



U.S. Department of Transportation
Maritime Administration

Vessel Calls at U.S. Ports

2003



**Vessel Calls at U.S. Ports
2003**

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Preface

The following report contains data on calls by oceangoing vessels of 10,000 DWT or greater at U.S. ports. The calls are presented in terms of vessels and vessel capacity (calls weighted by vessel deadweights (DWT)). For containerships, capacity is also expressed in terms of twenty-foot equivalent units (TEU).

After the Highlights section, there are seven summary tables. The first three summary tables contain time series (1999-2003) for calls and capacity by vessel type and flag (U.S. and Foreign). The next two summary tables contain time series for calls and capacity by vessel type and coastal regions. A list of U.S. ports that appear in the data and their associated coastal regions are shown on pages ix and x. The last two summary tables contain 2003 calls and capacity for the top 20 ports by vessel type. This report and additional data on calls and capacity for all U.S. ports are available at www.marad.dot.gov/marad_statistics.

Comments and recommendations as to the content and format of the report can be made at www.data.marad@marad.dot.gov. In addition, to learn more about the Maritime Administration or the Maritime industry visit the agency's website at www.marad.dot.gov.

Notes and Sources

Vessel Types

The vessel categories included in this report are:

Tanker: Petroleum Tankers, Chemical Tankers.

Product: 10,000 - 69,999 DWT.
Crude: >=70,000 DWT.

Container: Full Containerships, Refrigerated Container Carriers.

Dry Bulk: Bulk Vessels, Bulk Containerships, Cement Carriers, Ore Carriers, Wood-Chip Carriers.

Ro-Ro: Ro-Ro Vessels, Ro-Ro Containerships, Vehicle Carriers.

Gas Carrier: LNG Carriers, LNG/LPG Carriers, LPG Carriers.

Combination: Ore/Bulk/Oil Carriers, Bulk/Oil Carriers.

General Cargo: General Cargo Carriers, Partial Containerships, Refrigerated Ships, Barge Carriers, Livestock Carriers.

Capacity

Throughout the report, capacity is the sum of vessel calls weighted by vessel DWT. For example, in the following illustration for three vessels calling at port X, the capacity calling at that port would be 880,000 DWT capacity:

	Calls	DWT	Calls x DWT
Vessel A	10	25,000	250,000
Vessel B	15	30,000	450,000
Vessel C	12	15,000	180,000
Total	37		880,000

Similarly, for containership TEU capacities, it would be calls x vessel TEU capacity. A TEU is a nominal unit of measure equivalent to a 20' x 8' x 8' shipping container. TEU figures are shown in red italics throughout the report.

Growth Rates/Percents

Throughout the report, textual (but not table) references to percents and growth rates are rounded to whole numbers, e.g., 31 percent instead of 30.6 percent. Growth rates are calculated as $(\text{calls}_{2003} - \text{calls}_{1999}) \times 100 / \text{calls}_{1999}$, and similarly for capacity and vessel size. For capacity, growth rates are calculated using whole numbers.

Size Threshold

The report includes only oceangoing self-propelled vessels of 10,000 DWT or greater. In 2003, these vessels accounted for about 98 percent of the vessel capacity calling at U.S. ports.

Port Groupings

Starting with year 2000 source data, Columbia River ports, L.A./Long Beach, Philadelphia/Delaware River ports, New Orleans Ports, San Francisco Bay ports, and Virginia ports were reported on an individual basis. However, for historical consistency, year 2000-2003 calls at these ports are presented as totals for the respective groups. The following are the groupings:

Columbia River Ports: Astoria, Kalama, Longview, Portland, Rainier, Vancouver, Willbridge.

L.A./Long Beach: Los Angeles, Long Beach.

New Orleans Ports: Ama, Arabi, Avondale, Baton Rouge, Belle Chasse, Boothville, Braithwaite, Burnside, Chalmette, Convent, Darrow, Davant, Destrehan, Donaldsonville, Empire, Garyville, Geismar, Good Hope, Gramercy, Gretna, Harvey, La Place, Magnolia, Marrero, Meraux, Michoud, Myrtle Grove, New Orleans, Norco, Ostrica, Paulina, Pilottown, Plaquemine, Port Allen, Reserve, St. Bernard, St. James, St. Rose, Sunshine, Taft, Violet, Waggaman, Westwego.

Notes and Sources

Port Groupings - Cont.

