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## PANAMA CANAL COMMISSION

# ANNUAL REPORT

FISCAL YEAR ENDED SEPTEMBER 30, 1992

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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 1992. This marks the thirteenth year of successful operation under the Panama Canal Treaty. The Canal organization also celebrated the seventy-eighth anniversary of the opening of the waterway.

This year most major elements of Canal traffic and tolls revenue registered slight declines from prior year levels, primarily due to a return to more normal trade patterns following the end of the Persian Gulf crisis, and the economic slowdown affecting the United States and Japan. Oceangoing commercial transits declined by one percent and average ship size fell, resulting in a 1.5 percent drop in Panama Canal net tonnage. Correspondingly, tolls revenue declined 1.6 percent to \$368.7 million from the \$374.6 million collected in the prior year. Although the average size of transiting vessels in terms of Panama Canal net tonnage declined, transits by vessels in the 100-foot beam and over category, the largest ships the Canal can accommodate, increased to a record 3,013, or nearly 24 percent of total oceangoing transits. Average Canal Waters Time for transiting vessels remained below the agency's 24 hour standard, at 22.1 hours.

Significant investments continued to be made in Canal maintenance, modernization and improvement programs. These included the near completion of the Pacific entrance widening program for improved navigational safety; accomplishment of a four-phase overhaul of rising stem and cylindrical valves at Miraflores Locks; final installation of highly

durable flat fenders at all locks; initiation of dry excavation, under contract, in connection with the major multi-phase program to widen Gaillard Cut; major overhaul of the floating crane Hercules and the dipper dredge Christensen; and acquisition of three new 53-foot aluminum hull launches.

In the spirit of the Panama Canal treaty, advances were also made in the development and placement of Panamanian personnel at all levels of the agency. Of notable importance has been the ongoing training of Panamanian Canal pilots who by year-end numbered 100, or 43 percent of the pilot force. Overall, Panamanians comprise nearly 88 percent of the Canal's total permanent work force.

I wish to commend all Canal employees for their praiseworthy performance. Their commitment and dedication have been exemplary and will unquestionably contribute to the future success of the organization and the continued confidence of world shipping using the waterway.

GILBERTO GUARDIA F.

Administrator

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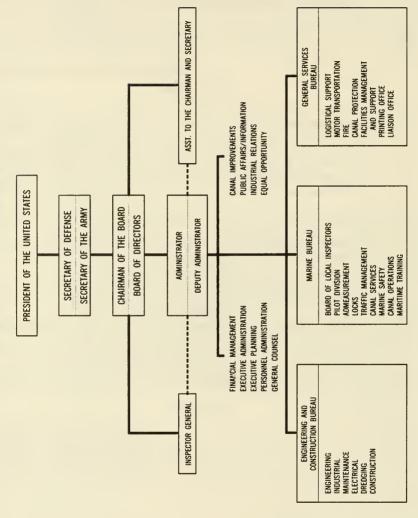
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# PANAMA CANAL COMMISSION



# 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 appointed by the President with the advice and consent of the Senate. Four members are nationals of the Republic of Panama who are proposed by the Republic of Panama for appointment by the President.

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, at which time the Republic of Panama will assume full responsibility for the Canal.

The operation of the waterway is conducted on a self-financing basis. 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 Revolving Fund. The resources in this fund are available for continuous use and serve to finance Canal operating and capital programs which are reviewed annually by the Congress.

### 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

2 INTRODUCTION

500 feet. Navigable channel depth can vary according to the amount of water available in Canal storage areas; however, the normal permissible transit draft is 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 or opposite direction.

Since August 15, 1914, the official date of its opening, the Panama Canal has been serving world trade. Through this fiscal year, a total of 745,932 vessels of all types have transited with 631,429 or 84.6 percent of the total being of the oceangoing commercial class.

### TOLL RATES

Toll rates during FY 1992 were: (a) on merchant vessels, Army and Navy transports, hospital ships, supply ships, and yachts, when carrying passengers or cargo, \$2.01 per net vessel ton of 100 cubic feet of actual earning capacity, as determined in accordance with the "Rules of Measurement of Vessels for the Panama Canal;" (b) on such vessels in ballast, without passengers or cargo, \$1.60 per net vessel ton; and (c) on other floating craft, \$1.12 per ton of displacement. These rates have been in effect since October 1, 1989.

A 9.9 percent increase in toll rates was approved to take effect October 1, 1992.

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 1992**

Honorable MICHAEL P. W. STONE
Chairman, Board of Directors
Panama Canal Commission
Washington, D.C.
Honorable ALFREDO N. RAMIREZ
Panama, Republic of Panama
Honorable CECILIA A. ALEGRE

Panama, Republic of Panama

Honorable WALTER J. SHEA

Annapolis, Maryland

Honorable Luis A. Anderson

Mexico, D.F., Mexico

Honorable Joaquin J. Vallai

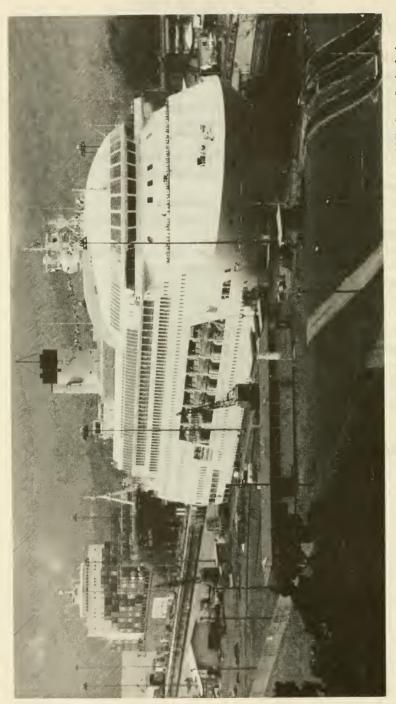
Mexico, D.F., Mexico
Honorable JOAQUIN J. VALLARINO, Jr.
Panama, Republic of Panama
Honorable William E. Carl
Corpus Christi, Texas
Honorable JOHN J. DANII OVICH

Honorable JOHN J. DANILOVICH London, England

### OFFICIALS IN THE REPUBLIC OF PANAMA

### OFFICIAL IN WASHINGTON, D.C.

Assistant to the Chairman and Secretary . . . . . MICHAEL RHODE, Jr.



The luxury cruise ship REGAL PRINCESS, registering 63,841 Panama Canal net tons, is visible in the west lane of Miraflores Locks during a southbound transit. The vessel paid a record toll of \$128,320.41 on April 23, 1992. The Panamax-size containership EVER GIVEN can be seen transiting in the east lane. Nearly 160 million long tons of cargo passed through the Panama Canal this fiscal year.

# Chapter I

### CANAL TRAFFIC

### **TRAFFIC**

Most major elements of Canal traffic and tolls revenue declined slightly in fiscal year 1992 due to a return to more normal traffic patterns, following the end of the Persian Gulf War, and the economic slowdown affecting the U.S. and Japan.

A total of 12,636 oceangoing vessels, or an average of 34.5 daily, transited the waterway, declining 1.0 percent from the 12,763 transits or 35 daily registered in the prior year. Transits by commercial vessels totaled 12,454, 0.9 percent less than the 12,572 transits reached in fiscal year 1991. Oceangoing transits by vessels owned or operated by the U.S. Government declined to 167, falling 3.5 percent from the 173 transits of the previous year. Free Colombian vessels accounted for 15 transits in fiscal year 1992 versus 18 in fiscal year 1991.

A decline was also experienced in the average Panama Canal net tonnage of transiting vessels, although transits by the largest vessels capable of passing through the waterway increased to an all-time high. Transits by vessels with beams of 100 feet and over reached a record 3,013 or 23.8 percent of total oceangoing transits compared with 2,947 and 23.1 percent in fiscal year 1991. Those in the 80-foot beam and over category fell to 5,698 transits or 45.1 percent of total oceangoing transits from 5,825 and 45.6 percent in fiscal year 1991. Average ship size, in terms of Panama Canal net tonnage, declined 0.8 percent to 15,142 tons from 15,260 tons in the prior year.

The decline in transits and average ship size resulted in Panama Canal net tonnage of 190.2 million tons, a 1.5 percent drop from the 193.1 million tons registered in fiscal year 1991. Correspondingly, tolls revenue fell 1.6 percent to \$368.7 million from the \$374.6 million collected in fiscal year 1991.

Total cargo tonnage carried by transiting vessels decreased 2.2 percent to 159.6 million long tons from 163.2 million tons in fiscal year 1991. A number of commodities declined during the year including manufactures of iron and steel, phosphates, and ores and metals.

A two-year summary of the key elements of Canal traffic and tolls revenue is shown in the table below, followed by a more detailed description of cargo movements by trade route.

### COMPARATIVE HIGHLIGHTS OF OPERATIONS

	Fiscal Year	
	1992	1991
Oceangoing Transits:		10.570
Commercial	12,454	12,572
U.S. Government	167 15	173 18
Free		
Total	12,636	12,763
Daily Average	34.5	35.0
Small Transits:		
Commercial	1,260	1,079
U.S. Government	231	248
Free	21	18
Total	1,512	1,345
Total Cargo:		
Commercial	159,273,868	162,696,423
U.S. Government	341,337	516,130
Free	19	
Total	159,615,224	163,212,553
Total Panama Canal Net Tons and Reconstructed Displace-		
ment Tonnage	190,203,395	193,101,533
ment romage	170,200,070	1,0,101,000
Transit Revenue:		
Commercial Tolls	\$365,853,774	\$372,398,248
U.S. Government Tolls	2,808,731	2,226,489
Tolls Revenue	\$368,662,504	\$374,624,737
TOILS ACTUMENT TO THE PARTY OF	***************************************	<u> </u>
Harbor Pilotage, Tug, Launch, and Other Services	\$ 92,439,154	\$ 97,792,243
Total Transit Revenue	<u>\$461,101,658</u>	<u>\$472,416,980</u>

### COMMODITIES AND TRADE ROUTES

Fiscal year 1992 was characterized by declines in many commodities traversing the waterway. Commercial cargo dropped 2.1 percent to 159.3 million long tons from 162.7 million long tons in fiscal year 1991. The downturn was driven by a resumption of normal traffic patterns following the end of the Persian Gulf war and to the weakness affecting the U.S. and Japanese economies. Tonnage declines were experienced in manufactures of iron and steel, phosphates, ores and metals, refrigerated products, automobiles, chemicals and petroleum chemicals, minerals and grains. These losses were only partially offset by gains in a few trades such as petroleum products, lumber, coal, and containerized cargo.

Grains, constituting the largest tonnage utilizing the Canal, declined 0.5 percent to 32.7 million long tons from the 32.9 million tons registered during fiscal year 1991. The decline in this commodity group was due to lower corn and wheat exports from the U.S. to the Far East. Corn tonnage was down 4.5 percent to 14.4 million long tons from the 15.0 million long tons of the previous year, primarily due to a drop in corn shipments to Japan. After recovering modestly for three consecutive years, corn tonnage destined for Japan declined 8.9 percent to 10.1 million tons. Wheat, accounting for the second largest tonnage in the group, decreased 4.6 percent to 7.6 million long tons from the 8.0 million tons registered in fiscal year 1991, mainly as a result of lower shipments from the West Coast U.S./Canada to North Africa and from the U.S. East Coast to West Coast South America. The decline offset a modest increase in wheat exports to China, which had been falling for the last two years. Wheat tonnage destined for mainland China from the U.S. via the Canal increased 8.1 percent to 4.2 million tons. Sovbeans, the third most important component of the group, rose 14.7 percent to 7.2 million long tons from the 6.3 million tons of fiscal year 1991, sustained mainly by higher volumes of shipments from the U.S. to Japan and South Korea.

An upturn was registered in the petroleum and products commodity group. After falling to about 24.0 million long tons in fiscal year 1991, the commodity group increased 5.0 percent to 25.2 million tons in fiscal year 1992. The improvement registered in the commodity group was mostly fueled by high gains in residual fuel oil, diesel oil, jet fuel and petroleum coke. Those gains, however, were partially reduced by losses in gasoline, kerosene, and liquefied natural gas. Crude oil shipments were up marginally, increasing 0.5 percent from 8.2 million long tons in fiscal year 1991 to 8.3 million tons in fiscal year 1992. Increases in crude oil movements from Mexico and Venezuela to West Coast Central America were offset by declines in oil flows from Ecuador to the U.S. East Coast and West Indies. Ecuadorian oil flows have continued on a downward trend as a result of shifts in that country's export patterns and

limited production levels.

The important container trade rose 3.2 percent from 21.2 million long tons in fiscal year 1991 to a record high of 21.9 million tons in fiscal year 1992. The increase occurred despite the poor performance of the Canal's principal container trade—between the U.S. East Coast and the Far East which dropped 4.2 percent from prior year levels. Total U.S. containerized imports and exports via the Canal showed a decline, reflecting the effect of the U.S. and Japanese economic slowdowns, combined with the increased impact of the competition exerted by the U.S. intermodal movement, U.S. exports to the Far East through the Canal declined 6.7 percent to 6.1 million tons and imports from the Far East dropped 0.1 percent to 4.8 million tons. Although the container cargo on this route declined, the movement still accounts for over half of the Canal's container tonnage. The U.S. West Coast-Europe route, the second most important route in the container trade, remained flat at 2.7 million tons. The lackluster performance of these main routes contrasted with the gains displayed by most other smaller container routes, particularly the trade to and from West Coast South America. The movement between the U.S. East Coast and West Coast South America increased 29.9 percent to 1.8 million tons and trade between Europe and West Coast South America was up 23.7 percent to 1.4 million tons.

The nitrate, phosphates and potash commodity group, the fourth in importance, dropped 6.3 percent to 13.8 million long tons in fiscal year 1992. A 10.1 percent decrease in phosphates shipments, from 9.5 million long tons to 8.6 million tons, explains most of the group's decline. The downturn was evident in U.S. exports to the Far East and is attributed to a return to more normal trade patterns following the end of the Persian Gulf crisis. The U.S. East Coast - Far East route, the principal phosphate trade lane, showed a 4.9 percent decline to 5.8 million long tons, mainly as a result of a drop in shipments to China, Japan and South Korea. Shipments from the U.S. East Coast to West Coast Mexico were down 82.9 percent to about 100 thousand tons.

The lumber and lumber products commodity group reached record levels for the second consecutive year, increasing 3.5 percent to 9.9 million long tons from 9.5 million tons in fiscal year 1991. Significant gains in pulpwood tonnage account for the high performance of the commodity group. While lumber and lumber products, excluding pulpwood, declined 6.0 percent to 6.1 million tons, pulpwood shipments increased 22.6 percent to a record 3.8 million tons. Flows from the U.S. East Coast to the Far East rose significantly in both segments of the commodity group. Shipments on that route, excluding pulpwood, increased 19.2 percent to 3.1 million tons and pulpwood rose 85.7 percent to 1.3 million tons. West Coast Canada,

which in the past was the major source of lumber and products at the Canal, exhibited a decline for the fourth consecutive year, with shipments to Europe falling 23.6 percent to 1.2 million tons.

A steep decline was observed in the tonnage of ores and metals. The commodity group accounted for 9.6 million long tons, declining 15.9 percent from 11.4 million tons in fiscal year 1991. Both the ores and metals components of the group sustained declines. The poor performance of the ore segment was driven by a decline in shipments of aluminum/bauxite. despite a substantial improvement in copper ore flows. Alumina/bauxite fell 50.3 percent to 0.9 million long tons from 1.9 million tons, with shipments from Oceania to the U.S. East Coast almost disappearing as U.S. imports shifted to Caribbean suppliers. As a result, the ores group declined 12.2 percent to 6.3 million long tons in fiscal year 1992. The metals component of the group dropped 22.2 percent to 3.3 million tons, primarily induced by a decline in scrap metal, which fell 32.1 percent to 1.4 million tons. This downturn in the scrap metal trade was due to lower shipments on the U.S. East Coast - Far East trade, with tonnage destined for South Korea, the main recipient, showing a drop of 28.3 percent to 1.1 million tons.

The coal and coke trade showed an improvement relative to fiscal year 1991 levels, increasing 6.2 percent to 8.9 million tons. The main trade route, consisting of U.S. coal exports to the Far East, displayed an increase of 5.4 percent from 3.7 million long tons in fiscal year 1991 to 3.9 million long tons in fiscal year 1992, with shipments to Japan and Taiwan totaling 1.9 and 2.0 million long tons versus prior year flows of 1.5 and 1.8 million long tons, respectively. In contrast, coal exports exiting Hampton Roads en route to the Far East via the Cape of Good Hope on ships too large to transit the Canal declined from last year's record high of 7.4 million long tons to 6.8 million tons in fiscal year 1992. The second major coal route comprised of Canadian exports to Europe also showed an increase, with shipments up 8.3 percent to 2.6 million tons. Contributing to the overall tonnage gains of the commodity group was a 62.5 increase in coke shipments from the Far East to the U.S. East Coast which reached 1.3 million tons.

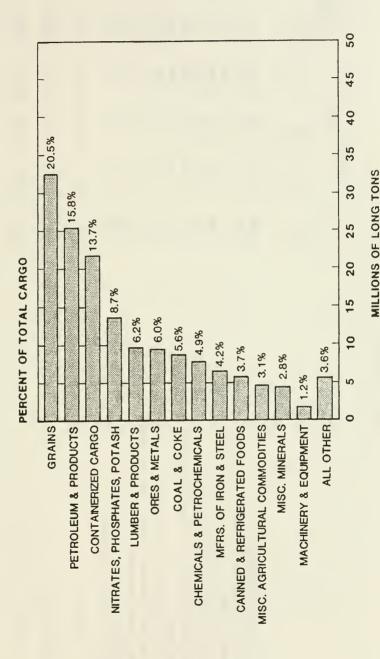
Although tapering off, the downward trend in the automobile trade which began in 1988 continued, with automobile tonnage dropping marginally by 0.9 percent from 1.6 million tons in fiscal year 1991 to 1.5 million long tons in fiscal year 1992. Increases in minor trade routes offset somewhat the continued decline exhibited by the principal automobile shipments, those emanating from Japan to the U.S. East Coast. Japanese automobile imports into the U.S. via the Canal dropped this year another 6.9 percent to 1.0 million tons. This compares with imports of 1.8 million tons in the Canal's automobile peak year of 1987.

A number of other commodity groups, such as refrigerated products, manufactures of iron and steel, chemicals and petrochemicals, other agricultural commodities, and miscellaneous minerals also registered declines during the year. The drop of 4.0 percent sustained by the refrigerated products group was almost entirely due to a drop in fish tonnage moved from the U.S. West Coast and West Coast South America to Europe. Fish shipments were down 40.8 percent, with this loss exceeding the slight gains registered in the bananas and fruits trades. Manufactures of iron and steel registered a substantial decline in fiscal year 1992, falling 19.2 percent to 6.7 million long tons. The decline in this commodity group was particularly evident in the movement from the U.S. East Coast to Asia, which was unusually high in the prior year. Shipments of manufactures of iron and steel on the important Far East to U.S. East Coast route also deteriorated. The downturn in the chemicals and petrochemicals group is explained, in part, by the return to more normal patterns in world trade following the end of the Persian Gulf crisis. The other agricultural commodities group declined 3.2 percent to 5 million tons with the main component, sugar, showing a drop of 9.7 percent. The miscellaneous minerals commodity group decreased 9.1 percent to 4.5 million long tons with sulfur tonnage accounting for a loss of 11.9 percent.

Trade between the Far East and the U.S. East Coast continued to dominate Canal traffic, accounting for 38.5 percent of total commercial cargo passing through the waterway compared with 38.6 percent in fiscal year 1991. Cargo moved on that trade route, however, registered a 2.4 percent decline to 61.3 million long tons from 62.8 million tons in the prior year, reflecting the effect of the recession in the U.S. and Japanese economies.

The following tables show the principal commodity groups moving in oceangoing commercial vessels during fiscal year 1992 and a comparison of the major trade routes in fiscal years 1992 and 1991.

PRINCIPAL COMMODITY GROUPS
TRANSITING THE CANAL
OCEANGOING COMMERCIAL CARGO FY 1992



# Major Voyage Trade Routes in Canal Traffic

		riscal Year	ear		Porco	100	
	1992	72	1661	Г	Increase or	se or	
					(Decrease,	(ase)	
	Panama	=	Panama		Panama		
	Canal	Long	Canal	Long	Canal	Long	
	Net	Tons	Net	Tons	Net	Tons	
	Tons	Cargo	Tons	Cargo	Tons	Cargo	
Trade Route	_	In thousands of long tons	f long tons]				
East Coast United States-Asia	080'99	61,302	67,920	62,822	(2.7%)	(2.4%)	
East Coast United States-West Coast South America	17,088	10,410	17,140	11,257	(0.3%)	(7.5%)	
Round the World	13,889	8,016	14,127	7,948	(1.7%)	0.9%	
Europe-West Coast South America	13,602	8,025	13,983	8,348	(2.7%)	(3.9%)	
Europe-West Coast United States/Canada	12,084	15,040	11,549	15,022	4.6%	0.1%	
East Coast United States-West Coast Central America	6,829	96£'9	5,920	5,785	15.4%	10.6%	
Europe-Asia	6,646	4,614	6,672	4,684	(0.4%)	(1.5%)	
East Coast United States/Canada-Oceania	4,588	5,144	5,215	961'9	(12.0%)	(17.0%)	
United States Intercoastal (including Alaska and Hawaii)	4,552	2,608	4,942	2,031	(7.9%)	28.4%	
South America Intercoastal	4,272	3,956	3,519	3,163	21.4%	25.1%	
West Indies-Asia	3,309	2,334	3,478	2,310	(4.9%)	1.0%	
Europe-West Coast Central America	3,084	1,638	3,204	1,423	(3.7%)	15.1%	
Subtotal	156,023	129,483	157,669	130,989	(1.0%)	(1.1%)	
All other routes	32,493	29,790	34,118	31,707	(4.8%)	(6.0%)	
Total	188,516	159,273	191,787	162,696	(1.7%)	(2.1%)	





Contract workers look on as the Commission's dipper dredge RIALTO M. CHRISTENSEN (foreground) and Floating Caisson #2 (background) undergo one phase of a major overhaul at the Balboa drydock. The other phase of the overhaul work was performed at the Industrial Division at Mt. Hope.

# Chapter II

### CANAL OPERATIONS

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

### TRANSIT OPERATIONS

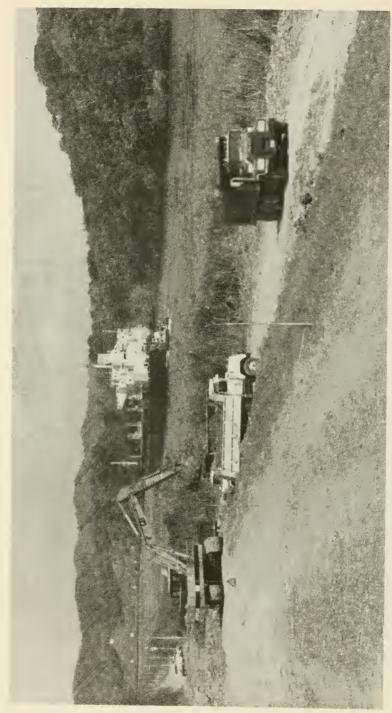
Daily average transits by oceangoing vessels averaged 34.5 per day during fiscal year 1992. Average time in Canal waters increased slightly from 22.0 hours in fiscal year 1991 to 22.1 hours in fiscal year 1992.

The following table indicates the number of large oceangoing vessels (by beam and length) that transited the Canal during the last 13 years:

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
1992	3,982	31.5	5,695	45.1
1991	4,008	31.4	5,825	45.6
1990	3,772	31.3	5,545	46.0
1989	3,913	32.4	5,734	47.5
1988	4,047	32.9	6,027	48.9
1987	4,005	32.5	5,902	48.0
1986	4,131	34.4	5,898	49.1
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	39.5	7,226	51.1
1981	4,855	34.7	6,364	45.5
1980	4,598	33.8	6,089	44.7

The number of vessels transiting at more than 36-foot draft decreased 4.4%: 1,853 vessels during fiscal year 1992 compared to 1,938 during fiscal year 1991. The maximum allowable draft remained at 39 feet 6 inches during the entire fiscal year.

Total jobs performed by Commission tugs decreased from 40,580 in fiscal year 1991 to 38,134 in fiscal year 1992.



Following approval by the Commission's Board of Directors, work was initiated in January 1992 to widen Gaillard Cut. This multi-phase program will be performed over a number of years utilizing contractors to complete the dry excavation and the Commission will use in-house resources to conduct wet excavation.

	Fiscal Year	
	1992	1991
Oceangoing transits	12,636	12,763
Tug jobs:	20.150	20.222
Dalioua	29,159	,
Cristobal	-,	12,248
Tug operating hours	60,604	62,535

### MAINTENANCE AND CANAL IMPROVEMENT PROGRAMS

Planned maintenance, scheduled overhauls, and general improvements to the Canal and appurtenant structures were accomplished throughout the year as programmed. The various divisions and units of the Engineering and Construction Bureau are responsible for the overall physical maintenance and improvement of the waterway. The Marine Bureau operates and maintains the locks and related facilities.

Channel Improvements: Channel dredging activities during fiscal year 1992 focused on the Pacific Entrance Channel Widening, where 2,138,465 cubic yards of material were removed by the suction dredge MINDI. A total of 9,482,000 cubic yards of material has been dredged to-date on the widening project which began in September 1988 and is scheduled to be completed in 1993. The MINDI also performed maintenance dredging of Miraflores Lake and at the Pacific Entrance, alongside the U.S. Navy piers at Rodman. Additionally, taking advantage of the temporary presence of a commercial dredge at the Pacific entrance to the Canal, a contract was awarded to dredge a flared area west of the west prism line at the beginning of the Pacific entrance to the canal. The dredged area will provide a greater degree of safety to vessels entering and exiting the southernmost tip of the channel. The contract also required that dredging be performed at the Balboa ship holding area west of pier 18.

Two new navigation range towers with lights were purchased and installed. The towers, one located off-shore and the other on-shore along the newly widened south west end of Balboa Reach, will provide proper target alignment at the widened Pacific entrance.

Locks: A four-phase valve overhaul of Miraflores Locks was conducted during fiscal year 1992, which included the conversion of all rising stem valves from "roller train" type to "sliding bearing surface," repairs to 19 cylindrical valves and replacement of 21 others.

At Gatun Locks, a turntable was installed and adjacent track work performed. The project was completed 64 days ahead of schedule. The turntable at Pedro Miguel north approach is awaiting final pit design and will be the last of five units to complete the turntable replacement program.

The Maintenance Division completed installation of new forebay/tail-bay sandwich type fenders at all three locks. The Locks Fenders System Committee (LFSC) evaluated 1,200 feet of experimental approach wall sandwich type fenders installed at Pedro Miguel southeast approach wall

and has recommended further improvements to incorporate more energy absorption capabilities.

A project is underway to install a new marine foam-type fire protection system at Pedro Miguel Locks. Scheduled for completion in fiscal year 1993, this system will be similar to the one installed at Miraflores Locks.

The replacement of the loadbreaking switches and power feed cable at Gatun Locks is presently in progress. This phase of the project should be completed during fiscal year 1993. Subsequent phases of the project include similar work at Miraflores and Pedro Miguel Locks. The new switches are an improved type that allow switching under a load, thus improving lockout operation with an added margin of safety.

At all locks, the 565 CFM and 1200 CFM air compressors are being replaced with 1500 CFM oil free units. The first three new air compressors, one for each set of locks, have been delivered to Pedro Miguel Locks. Installation should be completed by the middle of fiscal year 1993.

Gaillard Cut Widening: Preparatory work was initiated early in the fiscal year to provide the design, drawings, specifications, and estimates necessary to solicit bids on the dry excavation work to be conducted at the north end of the west bank. Individual bids were solicited and contracts awarded on 5 separate projects to remove approximately 1,140,300 cubic meters (1,482,400 cubic yards) of dry material.

The subaqueous portion of the Cut widening program is scheduled to be performed by the Dredging Division beginning in the latter part of fiscal year 1994.

Bank Improvements: A section of canal bank at the northwest wingwall of Miraflores Locks was protected from erosion by construction, under contract, of an anchored sheet pile.

Following earth movement and drainage improvement work at Cocoli Hill and along East Culebra and East Lirio reaches, reforestation of these areas was performed under contract with the planting of approximately 16,000 fast-growing acacia mangium trees.

Pilot, Tug and Launch Facilities: A new, modern pilot reporting station was inaugurated in Diablo on August 12, 1992. It is equipped with comfortable waiting rooms and computer terminals which display ship arrival and departure times, so that pilots can monitor their schedules.

Construction of a tug landing at Gamboa was completed under contract on June 11, 1992. A tug and launch landing was also constructed under contract at Paraiso and completed August 25, 1992.

A sheltered work area at the Launch Repair Facility in the Industrial Division was built. The sheltered area consists of three finger piers capable of docking six launches and provides all utilities necessary to accomplish 24-hour launch repair operations.

Dams, Spillways and Power Stations: Six of the fourteen spillway gates at Gatun Dam were completely rehabilitated and overhauled at the Industrial Division in Mt. Hope. Additionally, two 10-foot diameter and 36-foot high stacks were fabricated at the Industrial Division and installed at the Miraflores power generating station.

Communications: A multi-year program to upgrade telecommunications service Commission-wide was concluded in May with the placement in service of a new telephone switch at Gamboa. Together with the previously installed switches at Balboa, Miraflores, and Gatun, the Commission now has a modern computerized digital telecommunications network throughout the agency. The improvements include state-of-the-art business communications features, uniform dialing and signalling, full compatibility with the Republic of Panama's telephone system, adherence with international standards, and integrated voice-data transmission capabilities.

Floating Equipment Maintenance: Overhaul of the floating crane Hercules was initiated at the Mt. Hope, Industrial Division complex. Primary work included refurbishing crew quarters, installation of a bilge and ballast system, installing a new auxiliary generating system composed of two 125 KW generators, complete change of fendering from wood to synthetic rubber units, mechanical and structural work on the main boom and gears which included rebuilding the boom rotation drive mechanism, refurbishing and repairing the electrical system, and complete painting and testing.

The dipper dredge Christensen was overhauled in two phases beginning with work at the Balboa Drydock. The work included repairs to the hull and spud guides, refurbishment of the dredge's sea chest, valves, and the engine bilge and fuel tanks. The second phase of the overhaul was performed at the Industrial Division and consisted of installing new fenders and accomplishing repair work to the hull and other areas above the waterline.

The drill barge THOR was towed to Mt. Hope in June to receive its scheduled major overhaul. A new diesel-driven generator system for the drill-barge was purchased and is being installed. Overhaul work should be completed during fiscal year 1993.

Rehabilitation of the tug GUIA was completed. Satisfactory sea trials were conducted and the tug was returned to service in November.

Major overhauls were conducted at the Industrial Division's synchrolift facility on the tugs ALIANZA, GAMBOA, MORROW, ESPERANZA, and PARFITT, and repairs were made to the PAZ. Preventive maintenance was performed on the tugs BURGESS, McAULIFFE, AMISTAD, GUIA, PROGRESO, ALIANZA, MEHAFFEY, and SCHLEY during the year.

Floating Caisson #2 was repaired and refurbished at the Mt. Hope syncrolift facility by the Industrial Division. The caisson was afterwards

towed to the Balboa Drydock for repair and painting of the hull below the waterline by the contractor.

Acquisitions and Contracts: Three new 53-foot aluminum twin screw pilot/linehandling launches, the SIERRA, SWORDFISH and SABALO, were received on August 29, 1992. Each has a capacity for 34 passengers.

A contract was awarded to expand the existing Partial Task Simulator to a Full Mission Bridge Simulator. This new equipment will improve Canal pilot training capabilities.

A new Grit Blasting Facility at the Industrial Division, Mt. Hope, was inaugurated at the beginning of the fiscal year. The structure consists of three environmentally-controlled chambers for blasting, painting, and curing. This facility will enable top-of- the-line service to be provided and will significantly reduce airborne grit particle dispersion. Construction of the facility was performed by a contractor.

Cleaning, painting, and minor structural modifications to various railroad track span towers and replacement of associated insulators, hardware, and conductors on sections of the 44 KV line was completed under contract.

During the year, the Engineering and Construction Bureau awarded 141 construction type contracts for a total of approximately \$29 million.







A contract was awarded to upgrade the former floating wooden landing at the Paraiso tug and launch facility. Construction work can be seen in progress (upper photo) as the Panamax-size vessel BELFOREST transits in the background, heavily laden with lumber products. The new permanent concrete facility (lower photo), which was completed on August 25, 1992, requires little maintenance.

# Chapter III

### SUPPORTING OPERATIONS

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

### LOGISTICAL SERVICES

The Logistical Support Division provided centralized procurement, inventory management, distribution, contract administration and supply and property disposal support to Panama Canal operations. A total of \$82.5 million in goods and services were procured during fiscal year 1992, including \$29.3 million from sources in Panama. This includes \$5.5 million for light diesel fuel oil purchased from Esso Standard Oil, S.A. Bunker "C" oil purchases for thermoelectric power generation totalled \$10.4 million (one purchase from a U.S. firm and two from Refinería Panamá). Major contracting obligations included \$2,990,440 for catastrophic insurance coverage; \$1,186,550 for power transformers; \$996,000 for rewinding and uprating hydroelectric generators; \$973,660 for trash rakes/racks at generating stations; \$900,717 for fire trucks; \$862,533 for bridge (ship) simulator upgrade; \$628,800 for fender parts; \$580,217 for centralized security patrol; \$529,600 for drilling equipment; \$513,470 for a 40-ton hydraulic crane; and \$499,896 for a pilot/linehandler launch.

Approximately \$21.1 million in inventory items were issued for Commission use and \$20.6 million were obligated for new inventory purchases during the year. A total inventory of 36,338 line items with a cost value of \$30.8 million was on hand at year end.

Activities of the Excess Disposal Unit included no-cost transfers to other U.S. Government agencies of excess equipment having an original acquisition value of \$3.7 million. Surplus property sold to the Government

of Panama at current fair market value amounted to approximately \$5,022. Sales to others totalled \$340,635.

The New Orleans Branch in Louisiana expedited urgent purchases and coordinated all Commission cargo shipments from the United States to Panama. A total of 18,315 measurement tons of containerized and breakbulk cargo were shipped from Louisiana ports to the Republic of Panama.

### FACILITIES MANAGEMENT AND SUPPORT DIVISION

During fiscal year 1992, the Community Services and Sanitation and Grounds Divisions were merged into one, the Facilities Management and Support Division. This division managed Commission housing, Commission-owned buildings, the Furniture Pool, the Technical Resources Center, the Employee Fitness Program and the sanitation and grounds activities.

Sanitation operations provided comprehensive environmental health support to Commission employees and Panama Canal operating units. This responsibility extended to protecting the work force from epidemic tropical diseases, such as dengue, malaria and encephalitis, which are transmitted by mosquitoes and other insect and arthropod vectors. Over the past several years, mosquito surveillance and control measures have intensified since the Panama City metropolitan area became heavily infested with the dengue fever vector. No dengue cases have occurred yet, but the threat of a widespread epidemic of this disease continues to exist. In fiscal year 1992, only 28 active breeding sites were found and controlled within Commission housing areas, a three-fold decrease compared to last year's findings.

The Entomology Unit, in coordination with the Sanitation Office, maintains an extensive surveillance network to monitor mosquito populations throughout the Canal area. While most routine mosquito control measures involve mainly hand labor to maintain some 130 miles of drainage ditches, in early fiscal year 1992 a sophisticated tide control structure was installed at the Farfan River spillway. This system of four counter-balanced metal gates blocks the influx of seawater into the marsh, yet allows accumulated fresh water from rainfall to flow out of the marsh into the bay. This has brought about long-term nonchemical control of sand flies and has greatly reduced the emergence of the migratory salt marsh mosquitoes.

The program to control Africanized "killer bees" continues to function well by eliminating all Africanized bee colonies reported to the Division. Due to very dry conditions favorable to bee reproduction, the division workload to control these insects increased from 202 calls in fiscal year 1991 to 289 control operations in fiscal year 1992, including ten swarms aboard transiting vessels.

Atlantic and Pacific Commission sanitary landfills continue to provide for disposal of solid wastes for the Canal area, including that from U.S. military installations and Government contractors. The net refuse disposal workload increased by 10 percent this fiscal year, while refuse tonnage from U.S. military posts fell by 2 percent compared to figures for the previous fiscal year.

Grounds agronomists provided technical support for the long-term Gaillard Cut reforestation project, managed by the Engineering Division. The 64,000 fast-growing Acacia and Gmelina trees have continued to be effective in stabilizing several slopes along the Canal where massive landslides had occurred in the past. Wildfire suppression through the clearing of weeds and other dry vegetation in addition to the application of fire retardant chemicals through the coordinated efforts of both grounds crews and Commission fire fighters, did much to reduce severe fire damage to these tree plantations over the past two years.

