37 172
Boards and planks	22	13	7
Pulpwood	96	98	153
Other and unclassified	5	7	12
Manufactures of iron and steel	1,171	11 733	895
Ammonium compounds		23	
Fertilizers, unclassified			11
Fishmeal	1,073	646	737
Nitrate of soda	95 3	64	147
Ores and metals	1,664	1,415	1,564
Ores	918	759	730
Copper	176	111	103
Iron	112	101	53 64
Lead	100 22	101 21	30
Zinc	420	500	448
Other and unclassified	88	26	32 834
Metals	<u>746</u> 581	<u>656</u> 563	667
Lead	52	34	41
Zinc	92	40	54
Other and unclassified	21	19	72

(Fiscal year	
	1985	1984	1983
WEST COAST SOUTH AMERICA TO EUROPE—Continued Other agricultural commodities	149	209	357
Cocoa and cacao beans	11	12	9
Coffee	111	143	189
Cotton, raw	21	11 13	30
Oilseeds		5	1
Sugar		12 10	107 16
Wool, raw Other and unclassified	6	3	5
Petroleum and products	106	• • • • • • •	3
Fuel oil, residual	86 20	• • • • • • •	3
Other and unclassified	490	346	253
Groceries, miscellaneous	6	12	6
Oil, fish	106	109 13	54 5
Paper and paper products	1 1	13	
Textiles	7	7	9
All other and unclassified	369	204	179
Total	<u>4,726</u>	<u>3,585</u>	4,016
HAWAII TO EAST COAST UNITED STATES: Other agricultural commodities	168	129	196
Sugar	168	129	196
Miscellaneous	7	12	19
All other and unclassified	7	12	19
Total	175	141	215
OCEANIA TO EAST COAST UNITED STATES:			
Canned and refrigerated foods	324	311	378
Refrigerated foods	324	311	378
Dairy products	20		1 61
Meat	14	8 23	12
Other and unclassified	290	280	303
Chemicals and petroleum chemicals, miscellaneous Manufactures of iron and steel, miscellaneous	1 22	10 64	9 62
Ores and metals	1,492	1,175	418
Ores	1,488	1,156	376
Alumina/bauxite	894	611 53	31
Lead	5	5	53
Manganese	57	61	47
Other and unclassified	532 4	426 19	245 42
Aluminum metal			25
Lead metalZinc	4	11	11
Other and unclassified		8	1 5
Other agricultural commodities	400	445	311
MolassesSugar	273 127	203 242	101 210
Petroleum and products	1127	242	100
Fuel oil, residual	32	160	100
Lubricating oil	30 50	52 81	
Other and unclassified	30	01	

[Thousands of long tons]		Fiscal year	
	1985	1984	1983
OCEANIA TO EAST COAST UNITED STATES—Continued	170	202	272
Miscellaneous	379	382	372
All other and unclassified	379	382	372
Total	2,730	2,628	1,650
OCEANIA TO EAST COAST CANADA:	40	22	5.5
Canned and refrigerated foods	40	33	<u>55</u>
Refrigerated foods	$\frac{40}{40}$	33	55
Other and unclassified	24	33 76	25
	24	76	25
Ores, miscellaneous Other agricultural commodities	298	347	216
Sugar	298	347	216
Miscellaneous	56	35	54
All other and unclassified	56	35	54
Total	418	491	350
OCEANIA TO EAST COAST CENTRAL AMERICA:			
Canned and refrigerated foods, miscellaneous	37	28	12
Coal	:	22	
Ores and metals	136	37	86
Manganese ore	93	22	39 47
Ores, miscellaneous	43	15 4	6
Miscellaneous	• • • • • • • • • • • • • • • • • • • •	4	6
All other and unclassified	173	91	104
Total			====
OCEANIA TO WEST INDIES:	93	143	74
Canned and refrigerated foods	8	10	4
Canned foods, miscellaneous	85	133	70
Dairy products	14	6	5
Fish, refrigerated	56	113	50
Meat		5	8 7
Other and unclassified	15 47	39	/
Petroleum and products	13	19	ii
All other and unclassified	13	19	11
Total	153	201	85
OCEANIA TO EUROPE: Canned and refrigerated foods	160	186	185
Canned foods, miscellaneous	5		
Refrigerated foods	155	186	185
Dairy products	2		6
Fruit, excluding bananas	123 20	92 2	53
Meat	10	92	126
Other and unclassified	227	115	
Grains, miscellaneous		74	:
Ores and metals	37	72	155
Ores	29	58	79
Alumina/bauxite		38	71
Copper Other and unclassified	29	20	8
Metals	8	14	76
Copper			35
Zinc			15