Philadelphia/Delaware River Ports:

Burlington, NJ; Camden, NJ; Claymont, DE; Chester, PA; Delair, NJ; Delaware City, DE; Eddystone, PA; Fairless Hills, PA; Gloucester, NJ; Marcus Hook, PA; Paulsboro, NJ; Philadelphia, PA; Reedy Point, DE; Salem, NJ; Tullytown, PA; Westville, NJ; Wilmington, DE.

San Francisco Bay: Alameda, Antioch, Benicia, Concord, Crockett, Martinez, Oakland, Pittsburg, Redwood City, Richmond, Rodeo, Sacramento, San Francisco, Selby, Stockton.

Virginia Ports: Chesapeake, Hampton Roads, Hopewell, Lynnhaven Roads, Newport News, Norfolk, Portsmouth, Richmond, Yorktown.

Coastal Regions

North Atlantic: All ports from Eastport, ME to Baltimore MD.

South Atlantic: All ports from Alexandria, VA to Miami, FL.

Puerto Rico

U.S. Gulf: All ports from Key West, FL to Brownsville, TX.

Pacific Northwest: All U.S. ports from Barrow, AK to Coos Bay, OR.

Pacific Southwest: All ports from Crockett, CA to San Diego, CA and all Hawaiian ports.

Sources

The port call and vessel data in this report are from Lloyd's Maritime Intelligence Unit (see below). The other sources provided information on related trends, e.g., U.S. oil imports.

Clarkson Research Studies, Shipping Review & Outlook, spring 2004, London: Clarkson Research Studies, Spring 2003. This source contains data for world seaborne trade.

Energy Information Agency, Quarterly Coal Report, 1st Quarter 2004, Wash., DC: U.S. Department of Energy, June 2004. This source contains data on U.S. coal production and exports.

Energy Information Agency, Petroleum Supply Annual, 2003, Wash., DC: U.S. Department of Energy, June 2004. This source contains data on U.S. petroleum production and exports.

Lloyd's Maritime Intelligence Unit, Vessel Movements Data Files, 1999 - 2003, London: Lloyd's Maritime Intelligence Unit, 1999-2003. This source contains data for vessel port calls, ports and active fleets.

MDS Transmodal, Containership Databank on Disk, Chester, England: MDS Transmodal, February 2004. This source contains data on the global containership fleet, deployments, itineraries and joint services.

U.S. Maritime Administration, U.S. Foreign Waterborne Trade Data Banks, 1999-2003, Wash., DC: U.S. Maritime Administration, 1998-2003. This source contains detailed data for U.S. foreign waterborne trade.

U.S. Army Corps, Waterborne Commerce of the United States, detail files, 1999 - 2003, New Orleans: Waterborne Commerce Statistics Center, 1998-2003. This source contains detailed data for U.S. domestic waterborne trade.