The Technical Resources Center provided responses to 3,330 mission-supported information and research questions to units of the Commission and other U.S. agencies. It also continued to maintain a collection of library and tridimensional materials relating to the history and operation of the Panama Canal. This unit supported the professional development of the pilot understudies and other employees through workshops, scanning 6,604 technical journals, providing 2,434 current awareness services, as well as bibliographies and conference information.

The buildings management activity maintained and operated Commission buildings and structures (not specifically assigned to other Commission units) and a centralized custodial service. As an ongoing project, this unit continued to modify facilities to comply with OSHA standards for handicapped personnel and increased physical security of buildings. During the year, Pier 16, Cristobal, with appurtenances, fuel and utility lines, and the Commission's portion of Gatun Tank Farm including nine fuel storage tanks with the fuel and utility lines connecting from the tank farm to Pier 16, Cristobal, were transferred to the Government of Panama. The branch also operates the Commission's furniture pool, which coordinates the procurement of new office furniture and related furniture requirements such as inventory, transportation, storage, maintenance and repair.

The housing portion of the operation allocated its resources to managing, maintaining, repairing, performing preventive maintenance, bringing up to standard the safety and security aspects of the quarters inventory. On February 28, 1992, a Letter of Authorization was issued granting Panama's Ministry of Housing (MIVI) the control and administration of four housing units (halves of duplexes) located in Diablo at no cost to the Government of Panama until the entire structure is formally transferred to Panama.

Under the multi-year housing management plan to transfer housing units to the Government of Panama (GOP), the division identified 73 housing units in the townsites of Balboa, Diablo, Gamboa and Margarita for release by the end of calendar year 1992. Seven of these units have already been released. Housing inventory was reduced by 140 units (137 transferred to Panama and 3 demolished because they were beyond economical repair), decreasing the total inventory from 1,490 to 1,350 units. This represents 31 percent of the inventory of approximately 4,300 units owned by the Panama Canal Company prior to entry into force of the Panama Canal Treaty in 1979. A total of 69.26 percent of those units have transferred to the GOP in 13 years since treaty implementation.

The preparation of housing units for transfer under established safe, sanitary and secure guidelines is now being performed by contract forces. This preparation, which was formerly performed by hired labor, should result in savings for the Commission.

The Employee Fitness Branch administered a variety of duty-related as well as off-duty fitness programs and recreational facilities. The branch operates 12 facilities throughout the Canal area. Regular year-round activities are swimming, weight training, aerobics exercises (regular, low-impact) and water exercises, racquetball and jogging. Seasonal sports are tennis, softball, volleyball, soccer and basketball. There are certain programs specially created for Commission employees' dependents such as youth baseball, swimming classes, youth soccer, archery, gymnastics, pingpong, basketball, etc. Training was provided to Commission units in rescue, water safety, advanced life saving and survival floating. The branch continues to be responsible for certifying swimming proficiency of job applicants and employees.

### MOTOR TRANSPORTATION SERVICES

The Motor Transportation Division operated and maintained a consolidated motor pool of 939 vehicles designed to meet the vehicular transportation requirements of the Commission. The vehicle fleet in fiscal year 1992 included 643 trucks of various types, 208 passenger-carrying vehicles, 41 special purpose vehicles and 47 special equipment. Fleet mileage decreased from 8,032,112 last year to 7,716,454 this year. Fully equipped shops, including a tire retreading facility, light and heavy duty repair shops, and specialized transmission, diesel and machine shops provide facilities for overhauls, preventive maintenance and repairs to the Motor Transportation Division fleet and equipment of other Commission units. The vehicle inspection facilities located within the Motor Transportation Division were used again during the year for inspection of POVs belonging to Department of Defense and Commission personnel. These facilities were also used for the inspection of all Commission

vehicles. The Transportation Section is staffed with a total of 145 motor vehicle operators in both districts, and manages a motor pool of 383 vehicles, consisting of 178 general pool, 102 replacement and 103 special purpose vehicles and equipment. This section performed an average of 4,618 monthly transportation trips during fiscal year 1992 for services ranging from transisthmian pilot trips to heavy equipment operation.

### 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 and distribution system for certain public buildings in the Pacific area.

Total Canal area energy demand during fiscal year 1992 was 538 gigawatt hours, a 0.9 percent increase from the 533 gigawatts used last year. The peak hourly demand of 85.53 megawatts, reached on April 8, 1992, shows a slight increase from the 85.1 megawatts peak reached in fiscal year 1991. Electrical power consumed for Commission operations was 65.6 gigawatt hours, 2.5 percent below the previous year. Gasoline and petroleum distillate fuel usage by the Commission during fiscal year 1992 (excluding fuel for power generation), was 5.1 million gallons, 21.4 percent higher than in fiscal year 1991. Combined fuel and electrical energy consumption by the Commission, calculated in btu's, also showed an overall increase, 14.3 percent, in comparison with fiscal year 1991.

The two water treatment and distribution systems operated by the Commission provide potable water for the Canal area including all potable water for the Commission and the U.S. military. The Pacific side system also serves portions of Panama City and suburban areas while the Atlantic side system serves the Colon metropolitan area. During fiscal year 1992, both systems supplied 3.32 billion cubic feet of potable water to consumers. Water supplied to the Republic of Panama averaged approximately 56.0 million gallons (7.5 million cubic feet) per day.

### FIRE PROTECTION

The Panama Canal Commission Fire Division and the Bomberos of the Republic of Panama, in accordance with the Panama Canal Treaty of 1977, are responsible for providing fire protection, fire fighting and emergency rescue services in Canal operating areas, defense sites, and military areas of coordination, including shipboard fire fighting on all vessels in Canal area waters.

Commission responses for fiscal year 1992 totaled 7,707 compared to 6,519 for fiscal year 1991. The marine stand-by program for hazardous ships at the locks accounted for about 41 percent of the responses this year. This service is provided by Fire Division personnel with foam apparatuses on stand-by at the locks as a marine safety measure for those vessels

designated by the Marine Bureau as carrying dangerous cargos. The critical period is considered to be when a vessel is entering the locks.

There were 2,103 responses for ambulance service compared to 1,707 in fiscal year 1991. This division also responded to a total of 39 bomb threats during the year, the same number as last year. Excluding ship fires, there were 481 fires this year, an 8 percent increase over fiscal year 1991. Most incidents were grass and brush fires, which frequently occurred during the vulnerable dry season. Additional fire statistics appear in Table 16 of this report.

In accordance with the Panama Canal Treaty of 1977, formal joint training was conducted on 4 occasions with the Bomberos of the Republic of Panama as compared to 6 for last year. This figure is in addition to regularly occurring joint responses to fires and other emergencies.

### **CANAL PROTECTION**

During fiscal year 1992, the Canal Protection Division provided security for equipment, installations, facilities, and personnel devoted to the operation, maintenance and management of the Panama Canal.

The Division also jointly patrols remote canal areas with the Panama National Police.

Considerable resources were expended safeguarding navigational aids and related equipment along the waterway. Security hardware improvements at critical installations and support facilities were made. A contract for a centralized security control system was issued.

### **HEALTH AND SAFETY**

The Occupational Health and Safety Divisions are components of the Office of Personnel Administration. The Personnel Director is the Designated Agency Safety and Health Official. The Panama Canal Commission is committed to ensuring a safe and healthful workplace for its employees, an objective which enjoys support from all levels of Commission management.

During fiscal year 1992, the Commission experienced 354 performance-of-duty injuries/illnesses for which employees required medical attention beyond first aid, a decrease from the 375 cases in fiscal year 1991. Hearing loss cases were included in the agency statistics for the first time in fiscal year 1992, bringing the total number of performance-of-duty injuries/illnesses to 385 and the incidence rate for fiscal year 1992 to 4.4 per 100 employees; this compares to a fiscal year 1991 rate of 4.5. There were two fatalities in fiscal year 1992.

Existing workplace health and safety programs were strengthened during fiscal year 1992. Formal workplace inspections were ongoing; compliance with all aspects of the Hazard Communication Policy was stressed and the

Hazardous Materials Inventory and Material Safety Data Sheets library were computerized; the Seat Belt Policy was revitalized; and the periodic physical examination program was reinforced. The agency received a Department of Transportation award for high seat belt usage in fiscal year 1991, having achieved 85 percent, and qualified for another award in 1992. Special training and/or media information on AIDS, cholera and dengue fever were provided to employees. The joint labor/management Safety and Health Committee continued to meet regularly to maintain its valuable role in the agency's overall health and safety program. The agency's program was formally evaluated by the Federal Occupational Safety and Health Administration during fiscal year 1992.

The Commission's Drug-Free Workplace Plan continued in full effect, with incident, accident, reasonable suspicion, random and applicant drug testing; counseling, rehabilitation and referral services through the agency's Employee Assistance Program; and strict penalties for those who refused the services offered or did not refrain from drug use. Public awareness of drug and alcohol abuse prevention, identification and rehabilitation was intensified.

Counseling and clinics relating to stress management, nutrition, weight management and smoking cessation continued, resulting in a comprehensive work site health and safety promotion program for the Panama Canal Commission.

The Commission awarded a contract to assess the risks of, and prepare a contingency plan for, a hazardous materials emergency. As an outgrowth of that, the contractor conducted a workshop for managers from the various Commission elements performing health, environmental and safety functions, with the objective of developing recommendations for improving coordination, optimizing use of resources and enhancing performance in these areas.



## Chapter IV

### **ADMINISTRATION AND STAFF**

## PERSONNEL FORCE EMPLOYED AND PAYROLL

At the end of fiscal year 1992, the total Isthmian force of the Commission was 8,548 compared to 8,740 in fiscal year 1991. Of the total Isthmian force, 7,301 were permanent and 1,247 temporary. Of the permanent Isthmian work force, 6,411 (87.8%) were Panamanians, 825 (11.3%) were U.S. citizens, and 65 (0.9%) were third country nationals. Seventeen persons, all U.S. citizens, were employed by the Commission in New Orleans and Washington, DC.

The total Commission payroll was \$227.2 million in fiscal year 1992 compared to \$229.5 million in fiscal year 1991. Of the total Commission fiscal year 1992 payroll, \$174.6 million was paid to non-U.S. citizen employees and \$52.6 million to U.S. citizen employees.

### **EQUAL OPPORTUNITY PROGRAM**

The agency's fiscal year 1991 Affirmative Employment Program Report for Minorities and Women (EEO-MD-714) and the Report for the Employment of People with Disabilities (EEO-MD-713) for the U.S. citizen work force were submitted to the Equal Employment Opportunity Commission during fiscal year 1992, as required.

Formal EEO complaints continued to be processed. Black History Month, National Hispanic Heritage Month, and National Disability Employment Awareness Month were commemorated. Six-hundred and ninety employees attended Women's Week training during March. Continued emphasis was placed on the training of supervisors and managers in the EEO complaint process. One-hundred and seventy supervisors and employees attended workshops on the prevention of sexual harassment in the workplace, including attendance at a special video conference sponsored by the U.S. Office of Personnel Management. Additional training was provided to EEO counselors on the new 29 CFR 1614 regulations to become effective October 1, 1992. The Panamanian

Preference Program monitoring continued to reflect increased participation of R.P. nationals at all levels. The composition of the work force by sex, minority group and citizenship at the end of fiscal year 1992 is reflected below:

Male		Sex			87.0%
Female					13.0%
		Minority Gro	oup		
Hispanics	Blacks	Whites	Orientals	Indians	
66.9%	21.1%	9.7%	1.8%	0.5%	

### **PUBLIC AFFAIRS**

The Office of Public Affairs is responsible for handling all public affairs, orientation services and informational activities of the Panama Canal Commission, both locally and internationally. In this connection, through the Commission publication The Panama Canal Spillway, local and international press releases (including simultaneous worldwide distribution by computer), video news releases and documentaries, press releases (including simultaneous worldwifilms and exhibits, and matters of interest were disseminated to the work force, the public at large and the shipping industry. A digest of items in the local press of interest to Commission managers was compiled and distributed daily.

The Graphic Branch supports the public affairs effort by providing a broad range of still photo and audiovisual support services throughout the Commission. This year it continued to expand its program of producing audiovisual presentations to fill an accelerated need by Commission officials who provide briefings to Panama government officials on matters related to the turnover of the Canal to Panama in 1999 and to Commission board members on current operations and future plans.

Local and international news media interest focused on the turnover of the Canal to Panama in 1999, the Gaillard Cut widening project and the transit of hazardous cargo through the Canal. Other areas of interest were general Canal operations, the tolls increase, the Canal watershed and the linehandler scheduling study.

The Office of Public Affairs designed, produced, and operated Commission exhibits for a number of activities and functions during the year. "Meeting the Challenge" was the theme used to highlight the maintenance, modernization and improvement programs at the Canal designed to ensure its continued safe and efficient operation, both in the near term and post-2000. EXPOCOMER, a business exposition held in Panama City, and the David International Fair, held annually in the Chiriqui Province of Panama, were among the more noteworthy local

exhibits. This office also participated with exhibits in two cruise shipping conferences and exhibitions in the United States, one for owners and operators and one for the travel industry.

The Canal's 78th anniversary was highlighted with a photo exhibit on the construction of the Canal Administration Building displayed in the building's rotunda, and a special feature-length video was produced relating the history of Gaillard Cut construction with the current Cut Widening Program. Support was provided for Panama's participation in Spain's Expo Sevilla with informational materials and videos, as well as briefings on Canal operations for Panamanian exhibit hosts.

The Orientation Service, located at Miraflores Locks, welcomed 395,937 visitors to Miraflores and Gatun locks this year and conducted 976 VIP tours.

### **OMBUDSMAN**

The Office of the Ombudsman was established pursuant to implementing legislation of the Panama Canal Treaty of 1977. The office responds to employees' and dependents' complaints, grievances, and requests for information; and channels many issues to the proper authorities for processing under existing statutes or administrative regulations. Generally, the Office of the Ombudsman investigates administrative problems, inefficiencies, omissions and policy conflicts existing within the various offices of the Panama Canal Commission, and between the Commission and other U.S. Government agencies on the Isthmus of Panama resulting from the treaty. The office provides the widest latitude possible for handling problems affecting employee morale and the quality of life.

The office maintains close contact with officers of the three Residents Advisory Committees as a means to assure close communication between the Commission and these community groups on matters of concern to residents in Commission housing areas.

#### INDUSTRIAL RELATIONS

A new three-year collective bargaining agreement covering employees in the firefighters bargaining unit was negotiated between April and July 1992. Additionally, the non-professional collective bargaining agreement, which covers 87 percent of the Commission's work force, was renewed for a three-year period commencing September 16. This occurred pursuant to an automatic renewal provision when neither party served notification during the contractual window of an intent to amend or modify the agreement.

In January, the FLRA ruled on exceptions the Commission filed to an arbitration award rendered in February 1991 involving firefighters. The Commission succeeded in overturning the largest of the two major cost items of the award. Costs saved (not including interest payment required under the Back Pay Act) were estimated at \$640K. The remaining cost item

was estimated at \$170K. Subsequent efforts to obtain FLRA reconsideration were unsuccessful and compliance with the award was ongoing at fiscal year end. The total cost including interest payments approximated \$225K.

Last year, it was reported that exceptions were pending to an FLRA administrative law judge decision which dismissed an unfair labor practice complaint against the Commission for unilaterally terminating access by nonpreference-eligible employees to the agency's administrative procedure for appealing adverse actions as an option to the negotiated grievance procedure. (Access to the negotiated grievance procedure was not affected by the Commission's action.) In February, the FLRA issued a decision finding, contrary to the judge, that the disputed action constituted an unfair labor practice. The ordered remedy includes a retroactive requirement which could result in hearings for over 300 employees at a cost to the Commission of over \$150K. Equally important, the FLRA also held that as a matter of law such Commission employees do not have the right to challenge adverse actions under the negotiated grievance procedure. The Commission filed a motion for reconsideration and a stay of the decision. The motion was denied in early September. The Commission requested the Department of Justice to seek judicial review and that request was pending at fiscal year end.

Two notable union initiatives this year generated a considerable amount of work for the Industrial Relations office. One concerned a request from the exclusive representative of the nonprofessional unit to increase the amount of official time. It was argued that an increase was necessary to facilitate more effective union participation in discussions with public officials in Panama concerning the future of the Canal -- an activity which was urged by the Personnel Committee of the Board of Directors at a 1990 meeting with labor organizations in Miami, Florida. A 3-phase trial plan was conceived to increase incrementally the amount of official time and the number of participating stewards. Progression from one phase to another was contingent upon the Commission's satisfaction. The fiscal year ended during the third phase of the trial period.

The other union initiative concerned a demand in February by the pilots union to negotiate an increase in basic pay. The union's proposal would provide the highest step pilot with a base pay of "at least \$175,000." The Commission declined on the basis of a current decision by the U.S. Court of Appeals for the Fourth Circuit which holds that, in such circumstances as exist in the Commission's case, unions do not have the right to initiate midterm bargaining. The Commission also expressed good faith doubts about the negotiability of the union's proposal. Although the union did not

formally challenge this decision, it continued through the end of the fiscal year to vigorously pursue in a variety of arenas the matter of obtaining a pay raise.

Three different exclusive representatives invoked arbitration a total of 10 times this fiscal year. Only one decision was rendered, however, and it was favorable to the Commission. Adverse and disciplinary actions were split evenly at 4 apiece. One of the disciplinary cases was eventually settled. The remaining case involved the performance evaluation of an employee who is also the subject of one of the disciplinary cases. The former case was held in abeyance at the union's request pending the decision of the latter, which was still pending at fiscal year end. Several other disputes were settled during the year but at a point before arbitration was invoked. Three other cases carried over from the prior fiscal year were disposed of this year. One was settled and the other two were dismissed when the union failed to prosecute them after the employee who was the subject of both cases retired.

### GENERAL COUNSEL

During fiscal year 1992, twenty admiralty claims totalling \$17,533,576 were settled in the amount of \$11,293,533. The single largest claim ever paid was for the ITB MOKU PAHU in the amount of \$6.5 million. Thirty-eight unsettled marine accident claims, in the amount of approximately \$20,376,165, remained at the close of this fiscal year.

Currently, four cases are pending in U.S. District Court for the Eastern District of Louisiana. The total of the amounts claimed is \$7.8 million.

The new Standards of Ethical Conduct promulgated August 7, 1992 are being implemented locally through an aggressive training program scheduled to completely train all Commission employees by February 3, 1993. Additionally, the Commission has initiated the Confidential Financial Disclosure Reporting System.

The General Counsel's office monitored approximately 150 cases involving garnishment for alimony and child support, and 130 vehicle accident cases of which approximately 50 may result in claims against the Commission.

Despite the August 30, 1991 decision of the Corps of Engineers Board of Contract Appeals that denied all claims brought by Sosa y Barbero Constructores, S.A. and Compañía Internacional de Seguros, S.A., the contract appeal continued during the entire fiscal year. The co-appellants filed a motion for reconsideration with the Board, which the Commission opposed and the Board denied in December 1991. With over \$9 million dollars at stake, the co-appellants appealed the Board's final decision to the United States Court of Appeals for the Federal Circuit in January, 1992. Shortly after the fiscal year's end, on October 14, 1992, the court issued a final decision affirming in all respects the ruling by the Board of Contract Appeals. No further appeal is anticipated.



# Chapter V

### FINANCIAL REPORT

## FINANCIAL STATEMENTS FOR THE FISCAL YEAR ENDED SEPTEMBER 30, 1992

The financial statements of the Panama Canal Commission, appearing as Tables 1 through 4, with accompanying notes, present the financial position of the Commission at September 30, 1992 and the result of its operations for the fiscal year then ended.

The accounts and statements of the Panama Canal Commission have been examined 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 the operating results and capital expenditures follows:

#### RESULTS OF OPERATIONS

The Commission ended fiscal year 1992 with a net operating loss of \$3.6 million, compared to net operating revenue of \$3.6 million for fiscal year 1991. The net operating loss for 1992 was deferred as unearned costs to be recovered from subsequent revenues.

### CAPITAL EXPENDITURES

Accued capital expenditures for the year amounted to \$26.3 million. The principal expenditures were \$8.2 million for replacement and improvements to facilities, \$3.1 million for the widening and straightening of Gaillard Cut, \$2.9 million for improvements to the electrical power and communication systems, \$2.0 million for the replacement of motor vehicles, \$1.9 million for the replacement of launch and launch engines, \$1.1 million for water system improvements, and \$1.1 million for replacement of an anchor barge.

### Table 1.—Statement of Financial Position September 30, 1992 and 1991 (Dollars in thousands)

Assets	1992	1991
PROPERTY, PLANT AND EQUIPMENT: At cost Less accumulated depreciation and valuation allowances	\$1,038,128 <u>548,905</u>	\$1,022,626 <u>525,303</u>
	489,223	497,323
CURRENT ASSETS: Cash	124,542 9,567	127,135 11,687
Storehouse, less allowance for obsolete and excess inventory of \$6,200 and \$6,467, respectively  Fuel	28,708 3,479 235	28,732 5,168 205
	166,531	172,927
DEFERRED CHARGES: Early retirement benefits	106,008	121,152
Compensation benefits for work injuries	54,346 4,673 3,569	59,530 5,178
	168,596	185,860
TOTAL ASSETS	\$ 824,350	\$ 856,110

The accompanying notes are an integral part of this statement.

### Table 1.—Statement of Financial Position September 30, 1992 and 1991 (Dollars in thousands)

Capital and Liabilities	1992	1991
CAPITAL:		
Investment of the United States Government:		
Interest-bearing (9.786% and 9.949%,	6122 271	£120 557
respectively)	\$122,271 349,980	\$120,557 352,622
Tron meetes outling		
	472,251	473,179
CURRENT LIABILITIES:		
Accounts payable:		
Commercial vendors and other	14,484	17,706
U.S. Government agencies  Republic of Panama	2,172 9,060	1,905 8,827
Republic of Pallatha	25,716	28,438
	23,710	
Accrued liabilities: Employees' leave	54,257	50,590
Salaries and wages	6,767	4,826
Early retirement benefits	15,144	15,144
Compensation benefits for work injuries	9,093	8,460
Retirement benefits to certain former employees	626	692
Employees' repatriation	731	785
Marine accident claims	12,593	21,034
Panama		875
Other	2,148	1,969
	101,359	104,375
Other current liabilities:		
Working capital contributions	2,000	
Capital contributions-unexpended		9,079
Other	1,200	2,100
	3,200	11,179
	130,275	143,992
DEFENDED OFFIT	130,273	
DEFERRED CREDIT: Capital contributions being amortized	62,507	57,760
Capital contributions being amortized		
LONG-TERM LIABILITIES AND RESERVES:		
Early retirement benefits	90,864	106,008
Compensation benefits for work injuries	45,253	51,070
Retirement benefits to certain former employees Employees' repatriation	4,047 5,762	4,486 6,121
Lock overhauls	2,082	1,957
Marine accidents and casualty losses	8,000	8,000
Floating equipment overhauls	3,309	3,537
	159,317	181,179
TOTAL CADITAL AND LIABILITIES	6014 350	COEC 110
TOTAL CAPITAL AND LIABILITIES	\$824,350	\$856,110

The accompanying notes are an integral part of this statement.

# Table 2.—Statement of Operations Fiscal Years Ended September 30, 1992 and 1991 (Dollars in thousands)

OPERATING REVENUES:	1992	1991
Tolls revenue  Less - Working capital contributions	\$368,663 (2,000)	\$374,625
- Capital contributions		(5,929)
Net tolls revenue	366,663	368,696
Other revenues	138,913	137,725
Total operating revenues	505,576	506,421
OPERATING EXPENSES:		
Payments to Republic of Panama:		
Public services	10,000	10,000
Fixed annuity	10,000	10,000
Tonnage	66,563	67,593
Tolliage		87,593
	86,563	81,393
Maintenance of channels, dams and spillways	40,338	35,628
Navigation service and control	84,768	86,221
Locks operation	51,766	53,778
General repair, engineering and maintenance	0 1,, 00	,
services	25,098	25,775
Supply and transportation services	19,425	23,851
Utilities	35,932	31,772
Administrative and general	80,812	78,576
Depreciation	27,535	22,685
Fire and facility protection	14,707	13,351
Interest on interest-bearing investment	11,492	11,544
Other	30,709	32,059
Other	30,703	
Total operating expenses	509,145	502,833
Net Operating Revenue (Loss)	(3,569)	3,588
Recovery of prior year losses	• • • • • • • •	(2,713)
		875
NET UNEARNED COSTS TO BE RECOVERED		
FROM SUBSEQUENT REVENUES	\$ (3,569)	
NET OPERATING REVENUE PAYABLE TO	<u> </u>	
REPUBLIC OF PANAMA		\$ 875

The accompanying notes are an integral part of this statement.

Table 3—Statement of Changes in the Investment of the United States Government
Fiscal Years Ended September 30, 1991 and 1992
(Dollars in thousands)

	Invested		
	Interest- Bearing	Non-Interest- Bearing	Total
INVESTMENT AT OCTOBER 1, 1990	\$133,176	\$340,663	\$473,839
CHANGES IN INVESTMENT:			
Expenditures from Panama Canal Revolving Fund Tolls and other receipts deposited into Panama	503,009	(503,009)	
Canal Revolving Fund	(515,001)	515,001	
Net change in undeposited receipts		(33)	(33)
to Republic of Panama	(63)		(63)
Property transferred to other U.S. Government agencies	(564)		(564)
	(12,619)	11,959_	(660)
INVESTMENT AT SEPTEMBER 30, 1991	\$120,557	\$352,622	\$473,179
	199	92	
	Invested	Capital	
			Total
INVESTMENT AT OCTOBER 1, 1991	Invested Interest-	Capital  Non-Interest-	Total \$473,179
	Invested Interest- Bearing	Non-Interest- Bearing	
INVESTMENT AT OCTOBER 1, 1991  CHANGES IN INVESTMENT: Expenditures from Panama Canal Revolving Fund	Invested Interest- Bearing	Non-Interest- Bearing	
CHANGES IN INVESTMENT:  Expenditures from Panama Canal Revolving Fund Tolls and other receipts deposited into Panama	Invested Interest-Bearing \$120,557	Non-Interest- Bearing   \$352,622   (511,772)	
CHANGES IN INVESTMENT:  Expenditures from Panama Canal Revolving Fund Tolls and other receipts deposited into Panama Canal Revolving Fund	Invested Interest- Bearing \$120,557	Non-Interest-Bearing   \$352,622     (511,772)     509,091	\$473,179
CHANGES IN INVESTMENT:  Expenditures from Panama Canal Revolving Fund Tolls and other receipts deposited into Panama Canal Revolving Fund Net change in undeposited receipts	Invested Interest- Bearing \$120,557  511,772  (509,091)	Non-Interest- Bearing   \$352,622   (511,772)	
CHANGES IN INVESTMENT:  Expenditures from Panama Canal Revolving Fund Tolls and other receipts deposited into Panama Canal Revolving Fund Net change in undeposited receipts	Invested Interest-Bearing \$120,557	Non-Interest-Bearing   \$352,622     (511,772)     509,091	\$473,179
CHANGES IN INVESTMENT:  Expenditures from Panama Canal Revolving Fund Tolls and other receipts deposited into Panama Canal Revolving Fund	Invested Interest- Bearing \$120,557  511,772  (509,091)	Non-Interest-Bearing   \$352,622     (511,772)     509,091	\$473,179
CHANGES IN INVESTMENT:  Expenditures from Panama Canal Revolving Fund Tolls and other receipts deposited into Panama Canal Revolving Fund	Invested Interest-Bearing \$120,557  511,772 (509,091)	Non-Interest-Bearing   \$352,622     (511,772)     509,091	\$473,179  39 (812)
CHANGES IN INVESTMENT:  Expenditures from Panama Canal Revolving Fund Tolls and other receipts deposited into Panama Canal Revolving Fund	Invested Interest-Bearing \$120,557  511,772 (509,091)	Non-Interest-Bearing   \$352,622     (511,772)     509,091	\$473,179 39 (812) (6)
CHANGES IN INVESTMENT:  Expenditures from Panama Canal Revolving Fund Tolls and other receipts deposited into Panama Canal Revolving Fund	Invested Interest-Bearing \$120,557  511,772 (509,091)	Non-Interest-Bearing	\$473,179 39 (812) (6) (149)

The accompanying notes are an integral part of this statement.

# Table 4.—Statement of Cash Flows Fiscal Years Ended September 30, 1992 and 1991 (Dollars in thousands)

		1001
CASH FLOWS FROM OPERATING ACTIVITIES:	1992	1991
Net operating revenue (loss)	\$ (3,569)	\$ 3,588
Working capital contributions		<u></u>
Adjustments to reconcile net revenue (loss) to net cash		
provided by operating activities:	27,535	22,685
Depreciation  Net change in reserves and other	(840)	2,455
Changes in operating assets and habilities:	2,120	1,644
Decrease in receivables  Decrease in inventories	1,713	6,100
(Increase)/decrease in other assets	(29)	14 4,453
Increase/(decrease) in liabilities	<u>(5,727)</u> 24,772	37,351
Total adjustments		
Net cash provided by operating activities	23,203	40,939
CASH FLOWS FROM INVESTING ACTIVITIES:		
Capital contributions	(25,796)	5,929 (34,214)
Capital expenditures	_(23,790)	_(34,24.1)
Net cash used in investing activities	(25,796)	(28,285)
Net increase/(decrease) in cash	(2,593)	12,654
	127,135	114,481
Cash, beginning of year	127,135	
CASH, END OF YEAR	\$124,542	\$127,135
C.101, 2-12		
SUPLEMENTAL DISCLOSURE OF CASH FLOW		
INFORMATION:		
Cash paid during year for interest	\$ 11,691	\$ 11,562
•		

The accompanying notes are an integral part of this statement.

### NOTES TO FINANCIAL STATEMENTS

The Panama Canal Commission ("Commission") is an agency of the Executive Branch of the United States Government, provided for by the Panama Canal Treaty of 1977, ("Treaty") and established by the Panama Canal Act of 1979 ("Act") enacted September 27, 1979. The Commission was established to carry out the responsibilities of the United States with respect to the Panama Canal under the Treaty. 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, at which time the Republic of Panama will assume full responsibility for the Canal, which shall be turned over in operating condition and free of liens and debts, except as the two Parties may otherwise agree.

The operation of the waterway is conducted on a self-financing basis. The Commission is expected to recover through tolls and other revenues all costs of operating and maintaining the Canal, including interest, depreciation, working capital, capital for plant replacement, expansion and improvements, and payments to the Republic of Panama for public services and annuities. Revenues from tolls and all other sources are deposited in the U.S. Treasury in an account known as the Panama Canal Revolving Fund. The resources in this fund are available for continuous use and serve to finance Canal operating and capital programs which are reviewed annually by the Congress. Information on obligations and outlays of the Commission's Revolving Fund are included in the Budget of the United States Government.

### 1. Summary of Significant Accounting Policies.

A summary of significant accounting policies follows:

- a. Accounting and Reporting. The accounts of the Commission are maintained pursuant to the Accounting and Auditing Act of 1950. Under this Act, the Comptroller General of the United States prescribes the principles, standards and related requirements to be met. The Commission maintains its accounts in accordance with generally accepted accounting principles and follows STATEMENT OF FINANCIAL ACCOUNTING STANDARDS No 71, "Accounting for the Effects of Certain Types of Regulation."
- b. Reclassifications. Certain amounts for fiscal year 1991 have been reclassified to conform with the current financial statement presentation.
- c. Cost Recovery. The basis for tolls rates ("statutory tolls formula") is prescribed in section 1602(b) of the Act and provides:

"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, working capital, 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."

Unrecovered costs for any year are to be recovered from revenues in subsequent years.

d. Property, Plant and Equipment. Property, plant, and equipment are recorded at cost. The cost of minor items of property, plant, and equipment is charged to expense as incurred. Administrative and other related general expenses are recovered currently and not capitalized.

Depreciation of Commission property, plant, and equipment is provided using the straight-line method over the estimated service lives of the depreciable assets. Composite depreciation is provided for premature plant retirements. Provisions for depreciation, expressed as an annual percentage of the cost of average depreciable property, plant, and equipment in service, were 3.41 percent in 1992 and 2.90 percent in 1991.

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.

- e. Capital Contributions. The Board of Directors may program a portion of tolls in excess of depreciation for plant replacement, expansion, or improvements. Such funds are considered capital contributions from Canal users. Upon utilization, these contributions are amortized through an offset to depreciation expense in an amount calculated to approximate the depreciation on assets acquired with such contributions. In fiscal year 1992, no amount was programmed. For fiscal year 1991, \$5.9 million were programmed.
- f. Working Capital. The Board of Directors may program a portion of tolls as contributions for working capital. Such funds are used to finance increases in amounts for storehouse inventories, primarily as a result of inflation. Working capital contributions in fiscal year 1992 were \$2.0 million. No contributions were programmed in fiscal year 1991.
- g. Accounts Receivable. Uncollectible accounts are recognized as a reduction in revenue when written off.
- h. Inventories. Operating materials and supplies are stated at average cost, plus cost of transportation. Allowances are provided for the estimated cost of obsolete and excess stock.

i. Retirement Benefits. Employer contributions to the United States Civil Service Retirement System, the Federal Employee Retirement System, and the Republic of Panama Social Security System are charged to expense when paid. 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, receive benefits under a separate annuity plan. Payments made under this plan are recorded as a current year expense. Annual amounts expended for this plan were \$1.0 million and \$1.1 million in fiscal years 1992 and 1991, respectively. The liability for future annuity payments is reflected in the Statement of Financial Position as "Retirement benefits to certain former employees" and an equal amount is recorded as a deferred charge.

As required by the Act, the Commission is liable for the increase in the unfunded liability of the United States Civil Service Retirement Fund for benefits payable to employees and their survivors under the early retirement provisions of the Act. The deferred charge and liability recorded in these statements reflect the payments due to the Office of Personnel Management over the life of the Treaty. The annual installment of \$15.1 million to liquidate the increased liability is determined by the Office of Personnel Management. The gross amount to be recovered from tolls over the remaining life of the Treaty was \$106.0 million as of fiscal year 1992 and \$121.2 million as of fiscal year 1991.

- j. Reserves. Reserves required to normalize expenses for incorporation in the tolls process are provided for through annual charges to operations. These reserves cover such irregular costs as lock overhauls, floating equipment overhauls, probable losses from marine accidents, fire, damages other than fire, public liability, and other casualties.
- k. Housing Use Rights. No monetary value is assigned to the rights granted to the United States Government by the Republic of Panama to use Canal Area housing transferred to the Republic of Panama under the terms of the Treaty. The cost to manage, maintain and provide livability improvements to these quarters is charged to expense. Rental income is included in other revenues.
- l. Compensation Benefits for Work Injuries. The Federal Employees' Compensation Act (FECA) provides compensation for performance of duty injuries for eligible employees. The costs of the FECA program are recognized over the remaining life of the Treaty.

### 2. Budgetary Resources.

- a. Cash, accounts receivable, and the borrowing authority are the resources used by the Commission to determine its solvency position. Incurring obligations in excess of the solvency position would be a violation of the Antideficiency Act.
  - b. The Commission has authority to borrow funds from the U.S.

Treasury up to \$100.0 million. No funds were borrowed during fiscal years 1992 and 1991.

### 3. Unrecovered Costs due from Subsequent Revenues.

The \$3.6 million net loss from fiscal year 1992 operations was deferred as an unearned cost to be recovered from subsequent revenues. As such, it must be deducted from any future net operating revenue due the Republic of Panama.

### 4. Net Revenue Payable to Republic of Panama.

As of September 30, 1989, cumulative unrecovered costs from prior years operations were \$9.7 million. Of that amount, \$7.0 million was recovered in fiscal year 1990 and \$2.7 million was recovered in fiscal year 1991. The balance of net operating revenues earned in fiscal year 1991 of \$0.9 million was paid to the Republic of Panama in April 1992.

### 5. Allowances for Obsolete and Excess Stock.

The allowances for obsolete and excess stock provide for: (1) the specific disposal of individual inventory items likely to occur; and (2) the systematic cost recognition for inventory items retained for possible use, but whose actual use most often does not occur. During fiscal year 1991, a comprehensive evaluation of inventory items that are infrequently issued, but retained for possible use, was completed. This evaluation indicated a requirement for an allowance of \$5.6 million for these items. The evaluation completed for fiscal year 1992 indicated reduced requirement of \$5.2 million and the allowance was adjusted accordingly.