		Fiscal vear	
	1985	1984	1983
OCEANIA TO EUROPE—Continued Ores and metals—Continued			
Other and unclassified	8	14	26
Other agricultural commodities	224	271	251
Copra		7	11
MolassesSkins and hides	30	20	69 1
Sugar	184	236	166
Wool, raw	10	8	4
Miscellaneous	247	287	296
Groceries, miscellaneous Oil, coconut	4	8	1 5
Oil, vegetable.	7	26	24
Tallow	16	32	5
All other and unclassified	220	221	261
Total	895	1,005	<u>887</u>
ASIA TO EAST COAST UNITED STATES:	126	176	20.5
Canned and refrigerated foods	135	175	205
Canned foods	- 50 45	90 85	45
Fruit	43	1	6
Other and unclassified	5	5	13
Refrigerated foods	85	85	141
Fruit, refrigerated	85	9 76	78
Other and unclassified	206	69	63 108
Coal and coke	447	183	
Lumber and products	745	693	641
Boards and planks	150	58	37
Plywood, veneers, composition board Other and unclassified	541 54	591 44	585 19
Machinery and equipment	1,519	1,369	1,210
Agricultural machinery	17	24	11
Automobiles, trucks, accessories and parts	1,369 88	1,275 45	1,131
Construction machinery and equipment Electrical machinery and apparatus	9	12	13
Other and unclassified	36	13	36
Manufactures of iron and steel	4,596	4,931	2,905
Angles, shapes, and sections	399 64	277	348 59
Nails, tacks, and spikes	1.624	102 1.852	1,035
Tubes, pipes, and fittings	741	951	564
Wire, bars, and rods	221 1,547	320	174 725
Other and unclassified	1,347	1,429	2
Fertilizers, unclassified	2	2	2
Ores and metals	1,418	1,054	901
Ores	1,344	1,018	835
Alumina/bauxite	168	143	43
Chrome	49	28 7	11
Other and unclassified	1,127	840	780
Metals	74	36	66
Aluminum	43	30	29
Copper	2	1	7
Other and unclassified	28	5	29

		Fiscal year	
	1985	1984	1983
ASIA TO EAST COAST UNITED STATES—Continued Other agricultural commodities	348	532	323
Coffee	3	5	8
Copra	2	3	Ĭ
Rubber, raw	94	92	56
Sugar	248 1	428 4	251 7
Other and unclassified	235	676	141
Miscellaneous	5,241	4,660	3,611
Bricks and tile	8	3	1
Clay, fire and china	25	l 1	2 1
Fibers, plant		2	4
Groceries, miscellaneous	6	10	7
Oil, coconut	32	43	63
Oil, vegetable Porcelainware	37	5 2	32
Rubber, manufactured	26	33	41
Textiles	5	16	6
All other and unclassified	5,102	4,544	3,452
Total	14,892	14,344	10,047
ASIA TO EAST COAST CANADA:	4	5	1
Canned and refrigerated foods, miscellaneous Machinery and equipment	4	3	6
Other and unclassified	1		6
Manufactures of iron and steel	26	7	30
Plates, sheets, and coils	15		10
Tubes, pipes, and fittings	4	4	9 2
Wire, bars, and rods Other and unclassified	7	3	9
Ores and metals, miscellaneous	97	55	6
Ores	89	55	6
Alumina/bauxite	76	55	6
Other and unclassified	13		• • • • • • •
MetalsOther and unclassified	8	******	• • • • • • • •
Miscellaneous	296	327	278
All other and unclassified	296	327	278
Total	424	394	321
ASIA TO EAST COAST CENTRAL AMERICA:			
Chemicals and petroleum chemicals, miscellaneous			70
Grains, miscellaneous	42	21	• • • • • • •
Machinery and equipment, miscellaneous	41	8	14
Ores and metals, miscellaneous			58
Ores, miscellaneous			58
Miscellaneous	9	15	27
All other and unclassified	9	15	27
Total	95	47	169
ASIA TO EAST COAST SOUTH AMERICAL		2	4
Chemicals and petroleum chemicals, miscellaneous Coal and coke	33	2	4
Grains, miscellaneous	48	21	
Machinery and equipment	39	42	
Automobiles, trucks, accessories and parts	14	16	19 32
Construction machinery and equipment	5	6	32