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Ports And Coastal Regions

Port	Coastal Region	Port	Coastal Region
Akognak, AK	Pacific Northwest	LOOP Terminal, LA	U.S. Gulf
Albany, NY	North Atlantic	Manchester, WA	Pacific Northwest
Anacortes, WA	Pacific Northwest	March Point, WA	Pacific Northwest
Anchorage, AK	Pacific Northwest	Mayaguez, PR	Puerto Rico
Annapolis Anch., MD	North Atlantic	Miami, FL	South Atlantic
Baltimore, MD	North Atlantic	Mobile, AL	U.S. Gulf
Barbers Point, HI	Pacific Southwest	Montauk, NY	North Atlantic
Beaumont, TX	U.S. Gulf	Lightering Area	North Atlantic
Bellingham, WA	Pacific Northwest	Morehead City, NC	South Atlantic
Boston, MA	North Atlantic	Nawiliwili, HI	Pacific Southwest
Brayton Point, RI	North Atlantic	New Haven, CT	North Atlantic
Bremerton, WA	Pacific Northwest	New London, CT	North Atlantic
Bridgeport, CT	North Atlantic	New Orleans, LA	U.S. Gulf
Brownsville, TX	U.S. Gulf	New York, NY	North Atlantic
Brunswick, GA	South Atlantic	Nikiski, AK	Pacific Northwest
Buchanan, NY	North Atlantic	Northport, NY	North Atlantic
Bucksport, ME	North Atlantic	Northville, NY	North Atlantic
Camden, ME	North Atlantic	Olympia, WA	Pacific Northwest
Cantrel Field, LA	U.S. Gulf	Palm Beach, FL	South Atlantic
Ceiba, PR	Puerto Rico	Panama City, FL	U.S. Gulf
Cementon, NY	North Atlantic	Pascagoula, MS	U.S. Gulf
Charleston, SC	South Atlantic	Lightering Area, MS	U.S. Gulf
Cherry Point, WA	Pacific Northwest	Pensacola, FL	U.S. Gulf
Claymont, DE	North Atlantic	Philadelphia, PA	North Atlantic
Columbia River Ports, OR	Pacific Northwest	Piney Point, MD	North Atlantic
Coos Bay, OR	Pacific Northwest	Point Comfort, TX	U.S. Gulf
Corpus Christi, TX	U.S. Gulf	Point Wells, WA	Pacific Northwest
Lightering Area, TX	U.S. Gulf	Ponce, PR	Puerto Rico
Cove Point, MD	North Atlantic	Port Angeles, WA	Pacific Northwest
Davisville, RI	North Atlantic	Port Arthur, TX	U.S. Gulf
Drift River Terminal, AK	Pacific Northwest	Port Canaveral, FL	South Atlantic
Dutch Harbor, AK	Pacific Northwest	Port Everglades, FL	South Atlantic
Eastport, ME	North Atlantic	Port Hueneme, CA	Pacific Southwest
Edmonds, WA	Pacific Northwest	Port Manatee, FL	U.S. Gulf
El Segundo, CA	Pacific Southwest	Port Royal, SC	South Atlantic
Everett, WA	Pacific Northwest	Port Townsend, WA	Pacific Northwest
Fall River, MA	North Atlantic	Portland, ME	North Atlantic
Fernandina, FL	South Atlantic	Portsmouth, NH	North Atlantic
Ferndale, WA	Pacific Northwest	Providence, RI	North Atlantic
Fort Lauderdale, FL	South Atlantic	Ravena, NY	North Atlantic
Freeport, TX	U.S. Gulf	Roseton, NY	North Atlantic
Lightering Area, TX	U.S. Gulf	S. Sabine Light. Area, TX	U.S. Gulf
Galveston, TX	U.S. Gulf	S. Calif. Light. Area, CA	Pacific Southwest
Lightering Area, TX	U.S. Gulf	Sabine, TX	U.S. Gulf
Georgetown, SC	South Atlantic	Salem, MA	North Atlantic
Groton, CT	North Atlantic	San Diego, CA	Pacific Southwest
Guayama, PR	Puerto Rico	San Francisco, CA	Pacific Southwest
Guayanilla, PR	Puerto Rico	San Juan, PR	Puerto Rico
Gulfport, MS	U.S. Gulf	Sandwich, MA	North Atlantic
Hilo, HI	Pacific Southwest	Sandy Point, ME	North Atlantic
Homer, AK	Pacific Northwest	Savannah, GA	South Atlantic
Honolulu, HI	Pacific Southwest	Searsport, ME	North Atlantic
Houston, TX	U.S. Gulf	Seattle, WA	Pacific Northwest
Hydaburg, AK	Pacific Northwest	Skagway, AK	Pacific Northwest
Ingleside, TX	U.S. Gulf	Somerset, MA	North Atlantic
Jacksonville, FL	South Atlantic	Stony Point, NY	North Atlantic
Juneau, AK	Pacific Northwest	Tacoma, WA	Pacific Northwest
Kahului, HI	Pacific Southwest	Tampa, FL	U.S. Gulf
Kake, AK	Pacific Northwest	Texas City, TX	U.S. Gulf
Kawaihae, HI	Pacific Southwest	Valdez, AK	Pacific Northwest
Kenai, AK	Pacific Northwest	Virginia Ports, VA	South Atlantic
Ketchikan, AK	Pacific Northwest	West Palm Beach, FL	South Atlantic
Key West, FL	U.S. Gulf	Westport, WA	Pacific Northwest
Kivalina, AK	Pacific Northwest	Wilmington, CA	Pacific Southwest
Kodiak, AK	Pacific Northwest	Wilmington, NC	South Atlantic
L.A./Long Beach, CA	Pacific Southwest	Yabucoa, PR	Puerto Rico
Las Mareas, PR	Puerto Rico		

Highlights

Calls

In 2003, vessel calls at U.S. ports accounted for 10 percent of vessel calls at world ports (Table H-1). The U.S. calls were made by 6,157 vessels, or forty-four percent of the active world fleet (Table H-2). Of the 56,759 U.S. calls, 33 percent were by tankers, 30 percent were by containerships, 18 percent were by dry bulk carriers and 9 percent were by ro-ro vessels.