### 6. Compensation Benefits for Work Injuries.

The Commission administers a program to compensate certain employees for death and disability resulting from performance of duty injuries or illnesses as set forth in the Federal Employees' Compensation Act. All United States citizen employees are eligible for coverage, as are non-United States citizen employees hired prior to October 1, 1979. As provided by FECA, employees and certain dependents are beneficiaries for various periods that can extend to life.

The liability and deferred charge recorded in these statements reflect the payments due to a Department of Labor fund established pursuant to Public Law 100-705. The Department of Labor will be reimbursed from this fund for all expected future payments for accidents, adjusted for inflation and interest earned. An evaluation, as of September 30, 1991, was prepared by an independent actuarial firm. The values in that report were used to adjust the assets and liabilities at year-end 1991. The report also served as the basis for determining the adequacy of the assets and liabilities at year-end 1992. The gross amount to be recovered from tolls over the remaining life of the Treaty to retire this liability is \$54.3 million in fiscal year 1992 and \$59.5 million in fiscal year 1991.

### 7. 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 Act. The interest-bearing investment of the United States Government was \$122.3 million at September 30, 1992 and \$120.6 million at September 30, 1991.

### 8. Contingent Liabilities and Commitments.

The Commission is a defendant in certain legal actions related to personal injury, employment disputes, and other matters related to the Commission's business. In the opinion of management, the settlement of these legal actions will not have a material adverse effect on the financial position of the Commission.

Commitments under uncompleted construction contracts and unfilled purchase orders amounted to \$44.4 million at September 30, 1992 and \$31.7 million at September 30, 1991.

Cash and negotiable securities held by United States depositories for the Commission to guarantee payment by third parties of their obligations were \$15.3 million and \$14.5 million at September 30, 1992 and 1991, respectively.

The Treaty provides that an annual amount of up to \$10.0 million per year be paid to the Republic of Panama out of operating revenues to the extent that such revenues exceed expenditures. If the 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. The balance contingently payable to the Republic of Panama amounted to \$120.2 million and \$110.2 million at September 30, 1992 and 1991, respectively. However, as set forth in the Treaty and in the Act, nothing shall be construed as obligating the United States Government to pay, after the date of the termination of the Treaty, any unpaid balance accumulated before such date.



## Chapter VI

## STATISTICAL TABLES

**Shipping Statistics** 

Table 1.—Panama Canal Traffic—Fiscal Years 1983 Through 1992

		Total traffic	,		assessed tolls onnage basis	Traffic assessed toll on displacement tonnage basis			
	Number		Long tons	Number	Panama		Displace-		
Fiscal year	of transits	Tolls	of cargo	of transits	Canal net tonnage	of transits	ment tonnage		
•		NGOING CO	_				ŭ		
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	168,941,997	17	86,623		
1986	11,925	321,073,748	139,945,181	11,901	182,750,830	24	73,631		
1987	12,230	328,372,714	148,690,380	12,206	186,416,485	24	130,129		
1988	12,234 11,989	337,866,211 327,850,613	156,482,641 151.636,113	12,209 11,964	191,506,903 185,769,083	25 25	106,599 101,710		
1990	11,941	353,725,982	157,072,979	11,904	181,604,268	37	153,514		
1991	12,572	372.279.573	162,695,886	12,544	191,786,855	28	120,375		
1992	12,454	365,716,456	159,272,618	12,425	188,516,426	29	117,403		
O	CEANG	OING U.S.	GOVERNM	ENT TR	AFFIC 1				
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		
1986	85	1,553,037	176,853	53	708,616	32	309,161		
1987	78 69	1,384,125 1,361,393	205,701 296,140	46 46	662,286 714,055	32 23	239,023 129,545		
1989	74	1,806,539	224,121	62	994,711	12	103.020		
1990	91	1,707,864	248,442	63	821,340	28	193,160		
1991	173	2,214,170	516,130	69	902,085	104	458,899		
1992	167	2,790,452	341,256	96	1,295,153	71	405,986		
	FF	REE OCEAN	GOING TR	AFFIC	1 2				
1983	14		2,504	9	9,119	5	5,986		
1984	17			4	2,224	13	21,025		
1985	10	• • • • • • • • •	20	4	2,731	6	8,771		
1986	13 5	• • • • • • • • • • • • • • • • • • • •	5	1	556	12	20,759		
1988	15			4	2,224 3,312	1 9	1,300 16,765		
1989	12			6	3,312	6	9,709		
1990	20		6	4	2,218	16	30,530		
1991	18			4	2,218	14	24,702		
1992	15	• • • • • • • • • • • • • • • • • • • •		4	2,206	11	18,508		
	TC	TAL OCEA	NGOING T	RAFFIC	1				
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	170,093,039	67	344,361		
1986	12,023	322,626,785	140,122,034	11,955	183,460,002	68	403,551		
1987	12,313	329,756,840	148,896,086	12,256	187,080,995	57	370,452		
1988	12,318	339,227,604	156,778,781	12,261	192,224,270	57	252,909		
1990	12,075 12,052	329,657,153 355,433,846	151,860,234	12,032	186,767,106	43	214,439		
1991	12,032	374,493,743	157,321,427 163,212,016	11,971 12,617	182,427,826 192,691,158	81 146	377,204 603,976		
1992	12,636	368,506,908	159,613,874	12,525	189.813.785	111	541,897		
	,0	2 30,000,700	107,010,014	12,020	107,013,703	111	371,077		

Table 1.—Panama Canal Traffic—Fiscal Years 1983 through 1992 (Continued)

		Total traffic			assessed tolls onnage basis	on disp	sessed tolls lacement ge basis
Fiscal	Number		Long tons		Panama	Number	Displace-
year	of transits	Tolls	of cargo	of transits	Canal net tonnage	of transits	ment tonnage
	SM	ALL COMM	IERCIAL T	RAFFIC	C 3		Ü
1983	810	\$ 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
1986	912	89,577	3,704	904	55,249	8	470
1987	852 844	90,829 79,805	3,282 1,422	852 842	55,827 49,245	2	64
1989	997	96,158	8,311	996	60,156	1	430
1990	1,017	115,180	1,497	1,016	66,999	î	98
1991	1,079	118,675	537	1,077	67,982	2	64
1992	1,260	137,318	1,250	1,258	77,747	2	304
1983	242	\$ 11,406	5	12	332	230	11,177
1984	241	11,998		8	336	233	11,282
1985	273	12,464		15	773	258	11,113
1986	316	17,840	• • • • • • • • • • • • • • • • • • • •	20	627	296	16,407
1987	236 246	11,106 11,917	• • • • • • • • • • • • • • • • • • • •	25 21	987	211	9,572
1989	287	12,316		13	901 738	225 274	10,375 11,018
1990	240	8,931		23	903	217	6,684
1991	248	12,319		12	654	236	10,065
1992	231	18,278	81	28	3,027	203	11,753
		SMALL FF	REE TRAFF	FIC <sup>2 3</sup>			
1983	56		8	39	2,321	17	2,010
1984	96		59	86	4,637	10	1,360
1985	46		3	32	1,721	14	1,103
1986	27		80	20	1,371	.7	674
1987	43 33	• • • • • • • • • • • • • • • • • • • •	57	26 15	1,451	17	1,012
1989	30		3	14	1,081 878	18 16	1,189 1,141
1990	16			5	249	11	800
1991	18			13	568	.5	545
1992	21		19	11	932	10	792
	TOT	TAL PANAM	IA CANAL	TRAFF	TIC		
1983	12,954	\$287,791,023	145,948,818	12,615	170,376,563	339	502,303
1984	12,523	289,155,035	140,801,136	12,185	163,522,412	338	560,829
1985	12,766	300,807,914	138,903,258	12,426	170,141,227	340	356,687
1986	13,278	322,734,202	140,125,818	12,899	183,517,249	379	421,102
1987	13,444	329,858,775	148,899,425	13,159	187,139,260	285	381,036
1988	13,441 13,389	339,319,326 329,765,627	156,780,203 151,868,548	13,139 13.055	192,275,497 186,828,878	302 334	264,537 227,028
1990	13,325	355,557,957	157,322,924	13,035	182,495,977	310	384,786
1991	14,108	374,624,737	163,212,553	13,719	192,760,362	389	614,650
1992	14,148	368,662,504	159,615,224	13,822	189,895,491	326	554,746
			, , -		,,		, , , ,

<sup>1</sup> 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.).

<sup>&</sup>lt;sup>2</sup> Free traffic includes ships of the Colombian and Panamanian Governments and ships transiting for repair by the Commission.

<sup>&</sup>lt;sup>3</sup> Includes vessels under 300 net tons, Panama Canal measurement (or under 500 displacement tons for vessels assessed on displacement tonnage).

Table 2.—Oceangoing Commercial Traffic by Months—Fiscal Years 1992 and 1991

	Number of Transits	Transits	Panama Cana	Panama Canal Net Tonnage	Long Tons of Cargo	of Cargo	Tolls	
	1991-92	16-0661	1991-92	16-0661	76-1661	16-0661	1991-92	16-6661
October	1,005	1,057	16,128,253	16,707,635	12,898,296	13.958.989	\$ 31,195,525	\$ 32.363.567
November	959	1,031	15,594,411	16,880,588	12,792,743	13,450,705	30,200,942	32,624,748
December	1,007	1,012	15,754,891	16,476,713	13,718,866	13,990,720	30,603,865	32,203,919
January	1,102	1,069	16,616,079	16,380,900	13,989,270	12,765,155	32,148,424	31,672,292
February	1,042	1,082	15,253,832	16,238,059	12,715,319	12,973,905	29,655,425	31,441,967
March	1,186	1,177	16,632,396	16,753,382	13,947,358	14,224,070	32,287,473	32,544,260
April	1,107	1,065	15,923,614	15,176,965	14,155,296	13,192,667	31,114,174	29,673,759
May	1,061	1,042	15,880,697	15,492,825	13,342,166	13,511,448	30,791,717	30,126,362
June	866	1,015	15,103,200	15,042,574	13,094,757	13,665,432	29,289,724	29,168,535
July	1,003	1,021	15,301,563	15,803,262	13,948,067	14,441,553	29,892,181	30,954,441
August	1,006	1,021	15,708,951	16,072,796	12,032,957	13,649,501	30,159,514	31,004,138
September	978	086	14,618,539	14,761,156	12,637,523	12,871,741	28,377,492	28,501,584
Total	12,454	12,572	188,516,426	191,786,855	159,272,618	162,695,886	5365,716,456	\$372,279,573
Average per month	1,038	1,048	15,709,702	15,982,238	13,272,718	13,557,991	\$ 30,476,371	\$ 31,023,298

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 Traffic1 by Flag of Vessel—Fiscal Year 1992

Measured tonnage Num-Panama Long ber of Registered Canal tons of Flag trancit gross 2 Tolls net cargo Antigua-Barbuda..... 132,862 30 117,228 \$ 234,762 76.081 8,420 37,253 12,502 44,154 Argentina ..... 2 15,198 190 74.879 19,497 1 Austria .... 142 306 6 171,334 274,382 47,888 792 9,907,617 11.588,244 19,474,237 7,265,859 2 24,518 30,244 49,281 21,521 Barbados
Belgium
Belize 2 5,836 7,778 11,730 5,172 3 17,802 20.824 13 20,458 15,486 38,092 10,329 Bermuda 11,988 41,955 491,919 15,092 24,096 15,160 53,783 602,200 52,523 3,076 Bolivia 49,185 588,797 84,330 967,754 80,571 5 Brazil..... 28 46,843 53,305 Bulgaria ..... 3 40,085 Canada ..... 11 42.873 87,872 21,327 23,081 1 42,867 35,277 Chile ..... 96 940,837 1,050,098 1,870,863 1,133,994 Colombia ..... 112 693,319 262,447 665,361 1,365,460 Cuba ..... 559,888 968,272 71 487,337 511,796 Cyprus ..... 8,205,435 237,384 9,508,778 15,903,640 709 8,922,657 Czechoslovakia ..... 15 286,854 453,582 255,113 Denmark ..... 11,229,494 268 5,634,332 6,959,314 4,087,308 1,120 2,462,527 74,293 2,251 4,784,385 598 52 Ecuador ..... 2,793,930 331 1.161.445 140,271 Egypt..... 92,062 86,825 Estonia ..... 2 13,411 17,137 26,716 20,668 1,494 1,521 2,390 Federal Republic of Germany .... 337 4,377,658 5,241,081 8,709,597 3,046,315 Finland ..... 11,257 13.974 22,627 17,784 54 942,416 1,848,601 810,138 639,718 14,442,307 689 11,316,941 12,796,664 22,032,232 Honduras ..... 20 34,314 39,861 66,009 17,738 29 Hong Kong ..... 570,174 696,220 912,981 1,125,227 Hungary ..... 2,680 3,416 5,387 796 Iceland ..... 565 684 1,136 India ..... 38 808,298 976,716 1,561,687 973,866 Iran ..... 44,308 57,516 84,518 8,810 2,962 1,842,990 Ireland ..... 2 1,448 3,166 5,954 2,268,920 64 3,704,410 1,291,787 Italy ..... 94 1,795,569 2,266,063 3,582,789 2,166,072 Japan ...... 390 7,356,083 5,317,596 13,808,588 2,020,320 43,270 153,380 27,142,946 Kuwait ..... 3 58,190 86,973 36,959 Latvia ..... 282,712 52,295,220 11 205,655 116,623 Liberia ..... 28,280,049 1.479 21,824,232 Luxembourg ..... 803,686 63 717,187 1,013,434 1,586,476 Malagasy Republic ..... 9,389 11,531 4,180 18,872 31 476,432 544,795 706,464 938,109 3,823,547 Malta ..... 241 3,283,540 6,281,073 3,331,821 Marshall Islands ..... 23 332,724 389,198 661,844 486,278 Mauritius ..... 17,966 22,311 -1 36,112 30,182 1,815,817 Mexico ..... 65 995,643 1,224,546 601,641 Morocco ..... 10 156,381 194,844 296,788 183,200 Myanmar ..... 1,657,626 50 848,497 980,803 836,263 237 2,657,039 3,034,620 5,198,869 1,851,034 45 450,390 490,470 894,253 166,213 New Zealand ..... 501 650 802 North Korea..... 7,852 9,012 15,783 12,809 702 11,861,502 12,585,759 23,268,353 12,494,362 61,990,806 Panama..... 2,214 32,380,787 33,247,949 22,593,531 2,281 Paraguay ..... 1,740 3,497 2,352 People's Republic of China ..... 5,807,998 268 4,736,761 9,358,773 5,727,876

Table 3.—Canal Traffic1 by Flag of Vessel—Fiscal Year 1992—Continued

		Measured	l tonnage		
Flag	Num- ber of transits	Panama Canal net	Registered gross 2	Tolls	Long tons of cargo
Peru	98	1,093,338	1,089,196	\$ 2,100,659	905,020
Philippines	433	6,500,444	7,386,665	12,799,741	8,320,774
Poland	80	785,250	924,592	1,555,895	681,173
Portugal	3	33,938	44,776	63,274	27,650
Qatar	3	36,154	45,210	72,670	10,392
Romania	13	95,897	114,102	188,915	132,346
Sierra Leone	1	3,176	1,385	6,384	1,181
Singapore	186	3,840,659	3,860,163	7,320,752	3,220,923
South Korea	161	4,502,348	4,880,956	8,784,575	3,617,684
Spain	9	44,771	51,096	\$ 89,125	63,136
Sri Lanka	46	442,468	507,311	854,512	157,316
St. Vincent & Grenadines	133	1,415,492	1,644,657	2,773,643	1,368,232
Sweden	65	2,020,763	1,610,161	3,997,111	756,386
Switzerland	12	300,097	368,302	582,021	429,188
Taiwan	153	5,054,355	5,935,137	10,159,254	4,253,838
Thailand	1	9,273	8,477	14,837	
Toga	3	40,941	17,994	76,696	2,162
Turkey	26	344,463	415,302	678,421	470,139
U.S.S.R	303	2,793,009	3,316,680	5,388,400	2,133,243
United Arab Emirates	6	72,020	90,408	144,760	72,849
United Kingdom	253	4,831,193	5,756,454	9,432,524	4,142,468
United States	414	5,294,941	5,337,951	9,945,766	4,014,829
Vanuatu	202	3,001,576	2,806,754	5,597,111	1,816,917
Venezuela	146	506,701	581,481	996,634	407,098
Yugoslavia	22	321,246	377,508	617,061	353,664
	12,454	188,516,426	204,324,625	\$365,716,456	159,272,618

<sup>&</sup>lt;sup>1</sup> 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.).

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 29 vessels which transited the Canal during fiscal year 1992 and paid tolls on displacement tonnage.

	Flag	Туре	Num- ber of transits	Displace- ment tonnage	Tolls
Belgium		Dredge	1	5,730	\$ 6,418
Canada		Naval	2	7,882	8,828
Chile	***************************************	Naval	3	9,470	10,606
Ecuador		Naval	2	2,384	2,670
France	***************************************	Naval	2	4,067	4,555
Italy	***************************************	Naval	2	14,700	16,464
Mexico		Naval	2	3,662	4,101
Netherlands	• • • • • • • • • • • • • • • • • • • •	Dredge	1	9,486	10,624
Panama		Dredge	3	9,474	10,611
People's Repub	lic of China	Dredge	1	20,123	22,538
Portugal	***************************************	Naval	1	1,800	2,016
U.S.S.R	***************************************	Naval	1	2,899	3,247
United Kingdor	n	Naval	1	5,394	6,041
United Kingdon	n	Dredge	2	12,863	14,407
	***************************************	Naval	2	2,100	2,352
United States .		Dredge	3	5,369	6,013
Total			29	117,403	\$131,491

<sup>&</sup>lt;sup>2</sup> Includes 11 transits where no registered tonnage was reported.



Table 4.—Classification of Canal Traffic1 by Type of Vessel—Fiscal Year 1992

	Grand	Total	3,152	61,837 \$120,101	83,543	55 525 525	\$1,228	5	647	\$ 46,240	1,380	127	2,588	\$5,104	2,743		652 8 929	\$17,795	6,561	1 102	28,171	\$56,614 18,728
		Total	208	10,153 \$16,246	:	ო ფ	\$109	•	257	\$15,615		12	239	\$382	:	•	9£	\$595	:	c	7º	\$42
Ballast	Pacific 10	Atlantic	494	9,988 \$15,981	•	1 20	\$39	:	6	\$166		Ξ	209	\$334	:	;	33	\$514	:			: :
	Atlantic 10	Pacific	14	165 \$265	:	~4	\$71	:	248	\$15.449		-	30	\$49	:	•	r 9	\$81	:	c	7 9 7 9 7 9	\$42
	_	Total	2,644	51,683 \$103,855	83,543	19	\$1,119	101	390	\$30,626	1,380	311	2,349	\$4,721	2,743		612	\$17,200	6,561	1	28,145	\$56,571 18,728
Laden	Pacific 10	Atlantic	1.047	18,462 \$37,108	28,101	7	\$371	617	280	\$22,003	1,227	S	1.270	\$2,553	1,075		283	\$7,990	3,105	073	14,366	\$28,876 8,831
	Atlantic to	Pacific	1.597	33,221	55,442	12	\$748	200	110	\$8,290	153	73	1.079	\$2,168	1,668		329	\$9,210	3,457	649	13.779	\$27,695 9,897
		Type of Vessel CARGO AND CARGO/PASSENGER SHIPS: Rulk Carriers:	Dry Bulk Carriers: Number of transits	Panama Canal and the top of the t	Cargo (thousands of long tons)Drv/Lionid Bulk Carriers	Number of transits	Talls (thousands of dollars)	Cargo (thousands of long tons)Vehicle Carriers	Number of transits	Panama Canal net tonnage (thousands)	Cargo (thousands of long tons)	Vehicle/Dry-Bulk Carriers:	Number of transits		Cargo (thousands of long tons)	Container/ Breakbulk Ships:	Number of transits	Tanama Canal net tonnage (thousands)	Cargo (thousands of long tons)	Full Container Ships:	Number of transits	Tolls (thousands of dollars)

General Cargo Ships: Number of transits Panama Canal net tonnage (thousands) Tolls (thousands of dollars) Cargo (thousands of long tons)	778 6,104 \$12,270 5,316	667 5,469 \$10,992 4,091	1,445 11,573 \$23,262 9,407	49 313 \$501	101 600 \$959	150 913 \$1,460	1,595 12,486 \$24,723 9,407
Passenger Snips (4): Number of transits Panama Canal net tonnage (thousands) Tolls (thousands of dollars)	91 1,966 \$3,952	52 1,061 \$2,133	3,028 \$6,086	2 8 813	3 15 \$24	23 23 \$37	3,051 \$6,123
Refrigerated Cargo Ships: Refrigerated Cargo Vessels: Number of transits Panama Canal net tonnage (thousands)	605	1,253	1,858	622	36	658	2,516
Tous (thousands of dollars)  Cargo (thousands of long tons)  Fishing Vessels:  Number of transits  Danger Card thousands)	728 728 136	4,014	325,934 4,742 325	51	7	58	383 383 336
Taliana Canal net tollings (incusalius)  Tolls (thousands of dollars)  Cargo (thousands of long tons)  Tank Ships:  Tankers:	\$221 15	\$324 96	\$545 111	688	\$15	\$104	\$50 \$649 111
Number of transits Panama Canal net tonnage (thousands) Tolls (thousands of dollars) Cargo (thousands of long tons)	711 11,019 \$22,149 17,564	485 7,512 \$15,098 11,315	1,196 18,531 \$37,247 28,879	2,125 \$3,400	3,025 \$4,840	321 5,150 \$8,240	1,517 23,681 \$45,487 28,879
Liduid Gas Carriers.  Number of transits.  Panama Canal net tonnage (thousands)  Tolls (thousands of dollars).  Cargo (thousands of long tons).	115 1,299 \$2,611 1,339	15 186 \$375 154	130 1,486 \$2,986 1,493	50 \$80	75 883 \$1,413	79 934 \$1,494	209 2,419 \$4,480 1,493

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	282	24	108	:	366	200	1,000	63 463	406			12,070	186,713	3362,220	128,308	304	1 003	1,003	62 524	170,00	\$	737 61	12,434	166,510	6365 716	150,73	017,401
	<u>&amp; 3</u>	¥ 2	301	:	120	671	ţ	6073				2,093	31,888	\$21,020	:	1.47	14/	100	61 034	41,034	:	070	2,240	32,431	/11	377,074	:
	∞ 8	878	\$35	:	8	26	200	11	7700			983	15,362	\$24,580	:	00	8 6	900	39	9073	:		1,081	13,8/2	39	\$23,434	:
	23	979	\$78	:	00	7	25	27	7		;	1,110	16,525	\$26,441	:	9	4	25	8/18	2/18	:		1,139	16,580	8/2776	\$20,015	:
	:	:	:	:	100	122	1,239		904			6,977	154,826	\$311,200	158,368	100	757	1,239		32,491	\$		10,214	156,065	6232	3513,003	517,601
	:	:	:	:	601	707	401		145	!		4,897	72,377	\$145,477	62,282		707	401		37.78	145		4,999	72,838	90177	\$140,403	174,70
	•	:	:	:	901	133	8//		31,363			2,080	82,449	\$165,723	980'96		135	8//		\$1,263	66/		5,215	83,227		\$167,238	96,846
OTHER TYPE SHIPS: Novel Vessels:	Number of transits	Displacement tonnage (thousands)	Tolls (thousands of dollars)	Cargo (thousands of long tons)	Barges, Dredges, Drydocks, Tugs, etc.:	Number of transits	Panama Canal net tonnage (thousands)	Displacement tonnage (thousands)	Tolls (thousands of dollars)	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)

1 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 2 Vessels certificated for more than 12 passengers. vessels paying on displacement tonnage.



Table 5.—Laden and Ballast Traffic by Flag of Vessel Fiscal Year 1992

		Laden			Ballast	
	Num-			Num-		
	ber	Panama	•	ber	Panama	•
	of	Canal net		of	Canal net	
Flag	transits	tonnage	Tolls	transits	tonnage	Tolls
Antigua-Barbuda	29	115,116	\$ 231,383	1	2,112	\$ 3,379
Argentina	1	4,210 37,253	8,462	1	4,210	6,736
Australia	1	37,253	74,879			
Dahamas	5 665	113,885 8,834,268	228,909 17,756,879	127	28,421 1,073,349	45,474 1,717,358
Bahrain Barbados Belize Bermuda	2	24,518	49,281		1,073,349	1,717,336
Barbados	2	5,836	11,730			
Belize	8	13,072	26,275	5	7,386	11,818
Bolivia	1 5	11,988	24,096	• • • • •	• • • • • •	• • • • • • •
Bolivia	25	41,955 440,691	84,330 885,789	3	51,228	81,965
Bulgaria	3	40,085	80,571		31,220	01,703
Brazil Bulgaria Canada Cayman Islands Chile Colembia	5	25,482	51,219	4	17,391	27,826
Cayman Islands	_1	21,327	42,867			
Chile	84 93	865,652	1,739,961	9	75,185	120,296
Cuba	62	624,754 459,837	1,255,756 924,272	19	68,565 27,500	109,704 44,000
Cyprus	577	6,768,155	13,603,992	132	1,437,280	2,299,648
Cyprus	13	179,920	361,639	2	57,464	91,942
Denmark	236	5,401,372	10.856.758	32	232,960	372,736
Dominican Republic	2	1,120	2,251		409,669	655,470
Dominican Republic Ecuador Egypt Estonia Faroes Federal Republic of Germany Finland France	264	2,052,858 52,200	4,126,245 104,922	65 1	409,669 22,093	35,349
Estonia	ĭ	12,825	25,778	i	586	938
Faroes				i	1,494	2,390
Federal Republic of Germany	314	4,159,377	8,360,348	23	218,281	349,250
Finland	39	11,257 819,953	22,627	13	122,463	106.041
Greece	563	9,573,479	1,648,106 19,242,693	126	1,743,462	195,941 2,789,539
Honduras	16	27,089	54,449	4	7,225	11,560
Hong Kong	26	519,388	1,043,970	3	50,786	81,258
Hungary	1	2,680	5,387			
Fininad France Greece Honduras Hong Kong Hungary Iceland India	30	565 654,659	1,136	8	153,639	246 022
Iran	30	33,231	1,315,865 66,794	î	11,077	245,822 17,723
Iran	2	2,962	5,954			
Israel	64	1,842,990	3,704,410	5		
Italy	87	1,691,256	3,399,425	. 5	104,313	166,901
Ireland Israel Israel Italy Japan Kuwait	317 3	4,972,720 43,270	9,995,207 86,973	73	2,383,363	3,813,381
Latvia	7	90,985	182,880	4	62,395	99,832
Latvia	1,227	21,693,943	43,576,815	252	5,449,003	8,718,405
Liberia Luxembourg Malagasy Republic Malaysia Malta Marshall Islands Mauritius Mexico Marceco	52	733,117	1,473,565	11	70,569	112,910
Malaysia	28	9,389 428,823	18,872 861,934	3	47,609	76,174
Malta	186	2,505,875	5,036,809	55	777,665	1,244,264
Marshall Islands	22	315,818	634,794	ĭ	16,906	27,050
Mauritius	.1	17,966	36,112			
Mexico	39 7	533,382	1,072,098	24	462,261 42,775	739,618
Myanmar	42	113,606 731,782	228,348 1,470,882	3	116,715	68,440 186,744
Netherlands	195	2,285,323	4,593,499	41	371,716	594,746
Netherlands Netherlands Antilles New Zealand North Korea	42	423,486	851,207	3	26,904	43,046
New Zealand		7.000		ı	501	802
Norway	609	7,852 10,463,292	15,783 21,031,217	93	1,398,210	2,237,136
Norway	1,709	24,807,161	49,862,394	502	7,573,626	12,117,802
Paraguay	1	1,740	3,497			
People's Republic of China	240	4,286,385	8,615,634	27	450,376	720,602
Philippines	81 367	856,874 5,851,293	1,722,317	17	236,464	3/8,342
Poland	71	730,475	11,761,099 1,468,255	66	649,151 54,775	1,038,642 87,640
Portugal	í i	16,969	34,108	í	16,969	27,150
Qatar	3	36,154 86,535	72,670			
Romania	11	86,535	173,935	2	9,362	14,979
Singapore	149	3,176	6,384	37	973,104	1 666 066
People's Republic of China Peru Philippines Poland Portugal Qatar Romania Sierra Leone Singapore South Korea Spain Sri Lanka	149	2,867,555 3,855,653	5,763,786 7,749,863	37 19	973,104 646,695	1,556,966 1,034,712
Spain	7	42,663	85,753	2	2,108	3,373
Sri Lanka St. Vincent & Grenadines	37	357,471	718,517	9	84,997	135.995
St. Vincent & Grenadines	117	1,241,112	2,494,635	16	174,380	279,008
Switzerland	58 10	1,863,147 248,454	3,744,925 499,393	7 2	157,616	252,186
Taiwan	153	5,054,355	10,159,254	2	51,643	82,629
St. vincent & Grenadines Sweden Switzerland Taiwan Thailand Toga				1	9,273	14,837
loga	2	27,294	54,861	1	13,647	21,835

Table 5.—Laden and Ballast Traffic by Flag of Vessel Fiscal Year 1992—Continued

		Laden				Ballast		
Flag	Num- ber of transits	Panama Canal net tonnage		Tolls	Num- ber of transits	Panama Canal net tonnage	Tolls	5
TurkeyUnited Arab Emirates	23 6	310,439 72,020	\$	623,982 144,760	3	34,024	\$ 54,	438
United Kingdom	206	4,137,984		8,317,348	46	693,209	1,109,	
United States	275 244	3,574,379 2,234,973		7,184,502 4,492,296	134 58	1,720,562 558,036	2,752, 892,	858
Venezuela	123	1,938,023 453,446		3,895,426 911,426	57 23	1,063,553 53,255	1,701, 85,	
	10 214	251,384	-	505,282	3 211	69,862	111,	779
Vanuatu			s:	3,895,426 911,426	57	1,063,553 53,255	1,701, 85,	685 208 779

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

Avore	gros	ionna	vesse					14,6	1,5,1	3,8		15,0			3 15,6						3 13,4					23,0		1,1	13.9	3 15,8			24,0			7,7		35,4	•	5 13,6	
		Kegistered	tonnage	132,862	12,502	44,154	171,334	11,588,244	30,24	7,778	15,486	15,092	49,18	588,79	46,843	45,492	23,08	1,047,183	965,36	559,888	9,508,778	286,85	6,959,314	298	2,792,06	92,062	1,13	5 241 08	13.974	810,138	12,796,66	39,861	696,220	3,416	076 717 ATO	57 516	3.166	2,268,920	2,244,28	5,317,596	70,170
			Total 2	30	2	-	9	792	2	7	13		5	78	m	ς.	- ;	93	112	71	709	15	268	7	329	4 (	7 -	117	5	51	689	2	29		36 T	00	7	\$	92	330	ŋ
Table 6.—Segregation of Transits¹ by Registered Gross Tonnage—Fiscal Year 1992	000 07	90,000	over	:	:	-	:	12	:	:	:	:	:	9	:	:	:	:	:	:	9	:	901	:	:	:	:	:		7	:	:	:	:		•				9	:
Fiscal Y	900 00	30,000	39,999	:	:	:	_	34	:	:	:	:	:	:	:	:	:	:	:	:	36	4	9	:	:	:	:	:01	:	2	504	::	13	:		0		26	38	25	:
nage-1	900 00	000,02	29,999	:	:	:	5	202	:	:	:	:	:'	,	-	:	<b>-</b> ·	2	:	:	87	4	15	::	Ξ,	4	:		:		19	:	:	:	:0	<b>N</b>		00	56	76	-
oss Ton	000 31	000,61	19,999	:	:	:	:	25	2	:		-	:	4	:	:	:	:	:	2	114	:	∞	:	21	:-	-		3	<u>~</u>	08	::	Ξ	:		2			e j	28	4
ered Gr	000 07	00001	14,999	4	:	:	:	194	:	:	:	:	:	Ω (	7	7	:	73	46	29	163	4	30	:	4	:	:	77	!	2	125	:	~	:	::	14			2	2	:
y Regist	000	8,000	666'6	:	:	:	:	109	:	:	:	: '	o,	9	:	<b>-</b>	:	6	:	15	146		7	:	4/	:	:	7	! :	:	8	:	-	:	:	:			=:	12	:
ınsits¹ b	000	00000	7,999	2	7	:	:	74	:	:	:	:	:	:	:	:	:	:	-	:	47	m ·	4	:	125	:	:	=	: :	:	49	2	:	:	:	:			:	27	
n of Tra	,	9,000	5,999	7	:	:	:	70	:	_	:	:	:	:	:	-	:	:	:	:	42		00	:	-	:	:	23	1	4	6	:	-	:	:			:	<u>س</u> (	21	
gregatio	000 €	7,000	3,999	6	:	:	:	48	:	-	:	:	:	:	: '	3	:	-	4	24	8	:	0	:	70	:	:	7	` :	7	:	:	:	-	:	:		:	:	×	:
6Se		Tindor	2,000	∞	:	:	:	24	:	:	2	:	:	:	:	7	• (	∞ ,	9	-	38		65	7 9	€	:		- 0	•	2	74	15	:	:-	-		2	:	- ;	151	:
Table				Antigua-Barbuda	Argentina	Australia	Austria	Bahamas	Bahrain	Barbados	Belize	Bermuda	Bolivia	Brazil	Bulgaria	Canada	Cayman Islands	Chile	Colombia	Cuba	Cyprus	Czechoslovakia	Denmark	Dominican Republic	Ecuador	Egypt	Estonia	Federal Republic of Germany	Finland	France	Greece	Honduras	Hong Kong	Hungary	Irelatio		Ireland	Israel	Italy	Japan	Nuwall

18,696 19,121 16,086 11,531 17,574 15,865 16,922	19,484 19,484 19,616 10,899	9,012 17,928 15,035 2,281 21,699 11,114 17,059	21,630 15,070 8,777 1,385 20,754 30,316 5,677 11,028	24,772 30,692 38,792 8,477 15,973 10,975 115,068 13,332 13,895
205,655 28,280,049 1,013,434 11,531 544,795 3,823,547 389,198	1,221,746 194,844 980,803 3,026,670 490,470 650	33,242,350 33,242,350 33,242,350 5,793,670 1,089,196 7,386,665 924,592	43,260 45,210 114,102 1,385 3,860,163 4,880,956 51,096 507,311 1,644,657	1,610,161 5,935,137 8,477 17,994 117,994 3,314,396 5,750,973 5,332,844 2,806,754
1,479 63 63 1 1 241 23	236 236 152 153 153 153 153 153 153 153 153 153 153	2,211 2,211 267 98 433 80	13 186 161 161 186 133	65 1153 1153 126 302 400 202
772		113		88 3 9 22: : 2 : : 85 8
232 232 1	30	85 302 43		11 54 7 7 7 86 86 26
252 28 28 29 29 4 4		215 182 182 122 122 84	35 35 65 65 18	22 22 22 22 22 22 22 22 22 22 22 22 22
179 179 1	12 12 12	114 160 160 114 160 62 62	30.25	0
424	22 13 69 7	320 320 38 72 48 33	62	8 8
				90 1471
				388 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
32	36	318		25 4 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
15	39	270 1 1		
				53
Latvia Liberia Luxembourg Malagasy Republic Malaysia Matria Marshall Islands Mantifus	Mexico Morocco Myanmar Netherlands Netherlands Antilles	Norway Panama Paraguay People's Republic of China Peril Peril Peril Philippines	Portugal Qatar Romania Sierra Leone Singapore South Korea Spain Sri Lanka Sri Lanka St. Vincent & Grenadines	Sweden Switzerland Tawan Thailand Toga. Toga. U.S.S.R. United Arab Emirates United Kingdom United Kingdom Vinited Kingdom

Table 6.—Segregation of Transits¹ by Registered Gross Tonnage—Fiscal Year 1992 (Continued)

Average gross tonnage per vessel	3,983 17,159 16,451
Registered gross tonnage	581,481 377,508 204,227,382
Total 2	146 22 12,414 100.0
40,000 and over	541
30,000 10 39,999	1,638 13.2
20,000 10 29,999	1,865
15,000	8 1,239 10.0
10,000 10 14,999	15 2,344 18.9
8,000 10 9,999	8 1,413 11.4
6,000	1,092 8.8
4,000 10 5,999	783
2,000 10 3,999	582
Under 2,000	917
	Venezuela Yugoslavia Total Percent of Total

<sup>1</sup> Includes only commercial vessels of 300 net tons and over, Panama Canal measurement.

<sup>2</sup> Excludes 29 vessels paying tolls on displacement tonnage basis and 11 transits where no registered tonnage was reported.