	_	Fiscal vear	
	1985	1984	1983
ASIA TO EAST COAST SOUTH AMERICA—Continued			
Machinery and equipment—Continued Electrical machinery and apparatus	12	9	11
Other and unclassified	8	11	10
Manufactures of iron and steel	223	161	230
Plates, sheets, and coils	62	72	91
Tubes, pipes, and fittings	128	46	86
Other and unclassified	33 4	43	53
Fertilizers, unclassified	4	• • • • • • •	4
Ores and metals	26	15	32
Ores	20	2	22
Other and unclassified	20	2	22
Metals	6	13	10
Tin, including tinplate	1	6	3
Other and unclassified Other agricultural commodities	5 2	7	7
•	$\frac{2}{2}$	$\frac{3}{3}$	4
Rubber, raw	_		2
Other and unclassified			$\frac{2}{2}$
Miscellaneous	176	157	186
Resin	1	1	1
Rubber, manufactured	3	1	6
TextilesAll other and unclassified	1 171	126	176
	551	136 380	<u>176</u> 534
Total			======
ASIA TO CRISTOBAL, R.P.: Machinery and equipment	7	12	4
Electrical machinery and apparatus		2	
Other and unclassified	6	10	3
Manufactures of iron and steel, miscellaneous	26	22	20
Miscellaneous	100	93	81
TextilesAll other and unclassified	100	1	2
	100	92	79
Total	133	127	105
ASIA TO WEST INDIES: Canned and refrigerated foods	51	50	43
Canned foods, miscellaneous	33	24	30
Refrigerated foods	18	26	13
Fish, refrigerated	16	24	13
Other and unclassified	2	2	
Chemicals and petroleum chemicals, miscellaneous	13	10	7
Coal and cokeGrains	18 118	8 94	21 116
Corn	1	6	
Rice	104	83	106
Soybeans	10	5	10
Grains, miscellaneousLumber and products	3 196	184	133
Boards and planks	165	160	96
Plywood veneers	13	13	19
Pulpwood	10	10	12
Other and unclassified	8	192	150
Machinery and equipment	<u>232</u> 193	182	158 144
Automobiles, trucks, accessories and parts	193	101	144

		Fiscal year	
	1985	1984	1983
ASIA TO WEST INDIES—Continued			
Machinery and equipment—Continued	15	5	2
Electrical machinery and apparatus Other and unclassified	24	16	3 11
Manufactures of iron and steel	118	124	152
Plates, sheets, and coils	63	67	70
Tubes, pipes, and fittings	24	32	30
Other and unclassified	31	25	52
Nitrates, phosphates and potash	2	33	
Fertilizers, unclassified	1	31	
Fishmeal	1	2	
Ores and metals	54	14	8
Metals, miscellaneous	23	7	4
Ores, miscellaneous	31	7	4
Petroleum and products	119	121	
Diesel oil		4	
Gasoline	119	117	
Miscellaneous	400	291	316
Bricks and tile	2	3	3
Glass and glassware	3	2	5
Groceries, miscellaneous	2 12	13	1 14
Paper and paper products Porcelainware	12	13	16
Resin	i		i
Rubber, manufactured	4	4	i
Textiles	11	6	6
All other and unclassified	364	262	282
Total	1,321	1,111	954
Asia to Europe:			
Canned and refrigerated foods	16	4	15
Chemicals and petroleum chemicals, miscellaneous	10	3	3
Coke, coal type			32
Machinery and equipment	2	4	3
Automobiles, trucks, accessories and parts	2	2	3
Other and unclassified		2	
Ores and metals, miscellaneous	3	2	
Other agricultural commodities	• • • • • • • • • • • • • • • • • • • •	••••	23
Sugar raw			23
Petroleum and products, miscellaneous	101	83	85
	4		
Oil, coconut	44	24 37	19 31
Oil, fish	5	2	31
All other and unclassified	48	20	35
Total	133	100	161
10.01		100	