Tanker. From 1999 to 2003, tanker calls at U.S. ports increased by 7 percent. Over the same period calls by foreign-flag tankers engaged in U.S. import trades increased by 12 percent, reflecting the substitution of imports for domestic shipments (Tables S-1 - S-3). In 2003, foreign-flag vessels accounted for 80 percent of tanker calls at U.S. ports, up from 76 percent four years earlier. Over this period, petroleum imports increased by 13 percent (5 billion barrels) while domestic production fell by 4 percent (103 million barrels).

In 2003, 64 percent (11,903) of the tanker calls at U.S. ports were by double hull tankers, up from 40 percent (6,942) four years earlier (Table H-3). Of these, 6,576 were by tankers smaller than 70,000 DWT, which carry primarily petroleum products, and 5,327 were by tankers 70,000 DWT or greater. For the period 1999 to 2003, double-hull tanker calls increased by 71 percent while single-hull tanker calls declined by 36 percent (See Tables S-2 and S-3 for double-hull calls by flag).

Container. Over the last four years, containership calls at U.S. ports increased by 4 percent. Over the same period, the number of containerships calling at U.S. ports increased by 20 percent to 1,025, but, as larger containerships entered U.S. trades, average calls per containership fell (See Table S-1 for changes in vessel size).

Dry Bulk. A 26 percent decline in U.S. coal exports contributed to the 14 percent decline in dry bulk vessel calls at U.S. ports since 1999. The primary impact was on South Atlantic ports, which had a 38 percent decline in dry bulk vessel calls (Table S-4).

Ro-Ro/Vehicle. Ro/ro calls at U.S. (discharge) ports declined over the last 2 years as carriers increased calls at foreign load ports and reduced calls at discharge ports (See Table S-1 for 2001/2003 decline).

Vessel Calls at U.S. and World Ports
by Vessel Type, 2003

Vessel Type	U.S. Ports		World Ports	
	Calls	%	Calls	%
Tanker	18,503	32.5	124,154	21.5
Double-Hull	11,903	20.9	72,554	12.6
Container	17,287	30.1	211,530	36.7
Dry Bulk	10,271	18.1	122,995	21.3
Ro-Ro	5,191	9.1	47,760	8.3
Vehicle	3,113	5.5	22,936	4.0
Gas Carrier	926	1.6	12,473	2.2
Combination	666	1.2	3,129	0.5
General Cargo	3,915	6.9	54,865	9.5
All Types	56,759	100.0	576,906	100.0

Table H-1

Active Fleets (Vessels) that Called At
U.S. Ports and World Ports, 2003

Vessel Type	U.S. Call	World Call	% U.S. Call
Tanker	1,544	3,572	43.2
Double-Hull	1,001	1,909	52.4
Container	1,025	2,482	41.3
Dry Bulk	2,403	5,183	46.4
Ro-Ro	461	710	64.9
Vehicle	305	373	81.8
Gas Carrier	142	406	35.0
Combination	90	126	71.4
General Cargo	492	1,522	32.3
All Types	6,157	14,001	44.0

Table H-2

Vessel Calls at U.S. Ports by Vessel
Type, 1999 and 2003

Vessel Type	1999	2003	% Ch. 99-03
Tanker	17,279	18,503	7.1
Double-Hull	6,942	11,903	71.5
Product	10,875	10,998	1.1
Double-Hull	3,996	6,576	64.6
Crude	6,404	7,505	17.2
Double-Hull	2,946	5,327	80.8
Container	16,625	17,287	4.0
Dry Bulk	11,946	10,271	-14.0
Ro-Ro	5,073	5,191	2.3
Vehicle	3,072	3,113	1.3
Gas Carrier	683	926	35.6
Combination	767	666	-13.2
General Cargo	4,354	3,915	-10.1
All Types	56,727	56,759	0.1

Table H-3

Highlights

Capacity

Vessel capacity calling at U.S. ports (calls x vessel DWT) increased by 10 percent from 1999 to 2003 (Table H-4). Over this period the number of calls increased by only 0.1 percent, but average vessel size (per call) increased by 10 percent (Table S-1). Average vessel size increased for all vessel types with the largest increases for gas carriers (20 percent) and containerships (18 percent).

In terms of TEU's, the average size of containerships (per call) increased by 23 percent, and containership capacity calling at U.S. ports increased by 29 percent (Table S-1). The TEU/DWT ratio tends to be larger for newer containerships in U.S. trades.

Call Frequency

Seventy-one percent of the vessels that called in U.S. ports made fewer than 10 U.S. calls in 2003 (Table H-5). On a per vessel basis, containerships made the most calls at 17, followed by tankers at 12 and ro-ro vessels at 11 calls. Containerships and ro-ro vessels are generally in scheduled service, which tends to increase calls per vessel. The high calls per vessel for the tankers can be attributed to their deployment in U.S. domestic trades, which involve calls at both load and discharge ports.