Table 7.—Principal Commodities Shipped through Canal by Fiscal Years 1990 through 1992

	0661	4,796	128	21	4	80	23	4,668	1,621	=	927	1,154	63	891	962		871	91	3,051	2,242	292	3	-	432	6	97	1,363	45	6,861	3,695	748	2,063	355	1,700
North Pacific to Atlantic	1661	5,229	140	24	15	89	32	5,089	2,115	48	714	1,288	117	808	1,181	53	1,061	92	3,756	3,312	595	48	_	419	:	30	2,161	49	5,883	2,779	299	2,058	379	1,237
Pacific	1992	5,018	124	9	74	99	53	4,894	2,145	89	397	1,342	102	841	1,446	96	1,192	158	4,484	3,034	112	53	7	280		20	2,189	86	5,222	1,832	801	2,272	316	1,11,1
[Thousands of long tons]	Commodity	Canned and Refrigerated Foods	Canned Foods	Fish	Fruit	Milk	Other and unclassified	Refrigerated Foods	Bananas	Dairy Products	Fish	Fruit, excluding bananas	Meat	Other and unclassified	Chemicals and Petroleum Chemicals	Caustic Soda	Chemicals, unclassified	Petroleum Chemicals, miscellaneous	Coal and Coke (excluding petroleum coke)	Grains	Barley	Corn	Oats	Rice	Sorghum	Soybeans	Wheat	Other and unclassified	Lumber and Products	Boards and planks	Plywood, veneers, composition board	Pulpwood	Other and unclassified	Machinery and Equipment
ýic	1992	908	33	-	4	23	9	773	∞	6	991	135	15	439	6,327	734	4,277	1,316	4,424	29,684	16	14,329	37	138	1,947	7,207	5,435	201	4,663	20	S	1,518	3,070	
South Atlantic to Pacific	1661	830	18	2	e.	=	2	812	∞																								2,493	
Aul	0661	701	30	2	3	6	16	671	9	-	209	55		389	5,770	918	3,566	1,286	5,065	27,998	10	14,012	2	224	2,029	6,059	5,425	237	2,608	<u>&amp;</u>	18	086	1,592	

1,384 1,384 106 9 2 40 40	1,471 333 166 863 4,733	3 424 1,374 222 2,710 2,079	28 1,281 383 268 52 67 8,686 7,410	3,040 46 471 413 224 313 12 763 2,128
1,378 1,378 59 26 24 24 39 39	28 1,242 337 197 197 4,814	398 1,139 323 2,954 1,562	25 795 296 339 32 7,714 6,375	1,706 1,706 19 488 295 243 172 4 4 927 2,521
1,323 35 35 9 23 23 23 2817	91 34 1,357 323 226 786 4,398	368 	19 658 388 388 227 2 39 6,616 5,547	769 28 1,037 407 182 130 1,159 1,159
Agricultural machinery and implements Automobiles, trucks, accessories and parts Construction machinery and equipment Electrical machinery and apparatus Motorcycles, bicycles and parts Other and unclassified Manufactures of Iron and Steel	Angles, shapes, and sections Nails, tacks, and spikes Plates, sheets, and coils Tubes, pipes, and fittings Wire, bars, and rotals Other and unclassified Minerals, miscellaneous	Asbestos Borax Infusorial earth Salt Soda and sodium compounds Sulfur Nitrates, Phosphates, and Potash	Ammonium compounds Fishmeal Nitrate of soda Phosphates Potash Fertilizers, miscellaneous Ores	Alumina/bauxite. Chrome Copper Copper Iron Lead Manganese Tin Zinc Other and unclassified
277 277 99 22 24 3,854	152 17 2,022 225 735 702 88	12 36 31 31 8 12,460	648 8,354 8,354 2,942 2,942	159 62 28 28 120 120 140 140 188
0110 10101	1000000			162 73 73 26 161 15 92 74 234
				229 67 67 1182 88 88 86 30 1189

Table 7.-Principal Commodities Shipped through Canal by Fiscal Years 1990 through 1992-Continued

	0661	1,275	13	892	4 8	€ 8	78	= 2	077	3 634	26	4	421	7	Z	714	œ :	=;	4 ¢	2 153	6,13	13,521		6,575	88	3,620	310	2	147	171	2,44,7	70
North Pacific to Atlantic	1661	1,340	12	978	<u>5</u>	<u>₹</u>	• •	00 5	× <	3 287	63	4	318	9	19	633	33	9 %	ج د	2 053	3,	10,964	-	5,024	141	2,037	1,162	07	41	129	2,365	ရိ
Pacif	1992	1,069	6	\$	43	8	7	× 5	35	3 201	100	38	281	7	11	4	19	23	\$	1 885	-,	11,826	10	3,936	538	3,28/	96	115	155	213	2,610	1+7
[Thousands of long tons]	Commodity	Metals	Aluminum	Copper	Tron	Lead	Scrap	Tin, including tinplate	Zinc	Other Apricultural Commodities	Beans, edible	Cocoa and cacao beans	Coffee, raw and processed	Copra and coconuts	Cotton, raw	Molasses	Oilseeds	Peas, dry	Kudoet, faw	Short	Wood raw	Petroleum and Petroleum Products	Asphalt	Crude oil	Diesel on	Fuel on, residual	Gasoline	Vergena	Liquefied gas	Lubricating oil	Petroleum coke	Other and unclassified
ific	1992	2,204	465		243	7	1,424	-	4 Ć	1.768	10	7	9		4	12	236	יין ניי	` -	1 450		13,373	108	4,346	300,7	7,055	-,040 -,040	1,021	1,085	266	895	213
South Atlantic to Pacific	1661	2,865	503	8	<u>8</u> .	- 6	7,107	70	× =	1.848	=	7		:	19	17	76	='	7	1640	-	13,036	20	3,215	1,368	7,500	1,804 408,1	200	1,338	578	748	250
Ath	1990	2,974	409	∞ ;	167	21.0	7,180	Ξ,	- 07	1.803	78	4	7	7	51	13	122	17	4 "	1.508	226	11,709	25	2,687	1,430	1,891	1,938	101	666	612	784	100

11,034 11 1 1 87	22.521	213 232 448	16 13 28 36 36	15 13 9,375 412 66,107
11,189 4 111 5 21	52 52	46 144 191 551	s <del>2</del> s <del>8</del>	11 9,567 487 63,236
11,615	224 4 29	115 115 214 494	20 20 33 33 33 33 33 33	9,837 662 62,427
Miscellaneous  Bricks and tile Carbon black Cement Clay, fina and china	Flour, wheat Glass and glassware Groceries, miscellaneous Liquors and wines	Marble and stone Oil, coconut Oil, fish Oil, fish Paper and paper products	Porcelainware Resin Rubber, manufactured Seeds, excluding oilseeds Slag, clinkers, and dross	Textiles Tobacco and manufactures Wax, paraffin Container cargo. All other and unclassified Total.
15,940 26 113 318 724	272 8 8 8 2 12	127	10 7 7 71 52 17	11,039 618 96,846
				11,628
14,861 11 28 543 623	11 11 7 7	6 176 944	12 14 14 14 14	11,347 547 90,966

Table 8.—Origin and Destination of Commercial Cargo Through the Panama Canal from Atlantic to Pacific During Fiscal Year 1992 Segregated by Countries in Principal Trade Routes

			525 633  217 894	926	338,964 399,964 384 10,814 450,126	062 062 063 063	12,184 73,321 123,946 103,369 312,820
		Total	274,525 142,633 3,876,217 66,319 4,359,694	296,926	1,038,964 399,964 384 10,814 1,450,126	138,662 230,061 1,729,660 62,682 2,161,065	12,184 73,321 123,946 103,369
		Balboa, R.P.²	11,077 12,894 578,033 5,524 607,528	:	1,280 394,332 65 10,790 406,467	839 25,527 72,563 98,929	57,432 15,611 2,385 75,428
	a	Central America (other) 1	4,920 486 132,727 2,764 140,897	:	150	46,316 34 19,786 1,754 67,890	12,054 177 12,200 29,567 53,998
	Americ	Pan- ama	2,819 28,448 71,020 432 102,719	2,218	5,632 169 25,801	430 12,906 443 13,779	14,919
	st Central	Nica- ragua	20,606 4,100 115,704	5,121		5,014 1,949 651,934 658,897	130
	To West Coast Central America	Mexico	108,134 84,118 1,355,254 28,828 1,576,334	776,527	681,853	20,062 182,177 106,250 47,533 356,022	1,236
	To	Guate- mala	85,386 20 402,892 28,686 516,984		6	34,861 15,737 326,765 4,082 381,445	5,696 25,708 6 31,410
		El Sal-	36,419 6,513 621,735	60'6	354,532	7,025 4,076 460,008 471,109	1,494
		Costa , Rica )	5,164 6,054 598,852 85 85 610,155	3,965	1,299	24,545 131 79,448 8,870 112,994	178 55,508 64 55,750
Long tons]	To W. C. Canada	Canada	19,298 5,472 10,676 35,446	705		43,064 9,795 13,271 5,954 72,084	10,051 29,658  18,834 58,543
=	sən	Total	45,449 24,103 1,496,549 52,798 1,618,899	969'68	3,223 1,944 5,317	786,364 206,169 1,991,623 51,671 3,035,827	2,618 182,136 206,207 164,999 555,960
•	To West Coast United States	Main- land	41,259 22,265 1,496,549 52,798 1,612,871	89,627	3,223 1,944 5,317	785,319 85,066 1,798,201 47,103 2,715,689	2,618 151,175 178,427 164,999 497,219
) )	West Coas	Hawaii	4,190	69		108,643	30,961 27,780
	To	Alaska Hawaii	1,838	:		1,045 12,460 4,568 18,073	
			EAST COAST NORTH AMERICA: United States: North Atlantic ports South Atlantic ports Great Lakes ports Gulf ports United States (other )! Total United States	EAST COAST CANADA	EAST COAST CENTRAL AMERICA:  Mexico Panama Central America (other)!  Cristobal, R.P.2.  Total Central America	EAST COAST SOUTH AMERICA: Brazil Colombia Venezuela South America (other) Total South America	WEST INDIES: Cuba Jamaica Jamaica Netherlands West Indies Trinidad/Tobago West Indies (other) Total West Indies

EUROPE:														
Belgium	:	:		327,862	23,597	11,311	13,329	48,418	9	21,327	63	9,446	1,125	105,079
France	537	:		179,468	18,373	22,013				5,914		:	6,741	34,668
Germany	:			319,313	31,940	3,107	6,950	16,541	99	3,298	714	4,850	2,927	38,453
Italy	:	:		254,524	25,466	12,465	595	13,179		1,126	12	:	3,509	30,886
Netherlands	:	:		320,939	38,274	17,155	1,248	31,875	29,628	10,654	:	4,586	3,270	98,446
Norway	:	:		156,644	108	750		10,005	:	6,514		:	:	17,269
Spain-Portugal	:	:		116,172	6,412	969'9	48,373		1,224	6,303	4	213	23,015	85,868
Sweden	:	: : : : : : : : : : : : : : : : : : : :		51,596	322	:	:	: : : : :	:	:	69		:	69
United Kingdom	:	:		114,677	10,883	:			:	:	6		1,540	1,549
U.S.S.R.	:	:		:	:	9,352	88,847	13,090	30,294	663	15	2,604	:	144,865
Europe (other)1	3,059	:		854,126	131,467	14,134	17,395	6,749	217,645	25,360	•	52,176	4,411	337,870
Total Europe	3,596	:	2,691,725	2,695,321	286,842	96,983	176,737 139,857 278,947	139,857	278,947	81,159	926 73,875	73,875	46,538	895,022
ASIA (MIDDLE EAST)	9,578	:		80,592	:		13,779	936		5,463	∞		:	
AFRICA	:	315		45,521	850,602	:		:		•		4		
GRAND TOTAL	33,085	365,380	,728,668	8,127,133	1,304,222	881,161	1,721,079	1,070,641		899,769		336,824	1,234,890	9,718,988
Percent of Pacific-bound cargo	0.0	0.4		8.4	13					0	=	"	-	9

Table 8.—Origin and Destination of Commercial Cargo Through the Panama Canal from Atlantic to Pacific During Fiscal Year 1992 Segregated by Countries in Principal Trade Routes-Continued

[Long tons]

	ceania other)	60,836 294,863 41,919 400,966	131,398 2,083,946 29,806 260,196		3,418 79,704	3,265	14 14	30	14 3,309					71,12	:	5,963	392 61,747
To Oceania	French New Oceania Oceania Zealand (other) '	62,970 205,589	276,602	580,400	32,807	2,063		8	2,093					71,12			51,177
1	French Oceania	5 581	5		:	2			2								
	Aus- tralia	170,476	1,675,946		43,479	1,202			1,202					316		9,963	10,178
	Total	470,924 595,969	453 3,379,947 338,209	4,785,502	230,491	343,683	11,648	33,213	417,305	\$77.50	1,654,414	1,461,253 87,842	3,300,234	819	354,455	93,244	599,429
20	South America (other) 1	61,072	128,898	1	8,419	22,288	1,585	9,439	34,349	5 744		44,258	•	:	51,176	•	•
uth Ameri	Peru	134,933	453 1,109,831 55,572	1,409,215	22,220	56,738	1,400	3,129	86,809	3 130	1,080,404	427,872	1,519,231	•	94,432	2,769	148,937
To West Coast South America	Ecuador	103,973 289,438	496,044	946,046	48,711	140,537	1,396	11,600	153,533	P1.1 1.9	10,668	180,521	294,253	550	47,597	53,846 25,488	127,481
To We	Colombia	41,655	403,499	503,178	141,510	87,477	2,182 7,267	129	97,055	23 713	481,816	12,463	535,330	128		24,707 15,819	40,654
	Chile	129,291	1,241,675	1,628,659	9,631	36,643		8,916	45,559	305	55,878	796,139	860,037		161,250	64,057 201	225,508
	EAST COAST NORTH AMERICA:	United States: North Atlantic ports South Atlantic ports			EAST COAST CANADA	EAST COAST CENTRAL AMERICA: Mexico	Panama Central America (other)	Cristobal, R.P. <sup>2</sup>	Total Central America	EAST COAST SOUTH AMERICA:	Colombia	Venezuela		WEST INDIES:	Jamaica Netherlands West Indies	Trinidad/Tobago	Total West Indies

EUROPE:											
Belgium	181,333	41,081	59,926		25,571	405,970	3,993	32,547	58,128	45,561	140,229
France	21,388	6,329	5,061		7,746	66,622	2,153	016,601	5,628	39,393	157,084
Germany	126,801	32,491	49,601		7,556	268,666	45,025	6,664	11,343	25,072	88,104
Italy	15,108	10,190	5,793		8,999	58,778	275	7,625	5,117	2,849	15,866
Netherlands	88,014	4,840	3,697		9,011	120,967	64,480	15,030	45,850	20,537	145,897
Norway	24,536		:		:	24,536	19,164	:	:	:	19,164
Spain-Portugal	49,838	3,104	22,794		9,159	104,387	5,250	148	:	179	5,577
Sweden	39,867	5,770	16,612		786	70,709	78,317	:	8,561	130	87,008
United Kingdom	50,781	4,094	4,941		149	74,400	872	616	15,584	12,492	29,867
U.S.S.R.	12,381	30,678	51,188		11,786	119,433	:	:	:	:	
Europe (other) <sup>1</sup>	134,408	69,132	76,786		99,310	450,026	58,161	54,943	4,353	99,183	216,640
Total Europe	744,455	207,709	296,399	335,858	180,073	1,764,494	277,690	227,786	154,564	245,396	905,436
ASIA (MIDDLE EAST)	90,273	:	19,310	395	:	816,601	9		:	-	7
AFRICA	1,240	10,885	44,072	6,167	1,266	63,630	32	:	157,514	24	157,570
GRAND TOTAL	3,605,362	1,536,321	1,929,805	3,528,832	670,743 1	1,271,063	2,523,554	232,431	978,555	513,204	4,247,744
Percent of Pacific-bound cargo	3.7	1.6	2.0	3.6	0.7	11.6	2.6	0.2	1.0	0.5	4.4

Table 8.—Origin and Destination of Commercial Cargo through the Panama Canal from Atlantic to Pacific during Fiscal Year 1992 Segregated by Countries in Principal Trade Routes-Continued

				2	[Long tons]	To Asia								Percent of total
EAST COAST NORTH AMERICA:	China	Taiwan	Hong Kong	Indo- nesia	Japan	Philip- pine Islands	Singa- pore	South	Thai- land U.	U.S.S.R. (	Asia (other) <sup>1</sup>	Total	Grand	Pacific- bound cargo
United States: North Atlantic ports	202,038 243,249	617,200 570,996		7,671	1,349,824	5,085 1 29,967 1				: :	243,062	4,378,803 3,883,346	5,483,862 5,052,489	5.2
Gulf ports	8,708,960	6,739,979 529,222	82,595	224,655 22 9,553	22,168,184	103 1036,98	371,914 3	3,812,789 : 433,713	302,279	123,630	1,994,893 4 369,534	2,833,447	55,888,952 3,550,969	3.7
Total United States		8,478,363		300,426 26						123,642	3,125,665	56,192,643	70,032,155	72.3
EAST COAST CANADA	236,292	260,528	88,084	:	332,722	19,489	12,601	164,505	. 767,61	:	147,992	1,279,010	1,976,532	7.0
EAST COAST CENTRAL AMERICA:  Mexico Panama Central America (other)!  Cristobal, R.P. <sup>2</sup> Total Central America	66,962 4,571	6,200	31,062  1,000 32,062		7,255 4,729 1,503 13,487	1,490	11,605	32,769	60,037		33,258 3,247 36,505	250,638 4,728 4,729 6,450 266,545	1,639,773 433,467 16,911 52,451 2,142,602	0.0
EAST COAST SOUTH AMERICA: Brazil Colombia Venezuela South America (other) Total South America	3,954 11,022 9,731 16,654	5,041 3,143 45,066 667	20,030 27,573 1,237 48.840		579,407 60,396 899,556 69,863		474 38 1,911	38,655 67,747 11,077	15,000		14,761 14,426 376 29,563	677,322 74,561 1,064,137 101,785 1,917,805	1,742,137 2,175,000 6,259,944 309,934 10,487,015	1.8 2.2 6.5 10.8
WEST INDIES: Cuba Jamaica Jamaica Netherlands West Indies Trinidad/Tobago West Indies (other) Total West Indies	794,658	30,275 21,436 20,176 71,887	39,598 36,598 1,423 41,385	9,261			6,507	•	•	97,311	58,173 2,378 1,679 653 22,236 85,119	1,343,867 113,122 156,885 116,754 121,866 1,852,494	1,417,957 146,005 766,797 626,756 483,478 3,440,993	1.5 0.2 0.6 0.6 3.6

EUROPE:														
Belgium	:	1,016	1,150	286	2,739	:	1,392	8	:::::::::::::::::::::::::::::::::::::::	:		6,649	1,009,386	0.1
France	:	3,350	1,122	18	6,251	:	74	5,947		:	:	16,825	473,040	0.5
	:	1,036		:	125,781	:	4	3,242		:		130,073	876,549	6.0
	:		81	:		:	:	:		:	1,849	1,867	387,387	0.4
Netherlands		11,039	Ξ	:	29,485	:	20	4,958		:	5,793	51,406	775,929	8.0
			:	154	42,219	:		:		:		42,373	260,094	0.3
rtugal		773	21	:	37,374		:	4				38,212	356,628	9.4
				:		:	15		:		143	158	209,862	0.2
United Kingdom	400	24		:	24,084	:	24	1,478		:	8,875	34,885	266,261	0.3
						:		:	:				264,298	0.3
	6,305	7,995	783	621	180,724	34	731	7,038			58,126	262,357	2,252,486	2.3
Total Europe	6,705	25,233	3,205	1,142	448,657	34	2,270	22,773		:	74,786	584,805	7,131,920	7.4
ASIA (MIDDLE EAST)	:	81	4,412	2,958		:	2,437	4,865	:	:	9,531	24,221	234,984	0.2
	:	:	:	:	56,512	:	375		:	100	2,111	860,65	1,399,570	1.4
GRAND TOTAL	10,438,955	8,896,346	1,237,298	313,787	29,431,359	604,869	743,474	6,288,330	489,878	221,053	3,511,272	62,176,621	96,845,771	:
Percent of Pacific-bound cargo	10.8	9.2	13	0.3	30.4	9.0	8.0	6.5	0.5	0.2	3.6	64.2		%0:001

Includes cargo not routed to permit segregation between definite countries.

Includes both local and transshipped cargo.

18,360

Table 9.—Origin and Destination of Commercial Cargo through the Panama Canal from Pacific to Atlantic during Fiscal Year 1992 Segregated by Countries in Principal Trade Routes

1,054,446 ,298,794 Total 58,650 58,650 ..... To East Coast Central America Cristobal 68 16,238 1.452 ..... 25,250 26,956 52,068 1,956 107,214 4,010 ..... ..... America (other) 13,509 17,720 1,013,005 13,509 995,285 ...... ...... Panama 24,726 24.726 138,215 35,177 369,058 12,469 ..... 87,655 Mexico 3,065 53,222 4,593 81.055 276,492 287,146 ..... To E. C. Canada Canada 887,459 278,237 62,886 111,531 595,892 10,479 ,252,600 116,769 76,862 49,010 2,330,249 290,475 305,209 1,228,582 1,238,683 7,303 ,852,757 178,770 5,178,218 ,551,007 Total 31,481 221,719 33,869 93,353 165,483 50,188 31,481 21,071 13,975 127,084 195,749 160,091 559,220 United States (other) To East Coast United States [Long tons] 33,690 708,219 3,050 116,439 553,272 572,424 50,677 861,272 545,457 1,229,104 470,277 123,187 1,468,799 279.955 Gulf 31,885 31.885 ..... ..... : Great Lakes ports 176,109 35,292 167,860 86,694 60,704 86,694 24,610 1,484 191,355 61,350 209,499 220.683 308,688 South Atlantic ports 29,196 216,012 883,325 128,149 30,612 24,500 564,823 98,127 142,994 249,135 772,162 6,927 2,271 346.531 ,518,233 North Atlantic ports Costa Rica Mainland ..... WEST COAST CANADA ..... El Salvador..... Honduras ...... Total Central America ..... Chile Hawaii...... Total United States ..... Mexico ..... Nicaragua....... Balboa, R.P.2 South America (other)1 ..... Total South America Central America (other)1 ..... WEST COAST CENTRAL AMERICA: WEST COAST NORTH AMERICA: WEST COAST SOUTH AMERICA: United States:

96,885 96,974 36,137 3,344

42,165	32,959	15,791	12,879 39,092 126,868 164,392 1,116 34,51 15,983 15,784 15,784,141	4.5
214	1,210		38,305 126,868 46,570 34,551 49,238 178,556 774,220 600,648 2,	1.0
				0.2
41,951	31,749		12,837   787   7	9.1
41,951	31,749	73,700 .	12,879 112,537 3,844 3,543 15,983 61,675 1,033 207,601 1,027,214 1,029,732	1.6
399,562	12,440	422,812	123,178 47,429 56,411 96,498 33,719 5,905 21,749 24,087 410,980	1.9
1,813,107	340,882 125,871	2,306,561	1,267,733 912,737 883,438 495,843 1,1089 444,297 1,055,924 56,417 1,336 1,336 1,346 1,2858,219	40.3
	85,280 5,467	247,440	35,013 218,676 168,802 97,446 578,488 36,269 64,503 231,624 	4.7
980,218 11,200 .	53,864 9,362	1,054,644	961,320 82,835 2,129 201,554 43,642 47,785 566,966 33,169 250,989 4,358,062 4,358,062	15.3
22,638		22,638	1.00	9.0
120,174	40,848 . 28,923 .		26,045 14,218 225,350 229,001 229,103 22,11,33 241,665 50,732 50,732 50,732 50,732 66,496 2,235,746 2,235,746 289,148	5.9
533,384	160,890	776,393	231,137 375,876 411,506 134,195 1,901,632 40,446 204,112 170,838 23,248 1,336 1,336 767,753 4,264,079	13.9
OCEANIA: Australia British Oceania	French Oceana French Oceana Oceania (other)		ASIA: China Taiwan Taiwan Hong Kong Indonesia Japan Philippine Islands Singapore South Korea Thailand U.S.S.R. Asia (other) Total Asia GRAND TOTAL	Percent of Atlantic-bound cargo

See footnotes at end of table.

Table 9.—Origin and Destination of Commercial Cargo through the Panama Canal from Pacific to Atlantic during Fiscal Year 1992 Segregated by Countries in Principal Trade Routes-Continued

[Long tons]

18,549 638,194 51,139 10,988 497,713 633,122 ,046,023 Total 4,007 204.578 (other) 4,921 27.551 170.781 109,957 39,122 57,912 898'69 9,101 105,602 49,630 44,194 4,187 261,578 To West Indies 37,744 20,644 ...... 532 28,479 ...... ...... ....... ...... 409,382 409.382 90.837 243,271 7,975 7.975 Republic Jamaica ...... : : 483 483 3.937 32,505 Cuba 21,711 9,283 2.622 343,873 364,122 253,802 280,380 45,944 951,258 109,756 80,382 105,619 46,943 376.219 14.511 Total To East Coast South America America (other) : 19.086 155,833 52,419 38,927 23,548 20,912 123,781 123.781 183,171 9,305 55.592 584,928 110,497 351,494 4,712 Colom-bia 9,972 193,983 193,983 10,835 50,992 15,828 Brazil WEST COAST CANADA..... Mainland ..... Total United States ..... Costa Rica El Salvador.... Guatemala ..... Mexico ..... Balboa, R.P.<sup>2</sup> ..... Total Central America Chile ..... Total South America ..... Central America (other)1 ...... Colombia ..... South America (other)1 ........ WEST COAST CENTRAL AMERICA: WEST COAST NORTH AMERICA: WEST COAST SOUTH AMERICA: United States:

AMA C	CANAL CON	MISSION	
47,442 36,778 156,348	425,733 30,972 62,618 2,673 189,366	512 42,715 57,485 13,485 111,482 937,041	4,289,554
708	37,768	2,814 6,222 46,807	629,404
1,383	978 1,017	359 377 9,821 22,724	342,016
34,941	950	6,602 47,485 11,126 134,662	125,728
	20,991 317 1,215 3,204	96 90 90 4,814 30,727	1,038,559
7,864 84 12,652	29,674 60,386 49,823	32,382	215,25 <u>0</u>
4,136	1,723	57 419 36,766 49,158	148,041
33,351	404,742	31 10,000 13,485 42,233 480,198	1,190,556
29,986 49 37,024	124,525 6,167 7,864 	1,071 13,025 18,405 132,930 454,699	2,975,811
49	1,260 508 23,433	2,422	0.2
28,759	95,214 3,803 5,732 78,809	913 8,485 18,405 63,653 275,014	1,150,953
1,227	28,790 554 1,273 22,348	111 1,100 8,388 62,564	1.1
	521 550 351 	1,018	1,007,137
rrench Oceania New Zealand. Oceania (other)! Total Oceania	SIA: China Taiwan Hong Kong Indonesia	Singapore Stands Singapore South Korea South Korea Thailand U.S.S.R. Asia (other)* Total Asia	GRAND TOTAL
	1,227     28,759     29,986     33,351     4,136     7,864     1,383     708     47,442       49     49     49     49     33,351     4,136     12,652     35,313     51,296     10,984     8,16     16,47     36,778       1,227     35,748     49     37,024     33,351     4,136     12,652     35,313     51,296     10,984     8,816     156,348	1,227         28,759         49         49         49         49         49         41,442         41,46         41,46         41,46         41,46         41,46         41,46         41,46         41,46         41,46         41,46         41,46         41,46         41,46         41,46         41,46         41,46         12,652         35,313         51,296         10,984         8,816         16,47         36,778           521         28,790         95,214         124,525         404,742         20,991         97         97         30,972           350         534         3,803         1,260         6,167         60,386         1,215         97         97         97           351         1,273         5,732         508         7,864         1,733         950         1,017         37,768         189,366           46,122         22,348         78,809         23,433         150,712         9,707         10,193         49,823         3,204         68,499         10,172         37,768         189,366	Vacabactus         Vacabac

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 1992 Segregated by Countries in Principal Trade Routes-Continued

[Long tons]

	[ jø	588,684	717.	3,401	181	5,037	2,280	188'6	2,753	7,402	47,013 1,948	960,		735	105',	2,373	3,733	2,752	,094	
	Total		6,344,717									1							6,156,094	
	Europe (other)	130,374	1,427,134		3,02	12,637	12,35	133,000	37,021	30,79	10,419	239,264		785,077	25,627	206,465	134,882	146,140	1,298,191	
	Fed. Rep. of Germany	13,149	429,230	303,157	60,411	2,607	3,096	983	6,801	159,555	28,946	266,762		451,365	134,641	501,428	193,330	54,420	1,335,184	
	Yugo- slavia	:	75,932	5,506		9		3,859	-	:		7		73	3,084	1,567	22,077	3,937	30,738	
	U.S.S.R.		148,091	148,091		00	11,996	3,859	91	:	1 2	15,906		84,253		4,869	999'9	19,849	115,637	
	United Kingdom	32,173	312,771	344,944	8,526	1,014		4,925		50,167	202	13,653		207,119	1,856	060'6	54,561	25,208	297,834	
To Europe			128,992	766'871	:	:	:			50,167	2,496	52,663		28,528	8,278	196	2,797	2,179	42,578	
To	Spain/ Portugal Sweden	175,759	302,062	689,626		1,014	858	31,367	1,299			34,538		253,858	4,601	41,744	68,767	31,530	400,500	
	Nether- lands		1,388,018	777,480	386	888	4,767		911	10,537	194	18,593		519,900	22,459	37,837	36,137	46,803	663,136	
	Italy	62,298	530,123	683,530	4,168	:		6,024	13,539	81,242		110,973		250,467	11	313,047	143,555	90,579	797,725	
	France	611	240,844	269,423	169	:			:	:	170	191		96,538	4,389	14,335	102,307	20,820	268,389	
	Finland France	:									170	:		:	:	:	:		:	
	Den- mark			56,508					:	:										
	Belgium	174,014	1,336,809	603,700	2,074	4,877	1,725	69,723	43,960	3,437	1040	134,976		472,557	12,489	25,122	188,654	11,287	906,182	
	WEST COAST NORTH AMERICA: United States:		Mainland	WEST COAST CANADA	WEST COAST CENTRAL AMERICA:	El Salvador	Honduras	Mexico	Nicaragua	Central America (other)!	Balboa, R.P. <sup>2</sup>	Total Central America	WEST COAST SOUTH AMERICA:	Chile	Colombia	Der:	South America (other)	South America (other)	Total South America	

1 711171	14171		501121125			
130,046 222,389	406,669 73,946 833,050	24,815 13,916 5,336	206,284 6,630 2,340 12,844	18,669 55,547 346,381	21,748,936	34.8
39,389	91,570 5,836 136,795	20,947 869 320	68,868 1,176	8,472 36,132 136,890	4,962,796	7.9
32,317	26,749 13,860 72,926	3,868 261 604	8,470 1,130 1,881	6,799	2,445,259	3.9
					112,183	0.2
			95	1,666	322,391	0.5
10,575	59,681 32,911 325,556	3,697	25,088	94 3,754 32,942	2,582,769	4.1
42	6,200		309 2,952 18	3,494	233,969	0.4
	3,057	363	2,431	1,968	1,634,039	2.6
12,643 2,424 20 969 27,923 3,744	13,346	347 1,701 28	74,924 3,678 861 4,147	6,035 89,992 7,059	2,979,278	8.
696	7,355		18,677 124 73 2,000 45	1,336 5,134 36,854 169 89,992	2,193,235	3.5
8	349	7,334	18,677 73 2,000	1,336 5,134 36,854	817,557	1.3
2,424	2 424		416		2,424	0.0
	2 424	1,392	416	416	81,635	0.1
12,643	183,725	1,392	7,298 2,460 416	801 11,953 416	3,381,401	5.4
		lotal Occania A: China Taiwan	Indonesia Japan Philippine Islands Singapore	Thailand		:
						argo
			nds		OTAL	punoq-
EANIA: Australia	New Zealand	I otal Occania  IA: China	Indonesia Japan Philippine Islands Singapore South Korea	Thailand	GRAND TOTAL	Percent of Atlantic-bound cargo .
OCEANIA: Australia British O	New Ocean	ASIA: China Taiwa Hong	Indo Japa Phili Sings	Thai U.S.: Asia To	ß	Percent o

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 1992 Segregated by Countries in Principal Trade Routes-Continued

[Long tons]	To Asia (Middle Ras) To Africa	Asia   Ottoba   Ott	Agent Egyp motocco Africa Langua (otter). 10th 10th 10th	9,535 95,542 1.4 19,781 86 977 1387 480 33.417 43.304 46 490 148 485 1745 777 10 160 160 168	86,937 1,390,813 33,417 43,304 46,149 148,485 1,749,105 11,511,857	148,744 119,688 1,248,378 5,421 298,792 192,033 1,864,312 11,105,241 17.8	202.580	27,881 251,361	29,561	35,199		1,091 439,452 0.7 267 267 203,608 0.3		52,893	18 6 5 4 5 5 5 1 OUE OI 8 6 5 8 1	07 07	0 2,514 1,725	38,713 5,904 44,617	010,000	52,520 57,372 35,812 5,904 84 10,300 18,393 127,865 15,383,924 24.6
			WEST COAST NORTH AMERICA: United States:	Ausan Hawaii Maniland	Total United States	WEST COAST CANADA	WEST COAST CENTRAL AMERICA: Costa Rica	El Salvador	Guatemala	Honduras	Nicaragua	Panama	Balboa, R.P.2	Total Central America	WEST COAST SOUTH AMERICA:	Colombia	Ecuador	Peru		Total South America

EANIA:										
Australia	3,795	:	:					2,	2,435,787	3.9
sh Oceania	:	:	:				:	:	281,095	0.5
ch Oceania	:				:		:			0.0
Zealand	165	4,279		4,481	4,481	:	9,791		889,520	1.4
Oceania (other) <sup>1</sup>	385	:					4,500		253,006	0.4
Total Oceania		4,279 .	:	4,481		:	14,291	(4)	1,859,408	6.2
China	:	:	:				:	1,	,978,863	3.2
Taiwan	49						:	,1	1,050,362	1.7
Hong Kong	36		:					,I	,142,571	1.8
Indonesia	:		:				:		595,014	1.0
	1,532	:			178	178	2,766	5,944 6,	5,562,540	10.5
ppine Islands	:	:					:	:	184,740	0.3
pore	29	:	:						504,549	8.0
South Korea	:								,201,376	1.9
and	:	:	:			:			148,290	0.2
S.R.	:	:	:		:		:	:	33,490	0.1
Asia (other) <sup>1</sup>	:						5,500	5,500 2,	2,313,837	3.7
Total Asia	1,646	:	:	:	178	:	11,266	11,444 15,	15,715,632	25.2
GRAND TOTAL	411,008	148,588 1,	1,599,206	1,292,180	48,987	355,241	417,625	3,861,827 62,426,847	426,847	
Percent of Atlantic-bound cargo	0.7	0.2	5.6	2.1	0.1	9.0	0.7	6.2	Ξ	100.0%

<sup>1</sup> Also includes cargo not routed to permit segregation between definite countries.
<sup>2</sup> Includes both local and transshipped cargo.