Table 12.—Principal Canal Commodities by Direction—Fiscal Year 1985

[Long tons]

	Ast at	D 6	
Commodity	Atlantic to Pacific	Pacific to Atlantic	Total
Ammonium compounds	652,535	14,831	667,366
Asbestos	20,893 74,178	2,084	22,977
Asphalt	341,043	1,257 1,589,005	75,435 1,930,048
Bananas	341,043	883,198	883,198
Barley	54,836	421,135	475,971
Beans, edible	6,852	56,802	63,654
Benzene	5,955	68,644	74,599
Borax	252	415,376	415,628
Bricks and tile	40,764	13,184	53,948
Canned food products	72,762	181,748	254,510
Carbon black	28,745	4,531	33,276
Caustic soda	713,583	4,748	718,331
Cement	254,817 802,744	5,452 69,089	260,269 871,833
Chemicals, various	2,304,690	967,018	3,271,708
Clay, fire and china	416,670	41,871	458,541
Coal and coke (excluding petroleum coke)	8,552,849	2,929,159	11,482,008
Cocoa and cacao beans	2,654	76,411	79,065
Coffee	12,337	413,825	426,162
Coke, petroleum	663,801	1,552,755	2,216,556
Copra and coconuts	0.132.134	11,103	11,103
Cotton	8,132,134	60,182	8,192,316
Cotton, raw	12,477 1,890,776	145,839 67,468	158,316 1,958,244
Fibers, plant	9,015	5,771	14,786
Fishmeal	1,688	1,297,407	1,299,095
Flour, wheat	122,116	574	122,690
Gasoline	1,206,354	658,946	1,865,300
Glass and glassware	20,310	4,512	24,822
Grains, various	133,106	3,645	136,751
Groceries, various	36,444	59,633	96,077
Infusorial earth	2,748	3,105	5,853
Jet fuel	477,932	11,500	489,432
Kerosene Liquefied gas	44,786 712,686	538 27,575	45,324 740,261
Liquors	23,175	21,270	44.445
Lumber and products (excluding pulpwood)	68,506	4,171,965	4,240,471
Machinery, agricultural	54,107	23,135	77,242
Machinery, construction	78,969	113,338	192,307
Machinery, electrical	36,282	39,069	75,351
Machinery, various	45,632	58,103	103,735
Manufactures of iron and steel	2,724,803	5,092,070	7,816,873
Metal, aluminum	256,134	73,669	329,803
Metal, copper	76,732	817,628	894,360
Metal, iron	133,999 2,317,810	7,090 5,080	141,089 2,322,890
Metals, various (including tinplate)	81,782	342.771	424,553
Molasses	4,896	780,604	785,500
Nitrate of soda	34,230	239,848	274,078
Oats	37,718	828	38,546
Oil, coconut	1,792	54,465	56,257
Oil, crude	3,396,864	9,028,521	12,425,385
Oil, diesel	1,093,975	754,612	1,848,587
Oil Jube	269 609,583	173,664	173,933
Oil, lubeOil, residual fuel	2,378,333	219,782 3,629,019	829,365 6,007,352
Oil, vegetable	190,142	150,756	340,898
Oilseeds	66,826	124.692	191,518
Ore, alumina/bauxite	227,281	1,144,973	1,372,254
Ore, copper	13,164	414,601	427,765

Table 12.—Principal Canal Commodities by Direction—Fiscal Year 1985— Continued

[Long tons]