	_	Fiscal year	
	1992	1991	1990
EAST COAST UNITED STATES TO WEST COAST			
UNITED STATES:	6	1	
Canned and refrigerated foods, miscellaneous	968	603	541
Caustic soda	105	78	119
Chemicals, unclassified	725	397	332
Petroleum chemicals, miscellaneous	138	128	90
Grains	<u></u>	•••••	57
Soybeans		• • • • • •	57
Lumber and products, miscellaneous	43 19	1	
Machinery and equipment	4	<del></del> 1	•••••
Automobiles, parts and accessories	15		
Manufactures of iron and steel	4	2	
Angles, shapes and sections	1		
Other and unclassified	3	2	
Ores and metals, miscellaneous		6	
Petroleum and petroleum products	407	387	801
Crude oil	10	• • • • • • •	91
Diesel oil	10 40	68	29
Gasoline	128	77	339
Jet fuel	15		35
Lubricating oil	185	212	271
Petroleum coke	20	20	36
Other and unclassified	29 168	30 73	40
Carbon black	43		
Wax paraffin	7		
Container cargo	97	37	29
All other and unclassified	21	36	11
Total	1,615	1,073	1,439
TART COART UNITED CTATES TO WEST COAST			
EAST COAST UNITED STATES TO WEST COAST CANADA:			
Chemicals and petroleum chemicals	10	59	48
Chemicals, unclassified	4	30	4
Petroleum chemicals, miscellaneous	6	29	44
Lumber and products	20		
Pulpwood	20		
Machinery and equipment	5	<u></u>	• • • • • • •
Electrical machinery and apparatus	5		• • • • • •
Manufactures of iron and steel	• • • • • • • • • • • • • • • • • • • •	16	• • • • • • • • •
Plates, sheets and coils	• • • • • •	10 6	• • • • • • •
Wire, bars and rods  Nitrates, phosphates and potash		79	194
Phosphates		79	194
Total	35	153	243
1 Otal	====		
EAST COAST UNITED STATES TO WEST COAST			
CENTRAL AMERICA:			
Chemicals and petroleum chemicals		21	17
Caustic soda	8	8	5
Chemicals, unclassified	68	13	12

		Fiscal year	
	1992	1991	1990
EAST COAST UNITED STATES TO WEST COAST CENTRAL AMERICA—Continued			
Chemicals and petroleum chemicals—Continued			
Petroleum chemicals, miscellaneous	1		
Coal and coke (excluding petroleum coke)		36	
Coal		36	
Grains	2,448	1,965	2,014
Barley	1		
Corn	651	998	1,229
Rice	54	17	
Sorghum	729	218	272
Soybeans	410	202	152
Wheat	463	528	361
Lumber and products, miscellaneous	140	2	1
•	_	• • • • • •	
Machinery and equipment	2	• • • • • • •	•••••
Construction machinery and equipment	1	• • • • • • •	
Electrical machinery and apparatus	1	8	9
Minerals, miscellaneous	10		,
Soda and sodium compounds		2	•••••
Sulfur	3 7	2	• • • • • •
Nitrates, phosphates and potash	542	1,091	1,328
Ammonium compounds	136	164	181
Phosphates	191	799	989
Potash	34	23	4
Fertilizers, unclassified	181	105	154
Ores and metals	75	27	113
Ores, miscellaneous	3	6	
Metals	72	21	113
Scrap	72	21	113
Other agricultural commodities		4	38
Oilseeds		4	26
Sugar			12
Petroleum products	470	370	363
Diesel oil	259	173	144
Fuel oil, residual	21		*********
Jet fuel	139 27	143 15	196 8
Kerosene	4	2	8
Liquefied gas	14	6	5
Lubricating oil	6	2	
Other and unclassified		29	2
Miscellaneous	126	146	83
Carbon black	1		
Flour, wheat	20		
Groceries, miscellaneous		3	
Oil, vegetable  Paper and paper products	20	24	17
aper and paper products	26	49	28

[110000000000100001000]		F	
r		Fiscal year	
TO A ST	1992	1991	1990
EAST COAST UNITED STATES TO WEST COAST			
CENTRAL AMERICA—Continued Miscellaneous—Continued			
	42	69	37
Tallow	5		
All other and unclassified	12	1	1
Total	3,752	3,670	3,966
EAST COAST UNITED STATES TO WEST COAST			
SOUTH AMERICA: Canned and refrigerated foods	13	7	4
Canned foods	2		
Milk			
Refrigerated foods	11	7	4
Meat	1		
Other and unclassified	10	7	4
Chemicals and petroleum chemicals	299	273	275
Caustic soda	116	113	81
Chemicals, unclassified	143	136	181
Petroleum chemicals, miscellaneous	40	24	13
Coal and coke (excluding petroleum coke)	24	173	525
Coal	24	173	525
Grains	1,349	1,615	1,514
Corn	695	504	349 1
Oats	7 50	59	174
Sorghum	68	54	30
Sovheans	57	24	90
Wheat	467	949	865
Other and unclassified	5	25	5
Lumber and products	3	9	4
Plywood, veneers, composition board			1
PulpwoodOther and unclassified	2	8 1	2 1
Machinery and equipment	107	61	74
Agricultural machinery and implements	6	12	15
Automobiles, trucks, accessories and parts	79	31	28
Construction machinery and equipment	10	11	18
Electrical machinery and apparatus	2	2	7
Other and unclassified	10	5	6
Manufactures of iron and steel	89	61	45
Angles, shapes and sections	3	11	5
Nails, tacks and spikes	11	3	4
Tubes, pipes and fittings	10	16	5
Wire, bars and rods	44	31	28
Other and unclassified	18		3
Minerals, miscellaneous	15	17	22
Asbestos		2	
Soda and sodium compounds	15	15	18
Sulfur	622	502	4 452
Nitrates, phosphates and potash	632	583	14
Ammonium compoundsFishmeal	23	28 13	14
Phosphates	335	178	197
p	555	1,0	

		Fiscal year	
EAST COAST UNITED STATES TO WEST COAST	1992	1991	1990
SOUTH AMERICA—Continued			
Nitrates, phosphates and potash—Continued			
Potash	(1		
refullizers, unclassified	61 213	33	35
Ores and metals	117	331 107	206
Ores	20		63
Alumina/bauxite		17	18
Other and unclassified	7 13		1
Metals	97	17 90	17
Aluminum	3		45
Iron	3	1	18
Scrap	94	89	1 26
Other agricultural commodities	101	89	51
Beans, edible	7	8	6
Copra and coconuts			1
Cotton, raw	2		i
Oilseeds		1	
Peas, dry	3	5	3
Rubber, raw	1	1	1
Sugar	1		3
Petroleum products	87 428	74	36
Diesel oil	428	387	352
Fuel oil, residual	110 77	220	202
Gasoline	70	37 73	39
Jet fuel	29	13	42
Kerosene	29		27
Liquefied gas	64	37	7
Lubricating oil	21	20	34
Other and unclassified	28		1
Miscellaneous	1,609	1,327	979
Bricks and tile	1		1
Clay, fire and china	1		
Fibers, plant	2	6	5
Flour, wheat	59	82	73
Glass and glassware	í		1
Groceries, miscellaneous		1	2
Liquors and wines	1		
Marble and stone	10		
Oil, coconut Oil, fish	1	6	6
Oil, vegetable	22	1	
Paper and paper products	33 268	34 248	30 187
Resin	200	16	19
Rubber, manufactured	4	5	3
Seeds, excluding oilseeds	2		
Tallow	63	54	34
Textiles	5	4	3
Container cargo All other and unclassified	1,014	766	548
Total	124	104	66
	4,786	4,709	4,360
EAST COAST UNITED STATES TO BALBOA, R.P.:			
Canned and refrigerated foods, miscellaneous		2	5
			_

		Fiscal year	
	1992	1991	1990
EAST COAST UNITED STATES TO BALBOA, R.P.— Continued			
Chemicals and petroleum chemicals	19	10	11
Caustic soda	4	4	4
Chemicals, unclassified	14	5	6
Petroleum chemicals, miscellaneous	242	182	113
Corn	108	62	32
Soybeans	48	36	25
Wheat	81 5	84	55 1
Minerals, miscellaneous			2
Nitrates, phosphates and potash	3	3	
Potash		2	• • • • • • •
Fertilizers, unclassified	3 7	1 4	9
Ores	7	4	9
Alumina/Bauxite	1		
Manganese			3
Other and unclassified	6 296	263	6 249
Petroleum products	91	97	84
Fuel oil, residual	181	160	143
Gasoline	22	2	20
Jet fuel	1	3	1
Other and unclassified	1	1	1
Miscellaneous	41	36	41
Groceries, miscellaneous	1	.5	2
Oil, vegetableTallow	13 7	10 1	4 2
Container cargo	13	19	27
All other and unclassified	7	1	6
Total	608	500	429
EAST COAST UNITED STATES TO HAWAII:			
Machinery and equipment	• • • • • • •		9
Electrical machinery and apparatus	• • • • • •	• • • • • • •	9
Petroleum products	•••••	• • • • • • • • • • • • • • • • • • • •	31
Miscellaneous	4		31
All other and unclassified	4		
Total	4		40
EAST COAST UNITED STATES TO OCEANIA:			
Canned and refrigerated foods	22	10	16
Refrigerated foods	22	10	16
Other and unclassified	22	10	16
Chemicals and petroleum chemicals	659	828	648
Caustic soda	433	688 132	517 116
Chemicals, unclassified Petroleum coke, miscellaneous	188 38	8	116
Coal and coke (excluding petroleum coke)		14	32
Coke		14	32

		Fiscal year	
EACT COACT HANTED CTATES TO COLLAND	1992	1991	1990
EAST COAST UNITED STATES TO OCEANIA— Continued			
Grains	169	131	94
Corn	2	11	18
Sorghum			3
Soybeans	167	115	60
Wheat Other and unclassified	• • • • • • •	5	13
Lumber and products	18	14	22
Pulpwood	18	14	22
Machinery and equipment	6	7	15
Agricultural machinery and equipment	2	2	2
Automobiles, trucks, accessories and parts	1	2	11
Construction machinery and equipment Other and unclassified	3	2	1
Manufactures of iron and steel	2	42	11
Angles, shapes and sections	1	1	1
Plates, sheets and coils		39	6
Tubes, pipes and fittings		2	3
Wire, bars and rods			1
Other and unclassified	I	18	39
Soda and sodium compounds	• • • • • • •	18	39
Nitrates, phosphates and potash	1,106	905	885
Ammonium compounds	67	13	9
Phosphates	814	623	483
Potash	33	35	42
Fertilizers, unclassified	192	234	351
Ores and metals	31	39	15
Ores	29	39	8
Alumina/bauxite	• • • • • • •	2 15	3
LeadZinc	29	6	5
Other and unclassified		16	
Metals	2	• • • • • •	7
Aluminum	2		2
ZincOther agricultural commodities, miscellaneous	• • • • • •	• • • • • • •	5
Petroleum products	280	377	274
Diesel oil	33		
Fuel oil, residual	3	46	3
Gasoline	36	66	35
Liquefied gas	54	60	35
Lubricating oil	13 140	28 173	25 133
Other and unclassified	1	4	43
Miscellaneous	747	618	632
Bricks and tile	5		
Carbon black		3	
Clay, fire and china	25 3	29	37
Oil, vegetable	1	2	1
Paper and paper products	19	12	11
Porcelainware	9	• • • • • • •	• • • • • • •

(			
		Fiscal year	
	1992	1991	1990
EAST COAST UNITED STATES TO OCEANIA—			
Continued			
Miscellaneous—Continued			
Resin	10	13	3
Rubber, manufactured			6
Container cargo	641	535	555
All other and unclassified	34	24	19
Total	3,040	3,003	2,692
EAST COAST UNITED STATES TO ASIA:	420	400	200
Canned and refrigerated foods	438	408	298
Canned foods	4	• • • • • • •	12
Fruit	2		2
Canned food, miscellaneous	2		10
Refrigerated foods:	434	408	286
Bananas		1	
Dairy products	5		
Fish			1
Fruit, excluding bananas	130	136	44
Meat	7	10	2
Other and unclassified	292	261	239
Chemicals and petroleum chemicals	3,734	4,377	3,605
Caustic soda	38	75	138
Chemicals, unclassified	2,718	2,652	2,262
Petroleum chemicals, miscellaneous	978	1,650	1,205
Coal and coke (excluding petroleum coke)	3,849	3,651	4,205
Coal	3,841	3,377	4,153
Coke	8	274	52
Grains	25,074	25,085	23,835
Barley	56		
Corn	12,868	13,404	12,348
Oats	14	16	
Rice	8	1.426	13
Sorghum	1,143 6,508	1,426 5,847	1,718 5,625
Soybeans	4,206	4,024	3,934
Other and unclassified	271	362	197
Lumber and products	4,341	3,350	2,301
Boards and planks	65	147	9
Plywood, veneers, composition board	1	17/	,
Pulpwood	1,257	744	728
Other and unclassified	3,018	2,459	1,564
Machinery and equipment	142	69	45
Agricultural machinery and equipment	6	2	8
Automobiles, trucks, accessories and parts	19	13	8
Construction machinery and equipment	41	31	19
Electrical machinery and apparatus	7	3	3
Motorcycles, bicycles and parts	53		
Other and unclassified	16	20	7
Manufactures of iron and steel	718	2,140	1,203
Angles, shapes and sections	64	117	85
Nails, tacks and coils	1		
Plates, sheets and coils	391	1,466	900
Tubes, pipes and fittings	92	77	10
Wires, bars and rods	16	236	100

		Fiscal year	
	1992	1991	1990
EAST COAST UNITED STATES TO ASIA—			
Continued  Manufactures of iron and steel—Continued			
Other and unclassified	154	244	108
Minerals, miscellaneous	2	12	65
Asbestos		1	2
Soda and sodium compounds	2	11	9
Sulfur			54
Nitrates, phosphates and potash	6,631	6,924	5,361
Ammonium compounds	95	240	8
Phosphates	5,834	6,134	4,956
Fertilizers, unclassified.	166 536	228 322	93 304
Ores and metals	1,401	2,050	1,958
Ores	60	67	56
Alumina/bauxite	12	12	9
Copper	18	20	31
Lead	5		
Manganese Zinc		14	
Other and unclassified	5 20	5 16	7
Metals	1,341	1,983	1.902
Aluminum		1	
Copper	1		6
Iron	105	52	3
Lead Scrap	1,200	1,917	3 1,853
Tin, including tinplate	1,200	1,917	1,033
Zinc		5	
Other and unclassified	33	8	37
Other agricultural commodities	66	86	125
Beans, edible		2	67
Cotton, raw	25 6	62 15	45 11
Oilseeds	35	13	2
Peas, dry		6	
Petroleum products	2,096	2,921	1,836
Diesel oil	163	269	273
Fuel oil, residual	78	383	93
Jet fuel	341 217	381 448	55 289
Kerosene	217	194	66
Liquefied gas	360	535	319
Lubricating oil	174	129	104
Petroleum coke	755 8	575 7	591 46
Miscellaneous	7,701	7,934	7,229
Bricks and tile	8	1,754	
Carbon black	59	38	21
Cement			4
Clay, fire and china	589	542	535
Flour, wheat	96 35	37 31	43
Marble and stone	32	35	16
Oil, vegetable	91	64	67

		Fiscal year	
CACT COACT UNITED CTATES TO ACIA	1992	1991	1990
EAST COAST UNITED STATES TO ASIA— Continued			
Miscellaneous—Continued			
Paper and paper products	495	473 5	292
Resin	10	13	14
Rubber, manufactured	55	• • • • • •	6
Seeds, excluding oilseeds	5	2	
Wax, paraffin	6.067	6 405	8
Container cargo	6,057 169	6,495 199	6,117 106
Total	56,193	59,007	52,066
EAST COAST CANADA TO WEST COAST UNITED			
STATES:			
Canned and refrigerated foods, miscellaneous	1 89	49	53
Container cargo	89	45	53
All other and unclassified		4	
Total	90	49	54
EAST COAST CANADA TO WEST COAST CENTRAL			
AMERICA: Canned and refrigerated foods	3	4	2
Canned foods	3	1	1
Fish	1		1
Milk		1	• • • • • • •
Refrigerated foods, miscellaneous		3	1
Coal and coke (excluding petroleum coke)	275	33	• • • • • • • • • • • • • • • • • • • •
Coal	275 10	33 14	8
Corn	4	5	8
Wheat	6	9	
Lumber and products, miscellaneous		30	4
Wire, bars and rods		30	
Nitrates, phosphates and potash Other agricultural commodities		14 1	6 1
Beans, edible	1	1	1
Miscellaneous	8	13	8
Flour, wheatOil, vegetable	2	2 2	2
Paper and paper products	5	9	4
All other and unclassified	1		1
Total	<u>297</u>	109	28
EAST COAST CANADA TO WEST COAST SOUTH AMERICA:			
Canned and refrigerated foods	2	3	1
Canned foods	2	3	1
Fish		1	
Milk	2	2 77	1 98
Pan orani and in the second	*******		

		Fiscal year	
EAST COAST CANADA TO WEST COAST SOUTH	1992	1991	1990
EAST COAST CANADA TO WEST COAST SOUTH AMERICA—Continued			
Coal and coke (excluding petroleum coke)—Continued			
Coal		77	98
Grain	134	74	
Wheat	134	73	
All other and unclassified		1	
Machinery and equipment, miscellaneous  Manufactures of iron and steel	• • • • • •	1	2
Plates, sheets and coils	•••••	20	19
Wire, bars and rods		14	15
All other and unclassified		6	
Minerals, miscellaneous	9	10	4
Asbestos	9	10	4
Nitrates, phosphates and potash	24	37	73
Phosphates	24	16 21	10
Other agricultural commodities, miscellaneous	24	1	63
Miscellaneous	59	24	30
Flour, wheat	3	10	9
Groceries, miscellaneous	1		
Paper and paper products	40	11	15
Resin	1 8	• • • • • • •	3
All other and unclassified	6	3	3
Total	230	247	227
EAST COAST CANADA TO OCEANIA:			
Canned and refrigerated foods, miscellaneous		3	14
Lumber and products, miscellaneous	• • • • • • • •	• • • • • • •	1 7
Nitrates, phosphates and potash	30	49	30
Phosphates		17	
Potash	30	32	30
Ores and metals	10		
Ores	10		
Alumina/bauxite	10		
Miscellaneous	40	85	154
Paper and paper products	4 36	82	32 122
All other and unclassified		3	
Total	80	137.	206
EAST COAST CANADA TO ASIA:			
Canned and refrigerated foods	37	49	59
Canned foods	1	• • • • • • •	
Fruit	1		
Refrigerated foods	36	49	59
FishOther and unclassified	21 15	39 10	50 9
Chemicals and petroleum chemicals, miscellaneous			7
Grains	5	152	116
Sorghum		8	

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

		Fiscal year	
	1992	1991	1990
EAST COAST CANADA TO ASIA—Continued			
Grains—Continued			
Soybeans	5	37	10
Wheat	3	107	10 106
	127	155	7 2 7
Lumber and products	137		184
Plywood, veneers, composition board		7	
Pulpwood	132	142	165
Other and unclassified	5	6	19
Machinery and equipment	5	5	7
Agricultural machinery and equipment			2
Construction machinery and equipment	1	1	2
Other and unclassified	4	4	3
Manufactures of iron and steel	348	714	383
Angles, shapes and sections	17	48	37
Plates, sheets and coils	230	435	154
Tubes, pipes and fittings	31	42	154
	45	87	59
Wire, bars and rods Other and unclassified	25	102	
			133
Minerals, miscellaneous	3	6	• • • • • • • •
Asbestos	3	6	
Nitrates, phosphates and potash	189	212	96
Potash	189	212	96
Ores and metals	73	135	225
Ores	26	51	77
_			
Copper	5	5	25
Zinc		6	10
Other and unclassified	21	40	42
Metals	47	84	148
Aluminum		8	
Copper	3		1
Iron	17		
Lead	2	1	1
Scrap	24	73	146
Zinc		2	
Other and unclassified	1		
Petroleum products		81	126
Diesel oil		28	
Fuel oil, residual.		20	93
Gasoline		26	
Jet fuel		27	25
Lubricating oil		21	8
Miscellaneous	482	456	450
			450
Clay, fire and china		22	
Marble and stone	.82	51	42
Paper and paper products	113	104	166
Slag, clinkers and dross	5	46	30
Container cargo	271	217	209
All other and unclassified		16	3
Total	1,279	1,965	1,653
EAST COAST CENTRAL AMERICA TO WEST COAST			
UNITED STATES:			
Machinery and equipment	3		
	$\frac{3}{2}$	•••••	******
Automobiles, trucks, accessories and parts	3		• • • • • • •
Petroleum products	•••••	87	• • • • • • •

[ I nousants or long tons]			
		Fiscal year	
	1992	1991	1990
EAST COAST CENTRAL AMERICA TO WEST COAST			
UNITED STATES:—Continued			
Petroleum products—Continued			
Diesel oil	• • • • • • •	4	
Fuel oil, residual		83	64
	*****	• • • • • • • • • • • • • • • • • • • •	64
Cement			
Total	3	<u>87</u>	64
EAST COAST CENTRAL AMERICA TO WEST COAST CENTRAL AMERICA:			
Lumber and products, miscellaneous		20	
Manufactures of iron and steel	1		2
Tubes, pipes and fittings	1		2
Nitrates, phosphates and potash	224	199	338
Ammonium compounds		22	41
Phosphates		9	28
Fertilizers, unclassified	224	168	269
Petroleum and petroleum products	817	671	872
Asphalt		19	22
Crude oil	311	278	435
Diesel oil	35	2	90
Fuel oil, residual	41		19
Gasoline	23 407	55 317	64 226
Liquefied gas Other and unclassified	407	317	16
Miscellaneous			14
Cement	<del>-</del>		13
Container cargo	• • • • • • •		13
All other and unclassified	2	2	
Total	1,044	892	1,226
10tai		====	
EAST COAST CENTRAL AMERICA TO WEST COAST SOUTH AMERICA: Chemicals and petroleum chemicals	11	4	3
Caustic soda	1	<del></del>	
Chemicals, unclassified	9	4	3
Petroleum chemicals, miscellaneous	ĺ		
Machinery and equipment	1		2
Automobiles, trucks, accessories and parts	1		1
Electrical machinery and apparatus			1
Manufactures of iron and steel	22	6	7
Angles, shapes and sections		1	
Tubes, pipes and fittings	20	5	6
Wire, bars and rods			1
Other and unclassified	2		
Minerals, miscellaneous		<u>!</u>	
Soda and sodium compounds	147	1	1
Nitrates, phosphates and potash	147	57	90
Phosphates	146	1	4
Fertilizers, miscellaneous	146	56	86 6
Ores and metals	1	- 6	3
Ores		2	3
Manganese	• • • • • • •	2	2

		Fiscal year	
	1992	1991	1990
EAST COAST CENTRAL AMERICA TO WEST COAST SOUTH AMERICA—Continued			
Ores and metals—Continued			
Ores—Continued			
Other and unclassified	1	4	1
Metals		• • • • • • •	3
Aluminum			3
Other agricultural commodities	2	14	2
Rubber, raw	2	1	2
Sugar	93	13 125	268
Petroleum products	93	28	140
Fuel oil, residual	26		32
Gasoline		3	
Jet fuel	61	94	9 87
Liquefied gas	105	90	71
Bricks and tile	1		
Fibers, plant	1		
Glass and glassware	1	11	i
Paper and paper products	7	11	i
Rubber, manufactured	2	4	3
Textiles	2	1	1 52
Container cargo	61 21	50 23	13
Total	384	303	450
EAST COAST CENTRAL AMERICA TO BALBOA, R.P.:			,
Lumber and products, miscellaneous  Petroleum and petroleum products	394	122	1 121
Crude oil	6		
Diesel oil	91	26	25
Fuel, oil, residual	297	97	91 5
Jet fuel	2		
Container cargo	1		
All other and unclassified	1		
Total	396	122	122
EAST COAST CENTRAL AMERICA TO ASIA:			
Canned and refrigerated foods	5	4	3
Refrigerated foods	5	4	3
Bananas	5	4	2
Fish			1
Chemicals and petroleum chemicals	30	36	27
Chemicals, unclassified	25 5	31 5	27
Machinery and equipment, miscellaneous		2	
Manufactures of iron and steel	28	34	86
Angles, shapes and sections			3
Plates, sheets and coils	1 17	2 32	42 36
Tubes, pipes and fittings	1 /	32	30

		Fiscal year	
	1992	1991	1990
EAST COAST CENTRAL AMERICA TO ASIA— Continued			
Manufactures of iron and steel—Continued			
Other and unclassified	10		5
Nitrates, phosphates and potash	57	213	124
Fertilizers, unclassified	57	213	124
Ores and metals	2	9	$\frac{2}{2}$
Ores	$\frac{2}{2}$	4	$\frac{2}{2}$
Manganese Metals		5	
Iron		5	
Other agricultural commodities	4	1	1
Cotton, raw		1	
Rubber, raw	4 52	66	1 87
Petroleum products	50		27
Gasoline		24	
Jet fuel		10	
Liquefied gas		32	60
Lubricating oil	82	39	74
Cement	27		
Paper and paper products	5		
Resin	33	30 2	16 54
Container cargo	17	7	4
Total	260	404	403
EAST COAST SOUTH AMERICA TO WEST COAST			
UNITED STATES:			
Canned and refrigerated foods	2	2	2
Refrigerated foods, miscellaneous	2	2	2
Chemicals and petroleum chemicals	72	48	•••••
Chemicals, unclassified	72	27 21	
Lumber and products	46	48	56
Boards and planks	2	2	6
Plywood, veneers, composition board	2	3	6
PulpwoodOther and unclassified	42	42 1	42
Machinery and equipment, miscellaneous			4
Manufactures of iron and steel	742	665	584
Angles, shapes and sections	4		
Nails, tacks and spikes  Plates, sheets and coils	529	599	483
Tubes, pipes and fittings	ĺ	6	5
Wire, bars and rods	76	13	29
Other and unclassified Ores and metals	132 83	47 83	66 68
Ores	46	64	66
Alumina/bauxite	11	11	42
Iron		53	24
Other and unclassified	35	10	2
Metals	37	19	

		Fiscal year	
	1992	1991	1990
EAST COAST SOUTH AMERICA TO WEST COAST			
UNITED STATES—Continued Ores and metals—Continued			
Metals—Continued			
Aluminum			2
Iron	37	19	
Other agricultural commodities	3	<u></u>	8
Beans, edible			1
Cocoa and cacao beans	3	• • • • • •	3
Coffee	1,534	1,412	786
Crude oil	798	422	286
Diesel oil		77	
Fuel oil, residual	548	658	49
Gasoline	100	71	329
Jet fuelOther and unclassified	175 13	84 100	122
Miscellaneous	252	604	250
Bricks and tile			1
Cement	97	432	114
Oil, vegetable		34	
Paper and paper products	3	3	9
Slag, clinkers and dross	144	127	23
Container cargo	144 8	127 8	92 11
Total	2,734	2,862	1,758
10001	=======================================	=======================================	= 1,750
EAST COAST SOUTH AMERICA TO WEST COAST			
CANADA:			
CANADA: Lumber and products	1	2	6
CANADA: Lumber and products Boards and planks	1		1
CANADA: Lumber and products  Boards and planks Plywood, veneers, composition board		<u>2</u> 	1 1
CANADA: Lumber and products  Boards and planks Plywood, veneers, composition board Pulpwood	1	2	1 1 4
CANADA: Lumber and products  Boards and planks Plywood, veneers, composition board Pulpwood Manufactures of iron and steel			1 1
CANADA: Lumber and products  Boards and planks Plywood, veneers, composition board Pulpwood	140	2	1 1 4
CANADA: Lumber and products  Boards and planks Plywood, veneers, composition board Pulpwood Manufactures of iron and steel Nails, tacks and spikes Plates, sheets and coils Tubes, pipes and fittings	40 1 17 3	56 20 13	1 1 4 72 27 10
CANADA: Lumber and products  Boards and planks Plywood, veneers, composition board Pulpwood Manufactures of iron and steel Nails, tacks and spikes Plates, sheets and coils Tubes, pipes and fittings Wire, bars and rods	40 1 17 3 15	2 56 20 13 20	72 
CANADA: Lumber and products  Boards and planks Plywood, veneers, composition board Pulpwood  Manufactures of iron and steel  Nails, tacks and spikes Plates, sheets and coils Tubes, pipes and fittings Wire, bars and rods Other and unclassified	40 1 17 3 15 4	56 20 13	1 1 4 72 27 10 31 4
CANADA: Lumber and products.  Boards and planks Plywood, veneers, composition board Pulpwood  Manufactures of iron and steel  Nails, tacks and spikes Plates, sheets and coils Tubes, pipes and fittings Wire, bars and rods Other and unclassified Ores and metals, miscellaneous	40 1 17 3 15	2 56 20 13 20	72 
CANADA: Lumber and products  Boards and planks Plywood, veneers, composition board Pulpwood  Manufactures of iron and steel  Nails, tacks and spikes Plates, sheets and coils Tubes, pipes and fittings Wire, bars and rods Other and unclassified	40 1 17 3 15 4	2 56 20 13 20	1 4 72 27 10 31 4 3
CANADA: Lumber and products.  Boards and planks Plywood, veneers, composition board Pulpwood Manufactures of iron and steel Nails, tacks and spikes Plates, sheets and coils Tubes, pipes and fittings Wire, bars and rods Other and unclassified Ores and metals, miscellaneous Other agricultural commodities, miscellaneous Miscellaneous Bricks and tile	1 40 1 17 3 15 4 6	20 13 20 3	1 1 4 72 27 10 31 4 3 1 88
CANADA: Lumber and products  Boards and planks Plywood, veneers, composition board Pulpwood  Manufactures of iron and steel  Nails, tacks and spikes Plates, sheets and coils Tubes, pipes and fittings Wire, bars and rods Other and unclassified Ores and metals, miscellaneous Other agricultural commodities, miscellaneous Miscellaneous  Bricks and tile Cement	1 40 1 17 3 15 4 6 25	2 	1 1 4 72  27 10 31 4 3 1 88 1 20
CANADA: Lumber and products  Boards and planks Plywood, veneers, composition board Pulpwood  Manufactures of iron and steel  Nails, tacks and spikes Plates, sheets and coils Tubes, pipes and fittings Wire, bars and rods Other and unclassified Ores and metals, miscellaneous Other agricultural commodities, miscellaneous Miscellaneous Bricks and tile Cement Paper and paper products	1 40 1 17 3 15 4 6 25 1	20 13 20 3 87 87	1 1 4 72 27 10 31 4 3 1 88 1 20 2
CANADA: Lumber and products  Boards and planks Plywood, veneers, composition board Pulpwood  Manufactures of iron and steel  Nails, tacks and spikes Plates, sheets and coils Tubes, pipes and fittings Wire, bars and rods Other and unclassified Ores and metals, miscellaneous Other agricultural commodities, miscellaneous Miscellaneous  Bricks and tile Cement Paper and paper products Slag, clinkers and dross	1	20 13 20 3 87 38 1	1 1 4 72 27 10 31 4 3 1 88 1 20 2 27
CANADA: Lumber and products.  Boards and planks Plywood, veneers, composition board Pulpwood Manufactures of iron and steel Nails, tacks and spikes Plates, sheets and coils Tubes, pipes and fittings Wire, bars and rods Other and unclassified Ores and metals, miscellaneous Other agricultural commodities, miscellaneous Miscellaneous Bricks and tile Cement Paper and paper products Slag, clinkers and dross Container cargo	1	20 13 20 3 87 87	1 1 4 72 27 10 31 4 3 1 88 1 20 2
CANADA: Lumber and products.  Boards and planks Plywood, veneers, composition board Pulpwood Manufactures of iron and steel Nails, tacks and spikes Plates, sheets and coils Tubes, pipes and fittings Wire, bars and rods Other and unclassified Ores and metals, miscellaneous Other agricultural commodities, miscellaneous Miscellaneous Bricks and tile Cement Paper and paper products Slag, clinkers and dross Container cargo All other and unclassified	1	20 13 20 3 	1 1 4 72  27 10 31 4 3 1 88 1 20 2 27 27
CANADA: Lumber and products  Boards and planks Plywood, veneers, composition board Pulpwood  Manufactures of iron and steel  Nails, tacks and spikes Plates, sheets and coils Tubes, pipes and fittings Wire, bars and rods Other and unclassified Ores and metals, miscellaneous Other agricultural commodities, miscellaneous Miscellaneous  Bricks and tile Cement Paper and paper products Slag, clinkers and dross Container cargo All other and unclassified  Total	1 40 1 17 33 155 4 6 25 1 10 14	20 13 20 3 87 87	1 1 4 72  27 10 31 4 3 1 88 1 20 2 27 27 29 9
CANADA: Lumber and products  Boards and planks Plywood, veneers, composition board Pulpwood  Manufactures of iron and steel  Nails, tacks and spikes Plates, sheets and coils Tubes, pipes and fittings Wire, bars and rods Other and unclassified Ores and metals, miscellaneous Other agricultural commodities, miscellaneous Miscellaneous  Bricks and tile Cement Paper and paper products Slag, clinkers and dross Container cargo All other and unclassified Total  EAST COAST SOUTH AMERICA TO WEST COAST	1 40 1 17 33 155 4 6 25 1 10 14	20 13 20 3 87 87	1 1 4 72  27 10 31 4 3 1 88 1 20 2 27 27 29 9
CANADA: Lumber and products.  Boards and planks Plywood, veneers, composition board Pulpwood Manufactures of iron and steel Nails, tacks and spikes Plates, sheets and coils Tubes, pipes and fittings Wire, bars and rods Other and unclassified Ores and metals, miscellaneous Other agricultural commodities, miscellaneous Miscellaneous Bricks and tile Cement Paper and paper products Slag, clinkers and dross Container cargo All other and unclassified Total  EAST COAST SOUTH AMERICA TO WEST COAST CENTRAL AMERICA:	1	20 13 20 3 87 87	1 1 4 72  27 10 31 4 3 1 88 1 20 2 27 27 29 9
CANADA: Lumber and products.  Boards and planks Plywood, veneers, composition board Pulpwood Manufactures of iron and steel Nails, tacks and spikes Plates, sheets and coils Tubes, pipes and fittings Wire, bars and rods Other and unclassified Ores and metals, miscellaneous Other agricultural commodities, miscellaneous Miscellaneous Bricks and tile Cement Paper and paper products Slag, clinkers and dross Container cargo All other and unclassified Total  EAST COAST SOUTH AMERICA TO WEST COAST CENTRAL AMERICA: Canned and refrigerated foods	1 40 1 17 33 155 4 6 25 1 10 14	20 13 20 3 87 87	1 1 4 72  27 10 31 4 3 1 88 1 20 2 27 27 29 9
CANADA: Lumber and products.  Boards and planks Plywood, veneers, composition board Pulpwood Manufactures of iron and steel Nails, tacks and spikes Plates, sheets and coils Tubes, pipes and fittings Wire, bars and rods Other and unclassified Ores and metals, miscellaneous Other agricultural commodities, miscellaneous Miscellaneous Bricks and tile Cement Paper and paper products Slag, clinkers and dross Container cargo All other and unclassified Total  EAST COAST SOUTH AMERICA TO WEST COAST CENTRAL AMERICA:	1	20 13 20 3 87 87	1 1 4 72  27 10 31 4 3 1 88 1 20 2 27 27 29 9

	1	Fiscal year	
	1992	1991	1990
EAST COAST SOUTH AMERICA TO WEST COAST CENTRAL AMERICA—Continued			
Chemicals and petroleum chemicals, miscellaneous			l
Coal and coke (excluding petroleum coke)	132	71	••••
Coal	132	71	• • • • • •
Lumber and products	2	2	• • • • • •
Boards and planks	1	1	
Plywood, veneers, composition board	261	175	133
Manufactures of iron and steel	9		11
Angles, shapes and sections  Plates, sheets and coils	61	65	36
Wire, bars and rods	93	80	18
Other and unclassified	98	30	68
Nitrates, phosphates and potash	23	48	19
Ammonium compounds			14
Fertilizers, unclassified	23	48 9	5 20
Ores and metals		3	
Ores	$\frac{5}{2}$		*****
Manganese	3	3	
Other and unclassified  Metals	2	6	20
Aluminum	1	2	1
Iron			18
Tin, including tinplate	1	3	1
Zinc	1	1 55	81
Other agricultural commodities	• • • • • • •	55	81
Sugar	1,576	1,432	1,552
Petroleum and petroleum products	1,357	1,241	935
Crude oil	1,337	1,271	48
Fuel oil, residual	182		493
Gasoline	36	148	30
Liquefied gas			4
Lubricating oil	1	43	42
Other and unclassified Miscellaneous	60	25	30
Bricks and tile			1
Glass and glassware			1
Oil vegetable	7	10	5
Paper and paper products	2		1
Slag, clinkers and dross	16 23	11	21
Container cargo All other and unclassified	12	4	i
Total	2,062	1,818	1,836
10ta1			
EAST COAST SOUTH AMERICA TO WEST COAST			
SOUTH AMERICA: Canned and refrigerated foods, miscellaneous			4
Chemicals and petroleum chemicals	19	21	32
Caustic soda		4	
Chemicals, unclassified	14	11	29
Petroleum chemicals, miscellaneous	5	400	3 152
Coal and coke (excluding petroleum coke)	86	488	149
Coal	77	464	149

1990   1990			Fiscal year	
SOUTH AMERICA—Continued Coal and coke (excluding petroleum coke)—Continued Coke	TACT COACT COUTH AMERICA TO WEST COAST	1992	1991	1990
Coke         9         24         3           Grains.         9         27         1           Rice         1         1         1           Soybeans         8         5            Lumber and products         5         3         2           Pulpwood         5         2         2           Other and unclassified         1         1           Machinery and equipment         8         8         8           Agricultural machinery and equipment         1         2         1           Automobiles, trucks, accessories and parts         6         5         4           Construction machinery and equipment         1         1         2           Electrical machinery and equipment         1         1         1           Construction machinery and equipment         1         1         1           Manufactures of iron and steel         185         133         134           Angles, shapes and sections         6         5         2           Electrical machinery and apparatus         1         1         1           Manufactures of iron and steel         185         133         13           Angles         1 <td></td> <td></td> <td></td> <td></td>				
Grains         9         27         1           Oats         1         1         1         1           Rice         21         21           Soybeans         8         5         3         2           Lumber and products         5         3         2         2           Other and unclassified         1         1         -         1         -         -         1         -         -         2         2         Other and unclassified         1         1         2         2         Other and unclassified         1         1         -         2         2         Other and unclassified         1         1         -         -         2         2         Other and unclassified         1         1         -         -         2         2         Other and unclassified         -         1         1         -         -         -         2         2         0         -         -         2         2         2         0         -         -         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1				
Oats Rice         1         1         1           Rice         21         Soybeans         8         5           Lumber and products         5         3         2           Pulpwood         5         2         2           Other and unclassified         1         1           Machinery and equipment         8         8         8           Agricultural machinery and equipment         1         2         1           Automobiles, trucks, accessories and parts         6         5         4           Construction machinery and equipment         2         1         1         1           Manufactures of iron and steel         185         133         134           Angles, shapes and sections         6         3         27           Plates, sheets and coils         60         45         20           Tubes, pipes and fittings         3         10         10           Wire, bars and rods         89         62         6           Other and unclassified         27         13         11           Minerals, miscellaneous         31         28         36           Asbestos         1         1         1           S		_		3
Rice         21           Soybeans         8         5           Lumber and products         5         3         2           Pulpwood         5         2         2           Other and unclassified         1         1         2         2           Machinery and equipment         8         8         8         8           Agricultural machinery and equipment         1         2         1         3         1         0         0         4         2         0         6         3         2         7         P1         1         1         1         1         1		9		
Soybeans	Z 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		_	
Pulpwood         5         2         2           Other and unclassified         1         1           Machinery and equipment         8         8         8           Agricultural machinery and equipment         1         2         1           Automobiles, trucks, accessories and parts         6         5         4           Construction machinery and equipment         2         2           Electrical machinery and apparatus         1         1         1           Manufactures of iron and steel         185         133         134           Angles, shapes and sections         6         3         27           Plates, sheets and coils         60         45         20           Tubes, pipes and fittings         3         10         10           Wire, bars and rods         89         62         66           Other and unclassified         27         13         11           Minerals, miscellaneous         31         28         36           Asbestos         1         1         2           Salt         31         26         28           Soda and sodium compounds         1         1           Sulfur         6         93	Soybeans	_		
Other and unclassified         1           Machinery and equipment         8         8         8           Agricultural machinery and equipment         1         2         2           Automobiles, trucks, accessories and parts         6         5         4           Construction machinery and equipment         2         2           Electrical machinery and equipment         1         1         1           Manufactures of iron and steel         185         133         134           Angles, shapes and sections         6         3         27           Plates, sheets and coils         60         45         20           Tubes, pipes and fittings         3         10         10           Wire, bars and rods         89         62         66           Other and unclassified         27         13         11           Minerals, miscellaneous         31         28         36         26         66           Other and unclassified         27         13         11           Minerals, miscellaneous         31         26         28           Soda and sodium compounds         31         26         28           Solt         31         26         28	•			2
Machinery and equipment         8         8         8           Agricultural machinery and equipment         1         2         1           Automobiles, trucks, accessories and parts         6         5         4           Construction machinery and equipment         2         2           Electrical machinery and apparatus         1         1         1           Manufactures of iron and steel         185         133         134           Angles, shapes and sections         6         3         27           Plates, sheets and coils         60         45         20           Tubes, pipes and fittings         3         10         10           Wire, bars and rods         89         62         66           Other and unclassified         27         13         11           Minerals, miscellaneous         31         28         36           Asbestos         1         1         1           Sold and sodium compounds         1         1         1           Sulfur         31         26         28           Soda and sodium compounds         23         17         33           Pretrilizers, unclassified         21         23         17         33				
Automobiles, trucks, accessories and parts  Construction machinery and equipment  Electrical machinery and apparatus  1 1 1  Manufactures of iron and steel  Angles, shapes and sections  Relates, sheets and coils  Roll Tubes, pipes and fittings  Roll Tubes and polic Tubes and polic Tubes and pipes and polic Tubes and pipes and		8		8
Construction machinery and equipment	Agricultural machinery and equipment	_		-
Electrical machinery and apparatus	Automobiles, trucks, accessories and parts	6	5	
Manufactures of iron and steel         185         133         134           Angles, shapes and sections         6         3         27           Plates, sheets and coils         60         45         20           Tubes, pipes and fittings         3         10         10           Wire, bars and rods         89         62         66           Other and unclassified         27         13         11           Minerals, miscellaneous         31         28         36           Asbestos	Electrical machinery and apparatus	1	1	
Plates, sheets and coils.         60         45         20           Tubes, pipes and fittings         3         10         10           Wire, bars and rods         89         62         66           Other and unclassified         27         13         11           Minerals, miscellaneous         31         28         36           Asbestos         1         1         1           Salt         31         26         28           Soda and sodium compounds         1         1         1           Sulfur         6         6         246         93         127           Ammonium compounds         23         17         33         Phosphates         5         1         3         3         3         127           Ammonium compounds         23         17         33         Phosphates         5         1         3         3         127           Ammonium compounds         218         75         91         3         27         24           Ores         28         12         27         24         27         24         27         24         22         22         27         24         12         12 </td <td></td> <td>185</td> <td>133</td> <td>134</td>		185	133	134
Tubes, pipes and fittings         3         10         10           Wire, bars and rods         89         62         66           Other and unclassified         27         13         11           Minerals, miscellaneous         31         28         36           Asbestos         1         1         1           Salt         31         26         28           Soda and sodium compounds         1         1         1           Sulfur         6         6         6         7         1         3         1         28         28         28         3         127         28         28         3         127         28         28         3         127         28         3         127         3         127         Ammonium compounds         23         17         33         3         127         Ammonium compounds         23         17         33         3         127         Ammonium compounds         23         17         33         3         127         27         24         27         27         24         27         27         24         27         27         24         27         27         24         12			•	
Wire, bars and rods         89         62         66           Other and unclassified         27         13         11           Minerals, miscellaneous         31         28         36           Asbestos          1         1         1           Salt         31         26         28         28         28         20         28         28         20         28         28         20         3         127         28         28         20         3         127         28         28         28         30         127         28         28         28         28         28         28         128         75         1         3         127         33         127         33         127         A33         Phosphates and potash         246         93         127         A3         Phosphates         5         1         3         3         3         3         127         24         4         12         24         27         27         24         27         27         24         20         28         1         12         2         27         27         24         1         1         1         1         1<				
Minerals, miscellaneous       31       28       36         Asbestos       1       1       1         Salt       31       26       28         Soda and sodium compounds       1       1       1         Sulfur       6       6       6         Nitrates, phosphates and potash       246       93       127         Ammonium compounds       23       17       33         Phosphates       5       1       3         Fertilizers, unclassified       218       75       91         Ores and metals       27       27       24         Ores       8       14       12         Alumina/bauxite       7       14       11         Manganese       1       1       1         Metals       19       13       12         Aluminun       3       3       3         Iron       6       5       6         Scrap       3       3       12         Aluminun       3       3       3         Iron       6       5       6         Scrap       3       3       1         Other agricultural commodities <td></td> <td>89</td> <td>62</td> <td>66</td>		89	62	66
Asbestos       1       1       1         Salt       31       26       28         Soda and sodium compounds       1       1       1         Sulfur       6       6       1       1       1         Nitrates, phosphates and potash       246       93       127         Ammonium compounds       23       17       33         Phosphates       5       1       3         Fertilizers, unclassified       218       75       91         Ores and metals       27       27       24         Ores       8       14       12         Alumina/bauxite       7       14       11         Manganese       1       1       1         Metals       19       13       12         Aluminun       3       3       3         Iron       6       5       6         Scrap       3       7       4       1         Other and unclassified       1       2       2         Other agricultural commodities       1       35       39         Cotton, raw       1       1       1         Rubber, raw       1       1 </td <td></td> <td></td> <td></td> <td></td>				
Salt       31       26       28         Soda and sodium compounds       1       1       1         Sulfur       6       6         Nitrates, phosphates and potash       246       93       127         Ammonium compounds       23       17       33         Phosphates       5       1       3         Fertilizers, unclassified       218       75       91         Ores and metals       27       27       24         Ores       8       14       12         Alumina/bauxite       7       14       11         Manganese       1       1       1         Metals       19       13       12         Aluminun       3       3       3         Iron       6       5       6         Scrap       3       3       12         Other and unclassified       1       2         Other and unclassified       1       35       39         Cotton, raw       1       1       1         Rubber, raw       1       1       1         Sugar       34       37         Petroleum and petroleum products       2,485	,			
Soda and sodium compounds         1         1           Sulfur         6           Nitrates, phosphates and potash         246         93         127           Ammonium compounds         23         17         33           Phosphates         5         1         3           Fertilizers, unclassified         218         75         91           Ores and metals         27         27         24           Ores         8         14         12           Alumina/bauxite         7         14         11           Manganese         1         1         1           Metals         19         13         12           Aluminun         3         3         3           Iron         6         5         6           Scrap         3         3         1           Tin, including tinplate         7         4         1           Other agricultural commodities         1         35         39           Cotton, raw         1         1         1           Rubber, raw         1         1         1           Sugar         34         37           Petroleum and petroleum pr		31		
Nitrates, phosphates and potash.         246         93         127           Ammonium compounds         23         17         33           Phosphates         5         1         3           Fertilizers, unclassified         218         75         91           Ores and metals         27         27         24           Ores         8         14         12           Alumina/bauxite         7         14         11           Manganese         1         1         1           Metals         19         13         12           Aluminun         3         3         3           Iron         6         5         6           Scrap         3            Tin, including tinplate         7         4         1           Other agricultural commodities         1         2           Other agricultural commodities         1         35         39           Cotton, raw         1         1         1           Rubber, raw         1         1         1           Sugar         34         37           Petroleum and petroleum products         2,485         2,080         1,1	Soda and sodium compounds		1	
Ammonium compounds       23       17       33         Phosphates       5       1       3         Fertilizers, unclassified       218       75       91         Ores and metals       27       27       24         Ores       8       14       12         Alumina/bauxite       7       14       11         Manganese       1       1       1         Metals       19       13       12         Aluminun       3       3       3         Iron       6       5       6         Scrap       3          Tin, including tinplate       7       4       1         Other and unclassified       1       2         Other agricultural commodities       1       35       39         Cotton, raw       1       1       1         Rubber, raw       1       1       1         Sugar       34       37         Petroleum and petroleum products       2,485       2,080       1,198         Asphalt        1         Crude oil       1,660       1,166       742         Diesel oil       194       18		246	93	
Phosphates         5         1         3           Fertilizers, unclassified         218         75         91           Ores and metals         27         27         24           Ores         8         14         12           Alumina/bauxite         7         14         11           Manganese         1         1         1           Metals         19         13         12           Aluminun         3         3         3           Iron         6         5         6           Scrap         3            Tin, including tinplate         7         4         1           Other and unclassified         1         2           Other agricultural commodities         1         35         39           Cotton, raw         1         1         1           Rubber, raw         1         1         1           Sugar         34         37           Petroleum and petroleum products         2,485         2,080         1,198           Asphalt              Crude oil         1,660         1,166         742				
Ores and metals         27         27         24           Ores         8         14         12           Alumina/bauxite         7         14         11           Manganese         1         1         1           Metals         19         13         12           Aluminun         3         3         3           Iron         6         5         6           Scrap         3         3            Tin, including tinplate         7         4         1           Other and unclassified         1         2           Other agricultural commodities         1         35         39           Cotton, raw         1         1         1           Rubber, raw         1         1         1           Sugar         34         37           Petroleum and petroleum products         2,485         2,080         1,198           Asphalt         1         1         1           Crude oil         1,660         1,166         742           Diesel oil         194         180         31           Fuel oil, residual         68         24       <	Phosphates	-	_	
Ores         8         14         12           Alumina/bauxite         7         14         11           Manganese         1         1         1           Metals         19         13         12           Aluminun         3         3         3         3           Iron         6         5         6           Scrap         3         -         6         5         6           Scrap         3         3         -         -         4         1         1         2         0         0         -         4         1         2         0         0         1         1         2         2         0         0         1         2         2         2				
Alumina/bauxite       7       14       11         Manganese       1       1       1         Metals       19       13       12         Aluminun       3       3       3         Iron       6       5       6         Scrap       3       .         Tin, including tinplate       7       4       1         Other and unclassified       1       2         Other agricultural commodities       1       35       39         Cotton, raw       1       1       1         Rubber, raw       1       1       1         Sugar       34       37         Petroleum and petroleum products       2,485       2,080       1,198         Asphalt       1       1       1         Crude oil       1,660       1,166       742         Diesel oil       194       180       31         Fuel oil, residual       68       24       .         Gasoline       470       361       173         Jet fuel       25       38       .         Liquefied gas       32       231       204				
Manganese       1       1         Metals       19       13       12         Aluminun       3       3       3         Iron       6       5       6         Scrap       3          Tin, including tinplate       7       4       1         Other and unclassified       1       2         Other agricultural commodities       1       35       39         Cotton, raw       1       1       1         Rubber, raw       1       1       1         Sugar       34       37         Petroleum and petroleum products       2,485       2,080       1,198         Asphalt       1       1       1         Crude oil       1,660       1,166       742         Diesel oil       194       180       31         Fuel oil, residual       68       24          Gasoline       470       361       173         Jet fuel       25       38          Liquefied gas       32       231       204				
Aluminun       3       3       3         Iron       6       5       6         Scrap       3          Tin, including tinplate       7       4       1         Other and unclassified       1       2         Other agricultural commodities       1       35       39         Cotton, raw       1       1       1         Rubber, raw        1       1         Sugar       34       37         Petroleum and petroleum products       2,485       2,080       1,198         Asphalt         1         Crude oil       1,660       1,166       742         Diesel oil       194       180       31         Fuel oil, residual       68       24          Gasoline       470       361       173         Jet fuel       25       38          Liquefied gas       32       231       204	Manganese	_		
Iron.         6         5         6           Scrap         3            Tin, including tinplate         7         4         1           Other and unclassified         1         2           Other agricultural commodities         1         35         39           Cotton, raw         1         1         1           Rubber, raw          1         34         37           Petroleum and petroleum products         2,485         2,080         1,198           Asphalt.           1         1           Crude oil         1,660         1,166         742           Diesel oil         194         180         31           Fuel oil, residual         68         24            Gasoline         470         361         173           Jet fuel         25         38            Liquefied gas         32         231         204				
Scrap         3           Tin, including tinplate         7         4         1           Other and unclassified         1         2           Other agricultural commodities         1         35         39           Cotton, raw         1         1         1           Rubber, raw          1         1         1           Sugar         34         37           Petroleum and petroleum products         2,485         2,080         1,198           Asphalt          1           Crude oil         1,660         1,166         742           Diesel oil         194         180         31           Fuel oil, residual         68         24           Gasoline         470         361         173           Jet fuel         25         38            Liquefied gas         32         231         204		_		
Other and unclassified         1         2           Other agricultural commodities         1         35         39           Cotton, raw         1         1         1           Rubber, raw         1         34         37           Sugar         34         37           Petroleum and petroleum products         2,485         2,080         1,198           Asphalt         1         1         1           Crude oil         1,660         1,166         742           Diesel oil         194         180         31           Fuel oil, residual         68         24         24           Gasoline         470         361         173           Jet fuel         25         38         173           Liquefied gas         32         231         204	Scrap	3		
Other agricultural commodities         1         35         39           Cotton, raw         1         1         1           Rubber, raw         1         34         37           Sugar         34         37           Petroleum and petroleum products         2,485         2,080         1,198           Asphalt           1           Crude oil         1,660         1,166         742           Diesel oil         194         180         31           Fuel oil, residual         68         24            Gasoline         470         361         173           Jet fuel         25         38            Liquefied gas         32         231         204		7	•	
Cotton, raw       I <th< td=""><td></td><td>1</td><td>_</td><td></td></th<>		1	_	
Sugar       34       37         Petroleum and petroleum products       2,485       2,080       1,198         Asphalt       1       1,166       742         Diesel oil       194       180       31         Fuel oil, residual       68       24         Gasoline       470       361       173         Jet fuel       25       38          Liquefied gas       32       231       204		1	1	_
Petroleum and petroleum products       2,485       2,080       1,198         Asphalt.       1       1,166       742         Crude oil       1,660       1,166       742         Diesel oil       194       180       31         Fuel oil, residual       68       24          Gasoline       470       361       173         Jet fuel       25       38          Liquefied gas       32       231       204			24	_
Asphalt       1         Crude oil       1,660       1,166       742         Diesel oil       194       180       31         Fuel oil, residual       68       24          Gasoline       470       361       173         Jet fuel       25       38          Liquefied gas       32       231       204		2.485		
Diesel oil       194       180       31         Fuel oil, residual       68       24          Gasoline       470       361       173         Jet fuel       25       38          Liquefied gas       32       231       204	•		-,	1
Fuel oil, residual       68       24         Gasoline       470       361       173         Jet fuel       25       38          Liquefied gas       32       231       204				
Gasoline       470       361       173         Jet fuel       25       38          Liquefied gas       32       231       204				31
Liquefied gas	Gasoline	470	361	173
				204

		Fiscal year	
EAST COAST SOUTH AMERICA TO WEST OOAST	1992	1991	1990
EAST COAST SOUTH AMERICA TO WEST COAST SOUTH AMERICA—Continued			
Miscellaneous	198	161	89
Bricks and tile	170	101	
Carbon black	7	40	7
CementGlass and glassware	5 2		
Paper and paper products	11	2 23	1 8
Resin	5	7	11
Rubber, manufactured		1	1
Slag, clinkers and dross	21	1	• • • • • • •
Container cargo	121	68	39
All other and unclassified	25	18	22
Total	3,300	3,104	1,845
EAST COAST SOUTH AMERICA TO BALBOA, R.P.:			
Canned and refrigerated foods, miscellaneous			1
Manufactures of iron and steel, miscellaneous	1	1	
Petroleum and petroleum products	96	56	3
AsphaltCrude oil	20		2
Diesel oil	24		
Fuel oil, residual	50	46	
Liquefied gas	2		
Miscellaneous	2	10 4	1 4
Oil, vegetable		3	3
Container cargo	2	1	1
Total	99	61	9
EAST COAST SOUTH AMERICA TO HAWAII:			
Petroleum and petroleum products	193	114	61
Crude oil	66	17	
Diesel oil	107	6	
Jet fuel	127	60 31	61
Miscellaneous	109	173	108
Cement	109	51	57
Slag, clinkers and dross		121	51
All other and unclassified	202	1	1.00
Total	<u>302</u>	287	168
EAST COAST SOUTH AMERICA TO OCEANIA:			
Ores and metals, miscellaneous		3	3
Miscellaneous	•••••	• • • • • • •	2
All other and unclassified			i
Total		3	6
EAST COAST SOUTH AMERICA TO ASIA: Canned and refrigerated foods	18	17	55
Canned foods, miscellaneous	10	2	
Refrigerated foods	18	15	55
Bananas	4	2	4

		Fiscal year	
FACT COACT COUTY AMERICA TO ACLA CO.	1992	1991	1990
EAST COAST SOUTH AMERICA TO ASIA—Continued Canned and refrigerated foods—Continued Refrigerated foods—Continued			
Fish	13	13	20
Meat	13	13	38 6
Other and unclassified			7
Chemicals and petroleum chemicals	33	29	22
Chemicals, unclassified	13	20	22
Petroleum chemicals, miscellaneous Coal and coke (excluding petroleum coke)	20 59	9 91	52
Coal	59	91	52
Grains		25	90
Sorghum		25	
Soybeans			41
Wheat	• • • • • • •	• • • • • • •	44 5
Other and unclassified	23	43	5
Pulpwood	23	43	5
Machinery and equipment, miscellaneous		2	
Manufactures of iron and steel	250	246	453
Angles, shapes and sections	10	5	27
Plates, sheets and coils	104	49	88
Wire, bars and rods	86	134	264
Other and unclassified	50	58	71
Nitrates, phosphates and potash	<u></u>		149
Fertilizers, unclassified		0.41	149
Ores and metals	835	841	894
Ores	<u>366</u>	305	<del>294</del> 72
Alumina/bauxite	40	65 67	12
Copper			10
Iron	120	108	158
ManganeseOther and unclassified	132	65	39 15
Metals	469	536	600
Aluminum	425	433	380
Copper		3	
Iron	38	100	208
ScrapZinc	1	• • • • • • •	6
Other and unclassified	5		6
Other agricultural commodities	14	4	12
Beans, edible			3
Coccoa and cacao beans	2	2	2 2
Coffee	12	1	4
Oilseeds			i
Wool, raw		1	
Petroleum products	540	92	194
Asphalt Diesel oil	108 52	33	68
Gasoline	32	26	25
Jet fuel	170	29	97
Liquefied gas		4	4

		Fiscal year	
TART COAST COVERY AND TO A COAST	1992	1991	1990
EAST COAST SOUTH AMERICA TO ASIA— Continued			
Petroleum products—Continued			
Other and unclassified	210		
Miscellaneous	146	180	133
Clay, fire and china	106	110	45
Marble and stone Oil, vegetable	10		2
Paper and paper products	14	10	2
Resin	• • • • • • •		3
Seeds, excluding oilseeds	• • • • • • •	33	3
Textiles			1
Container cargo	7	11	62
All other and unclassified	9	16	15
Total	1,918	1,570	2,059
WEST INDIES TO WEST COAST UNITED STATES:			
Chemicals and petroleum chemicals, miscellaneous		6	
Manufactures of iron and steel	25	14	17
Plates, sheets and coils	13 12	5	17
Nitrates, phosphates and potash	38		17
Ores and metals		93	86
Ores		53	86
Alumina/bauxite		53	86
Metals	• • • • • • • •	30	• • • • • • • • • • • • • • • • • • • •
Aluminum	426	1,035	647
Asphalt		17	
Crude oil		46	35
Diesel oil	43 277	54 775	5 492
Fuel oil, residual	70	//3	33
Jet fuel	36		28
Liquefied gas		142	17
Other and unclassified	9	143 16	37 14
Container cargo	9	14	13
All other and unclassified		2	1
Total	498	1,164	764
WEST INDIES TO WEST COAST CENTRAL AMERICA.			
WEST INDIES TO WEST COAST CENTRAL AMERICA: Chemicals and petroleum chemicals, miscellaneous			3
Grains	11		<u></u>
Rice	11		
Machinery and equipment, miscellaneous	1	10	
Manufactures of iron and steel	12	<u>10</u>	•••••
Other and unclassified	5	1	
Nitrates, phosphates and potash	95	32	32
Ammonium compounds	38		
Fertilizers, unclassified	57	32 49	32 10
Other agricultural commodities	•••••	- 77	

		Fiscal year	
	1992	1991	1990
WEST INDIES TO WEST COAST CENTRAL AMERICA: Other agricultural commodities—Continued			
Sugar		49	10
Petroleum and petroleum products	114	133	199
Crude oil	27	44 33	17 22
Fuel oil, residual	48		151
Gasoline	38	46	8
Jet fuel Liquefied gas	1	5 5	1
Miscellaneous	4	6	28
Glass and glassware		1	1
Oil, vegetable		• • • • • • •	5 2
Paper and paper products	2	2	17
All other and unclassified		3	3
Total	237	230	272
WEST INDIES TO WEST COAST SOUTH AMERICA:			
Canned and refrigerated foods, miscellaneous			2
Chemicals and petroleum chemicals, miscellaneous		16	
Manufactures of iron and steel	30	26	8
Plates, sheets and coils	7 23	10 16	6
All other and unclassified			2
Nitrates, phosphates and potash	82	38	63
Ammonium compounds	4		
Fertilizers, unclassified  Ores and metals	78 5	38	63 25
Ores			
Alumina/bauxite	5		******
Metals			25
Iron			2
Scrap Petroleum and petroleum products	479	339	23 446
Crude oil	28		105
Diesel oil	135	91	76
Fuel oil, residual	15	23	4
Gasoline	159 30	170 13	168 27
Liquefied gas	47	11	
Lubricating oil	65	31	66
Miscellaneous	3	5	11
Oil, coconut			·····i
Container cargo	i		5
All other and unclassified	1	4	5
Total	599	424	555
WEST INDIES TO BALBOA, R.P.:			
Chemicals and petroleum chemicals	2		
Chemicals, unclassified	2		
Ores and metals	•••••	$\frac{3}{3}$	•••••
Ores, miscellaneous		3	

		Fiscal year	
	1992	1991	1990
WEST INDIES TO BALBOA, R.P.—Continued			
Petroleum and petroleum products	72	61	22
Crude oil	20 34		
Diesel oil Fuel oil, residual		30	20
Gasoline	13	21	
Lubricating oil	5	10	2
Miscellaneous	1		• • • • • • •
All other and unclassified	1	1	• • • • • • • • • • • • • • • • • • • •
Total	<u>75</u>	<u>65</u>	=====
WEST INDIES TO HAWAII:			
Petroleum products	59	33	3
Diesel oil			3
Jet fuel	59	33	
Total	59	33	===3
WEST INDIES TO OCEANIA:			
Nitrates, phosphates and potash	10	• • • • • •	• • • • • •
Fertilizers, unclassified	10	20	
Other agricultural commodities	51	38	******
Sugar Miscellaneous	31 1	36 4	4
Container cargo	1	4	4
Total	62	42	4
10tal			==
WEST INDIES TO ASIA:	22	22	27
Canned and refrigerated foods	23	32	$\frac{37}{37}$
Refrigerated foods	23	$\frac{32}{23}$	25
Fish	22	23 8	11
Fruit, excluding bananasOther and unclassified	i	ĭ	i
Chemicals and petroleum chemicals	79	91	145
Chemicals, unclassified	31	19	7
Petroleum chemicals, miscellaneous	48	72	138 1
Machinery and equipment, miscellaneous  Manufactures of iron and steel	103	121	70
Plates, sheets and coils	6	55	8
Wire, bars and rods	97	55	59
Other and unclassified		11	3 24
Nitrates, phosphates and potash	• • • • • • •	13	
Ammonium compounds		21	24
Fertilizers, unclassified Ores and metals	47	14	
Metals	47	14	
Aluminum	28	14	
Iron	18		
Zinc	1,314	1,244	1,223
Other agricultural commodities	1,314	1,244	1,443
Coffee	1,311	1,244	1,223
Petroleum products	181	3	171
Diesel oil			34

,		Fiscal year	
	1992	1991	1990
WEST INDIES TO ASIA—Continued			
Petroleum products—Continued			
Fuel oil residual	39	• • • • • • •	
Gasoline	29 110	• • • • • • •	65 32
Lubricating oil	3	3	6
Other and unclassified			34
Miscellaneous	107	150	143
Liquors and wines			1
Oil, vegetable	107	19 129	141
Container cargo All other and unclassified		2	
Total	1,854	1,689	1.814
EUROPE TO WEST COAST UNITED STATES:	47	69	60
Canned and refrigerated foods	1		1
Canned foods	1	• • • • • • • •	1
Fruit	46	69	59
Chemicals and petroleum chemicals	54	43	30
Caustic soda		1	
Chemicals, unclassified	48	42	30
Petroleum chemicals, miscellaneous	6	159	• • • • • • •
Grain	• • • • • • • • • • • • • • • • • • • •	77	******
Barley		82	
Lumber and products, miscellaneous		2	8
Machinery and equipment	104	121	185
Agricultural machinery and implements	3	2	1
Automobiles, trucks, accessories and parts	97 3	115	172
Construction machinery and equipment  Electrical machinery and apparatus		2	1
Other and unclassified	1		8
Manufactures of iron and steel	541	535	593
Angles, shapes and sections	13	19	23
Nails, tacks and spikes	348	436	381
Plates, sheets and coils	17	24	20
Wires, bars and rods	35	27	92
Other and unclassified	128	29	76
Nitrates, phosphates and potash	271	250	399
Ammonium compounds	22 54	52	79
Nitrate of soda			15
Potash	3		10
Fertilizers, unclassified	192	191	295
Ores and metals	16	6	9
Ores	13	5	• • • • • • •
ManganeseOther and unclassified	13	5	• • • • • •
Metals	3	1	9
Aluminum	1		2
<u>lron</u>			7
Tin, including tinplate	1	1	• • • • • • •
Zinc	1		

		Fiscal year	
	1992	1991	1990
EUROPE TO WEST COAST UNITED STATES—			
Continued Other agricultural commodities, miscellaneous			2
Petroleum products	88	96	387
Fuel oil, residual		39	
Gasoline	33	57	238
Jet fuel			36
Lubricating oil	6		
Other and unclassified	49		113
Miscellaneous	1,574	1,915	1,984
Bricks and tile	5	3	2
CementGlass and glassware	70 1	426	230
Groceries, miscellaneous			2
Liquors and wines		1	2
Marble and stone	2	5	.5
Oil, vegetable	15 8	20 33	17 64
Paper and paper products	1,461	1,385	1,608
All other and unclassified	12	42	54
Total	2,695	3,196	3,657
EUROPE TO WEST COAST CANADA.			
EUROPE TO WEST COAST CANADA: Canned and refrigerated foods	9	12	9
Refrigerated foods, miscellaneous	9	12	9
Lumber and products, miscellaneous			ĺ
Machinery and equipment	6	11	14
Agricultural machinery and implements	1	1	
Automobiles, trucks, accessories and parts	4	10	11
Construction machinery and equipment Other and unclassified	1	• • • • • • •	2
Manufactures of iron and steel	78	97	115
Angles, shapes and sections	2	14	5
Plates, sheets and coils	48	60	67
Tubes, pipes and fittings	2	7	6
Wire, bars and rods	9 17	12	25 12
Other and unclassified	11	<b></b>	17
Ammonium compounds	11		
Fertilizers, unclassified			17
Ores and metals	5	87	75
Ores	5	87	75
Copper	5		
Other and unclassified		87	75
Petroleum products	******	6	******
Lubricating oil	178	169	186
Bricks and tile	2	102	
Marble and stone		i	·····i
Paper and paper products			1
Container cargo	167	164	175
All other and unclassified	<del>9</del> 287	382	417
Total	====		====

		Fiscal year	
	1992	1991	1990
EUROPE TO WEST COAST CENTRAL AMERICA:	17	6	1.1
Canned and refrigerated foods	$\frac{17}{6}$	6	<u>11</u>
Canned foods	6		3
Canned food, miscellaneous		ī	4
Refrigerated food	11	1	4
Dairy products	2	1	
Meat	6	• • • • • •	
Other and unclassified	3 50	14	4 25
Caustic soda		1	2
Chemicals, unclassified	27	13	20
Petroleum chemicals, miscellaneous	23		3
Grains	37	76	52
Barley	1	30	2
Oats	1 8	30	5
Sorghum	1	2	
Wheat	19	8	41
Other and unclassified	7	6	4
Lumber and products, miscellaneous	6	8	2 20
Agricultural machinery and implements			2
Automobiles, trucks, accessories and parts	1	4	12
Construction machinery and equipment	3	1	4
Electrical machinery and apparatus	1	1	1
Other and unclassified	1 92	45	1 67
Angles, shapes and sections	- 72		1
Plates, sheets and coils	27	17	29
Tubes, pipes and fittings			1
Wire, bars and rods	53	26	22
Other and unclassified	12 1	2 2	14
Asbestos		$\frac{2}{2}$	
Soda and sodium compounds	1		1
Nitrates, phosphates and potash	291	342	306
Ammonium compounds	124	198	41
Nitrate of soda	2	10	
Potash	21 144	7 127	265
Ores and metals	31		8
Ores, miscellaneous	1		1
Metals	30		7
Aluminum			1
Copper	3	• • • • • • •	
Scrap	26		
Tin, including tinplate	1		2
Zinc			1
Other and unclassified Other agricultural commodities	198	181	1 141
Cotton, raw	170	2	141
Oilseeds	198	91	90
Sugar		88	51

		Fiscal year	
	1992	1991	1990
EUROPE TO WEST COAST CENTRAL AMERICA— Continued			
Petroleum products	36		32
Diesel oil			13
Fuel oil, residual	35		6
Jet fuel			1
Liquefied gas	·····i	• • • • • • •	3
Lubricating oil	89	54	110
Cement	7		
Flour, wheat	13	3	4
Glass and glassware			2
Groceries, miscellaneous	1	3	1
Liquors and wines	• • • • • •	• • • • • •	2 2
Oil, vegetable	2	1	2
Paper and paper products	6	3	24
Resin			1
Rubber, manufactured	1.4		1
Seeds, excluding oilseeds	14		1
Textiles			i
Wax, paraffin	1	1	3
Container cargo	22	30	39
All other and unclassified	23	13	27
Total	848	728	
EUROPE TO WEST COAST SOUTH AMERICA:			
Canned and refrigerated foods	23	11	10
Canned foods	13	4	6
Fish			1
Milk	13	4	5
Refrigerated foods	10	7	4
Dairy products	2		1
Fish	4	5 2	
Other and unclassified  Chemicals and petroleum chemicals	4 40	73	63
Caustic soda	20	3	5
Chemicals, unclassified	19	69	32
Petroleum chemicals, miscellaneous	1	1	26
Grains	73	40	43
Barley	.5	2	8
Oats	13	4	2
Rice	5		5
Wheat	23	29	17
Other and unclassified	27	5	11
Lumber and products, miscellaneous	1	45	60
Machinery and equipment	$\frac{-63}{7}$	<u>45</u>	<u>69</u>
Agricultural machinery and implements  Automobiles, trucks, accessories and parts	36	17	21
Construction machinery and equipment	14	ii	26
Electrical machinery and apparatus	2	8	6
Other and unclassified	152	4 129	6 118
Manufactures of iron and steel	152	129	110

		Fiscal year	
EURORE TO WEST SOLICE SOLICE AND ISSUED	1992	1991	1990
EUROPE TO WEST COAST SOUTH AMERICA— Continued			
Manufactures of iron and steel—Continued			
Angles, shapes and sections	20	5	7
Nails, tacks and spikesPlates, sheets and coils	3 94	6 69	78
Tubes, pipes and fittings	19	10	8
Wire, bars and rods	8	36	11
Other and unclassified	8	3 22	14 23
Asbestos		6	
Borax		1	1
Infusorial earth	8	2 13	21
Sulfur			1
Nitrates, phosphates and potash	346	362	452
Ammonium compounds	49	22	44
Nitrate of soda	1	2	2 8
Potash	88	87	27
Fertilizers, unclassified	202	245	371
Ores and metals	<del>43</del> 10	<u>15</u>	<u>19</u>
Ores	8		6
Manganese		1	
Tin	2		
Metals	<u>33</u>	<u>8</u>	<u>13</u>
Iron Scrap	5		
Tin, including tinplate	7	5	6
Zinc Other agricultural commodities		29	1 60
Molasses	$\frac{2}{2}$	2	2
Sugar		27	58
Petroleum products	42	179	425
Diesel oil	1	64 36	146 118
Gasoline			87
Jet fuel	5	41	22
Liquefied gasLubricating oil	35	36	18 25
Other and unclassified		2	9
Miscellaneous	971	810	811
Bricks and tile	2	1	4
Cement		1	1
Clay, fire and china			1
Flour, wheat	62	45	1 46
Glass and glassware	2		2
Groceries, miscellaneous	3	4	2
Paper and paper products	33	46	62
Resin	1	1	1
Rubber, manufactured		1	• • • • • • •

		Fiscal year	
EUDODE TO WEST COAST SOUTH AMERICA	1992	1991	1990
EUROPE TO WEST COAST SOUTH AMERICA— Continued			
Miscellaneous—Continued			
Textiles	1	3	1
Wax, paraffin Container cargo	3 796	631	568
All other and unclassified	67	74	115
Total	1,764	1,715	2,093
EUROPE TO BALBOA, R.P.:			
Chemicals and petroleum chemicals	8	6	5
Chemicals, unclassified	4	4	3
Petroleum chemicals, miscellaneous	4	2	2
Manufactures of iron and steel	2	4	1
Angles, shapes and sections	1		
Wire, bars and rods	1	4	
Petroleum products	27	3	5
Fuel oil, residual	23	3	5
Miscellaneous	10	6	7
Oil vegetable			6
Container cargo	10	5 1	
Total	47	19	18
	===		
EUROPE TO OCEANIA:	17		
Canned and refrigerated foods	17	$\frac{11}{11}$	13
Meat	17		13
Other and unclassified	16	11	12
Chemicals and petroleum chemicals	36	127	96
Caustic soda	9 26	34 88	42 50
Petroleum chemicals, miscellaneous	1	5	4
Grains	5	2	2
Sorghum	1		
Soybeans	3	2	2
Lumber and products	2	1	4
Boards and planks		1	
Pulpwood Other and unclassified	1		4
Machinery and equipment	17	27	29
Agricultural machinery and implements	2	3	3
Automobiles, trucks, accessories and parts  Construction machinery and equipment	9	12 7	21
Electrical machinery and apparatus	ĺ	4	2
Other and unclassified		1 57	
Manufactures of iron and steel	35	5	55
Nails, tacks and spikes	1		
Plates, sheets and coils	11	16	14
Tubes, pipes and fittings	6	13	9