Commodity to Pacific to Atlantic	Total
Ore, iron 107,629 328,685	436,314
2100, 1000, 1	,383,773
- Production of the control of the c	,314,763
Peas, dry	63,232
Petroleum products, various	230,116
	,140,623
Potash	521,064
	,985,915
Refrigerated food products (excluding	
bananas)	,522,850
Resin	315,512
Rice	609,622
Rubber, manufactured	54,747
Rubber, raw	99,795
Salt 76,664 524,279	600,943
Seeds, excluding oilseeds	12,381
Slag, clinkers, and dross	22,235
Soda and sodium compounds	306,829
	.268,805
	,391,765
	.072,560
	.067,111
Tallow 66,886 56,595	123,481
Textiles	103,069
Tobacco and manufactures	7,627
Toluene	72,224
Wax, paraffin	17,970
	.398,044
Wool, raw	17.025
1,001, 141, 1111111111111111111111111111	.152.838
All Other 6,420,661 6,725,757 17	,152,050
Total	,643,243

Other Statistics

Table 13.—Water Supply and Usage

	Fiscal	of u	ntage isage l year	
	1985	1984	11985	1984
MADDEN AND GATUN LAKE WATER SUPPLY:	(Acre-	(Acre-Fee1)		
Total runoff, Madden Lake Basin	1,866,707	2,160,415		
	45,164	44,821		
Evaporation from Madden Lake				
Municipal water use Madden Lake	83,275	81,865		
Available for Madden Lake usage	1,995,146	2,033,729		
Total runoff, Gatun Lake (area below Madden)	2,160,585	2,775,947		
Subtotal	4,155,731	4,809,676		
Evaporation from Gatun Lake	453,739	433,455		
Available for Gatun watershed usage	3,701,992	4,376,221		
MADDEN LAKE WATER USAGE:				
Hydroelectric power	1,648,530	1,457,438	82	81
Leakage	14,479	14,519	1	ı
Spillway discharge	256,589	241,093	13	13
Municipal	83,275	81,865	4	5
Total Madden Lake usage	2,002,873	1,794,960	100	100
GATUN LAKE WATER USAGE:				
Hydroelectric power	1,089,761	1,711,708	29	43
Lockages, Gatun and Pedro Miguel	1,948,325	1,876,653	3	47
Municipal and other usages	100,173	94,975	3	2
Spillway discharge	565,909	303,007	15	2 8
Total Gatun Lake usage	3,704,168	3,986,343	100	100

Table 14.—Dredging Operations—Fiscal Year 1985

(Cubic yards)			
	Earth	Rock	Total
Pacific District Central District Atlantic District	943,259	383,285	1,326,544
		383,285	1,326,544

Table 15.-Electrical Power Generated

(Gigawatt hours) †

	Fiscal year	
	1985	1984
Generation: Gatun hydro station	67 179 283	93 162 347
Gross generated by Panama Canal Commission	529 (13)	602 (13)
Net total generated by Panama Canal Commission	516	589
Power Purchases: Through interconnect from Panama Net Energy charged for Wheeling	4 10	2 8
Power Sales: Through interconnect to Panama	(33)	(66)
Net power generated and purchases for Canal area only Other power generated by military for own use	497	533
Total Canal area requirements	497	533
Power distributed to Comission's customers Distribution losses Peak load (thousands of kilowatts) Date of peak load	462 35 81 May 3	488 45 84 Feb. 27
Canal area load factor ²	70.0%	72.6%

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

Table 16.—Fire Statistics

	Fiscal Year 1985		Fiscal Year 1984	
	Num-		N _{um} -	
	ber of	Property	ber of	Property
	fires	loss	fires	loss
PCC	93	\$89,910	86	\$168,887
Armed Forces	315	90,078	329	36,280
Private (including ships)	55	520,012	61	372,066
R.P.*	<u>275</u>	19,295	<u> 104</u>	50,830
Total	738	\$719,295	_580	_\$628,063
Value of Property involved in ship fires		\$216,160,2	38	\$103,418,187
Value of Property involved in other fires				90,789,357
Calls for emergency aid **				2,729
Total number of calls (all types) responded to		4,7	56	3,453

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



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