	,		Fiscal year	
		1992	1991	1990
EU	ROPE TO OCEANIA—Continued  Manufactures of iron and steel—Continued			
	Wire, bars and rods	10	13	20
	Other and unclassified	4	10	3
	Minerals, miscellaneous	5	7	7
	Salt	4	3 4	4
	Nitrates, phosphates and potash	65	46	36
	Ammonium compounds	19	10	16
	Nitrate of soda	• • • • • •	• • • • • • •	5 5
	Potash	4	8	7
	Fertilizers, unclassified	42	28	3
	Ores and metals	15	22	28
	Ores	15	20	<del>8</del>
	Other and unclassified	15	20	
	Metals		2	20
	Iron		• • • • • • •	7
	Lead Other and unclassified		2	11
	Other agricultural commodities	4	2	
	Oilseeds	3	1	1
	Sugar Petroleum products	1 14	1	1 40
	Liquefied gas	10	<u>-</u>	9
	Lubricating oil	3		5
	Petroleum coke	1	• • • • • • • •	24 2
	Miscellaneous	690	677	702
	Bricks and tile	1	3	1
	CementFlour, wheat	4 18	15	5 15
	Glass and glassware	1		13
	Liquors and wines	· · · · · · · <u>·</u>		1
	Oil, vegetablePaper and paper products	7 15	11	12 11
	Resin	Ĩ		
	Slag, clinkers and dross	• • • • • • • •	2	
	Container cargo	618	583	601
	All other and unclassified	25	54	54
	Total	905	980	1,014
EUI	ROPE TO ASIA:			
	Canned and refrigerated foods	82	108	59
	Refrigerated foods	82	108	59
	Fight excluding bananas	71	92	56
	Fruit, excluding bananas Other and unclassified	11	1 15	3
	Chemicals and petroleum chemicals	65	205	152
	Caustic soda		6	5
	Chemicals, unclassified	63	159 40	128 19
	,	_	. •	

Fiscal year

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

FUDORE TO ACIA, C	1992	1991	1990
EUROPE TO ASIA—Continued	0.4		
Grain	94	10	• • • • • • • •
Barley	27 22	10	• • • • • • •
Other and unclassified	45	10	• • • • • • •
Lumber and products	19	11	5
Pulpwood	19	7	5
Other and unclassified		4	
Machinery and equipment	4	17	14
Automobiles, trucks, accessories and parts	3	16	12
Construction machinery and equipment Electrical machinery and apparatus	1	1	1
Other and unclassified		• • • • • • •	1
Manufactures of iron and steel	17	25	
Plates, sheets and coils	17	24	
Tubes, pipes and fittings		1	
Nitrates, phosphates and potash	93	71	30
Nitrate of soda		1	
Potash Fertilizers, unclassified	88 5	46 24	30
Ores and metals	41	28	47
Ores	41		
Chrome	14		*****
Other and unclassified	27		
Metals		28	47
Iron			31
Scrap			16
Other and unclassified Petroleum products		28	
Jet fuel	6	16	3
Liquefied gas		1	
Lubricating oil	6	9	3
Miscellaneous	164	163	123
Bricks and tile		4	
Groceries, miscellaneous			1
Marble and stone Oil, vegetable	• • • • • • •	2 1	2
Paper and paper products		23	17
Container cargo	148	114	89
All other and unclassified	16	19	14
Total	585	654	433
AFRICA TO WEST COAST UNITED STATES:			
Machinery and equipment, miscellaneous			1
Manufactures of iron and steel	19		11
Plates, sheets and coils	10		
Wires, bars and rods			11
Other and unclassified	9		
Ores and metals	26	12	21
Ores, miscellaneous	25	12	21
_	1		******
Iron Other agricultural commodities	1	18	
Sugar		18	

		Fiscal year	
	1992	1991	1990
AFRICA TO WEST COAST UNITED STATES— Continued			
Petroleum products	<u></u>		54
Fuel oil, residual			54
Miscellaneous	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	58
Cement			34
Marble and stone	• • • • • • •	• • • • • • •	1
Slag, clinkers and dross	• • • • • •	• • • • • • •	15 7
Container cargo			í
Total	45	30	145
Total	====	====	====
AFRICA TO WEST COAST CANADA:			
Nitrates, phosphates and potash	851	726	712
Phosphates	851	726	712
Miscellaneous			1
Container cargo			1
Total	851	726	713
AFRICA TO WEST COAST CENTRAL AMERICA:			
Chemicals and petroleum chemicals	56	•••••	• • • • • • • • • • • • • • • • • • • •
Chemicals, unclassified	56	1	14
Grains, miscellaneous	163	487	149
Phosphates	134	473	149
Fertilizers, unclassified	29	14	
Ores and metals	4		
Ores	3		
Manganese	3		
Metals, miscellaneous	1		
Miscellaneous			1
Container cargo	<u></u>		1
Total	223	487	164
A EDICA MO MEST COAST COMMINANCED CO			
AFRICA TO WEST COAST SOUTH AMERICA:			
Canned and refrigerated foods	6	• • • • • • •	•••••
Refrigerated foods	6	•••••	• • • • • • •
Fish	0	• • • • • • •	12
Grains			14
Corn			14
Lumber and products, miscellaneous	1		
Manufactures of iron and steel	27	18	
Plates, sheets and coils	27	1	
Wire, bars and rods		17	
Nitrates, phosphates and potash	14	56	16
Phosphates		4	
Fertilizers, unclassified	14	52	16
Petroleum products	12	•••••	•••••
Liquefied gas	12 4		3
Paper and paper products		2	$\frac{3}{2}$
Container cargo	3		

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

[ 1 nousands of long tons]			
		Fiscal year	
	1992	1991	1990
AFRICA TO WEST COAST SOUTH AMERICA—			
Continued			
Miscellaneous—Continued			
All other and unclassified	1		1
Total	64	76	45
AFRICA TO OCEANIA:			
Nitrates, phosphates and potash	157	145	168
Phosphates	153	118	168
Fertilizers, unclassified	4	27	
Miscellaneous	1	18	
Container cargo		17	
All other and unclassified	1	1	
Total	158	163	168
AFRICA TO ASIA:			
Canned and refrigerated foods	27	62	31
Fish, refrigerated	27	62	31
Nitrates, phosphates and potash	32	25	
Phosphates	32	25	
Ores and metals, miscellaneous			40
Petroleum products		55	
Gasoline		55	
Miscellaneous		i	4
Container cargo			4
All other and unclassified		1	
Total	59	143	75
ASIA (MIDDLE EAST) TO WEST COAST			
UNITED STATES:			
Canned and refrigerated foods, miscellaneous	3	1	1
Petroleum products	32		59
Gasoline	32		34
Other and unclassified			25
Miscellaneous	46	29	38
Container cargo	45	29	38
All other and unclassified	1		******
Total	81	29	98
101. (1000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
ASIA (MIDDLE EAST) TO WEST COAST			
SOUTH AMERICA: Grains		11	
	• • • • • • • •		******
Rice	85	11	35
Nitrates, phosphates and potash	63	33	35
Phosphates	85	33	33
Petroleum products	19		
Liquefied gas	19		
Miscellaneous	6	33	2
Container cargo	5		1
All other and unclassified	I	33	i
Total	110	77	37
1 otal	110		====

	Fiscal year		
	1992	1991	1990
ASIA (MIDDLE EAST) TO ASIA			
Chemicals and petroleum chemicals	9	• • • • • • •	
Chemicals, unclassified	9		
Other agricultural commodities	4		
Molasses	4		
Petroleum products	2		
Lubricating oil	1		
Other and unclassified	1		
Miscellaneous	10	16	1
Oil Vegetable	1		
Tallow	1		
Container cargo	8	16	1
Total	24	16	1

,,		F: 1	
		Fiscal year	
WEST OO AST UNITED STATES TO FAST OO AST	1992	1991	1990
WEST COAST UNITED STATES TO EAST COAST UNITED STATES:			
Canned and refrigerated foods	6	1	2
	6		3
Refrigerated foods	6	1	3
Fish	2	1	
Fruit, excluding bananas	2 2		
Other and unclassified	_	20	3
•	58	28	48
Caustic soda	25	20	40
Chemicals, unclassified	33 18	28	48
Coal and coke (excluding petroleum coke)		• • • • • • • • •	•••••
Coal	18	15	22
Lumber and products	3	15	23
Boards and planks	3	16	23
Pulpwood Ores and metals	34	15	
		10	•••••
Metals	34	10	• • • • • • • •
Lead		10	• • • • • •
Other and unclassified	34		
Other agricultural commodities	1	9	• • • • • • •
Coffee	1		
Molasses		9	
Petroleum and petroleum products	952	745	633
Crude oil	272	146	123
Diesel oil	45	66	33
Fuel oil, residual	132 280	31 393	146 120
Gasoline	280	393	70
Liquefied gas			8
Lubricating oil	154	109	122
Other and unclassified	69		11
Miscellaneous	94	110	107
Liquors and wines			4
Oil, vegetable	29	40	21
Container cargo	62	68	73
All other and unclassified	3	2	9
Total	1,166	918	814
WEST COAST UNITED STATES TO EAST COAST			
CANADA:			
Canned and refrigerated foods	10		
Refrigerated foods	10		
Fish	10		
Coal and coke (excluding petroleum coke)		24	24
Coke		24	24
Ores and metals		16	
Ores		16	
Lead		16	
Petroleum products	273	138	254
Diesel oil	38		
Fuel oil, residual	33		108
Petroleum coke	202	138	146
Miscellaneous	4	3	3

		Fiscal year	
	1992	1991	1990
WEST COAST UNITED STATES TO EAST COAST CANADA—Continued			
Miscellaneous—Continued			
Container cargo	4	3	3
Total	287	181	280
WEST COAST UNITED STATES TO EAST COAST			
CENTRAL AMERICA: Grains		0	
Rice	•••••	9	•••••
Petroleum products	38	240	
Diesel oil	8		
Fuel oil, residual	5		
Gasoline	25	239	
Liquefied gas	• • • • • • •	1	
Container cargo	• • • • • • •	1	1
Total	38	250	
10(a)			<del></del>
WEST COAST UNITED STATES TO EAST COAST			
SOUTH AMERICA:	0	,	
Canned and refrigerated foods	9	6	• • • • • • •
Refrigerated foods	9	<u>6</u> 5	•••••
Fruit, excluding bananasOther and unclassified	2	3 1	• • • • • •
Chemicals and petroleum chemicals		12	
Caustic soda		10	
Chemicals, unclassified		2	
Lumber and products	17	10	5
Pulpwood Other and unclassified	13	10	5
Machinery and equipment	ĭ		4
Automobiles, trucks, accessories and parts	1		4
Minerals, miscellaneous	150	148	143
Borax		1	1
Salt	4		
Soda and sodium compounds	119 27	90 57	77 65
Other agricultural commodities	7		
Peas, dry	7		
Ores and metals	30	88	31
Ores	30	67	31
Copper	30	55	31
Other and unclassified	• • • • • • •	12 21	• • • • • • •
Copper		21	
Petroleum products	68	75	136
Fuel oil, residual			127
Gasoline		70	
Liquefied gas	38 30	5	9
Miscellaneous	48	39	23
Paper and paper products	1	8	10
*	-		

		Fiscal year	
WEST COAST HANTED STATES TO DAME SO LOT	1992	1991	1990
WEST COAST UNITED STATES TO EAST COAST SOUTH AMERICA—Continued			
Miscellaneous—Continued			
Container cargo	45	30	12
All other and unclassified	2	1	1
Total	330	<u>378</u>	344
WEST COAST UNITED STATES TO CRISTOBAL, R.P.:			
Petroleum products	5		
Fuel oil, residual	5		
Miscellaneous	54	67	15
Container cargo	53 1	67	15
Total	59	67	15
100011111111111111111111111111111111111	====		
WEST COAST UNITED STATES TO WEST INDIES:			
Canned and refrigerated foods	5	4	•••••
Refrigerated foods	5	4	•••••
FishGrains	3	15	• • • • • • •
Rice		15	
Petroleum products	578	79	373
Diesel oil	63		7
Fuel oil, residual	358 38	17 62	362
Kerosene	70		
Lubricating oil	49		
Other and unclassified	55	42	4 8
Container cargo	53	42	7
All other and unclassified	2		i
Total	638	140	381
WEST COAST UNITED STATES TO EUROPE:			
Canned and refrigerated foods	179	210	207
Canned foods	5		
Fruit	5		
Refrigerated foods	174	210	207
FishFruit, excluding bananas	51 36	110 36	107 22
Other and unclassified	87	64	78
Chemicals and petroleum chemicals	100	81	62
Caustic soda	48	18	
Chemicals, unclassified	35 17	28 35	35 27
Coal and coke (excluding petroleum coke)	263	175	214
Coal	208	54	103
Coke	55	121	111
Grains	<u>298</u>	114	<u>241</u>
Rice	131	30	81
Other and unclassified		3	
Lumber and products	506	501	629

Table 11.—Important Commodity Shipments over Principal Trade Routes

Pacific to Atlantic—Continued

		Fiscal year	
	1992	1991	1990
WEST COAST UNITED STATES TO EUROPE— Continued			
Lumber and products—Continued			
Boards and planks	154	119	198
Plywood, veneers, composition board	54 258	43 280	67 341
PulpwoodOther and unclassified	40	59	23
Machinery and equipment	2	6	• • • • • •
Automobiles, trucks, accessories and parts	2	3	• • • • • • • •
Construction machinery and equipment Other and unclassified		3	
Manufactures of iron and steel		9	
Plates, sheets and coils		8	
Tubes, pipes and fittings	879	723	468
Minerals, miscellaneous  Borax	366	391	410
Soda and sodium compounds	462	157	58
Sulfur	51	175	
Nitrates, phosphates and potash	11	30	21
Fishmeal	11	3 23	21
Phosphates		4	
Ores and metals	702	561	391
Ores	592	456	304
Copper	102	10	31 23
Iron Lead	86	126	74
Tin	1		
Zinc	335 68	246 74	139 37
Other and unclassified  Metals	110	105	87
Copper		16	
Lead	26	32	22
Zinc Other and unclassified	84	50 7	65
Other agricultural commodities	10	6	7
Beans, edible		1	1
Cotton, raw	2 2	3 2	6
Oilseeds Peas, dry	6		
Petroleum products	2,594	2,029	2,045
Diesel oil	111		
Fuel oil, residual	309 13	138	
Liquefied gas	25	16	12
Lubricating oil	2.120	1 074	2.027
Petroleum coke	2,120 16	1,874	2,027
Miscellaneous	1,389	1,440	1,343
Clay, fire and china	15	15	15
Flour, wheat			2
Groceries, miscellaneous Oil, coconut	1		
Oil, fish	2		
Oil, vegetable	5	9	12

		Fiscal year	
	1992	1991	1990
WEST COAST UNITED STATES TO EUROPE—			
Continued Miscellaneous—Continued			
Paper and paper products	34	13	8
Seeds, excluding oilseeds	i		
Tallow	6		
Wax, paraffin Container cargo	1,291	1 220	1 246
All other and unclassified	33	1,330 68	1,246 47
Total	6,933	5,918	5,628
			3,020
WEST COAST UNITED STATES TO AFRICA:			
Canned and refrigerated foods	7		
Canned foods	7		
Milk	7		
Grains	1,326	1,760	957
Barley			26
Rice	1.226	30	27
Wheat Lumber and products	1,326 27	1,730 39	904 97
Boards and planks	18	27	93
Pulpwood	9	12	4
Minerals, miscellaneous	227	108	182
Borax	1		
Soda and sodium compounds		41	85
Sulfur	226	67	97
Nitrates, phosphates and potash  Ores and metals		• • • • • • •	27 49
	• • • • • • •	******	49
Ores, miscellaneous Other agricultural commodities	56	37	33
Cotton, raw	56	37	33
Petroleum products	45		
Kerosene	45		
Miscellaneous	63	14	36
Flour, wheat	52		
Container cargo	11	13	36
All other and unclassified		1	******
Total	1,749	1,958	1,381
WEST COAST UNITED STATES TO ASIA			
(MIDDLE-EAST):			
Canned and refrigerated foods	3	1	1
Refrigerated foods, miscellaneous	3	1	1
Chemicals and petroleum chemicals			4
Chemicals, miscellaneous			2
Petroleum chemicals, miscellaneous			2
Grains	50	•••••	*****
Barley	50 39	• • • • • • • •	
Sulfur	39	******	******
Petroleum products	54		2
Lubricating oil			
Petroleum coke	54		

		Fiscal year	
	1992	1991	1990
WEST COAST UNITED STATES TO ASIA (MIDDLE-EAST)—Continued			
Miscellaneous	56	29	36
Container cargo	56	29	35
All other and unclassified	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	1
Total	202	30	43
WEST COAST CANADA TO EAST COAST			
UNITED STATES			
Chemicals and petroleum chemicals	263	242	194
Caustic soda	10 200	242	187
Petroleum chemicals, miscellaneous	53	242	7
Lumber and products	484	458	788
Boards and planks	469	453	785
PulpwoodOther and unclassified	1 14	5	2
Petroleum and petroleum products	487	505	101
Crude oil	367	401	80
Diesel oil	17		21
Gasoline	101	104	• • • • • • • • • • • • • • • • • • • •
Miscellaneous	5	5	i
Paper and paper products	3	4	1
Container cargo		1	
All other and unclassified	1 220	1.200	1.004
Total	1,239		1,084
WEST COAST CANADA TO EAST COAST CENTRAL			
AMERICA:	106		
Grain	106	•••••	•••••
Wheat  Nitrates, phosphates and potash	106 16	14	
Fertilizers, miscellaneous	16	14	
Petroleum products	32	28	
Gasoline	32	28	
Total	154	42	
WEST COAST CANADA TO EAST COAST SOUTH			
AMERICA			
Chemicals and petroleum chemicals, miscellaneous	• • • • • •	16	
Coal and coke (excluding petroleum coke)	•••••	56	•••••
Coal	587	194	65
Barley	56	79	16
Oats	1	1	
Wheat	514 16	106 8	49
Other and unclassified	52	40	17
Boards and planks	2		
Plywood, veneers and composition board	1		
Pulpwood	49 211	40 292	17 261
Asbestos	1		201
	•		

		Fiscal year	
	1992	1991	1990
WEST COAST CANADA TO EAST COAST SOUTH			
AMERICA—Continued Minerals, miscellaneous—Continued			
	210	292	261
Sulfur			261 35
Ammonium compounds		• • • • • • •	4
Potash			31
Ores and metals	5	35	35
Ores	5	15	26
Copper	5	15	25
Other and unclassified	• • • • • •		1
Metals	• • • • • • • • • • • • • • • • • • • •	20	9
Copper	24	20 21	9 16
Other agricultural commodities	9	11	5
Beans, edible	15	10	11
Miscellaneous	72	78	52
Groceries, miscellaneous	13		
Paper and paper products	30	65	40
Seeds, excluding oilseeds	1		
Container cargo	26 2	13	9
Total	951	732	481
10(a1		132	
WEST COAST CANADA TO WEST INDIES:			
Grains	38	• • • • • • •	
Wheat	38	20	44
Lumber and products	<u>62</u> 58	38	42
Boards and planks		30	2
Other and unclassified	4		
Minerals, miscellaneous	27	21	39
Sulfur	27	21	39
Nitrates, phosphates and potash	21	20	24
Ammonium compounds	12	4	15 9
Fertilizers, unclassified	5	16 2	2
Paper and paper products	5	2	2
Total	153	81	109
10tai		====	====
WEST COAST CANADA TO EUROPE:			
Canned and refrigerated foods	83	33	24
Refrigerated foods	83	33	24
Fish	17	18	6 18
Other and unclassified	66	15 23	4
Chemicals, unclassified	•••••	13	4
Petroleum chemicals, miscellaneous		10	
Coal and coke (excluding petroleum coke)	2,605	2,365	1,944
Coal	2,578	2,253	1,944
Coke	27	112	200
Grains	103	530	<u>288</u>
Barley	6 27	448 52	73
Wiledt	21	32	, 5

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

		Fiscal year	
WITH COLOR CLUVE TO THE COLOR COLOR	1992	1991	1990
WEST COAST CANADA TO EUROPE—Continued Grains—Continued			
Other and unclassified	70	30	29
Lumber and products	2,696	3,042	3,401
Boards and planks	904 100	1,388 79	1,684 117
Pulpwood	1,498	1,475	1,440
Other and unclassified	194	100	160
Machinery and equipment, miscellaneous  Manufactures of iron and steel, miscellaneous		3	2
Minerals, miscellaneous	179	377	985
Asbestos	1		3
Borax	7	4	10
Sulfur	171	373	972
Nitrates, phosphates and potash	• • • • • • •	34	37
Fishmeal	• • • • • • •	2 15	1 13
Fertilizer, unclassified		17	23
Ores and metals	107	132	91
Ores	88	89	
Copper Lead	82	57 11	70
Zinc	4	21	
Other and unclassified	2	43	
Metals		43	$\frac{21}{2}$
Copper	10	10	
Iron	1		
Lead	3	14 15	15 4
Other agricultural commodities	53	30	8
Beans, edible	3		4
Oilseeds	39 11	26 4	4
Petroleum products	90	224	159
Petroleum coke	90	224	159
Miscellaneous	<u>676</u>	672	594
Groceries, miscellaneous	4	1	
Oil, vegetable	2		2
Paper and paper products	377 16	335	311
Tallow	21	26	28
Container cargo	231	278	235
All other and unclassified	25	7.466	15
Total	<u>6,592</u>	<u>7,466</u>	<u>7,537</u>
WEST COAST CANADA TO AFRICA:			
Coal and coke (excluding petroleum coke)	91	122	•••••
Coal	91 57	122 264	156
Barley		49	130
Wheat	47	213	156

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

		Fiscal year	
WEST COAST CANADA TO AFRICA—Continued	1992	1991	1990
Grains—Continued			
Other and unclassified	10	2	
Lumber and products	16	303	267
Boards and planks Plywood, veneers, composition board	11	250 18	267
Pulpwood	5	19	
Other and unclassified	1,667	16 1,680	1.016
Asbestos	1,007	1,000	1,016
Sulfur	1,666	1,680	1,016
Other agricultural commodities, miscellaneous Miscellaneous	33	• • • • • • •	2
All other and unclassified	33	•••••	•••••
Total	1,864	2,369	1,442
WEST COAST CANADA TO ASIA (MIDDLE EAST):			
Lumber and products		6	6
Boards and planks			2
PulpwoodOther and unclassified		4 2	4
Minerals, miscellaneous	149	261	259
Sulfur	149	261	259
Miscellaneous	• • • • • • •	1	1
Paper and paper products All other and unclassified		·····i	1
Total	149	268	265
WEST COAST CENTRAL AMERICA TO EAST COAST			
UNITED STATES:			
Canned and refrigerated foods	28	14	2
Refrigerated foods	28	14	2
Other and unclassified	28	14	1
Chemicals and petroleum chemicals	288	181	150
Chemicals, unclassified	268 20	174 7	150
Machinery and equipment	1		5
Automobiles, trucks, accessories and parts			5
Construction machinery and equipment	1 61	63	97
Angles, shapes and sections	7		- 71
Plates, sheets and coils	17	63	61
Other and unclassified	37 536	556	36 537
Salt	505	556	537
Sulfur Nitrates, phosphates and notach	31		
Nitrates, phosphates and potash	$\frac{2}{2}$	<del>8</del>	10
Ores and metals	183	177	143
Ores	168	177	143
lron Other and unclassified	168	177	106
other and unclassificu	108	1//	37

	F	iscal year	
WEST COAST CENTRAL AMERICA TO FAST COAST	1992	1991	1990
WEST COAST CENTRAL AMERICA TO EAST COAST UNITED STATES—Continued			
Ores and metals—Continued			
Metals	15	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •
IronOther agricultural commodities	15 1,021	824	626
Coffee	26	8	27
Molasses	329	251	172
Skins and hides			7
Sugar	666	565	420
Petroleum and petroleum products	<del></del>	<u>11</u>	3
AsphaltCrude oil	52		
Fuel oil, residual	96		
Gasoline	4		3
Liquefied gas	39	10 1	• • • • • • • •
Miscellaneous	7	5	3
Oil fish			3
Container cargo	7	4	
All other and unclassified		1	
Total	2,323	1,839	1,575
WEST COAST CENTRAL AMERICA TO EAST COAST CENTRAL AMERICA: Canned and refrigerated foods	4		
Milk, canned	4		
Chemicals and petroleum chemicals	56		23
Chemicals, unclassified	56		23
Grains	15	59	67
Corn	15	30	9
Wheat		29	58
Lumber and products	1		
Boards and planks	1		
Machinery and equipment, miscellaneous	• • • • • • • •	6	1
Plates, sheets and coils	•••••	6	*******
Minerals, miscellaneous			27
Salt			27
Nitrates, phosphates and potash	203	342	268
Ammonium compounds		8	260
Phosphates	203 4	334	268 24
Ores, miscellaneous	4	******	
Metals			24
Copper			24
Other agricultural commodities	36	41	15
Oilseeds	1	1	1
Sugar Petroleum and petroleum products	35 92	40 39	14 93
Crude oil	26		
Diesel oil	38	20	2

		Fiscal year	
WITHOUT OO A OT OFFITE ALL AMERICA TO FACT COACT	1992	1991	1990
WEST COAST CENTRAL AMERICA TO EAST COAST CENTRAL AMERICA—Continued			
Petroleum and petroleum products—Continued			
Fuel oil, residual	28		53 19
Gasoline Other and unclassified			19
Miscellaneous	8	5	17
Oil, fish Oil, vegetable	7	1	17
All other and unclassified	<u>i</u>		
Total	419	492	533
WEST COAST CENTRAL AMERICA TO EAST COAST			
WEST COAST CENTRAL AMERICA TO EAST COAST SOUTH AMERICA:			
Canned and refrigerated foods	71	67	56
Refrigerated foods	71	67	56
Bananas	4 67	67	56
Chemicals and petroleum chemicals, miscellaneous			7
Grains	1	• • • • • • • •	•••••
Oats Lumber and products	2		3
Boards and planks	2		3
Minerals, miscellaneous	1	•••••	• • • • • • • • • • • • • • • • • • • •
Sulfur Nitrates, phosphates and potash	7	13	5
Ammonium compounds	7	12	5
Fishmeal	97	1 43	30
Ores	95	43	30
Copper	10		12
Other and unclassified  Metals	85 2	43	18
Scrap	$\frac{2}{2}$		
Other agricultural commodities	112	18	37
Beans, edible Peas, dry	7		
Sugar	101	18	37
Miscellaneous	4	4	3
Oil, vegetable	2 2	3	1
All other and unclassified		1	2
Total	295	145	141
WEST COAST CENTRAL AMERICA TO CRISTOBAL,			
R.P.:			
Lumber and products, miscellaneous  Ores and metals	31	10	
Ores, miscellaneous	31	10	
Petroleum products	15	• • • • • • • • • • • • • • • • • • • •	13
Diesel oil Fuel oil, residual	10		13
Miscellaneous	2	i	8

		Fiscal year	
WINDS CO. OF COMPANY AND COMPANY	1992	1991	1990
WEST COAST CENTRAL AMERICA TO CRISTOBAL, R.P.—Continued			
Miscellaneous—Continued			
Container cargo	2	1	8
Total	50	11	21
WEST COAST CENTRAL AMERICA TO WEST INDIES: Canned and refrigerated foods	29	52	94
Refrigerated foods	29	<u>52</u> 52	94
Bananas		7	
Fish	29	45	93
Other and unclassified			1
Chemicals and petroleum chemicals, miscellaneous Grains	· · · · · · · · · · · · · · · · · · ·	• • • • • • •	13 16
Rice	4	•••••	
Wheat			16
Lumber and products	9	15	15
Boards and planks	8	15	15
Other and unclassified	1		1
Nitrates, phosphates and potash	2	3	6
Fishmeal	2	3	2
Nitrate of soda	170		4
Ores and metals Ores	179	45	• • • • • • • • • • • • • • • • • • • •
lron	152	20	•••••
Other and unclassified	27	25	
Other agricultural commodities	112	134	59
Cotton, raw	1		
Molasses	63 48	82 52	31 28
Petroleum products	429	6	24
Diesel oil	166		
Fuel oil, residual	219	6	24
Jet fuel	44 12	5	19
Oil, fish	3		
Oil, vegetable	1	3	
Tallow	4 2	2	17
All other and unclassified	2		2
Total	776	260	247
WEST COAST CENTRAL AMERICA TO EUROPE:	617	672	624
Canned and refrigerated foods	517	<u> 573</u> 2	524
Fish	•••••	2	
Other and unclassified			i
Refrigerated foods	517	571	523
Bananas	485	530	450
Dairy products	2 25	39	66
Fruit, excluding bananas	3	ĺ	4

		Fiscal year	
WEST COAST CENTRAL AMERICA TO EUROPE—	1992	1991	1990
Continued			
Canned and refrigerated foods—Continued Refrigerated foods—Continued			
Other and unclassified	2	1	3
Chemicals and petroleum chemicals	1	*****	2
Coal and coke (excluding petroleum coke)		29	
Coke		29	
Grains, miscellaneous		1	
Lumber and products	$\frac{3}{3}$	<u>6</u> 3	18
Boards and planks Pulpwood		3	4
Manufactures of iron and steel	174	28	107
Plates, sheets and coils	136	28	107
Wire, bars and rods	4		
Other and unclassified Ores and metals	34 33	35	23
Ores		13	10
Copper		7	3
Lead			2
Zinc Metals	33	6 22	5 13
Copper	33	20	12
Iron			1
Other and unclassified	114	125	264
Other agricultural commodities	114	125	264
Beans, edible	65	79	119
Cotton, raw	3	5	12
MolassesOilseeds	4 2	19 1	79 1
Peas, dry	10	21	
Sugar	24		53
Miscellaneous	44	52	57
Clay, fire and china Groceries, miscellaneous			3 5
Oil, fish	11		6
Oil, vegetable	4		2
Seeds, excluding oilseeds	1 24	5 46	37
All other and unclassified	4		4
Total	886	849	995
WEST COAST CENTRAL AMERICA TO AFRICA: Canned and refrigerated foods		1	6
Refrigerated foods		1	6
Fish		1	6 26
Grains	<u>10</u>	14	
Corn			26
Lumber and products	8	8	6

		Fiscal year	
	1992	1991	1990
WEST COAST CENTRAL AMERICA TO AFRICA—			
Continued Lumber and products—Continued			
Boards and planks	8	8	6
Other agricultural commodities	68	109	84
Cotton, raw	11		
Sugar	57	109	84
Miscellaneous	<u></u>	3	2
Seeds, excluding oilseeds		3	
Container cargo	• • • • • • •	• • • • • •	1
All other and unclassified	86	125	124
Total		135	124
WEST COAST CENTRAL AMERICA TO ASIA			
(MIDDLE EAST):			
Canned and refrigerated foods	1	2	
Refrigerated foods	1	2	
Bananas	1	1	
Fish		1	
Other agricultural commodities	• • • • • • • •	3	•••••
Oilseeds	• • • • • • •	3	• • • • • • •
Petroleum products	•••••	<u>24</u> 24	•••••
Miscellaneous		1	
All other and unclassified		1	
Total	1	30	
		===	====
WEST COAST SOUTH AMERICA TO EAST COAST			
UNITED STATES:			
Canned and refrigerated foods	876	1,051	1,085
Canned foods	17	8	7
Fish	14	2 5	2 3
Fruit	2	1	2
Canned foods, miscellaneous	ĩ		
Refrigerated foods	859	1,043	1,078
Bananas	392	579	580
Fish	14	22	23
Fruit, excluding bananas	371 82	383 59	419 56
Chemicals and petroleum chemicals	206	51	96
Chemicals, miscellaneous	188	47	94
Petroleum chemicals, miscellaneous	18	4	2
Grains, miscellaneous			1
Lumber and products	73	80	59
Boards and planks  Plywood, veneers, composition board	16 10	34 8	35 12
Pulpwood	42	34	5
Other and unclassified	5	4	7
Machinery and equipment	<u></u>	7	1
Agricultural machinery and implements	• • • • • • •	3	
Automobiles, trucks, accessories and parts  Construction machinery and equipment		2 2	1
Community and equipment		2	

,		Fiscal year	
WEST COAST SOUTH AMERICA TO EAST COAST	1992	1991	1990
UNITED STATES—Continued			
Manufactures of iron and steel		1	28
Nails, tacks and spikes			1
Tubes, pipes and fittings Wire, bars and rods		1	3
Other and unclassified		* * * * * * *	2 22
Minerals, miscellaneous	302	588	810
Salt	292	582	810
Soda and sodium compounds  Nitrates, phosphates and potash	10 195	185	206
Fishmeal	16	27	<u>286</u>
Nitrate of soda	177	132	190
Potash	2	10	6
Ores and metals	426	16 468	16 428
Ores	274	343	247
Copper	15	3	10
Iron Lead	178 6	275	173
Zinc	48	18	9
Other and unclassified	27	47	55
Aluminum	152	125	181
Copper	95	4 98	158
Iron	22		
LeadZinc	8 26	23	2 21
Other and unclassified	1		
Other agricultural commodities	261	370	617
Beans, edible	12	31	1 33
Coffee	94	98	106
Cotton, raw	3 45	21	2
Skin and hides		21	55 18
Sugar Wool, raw	107	220	401
Petroleum and petroleum products	2,003	2,750	4,593
Crude oil	929	1,667	2,213
Diesel oil Fuel oil, residual	17		28
Gasoline	1,039 18	1,082	2,250 54
Other and unclassified			48
Miscellaneous	836	692	701
Bricks and tile Fibers, plant		· · · · · · · · · · · · · · · · · · ·	4
Groceries, miscellaneous	i	1	5
Liquors and wines Marble and stone	10 1	3	4
Oil, fish	4	4	5
Oil, vegetable Paper and paper products	1	9	18
Slag, clinkers and dross	1	12	4 28
Textiles	2	2	5

[ I nousands of long tons]			
		Fiscal year	
	1992	1991	1990
WEST COAST SOUTH AMERICA TO EAST COAST			
UNITED STATES—Continued			
Miscellaneous—Continued			
	771	608	598
Container cargo	45	52	29
All other and unclassified			
Total	5,178	6,243	8,705
WEST COAST SOUTH AMERICA TO EAST COAST			
CANADA:			
Lumber and products	9	• • • • • • • • • • • • • • • • • • • •	•••••
Pulpwood	9		
Nitrates, phosphates and potash	1 I	6	
Nitrate of soda	11	6	
Ores and metals	4	5	21
_	4	5	15
Ores			
Copper		5	15
Lead	4	• • • • • • •	
Metals	• • • • • • •	• • • • • • •	6
Copper			6
Petroleum and petroleum products	53		27
Crude oil	53		
Fuel oil, residual			27
Miscellaneous	4	5	4
Liquors and wines	3	3	3
Container cargo	3	ĭ	3
All other and unclassified	i	i	ii
	81	16	52
Total			
WEST COAST SOUTH AMERICA TO EAST COAST			
CENTRAL AMERICA:			
Canned and refrigerated foods	3		
5		*****	•••••
Canned foods	1	• • • • • • •	• • • • • • • • •
Fruit	1		
Refrigerated foods, miscellaneous	2		
Chemicals and petroleum chemicals			1
Chemicals, unclassified			1
Lumber and products	5		1
Boards and planks	3		
Plywood, veneers, composition board	1		1
Other and unclassified	1		
Manufactures of iron and steel		2	
Plates, sheets and coils		2	
Nitrates, phosphates and potash	15	2	3
	3	• • • • • • • • • • • • • • • • • • • •	
Fishmeal	12		2
Nitrate of soda			i
Fertilizers, miscellaneous	06	48	30
Ores and metals	<u>96</u>		
Ores	70	33	28
Copper	3	2	
Lead	50	25	13
<u>Tin</u>		ļ	2
Zinc		5	13
		_	13
Other and unclassified	17		

		Fiscal year	
WEST COAST SOUTH AMERICA TO FAST COAST	1992	1991	1990
WEST COAST SOUTH AMERICA TO EAST COAST CENTRAL AMERICA—Continued			
Ores and metals—Continued			
Metals	26	15	2
Copper	19	10	2
LeadZinc	3 4	5	
Other agricultural commodities			5
Coffee			1
Sugar	1 112	0.50	4
Petroleum and petroleum products	1,112	850 825	903
Crude oil	1,009	25	56
Gasoline	23		5
Miscellaneous	56	61	65
Flour, wheatOil, fish	1 23	22	31
Oil, vegetable	23	6	9
Paper and paper products			1
Container cargo	27	26 7	21
Total	1,287	961	1,008
WEST COAST SOUTH AMERICA TO EAST COAST			
SOUTH AMERICA:			
Canned and refrigerated foods	35	13	17
Canned foods	3	2	• • • • • • •
Fish Fruit	1 2	1	• • • • • • •
Refrigerated foods	32	<u>1i</u>	17
Bananas	4	2	8
FishFruit, excluding bananas	9 17	2 7	5
Other and unclassified	2		
Chemicals and petroleum chemicals	5	1	6
Chemicals, unclassified	5	1	6
Grains	$\frac{3}{1}$	•••••	$\frac{7}{7}$
Other and unclassified	2		
Lumber and products	53	24	36
Boards and planks	14	5	5
Plywood, veneers, composition board Pulpwood	7 29	2 17	31
Other and unclassified	3		
Machinery and equipment	1	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
Construction machinery and equipment  Manufactures of iron and steel	1 2		
Angles, shapes and sections		<del></del>	
Wires, bars and rods	î		
Other and unclassified		1	1
Minerals, miscellaneous	******	•••••	2
Borax  Nitrates, phosphates and potash	3	2	5

		Fiscal year	
	1992	1991	1990
WEST COAST SOUTH AMERICA TO EAST COAST SOUTH AMERICA—Continued			
Nitrates, phosphates and potash—Continued			
Ammonium compounds			2
Fishmeal	1 2		3
Ores and metals	96	98	56
Ores	43	64	30
Copper	11	13	
Lead	2	11	2
Zinc Other and unclassified	30	40	28
Metals	53	34	26
Aluminum	1		
CopperLead	26 4	14 6	6
Tin, including tinplate	i		
Zinc	19	13	13
Other and unclassified	2 211	1 83	1 27
Other agricultural commodities  Beans, edible	6	4	3
Coffee	32		
Molasses	30		
Sugar  Petroleum and petroleum products	143 360	79 25	24 10
Crude oil	357	17	
Gasoline	3		10
Liquefied gas		8	
Miscellaneous	91	$\frac{81}{3}$	59
Cement	2	2	
Marble and stone			1
Oil, fish	11	3 31	1 24
Oil, vegetable  Paper and paper products	8	7	7
Textiles	1	1	
Container cargo	51	26 8	15 10
All other and unclassified  Total	860	328	226
WEST COAST SOUTH AMERICA TO CRISTOBAL, R.P.: Canned and refrigerated foods, miscellaneous		1	
Ores and metals, miscellaneous			i
Petroleum and petroleum products		59	<u></u>
Crude oil		50	
Diesel oil		8	
Miscellaneous	12	9	6
Container cargo	10	6	5
All other and unclassified	2	3	
Total	12	69	
WEST COAST SOUTH AMERICA TO WEST INDIES:	•	•	40
Canned and refrigerated foods	27	20	42
Refrigerated foods	27	20	42

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

		Fiscal year	
WEST COAST SOUTH AMERICA TO WEST INDIES	1992	1991	1990
WEST COAST SOUTH AMERICA TO WEST INDIES— Continued			
Canned and refrigerated foods—Continued			
Refrigerated foods—Continued			
Bananas	3 15	13	35
Fruit, excluding bananas	6	6	5
Other and unclassified	3	1	2
Chemicals and petroleum chemicals, miscellaneous Lumber and products	24	38	3 75
Boards and planks	15	35	46
Plywood, veneers, composition board	2	3	3
PulpwoodOther and unclassified	7	• • • • • • •	3 23
Nitrates, phosphates and potash	<u></u>	3	28
Fishmeal			28
Fertilizers, unclassified	110	3	• • • • • • •
Ores	110	*****	•••••
Iron	76	******	******
Manganese	34		
Other agricultural commodities	19	21	14
Beans, edible	16	11 6	3 5
Sugar	3	4	6
Petroleum and petroleum products	1,433	2,693	3,797
Crude oil	792 20	1,919 45	3,316
Fuel oil, residual	561	682	453
Gasoline	11	45	28
Jet fuel	49	2	• • • • • •
Miscellaneous	16	14	27
Groceries, miscellaneous	1	1	1
Oil, vegetable  Paper and paper products	• • • • • • •	1 2	
Tallow		ĩ	
Container cargo	10	9	15
All other and unclassified	1,629	2,789	3,986
Total	1,029		
WEST COAST SOUTH AMERICA TO EUROPE:			
Canned and refrigerated foods	1,960	1,958	1,541
Canned foods	8	35	22
Fish	4	16 6	16 1
Fruit	3	11	5
Other and unclassified	1.062	1 022	1.610
Refrigerated foods	1,952	<u>1,923</u> 954	<u>1,519</u> 553
Fish	56	342	483
Fruit, excluding bananas	577	496	347
Meat Other and unclassified	1 110	131	136
Other wild unfoldstilled	110	101	150

, , ,		Fiscal year	
	1992	1991	1990
WEST COAST SOUTH AMERICA TO EUROPE— Continued			
Chemicals and petroleum chemicals	6	14	22
Chemicals, unclassified	6	14	7
Petroleum chemicals, miscellaneous		• • • • • •	15
Coal and coke (excluding petroleum coke)	18	•••••	•••••
Coke Grains	18		1
Corn	1	1	1
Lumber and products	495	620	557
Boards and planks	83	263	238
Plywood, veneers, composition board	66 311	21 143	14 190
PulpwoodOther and unclassified	35	193	115
Machinery and equipment, miscellaneous	1	1	1
Manufactures of iron and steel	1	•••••	4
Plates, sheets and coils		• • • • • • • • • • • • • • • • • • • •	4
Wire, bars and rods	29	5	
Borax		1	
Salt	29		
Soda and sodium compounds	789	4 870	1,303
Nitrates, phosphates and potash  Fishmeal	602	731	1,128
Nitrate of soda	175	132	160
Potash		6	1
Fertilizers, unclassifiedOres and metals	12 1,942	1 1,875	14 1,845
Ores	1,416	1,008	1,014
Copper	607	311	263
Iron			107
Lead	22	55	59 10
Tin	721	574	545
Other and unclassified	66	66	30
Metals	526	867	831
Copper	477 4	739 9	662 12
Iron	15	32	30
Scrap			27
Tin, including tinplate	19	72	1 96
Zinc Other and unclassified	11	11	3
Other agricultural commodities	71	151	184
Beans, edible	1	1	1
Cocoa and cacao beans	3 1	3	2
Cotton, raw	62	129	156
Cotton, raw	1	15	11
Oilseeds	2	2	10
Skins and hides	· · · · · · i	1	2
Petroleum products		31	3
Diesel oil		2	3

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

		Fiscal year	
WEST COAST SOUTH AMERICA TO EUROPE—	1992	1991	1990
Continued			
Petroleum products—Continued			
Fuel oil, residual		2	
Gasoline		22	• • • • • •
Other and unclassified		5	
Miscellaneous	843	824	81
Bricks and tile	6		
ribers, plant	• • • • • • •	3	• • • • • •
riour, wheat	1	• • • • • • •	1
Groceries, miscellaneous	9	33	• • • • • •
Liquois and wines	3	1	
Marble and stone Oil, fish			
aper and paper products	40	90	113
rextiles	30 I	91	33
Container cargo	642	531	599
All other and unclassified	111	66	57
Total	6,156	6,350	6,280
VEST COAST SOUTH AMERICA TO AFRICA:		====	=
Canned and retrigerated foods	17	20	22
Refrigerated foods	17	20	22
Bananas	3	6	
Fish		0	1
Ffull, excluding hananae	14	14	12
Lumber and products	46	48	
Boards and planks Other and unclassified	36	43	
minates, phosphates and notach	10	5	• • • • • • •
Ores and metals	57	47	4
Ores	47	47	51
Lead	6	9	45
Zinc	41	38	45
Metals	10		6
Zinc	10		6
Other agricultural commodities	• • • • • • • • • • • • • • • • • • • •	2	10
Coffee		2	10
Jet fuel	6	•••••	
Miscellaneous	6		
All other and unclassified	2	!	1
Total	2		1
	128	118	88
EST COAST SOUTH AMERICA TO ASIA (MIDDLE EAST):			
Canned and refrigerated foods			
Refrigerated foods	21	23	27
Refrigerated foods	21	23	27
Bananas Fish	16	23	24
FIUIL EXCIDING hananas	5	• • • • • • •	
refraces, phosphates and potash	32	21	3 10
Fishmeal	32	21 -	10
	52	21	10

		Fiscal year	
WEST COAST SOUTH AMERICA TO ASIA	1992	1991	1990
WEST COAST SOUTH AMERICA TO ASIA— (MIDDLE EAST)—Continued			
Miscellaneous	<u></u>		8
Paper and paper products			4
All other and unclassified	• • • • • • •	• • • • • •	4
Total	53	43	45
HAWAII TO EAST COAST UNITED STATES:			
Other agricultural commodities	29	93	209
Sugar	29	93	209
Petroleum products, miscellaneous	34	<u></u>	
Total	63	93	209
OCEANIA TO EAST COAST UNITED STATES:			
Canned and refrigerated foods	429	486	451
Canned foods, miscellaneous		1	
Refrigerated foods	429	485	451
Fish	1		
Fruit, excluding bananas	41	41	47
Meat	93 294	110 334	39 365
Chemicals and petroleum chemicals, miscellaneous	237	83	20
Coal and coke (excluding petroleum coke)	170	170	170
Coal			3
Coke	170	170	167
Manufactures of iron and steel	164	140	<u>62</u>
Plates, sheets and coils	69 54	87 53	38 24
Other and unclassified	41		
Minerals, miscellaneous	3	1	
Soda and sodium compounds	3	1	
Ores and metals	731	1,657	2,251
Ores	715	1,647	2,227
Alumina/bauxite	285	1,237	1,639
Manganese	57	67	103
Zinc	10		
Other and unclassified	363	343	483
Metals	16	<u>10</u>	24
IronLead	8	8	7
Zinc			14
Other and unclassified	8	2	3
Other agricultural commodities	<u>261</u>	378	418
Cocoa and cacao beans	131	5 234	3 266
Sugar	130	138	149
Wool, raw		1	
Petroleum products	173	116	160
Gasoline	22	116	16 128
Liquefied gasLubricating oil	64		128
Petroleum coke	87		
Miscellaneous	<u>376</u>	284	312

		Fiscal year	
CONTRACTOR OF CONTRACTOR	1992	1991	1990
OCEANIA TO EAST COAST UNITED STATES— Continued			
Miscellaneous—Continued			
Clay, fire and china			56
Oil, vegetableSlag, clinkers and dross	4		• • • • • •
Container cargo	364	276	244
All other and unclassified	8	6	12
Total	2,307	3,315	3,844
OCEANIA TO EAST COAST CANADA:	20	47	5.4
Canned and refrigerated foods	20	47	54
Meat		1	
Other and unclassified	20	46	54
Minerals, miscellaneous	• • • • • •	27	• • • • • • •
Sulfur Ores and metals	134	27 59	155
Ores	134	59	154
Alumina/bauxite	107	52	69
Chrome			3
Copper	9	• • • • • • •	65
Other and unclassified	18	7	17
Other agricultural commodities	246	307	320
Sugar	246	307	320 45
Miscellaneous	23	42	45
Total	423	481	574
		====	
OCEANIA TO EAST COAST CENTRAL AMERICA: Canned and refrigerated foods	36	17	68
Canned foods	13	13	63
Milk	9	13	63
Canned food, miscellaneous	4		
Refrigerated foods	23	$\frac{4}{3}$	5
Fruit, excluding bananas		ì	
Manufactures of iron and steel, miscellaneous		112	221
Ores and metals		113	221
Manganese ore		63	131
Ores, miscellaneous	17	50	90
Other agricultural commodities	16	*****	17
Oilseeds Petroleum products			1
Lubricating oil			1
Miscellaneous	•••••	1	4
Container cargo  All other and unclassified		·····i	3
Total	74	132	311
	===	====	
OCEANIA TO EAST COAST SOUTH AMERICA: Canned and refrigerated foods	32	28	13
Carried and retributated 10000			

		Fiscal year	
0.07.4344.70.74.07.00.407.00.407.44.44.	1992	1991	1990
OCEANIA TO EAST COAST SOUTH AMERICA— Continued			
Canned and refrigerated foods—Continued			
Canned foods	22	25	7
Milk	22	25	7
Refrigerated foods	10	3	6
Dairy products	10 5	3 19	6
Barley		19	33
Oats	5		
Ores and metals		53	815
Ores		53	815
Alumina/bauxite	• • • • • •	53	813
Other and unclassified Other agricultural commodities	• • • • • • •	• • • • • • •	53
Sugar	•••••	•••••	53
Miscellaneous		i	
Container cargo		1	
Total	37	100	913
OCEANIA TO WEST INDIES:			
Canned and refrigerated foods	94	77	36
Canned foods	24	9	7
Milk	20	9	6
Other and unclassified	4		1
Refrigerated foods	<del>70</del>	<u>68</u>	
Fish	51	28	12
Other and unclassified	5	19	16
Other agricultural commodities	16	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
Molasses Petroleum products, miscellaneous	16 35	• • • • • • •	• • • • • • •
Miscellaneous	12	13	10
Container cargo	12	13	10
Total	156	89	47
OCEANIA TO EUROPE:			
Canned and refrigerated foods	314	347	316
Canned foods		6	
Fruit		3	
Vegetables, canned		3	
Refrigerated foods	314	341	316
Bananas Dairy products	• • • • • • •	20	3
Fish	4		
Fruit, excluding bananas	267	296	290
Meat	7 36	2 23	3 20
Chemicals and petroleum chemicals, miscellaneous		93	61
Coal and coke (excluding petroleum coke)		• • • • • • •	38
Coal			38
Grains	•••••	•••••	32
Barley	• • • • • • •		32

		Fiscal year	
OCEANIA TO EUROPE—Continued	1992	1991	1990
Lumber and products		1,,,,	1990 1
Lumber and products.	30	6	9
Boards and planks		2	3
Plywood, veneers, composition board		2	2
Machinely and company micromone	30	2	4
Ores and metals		1	
Ores	27	50	57
Lead	15	21	53
Zinc	• • • • • • •	• • • • • • •	27
Other and unclassified	1.6	. 8	5
Metals	15 12	13	21
Copper	12	29	4
Leau		17	4
Other and unclassified		10	• • • • • • •
other agricultural commodities	223	184	250
Cocoa and cacao beans		104	250
Concession		• • • • • •	1
Copia and coconuts		6	1 7
1410145565	29		85
Sugar	194	178	153
Wool, raw Petroleum products			3
Asphalt	• • • • • •	1	
Asphalt Miscellaneous		1	
Clay fire and china	239	142	177
Clay, fire and china			6
Groceries, miscellaneous Oil, vegetable.	14	10	
aper and paper promiers	1		
I dillow	3	6	5
Container cargo	219	2	6
An other and unclassified	2	124	160
Total	833	924	0.40
OCEANIA TO AFRICA:	==== :	824	940
Canned and refrigered for de			
Canned and refrigerated foods	23	24	
Canned foods	4	20	
Milk	4	20	
Refrigerated foods	19	4	
Dairy products	18	2	
ruit, excluding bananas		ĩ .	
Meat	1	_ 1	
Total	23	24 .	
ASIA TO EAST COAST UNITED STATES:			
Canned and refrigerated foods	116	00	
Refrigerated foods	116	99	123
Fish -	116	99	123
Fish Other and unclassified	1 .		
Chemicals and petroleum chemicals	115	99	123
Chemicals, unclassified	<u> 265</u> _	214	147
1 CHOICUIII CHEHIICAIS MISCELLAREOUS	236	192	118
Coal and coke (excluding petroleum coke)	29 1,292	22	29
Coal		805	580
	51	8 .	• • • • • •

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

		Fiscal year	
	1992	1991	1990
ASIA TO EAST COAST UNITED STATES—Continued			
Coal and coke (excluding petroleum coke)—Continued			
Coning	1,241	797	580
Grains	33	•••••	• • • • • • • • • • • • • • • • • • • •
Rice	33 583	500	575
Lumber and products	18	13	575
Boards and planks	559	487	32 524
Other and unclassified	6	407	19
Machinery and equipment	1,177	1,305	1,378
Agricultural machinery and implements	1	3	9
Automobiles, trucks, accessories and parts	1,135	1,226	1,252
Construction machinery and equipment	22	32	86
Electrical machinery and apparatus	3	15 29	2 29
Other and unclassified	16 2,275	2,392	2,522
Angles, shapes and sections	75	94	63
Nails, tacks and spikes	34	25	48
Plates, sheets and coils	1,101	1,006	1,212
Tubes, pipes and fittings	248	271	285
Wire, bars and rods	160	133	121
Other and unclassified	657 1	863	793
	1	$\frac{1}{1}$	• • • • • • • • • • • • • • • • • • • •
Soda and sodium compounds  Nitrates, phosphates and potash	25	1	• • • • • •
Phosphates	25	••••	•••••
Ores and metals	1,219	1,639	1,650
Ores	1,195	1,612	1,621
Alumina/bauxite	306	275	454
Chrome	22	12	28
Copper	98		
Manganese	35	35	12
Other and unclassified	734	1,290	1,127
Metals	24	27	
Aluminum	5	4 10	11
Copper	3	2	8
Other and unclassified	16	11	7
Other agricultural commodities	170	289	247
Beans, edible			1
Cocoa and cacao beans	23	5	1
Coffee		• • • • • • •	1
Oilseeds	1 44	34	46
Sugar	102	250	198
Petroleum products	595	244	161
Asphalt	4		
Fuel oil, residual	478	53	
Gasoline	43	19	55
Liquefied gas	28	6	
Lubricating oil Petroleum coke	9 29	16 120	22 84
Other and unclassified	4	30	0-
Miscellaneous	5,107	5,058	5,132

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

		Fiscal year	
ASIA TO EAST COAST UNITED STATES—Continued	1992	1991	1990
Miscellaneous—Continued			
Bricks and tile	2	2	3
Clay, fire and china		1	
Glass and glassware	6	2	* * * * * * *
Oil, coconut	16	44	60
Oil, fish Oil, vegetable	6 72	47	92
Rubber, manufactured			6
Slag, clinkers and dross	12	3	
Container cargo	5 4,828	4,831	4,871
All other and unclassified	160	125	98
Total	12,858	12,546	12,515
ASIA TO EAST COAST CANADA:			
Canned and refrigerated foods	3	4	4
Refrigerated foods	3	4	4
Fish	1	1	
Other and unclassified	2	3	4
Coal and coke (excluding petroleum coke)		9	<u></u>
Coal	• • • • • • • •	9	
Machinery and equipment	******	12	5
Electrical machinery and apparatus		1	1
Other and unclassified		3	1
Manufactures of iron and steel	$-\frac{13}{2}$	11	******
Plates, sheets and coils	7	1	
Wires, bars and rods Other and unclassified	4		
Ores and metals	221	10 199	209
Ores	189	199	209
Alumina/bauxite	48	46	45
Chrome	6 65	7 10	13 10
Other and unclassified	70	136	141
Metals	32		
Miscellaneous	32 174	206	373
Oil, vegetable		306	1
Container cargo	158	305	369
All other and unclassified	16	1	3
Total	411	541	593
ASIA TO EAST COAST CENTRAL AMERICA:			
Chemicals and petroleum chemicals	117	60	4
Chemicals unclassified	114	59 1	1 3
Coal and coke (excluding petroleum coke)			15
Coal			15
Grains	67	28	15

		Fiscal year	
	1992	1991	1990
ASIA TO EAST COAST CENTRAL AMERICA—			
Continued Grains—Continued			
Rice	67	20	16
Machinery and equipment, miscellaneous	67	28	15
Manufactures of iron and steel	i		i
Plates, sheets and coils			1
Tubes, pipes and fittings	1		
Ores and metals	8	98	• • • • • • •
Ores	8	98	
Alumina/bauxite	8	20	
Other and unclassified	20	78	40
	29	30	40
Clay, fire and chinaOil, coconut	1	4 2	9
Oil vegetable	22	17	22
Wax, paraffin		i	5
Container cargo	6	4	3
All other and unclassified	• • • • • • •	2	l
Total	222	216	74
ASIA TO EAST COAST SOUTH AMERICA:	_		
Canned and refrigerated foods		2	1
Refrigerated foods	1	2	<u> </u>
Fish		1	
Other and unclassified	1 2	1	1 2
Chemicals, miscellaneous		$\frac{2}{2}$	$\frac{2}{2}$
Petroleum chemicals, miscellaneous	i		2
Coal and coke (excluding petroleum coke)	i		
Coke	1		
Grains	33		
Rice	33		
Machinery and equipment	56	33	17
Agricultural machinery and implements	1		1
Automobiles, trucks, accessories and parts  Construction machinery and equipment	42	22	8 2
Electrical machinery and apparatus	4	5	3
Motorcycles, bicycles and parts	2	2	3 2
Other and unclassified	4	1	1
Manufactures of iron and steel	35	43	49
Angles, shapes and sections			1
Plates, sheets and coils	12 18	8 25	12 24
Wires, bars and rods	1	3	2
Other and unclassified	4	7	10
Nitrates, phosphates and potash		• • • • • • •	1
Fertilizers, unclassified			1
Ores and metals	108	117	48
Ores	107	116	45
Alumina/bauxite	15	23	20
Manganese Other and unclassified	4 88	7 86	3 22
	00	00	22

		Fiscal year	
ASIA TO EAST COAST SOUTH AMERICA	1992	1991	1990
Continued			
Ores and metals—Continued			
Metals	1	1	3
Tin, including tinplate Other and unclassified	1	i	1 2
Miscellaneous	219	187	104
Carbon black	1		1
Clay, fire and chinaOil, vegetable	1 18	6	3
Resin	l	ì	
Rubber, manufactured	2	1	2
Textiles	11		1
Container cargo	116	123	74
All other and unclassified	69	56	23
Total	455	384	221
ASIA TO CRISTOBAL, R.P.:			
Lumber and products, miscellaneous		1	1
Machinery and equipment  Automobiles, trucks, accessories and parts		2	•••••
Electrical machinery and apparatus	i		
Manufactures of iron and steel	22	24	13
Angles, shapes and sectionsPlates, sheets and coils	5 11	15	9
Tubes, pipes and fittings		3	2
Wire, bars and rods		1	2
Other and unclassified	6	5 2	·····i
Metals	1	2	1
lron		1	
Tin, including tinplate	140	255	200
Miscellaneous	449	355	300
Container cargo	427	345	286
All other and unclassified	22	10	13
Total	474	384	317
ASIA TO WEST INDIES:			
Canned and refrigerated foods	22	37	47
Canned foods	15	19	16
Fish Fruit	• • • • • • • •	4	3
Other and unclassified	15	14	13
Refrigerated foods	7	18	31
Fish	2	14	25
Other and unclassified	5	1	3
Chemicals and petroleum chemicals	14	4	18
Caustic soda Chemical, unclassified	13 1	1 2	18
Petroleum chemicals, miscellaneous		1	
Coal and coke (excluding petroleum coke)	5		

		Fiscal year	
ACIA TO WEST INDIES Continued	1992	1991	1990
ASIA TO WEST INDIES—Continued  Coal and coke (excluding petroleum coke)—Continued			
Coal	5		11
Grains.	5 293	271	337
Corn	3	2	3
Rice	271 19	224 39	230 90
Other and unclassified		6	14
Lumber and products	14	83	225
Boards and planksPlywood, veneers, composition board	6 1	81	213
Pulpwood	7		3
Other and unclassified	150	122	5
Machinery and equipment	152	133	119
Automobiles, trucks, accessories and parts	126	104	105
Construction machinery and equipment	3	3	5
Electrical machinery and apparatus	1 21	21	4
Other and unclassified		1	3
Manufactures of iron and steel	19	24	$\frac{-62}{1}$
Angles, shapes and sections		2	2
Plates, sheets and coils	6	10	27
Tubes, pipes and fittings	5	6 2	18 14
Other and unclassified	8	3	
Minerals, miscellaneous	• • • • • • • • • • • • • • • • • • • •	2	2
BoraxSoda and sodium compounds		2	1
Nitrates, phosphates and potash	1		5
Ammonium compounds	;		2
Fertilizers, unclassified Ores and metals	5	8	3 13
Ores, miscellaneous	3	7	8
Metals	2	2	5
Lead Tin, including tinplate	······i	1	4
Zinc	i		
Other and unclassified		••••••	1
Other agricultural commodities	<u>58</u>	38	<del>89</del> 36
Beans, edible		1	1
Oilseeds			51
Rubber, raw	21	2 19	
Gasoline	21	19	
Miscellaneous	333	310	360
Bricks and tile	2 1	1 7	4
Cement	i	í	3
Clay, fire and china	5	1 2	6
Fibers, plant	4	2	5

		Fiscal year	
ASIA TO WEST INDIES—Continued	1992	1991	1990
Miscellaneous—Continued			
Groceries, miscellaneous	2	5	1
Oil, vegetablePaper and paper products	32	20 5	9
Porcelainware		1	17 1
Rubber, manufactured	3	4	8
Seeds, excluding oilseeds		15	
Textiles	2	5	2
Wax, paraffin Container cargo	1 190	1 185	1 212
All other and unclassified	90	55	87
Total	937	938	1,288
ASIA TO EUROPE:			
Canned and refrigerated foods	31	9	5
Refrigerated foods	31	9	5
Fish	28	6	5
Other and unclassified	3	3	
Chemicals and petroleum chemicals	63	78	72
Caustic soda Chemicals, unclassified	47	1 65	40
Petroleum chemicals, miscellaneous	16	12	49 23
Coal and coke (excluding petroleum coke)	21		52
Coal			52
Coke	21		
Machinery and equipment	19	23	27
Agricultural machinery and implements Automobiles, trucks, accessories and parts			3
Construction machinery and equipment	16 3	16	14 7
Other and unclassified		i	3
Manufactures of iron and steel	50	60	
Plates, sheets and coils		8	
Tubes, pipes and fittings	50	28	
Wire, bars and rods Other and unclassified	• • • • • • •	4 20	• • • • • • •
Other agricultural commodities	6		
Copra and coconuts	6		
Ores and metals		21	18
Ores		16	18
Iron			4
Other and unclassified		16	14
Metals	• • • • • • •	5	*****
Copper Other and unclassified	• • • • • • •	3 2	• • • • • • •
Petroleum products		5	
Fuel oil, residual		1	
Liquefied gas		Ī	
Lubricating oil		3	
Other and unclassified	1 155	194	170
Oil, coconut	133	194	<u>170</u>
Oil, fish	26	24	54
Oil, vegetable	2	• • • • • • •	1

	riscal year		
	1992	1991	1990
ASIA TO EUROPE—Continued			
Miscellaneous—Continued			
Seeds, excluding oilseeds			8
Wax, paraffin	15		
Container cargo	102	163	97
	10	7	9
Total	346	390	343
10001			

#### Table 12.—Principal Canal Commodities by Direction—Fiscal Year 1992

[Long tons]

	Atlantic	Pacific	
Commodity	to Pacific	to Atlantic	Total
Ammonium compounds	647,739	18,725	666,464
Asbestos	11,943	3,108	15,051
Asphalt	108,085	10,123	118,208
Automobiles, trucks, and accessories	277,304	1,323,197	1,600,501
Bananas	8,092	2,144,629	2,152,721
Barley	90,764	112,073	202,837
Beans, edible	10,453	105,501	115,954
Benzene	72,002	22,834	94,836
Borax	652	367,552	368,204
Bricks and tile	25,925	10,943	36,868
Carbon block	33,349	123,995	157,344
Carbon black	112,882	2,004	114,886
Cement	733,538 317,553	96,092	829,630
Chemicals, petroleum various	1,087,056	1,959 134,232	319,512
Chemicals, various	4,277,070	1,191,822	1,221,288 5,468,892
Clay, fire and china	724,352	16,355	740,707
Coal and coke (excluding petroleum coke)	4,424,136	4,483,890	8,908,026
Cocoa and cacao beans	2,034	38,364	40,398
Coffee	5,856	280,783	286,639
Coke, petroleum	894,752	2,610,460	3,505,212
Container cargo	12,039,493	9,836,807	21,876,300
Copra and coconuts		6,895	6,895
Corn	14,328,763	28,803	14,357,566
Cotton, raw	40,570	77,044	117,614
Fertilizers, various	2,573,269	38,512	2,611,781
Fibers, plant	2,150	6,061	8,211
Fishmeal		657,792	657,792
Flour, wheat	272,132	59,222	331,354
Gasoline	1,640,209	660,859	2,301,068
Glass and glassware	7,753	4,072	11,825
Grains, various	501,060	97,931	598,991
Groceries, various	45,733	41,881	87,614
Infusorial earth	6	120	126
Jet fuel	1,031,022	52,587	1,083,609
Kerosene	33,384	115,042	148,426
Liquefied gas	1,085,195	155,019	1,240,214
Lumber and products (excluding pulpwood)	2,424 3,144,975	22,485 2,949,210	24,909
Machinery, agricultural	27,270	3,603	6,094,185
Machinery, construction	98,572	35,281	133,853
Machinery, electrical	22,342	8,608	30,950
Machinery, various	91,241	46,291	137,532
Manufactures of iron and steel	3,854,205	2,817,198	6,671,403
Marble and stone	126,846	802	127,648
Metal, aluminum	464,750	9,221	473,971
Metal, copper	6,733	703,934	710,667
Metal, iron	242,972	43,414	286,386
Metal, lead	2,466	66,399	68,865
Metal, zinc	4,273	164,990	169,263
Metal, scrap	1,423,872	2,195	1,426,067
Metals, various (including tinplate)	58,605	78,888	137,493
Molasses	12,185	647,068	659,253
Nitrate of soda	58,400	387,720	446,120
Oil coconut	36,669	6,735	43,404
Oil, coconut	1,459	17,371	18,830
Oil, crude	4,346,349	3,936,327	8,282,676
Oil, diesel	1,300,167 483	538,409 115,046	1,838,576 115,529
···, ···· · · · · · · · · · · · · · · ·	403	113,040	113,329

#### Table 12.—Principal Canal Commodities by Direction—Fiscal Year 1992— Continued

[Long tons]

	Atlantic	Pacific	
Commodity	to Pacific	to Atlantic	Total
Oil, lubricating	566,335	212,511	778,846
Oil, residual fuel	2,054,696	3,287,059	5,341,755
Oil, vegetable	201,937	214,052	415,989
Oil, whale		4,457	4,457
Oilseeds	236,138	61,089	297,227
Ore, alumina/bauxite	158,756	769,140	927,896
Ore, chrome	61,630 28,407	28,028 1,036,602	89,658 1,065,009
Ore, copper	119,869	406,706	526,575
Ore, lead	5,200	182,256	187,456
Ore, manganese	140,329	130,426	270,755
Ore, tin	1,652	1,687	3,339
Ore, zinc	34,134	1,158,891	1,193,025
Ores, various	188,187	1,832,967	2,021,154
Paper and paper products	1,077,733	494,391	1,572,124
Peas, dry	3,002	53,454	56,456
Petroleum and products, various	312,958	247,312	560,270
Phosphates	8,354,058	227,215	8,581,273
Porcelainware	10,007 826,604	496 2,248	10,503 828,852
Potash	1,517,764	2,272,333	3,790,097
Refrigerated food products (excluding	1,517,704	2,212,333	3,790,097
bananas)	764,804	2,749,849	3,514,653
Resin	87,290	1,225	88,515
Rice	137,743	579,936	717,679
Rubber, manufactured	7,194	5,297	12,491
Rubber, raw	6,929	44,371	51,300
Salt	35,972	830,129	866,101
Seeds, excluding oilseeds	71,179	19,898	91,077
Skins and hides	736	120	856
Slag, clinkers, and dross	52,141	11,810	63,951
Soda and sodium compounds	31,393	601,504	632,897 1,946,648
Sorghum	1,946,648 7,207,461	20,020	7,227,481
SoybeansSugar	1,449,647	1,885,254	3,334,901
Sulfur	7,605	2,596,076	2,603,681
Tallow	117,047	31,547	148,594
Textiles	8,206	6,933	15,139
Tobacco and manufactures	211	484	695
Toluene	157,301	937	158,238
Wax, paraffin	10,832	32,431	43,263
Wheat	5,434,844	2,188,512	7,623,356
Wool, raw	261	1,465	1,726
All other	617,397	657,246	1,274,643
Total	96,845,771	62,426,847	<u>159,272,618</u>

#### Other Statistics

Table 13.—Water Supply and Usage

		Percent of usage		
	Fiscal	Fiscal year		
	1992	1991	1992	1991
MADDEN AND GATUN LAKE WATER SUPPLY:	(000's of	Acre-Jeet)		
Total runoff, Madden Lake Basin	2,033	1,788		
Evaporation from Madden Lake	35	38		
Available for Madden Lake usage	1,998	1,750		
Municipal water use Madden Lake	<u>—122</u>	-120		
Available for downstream usage	1,876	1,630		
Total runoff, Gatun Lake (area below Madden)	2,449	2,401		
Subtotal	4,325	4,031		
Evaporation from Gatun Lake	<b>—387</b>	-418		
Available for Gatun Lake watershed usage	3,938	3,613		
	5,550	5,015		
MADDEN LAKE WATER USAGE:				
Hydroelectric power	1,728	1,558	91	89
Leakage	15	14	1	1
Spillway discharge Municipal	44	52	2	3
	122	_120	_6	
Total Madden Lake usage	1,909	1,744	100	100
GATUN LAKE WATER USAGE:				
Hydroelectric power	1,336	000	26	27
Lockages, Gatun and Pedro Miguel	2,082	988 2,123	36 57	27 58
withicipal and other usages	107	112	3	3
Spillway discharge	154	429	4	12
Total Gatun Lake usage	3,679	3,652	100	100
•	=,	=,552	===	==

#### Table 14.—Dredging Operations—Fiscal Year 1992

(Cubic yards)			
D 10 D1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Earth	Rock	Total
Pacific District (Auxiliary)	514,619	N/A	514,619
racine Littrance (wideling)	2,138,465	N/A	2,138,465
Grand Total	2,653,084		2,653,084

#### Table 15.-Electrical Power Generated

(Gigawatt hours)

	Fiscal year	
	1992	1991
Generation: Gatun hydro station Madden hydro station Thermal generating stations	86 206 357	86 185 333
Gross generated by Panama Canal Commission  Less station service usage  Net total generated by Panama Canal Commission	649 (16) 633	581 (14) 567
Power Purchases: Through interconnections from Panama	3	3
Net Energy received for Wheeling	6	5
Power Sales: Through interconnections to Panama	(104)	(42)
Net power generated and purchased for Canal area only	538	533
Other power generated by military for own use	538	533
Power distributed to Commission's customers Transmission and Distribution losses Peak load (thousands of kilowatts) Date of peak load Canal area load factor <sup>2</sup>	511 27 85.5 April 8 72%	510 23 85.1 June 12 72%

One gigawatt hour equal to 1 million kilowatt hours.

#### Table 16.-Fire Division Statistics

Table 10 The Division Statistics				
	Fiscal	Year 1992	Fiscal	Year 1991
	Num- ber of fires	Property loss	Num- ber of fires	Property loss
Panama Canal Commission <sup>1</sup> Armed Forces <sup>2</sup> Private (including ships) <sup>3</sup> Republic of Panama <sup>4</sup>	41 211 173 <u>62</u>	\$ 48,219 79,377 10,297 	70 215 81 85	\$ 17,654 613,687 8,570,239 4,050
Total	487	\$138,093	451	\$9,205,630
			FY 199	02 FY 1991
Total calls minus fires 5			7,22	0 6,068
Total number of calls (all types) responded to.			7,70	7 6,519

<sup>&</sup>lt;sup>1</sup> Figure includes \$35,000.00 fire loss of feeder switch cubicle # 714, Miraflores Power Plant.

<sup>&</sup>lt;sup>2</sup> Total Canal area requirements divided by number of hours per year times peak load.

<sup>&</sup>lt;sup>2</sup> This amount includes the \$18,000 fire loss at Bldg. 662, Howard and the \$14,900.00 fire loss at Quarters 46. Howard.

<sup>&</sup>lt;sup>3</sup> Figure does not include the fire loss of MV "Ocean Sky." Data was unobtainable from vessel's agents.

<sup>&</sup>lt;sup>4</sup> Responses made to areas reverted to the Republic of Panama but responded by Commission forces, such as grass fires, railroad fires, etc. . .

<sup>5</sup> Includes responses to all types of emergencies (ambulances and fire apparatuses).



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