U.S. Flag Calls

U.S.-flag vessel calls are largely in U.S. domestic trades. In 2003, 244 U.S.-flag vessels were active in U.S. oceanborne trades, down from 254 vessels in 1999. The U.S.-flag fleet accounted for 14 percent of U.S. port calls in 2003, down from 15 percent four years earlier. U.S.-flag vessels accounted for 14 percent of capacity calling at U.S. ports in 2003, down from 16 percent in 1999 (Tables S-1 and S-3). The declines were primarily in the general cargo, tanker and container segments as 25+ year old vessels were removed from domestic service (Table H-6).

Vessel Size

The average size (per call) of commercial vessels calling at U.S. ports was 49,557 DWT or 15.9 percent larger than vessels calling at world ports (Table H-7). The difference was due largely to a scarcity of U.S. feeder and short-sea container services. These services, which use smaller vessels than linehaul services, are common in intra-European and intra-Asia trades (As of year-end

Vessel Capacity Calling at U.S. Ports by Vessel Type, 1999 and 2003

Vessel Type	(Million DWT (TEU))		%Ch. 99-03
	1999	2003	
Tanker	1,170	1,339	14.4
Double-Hull	430	910	89.6
Product	408	416	2.0
Double-Hull	137	244	78.1
Crude	762	924	21.3
Double-Hull	342	666	94.7
Container	608	746	22.7
Container (TEU)	42	54	28.6
Dry Bulk	500	438	-12.4
Ro-Ro	95	105	10.5
Vehicle	49	54	10.2
Gas Carrier	21	35	66.7
Combination	68	56	-17.6
General Cargo	97	93	-4.1
All Types	2,559	2,813	10.0

Table H-4

Active Fleets (Vessels), Distribution by Number of Calls at U.S. Ports, 2003

Vessel Type	Calls			Active Vessels
	<10	10-19	>19	
Tanker	957	317	270	1,544
Double-Hull	610	208	183	1,001
Container	383	276	366	1,025
Dry Bulk	2,218	145	40	2,403
Ro-Ro	265	123	73	461
Vehicle	146	98	61	305
Gas Carrier	118	15	9	142
Combination	65	22	3	90
General Cargo	358	88	46	492
All Types	4,364	986	807	6,157

Table H-5

U.S.-Flag Vessel Calls at U.S. Ports by Vessel Type, 1999 and 2003

Vessel Type			% Ch. 99-03
	1999	2003	
Tanker	4,095	3,759	-8.2
Double-Hull	1,114	1,637	46.9
Container	3,256	2,898	-11.0
Dry Bulk	104	112	7.7
Ro-Ro	910	953	4.7
Vehicle	197	190	-3.6
Gas Carrier	17	0	-100.0
Combination	0	0	0.0
General Cargo	163	97	-40.5
All Types	8,545	7,819	-8.5

Table H-6

Highlights

2003, there were 510 10,000+ DWT containerships operating in intra-European and intra-Asia trades. Seventy-three percent of these were less than 20,000 DWT/1,620 TEU's).

Dry bulk carriers calling at U.S. ports were 15 percent smaller than those calling at world ports. Grains, which are generally shipped on smaller vessels than other major bulk cargoes (coal and iron ores) accounted for 51 percent of U.S. major bulk trades, compared to only 20 percent of worldwide major bulk trades.

Fleet Age

In 2003, 49 percent of the calls at U.S. ports were by vessels 10 years old or less. The youngest segment was containerships with 59 percent of the calls by vessels 10 years old or less followed by dry bulk at 49 percent and tankers at 48 percent (Table H-8). Seventy-five percent of the double-hull tanker calls were by vessels less than 10 years old.

Principal Ports

The largest U.S. ports in 2003 were L.A./Long Beach, Houston, New York and New Orleans; accounting for 34 percent of U.S. calls (Tables H-9 and H-10). The same four ports were also the largest in terms of capacity.

Over the last 2 years, L.A./Long Beach remained the largest U.S. port in terms of calls, while New York and New Orleans exchanged the second and third positions. New York rose from 4 to 3 due largely to an increase in tanker calls; while New Orleans fell from 3 to 4 due largely to a decline in bulk carrier calls.

Average Vessel Size (DWT, TEU) Per Call, by Vessel Type, 2003

Vessel Type	U.S. Ports	World Ports	% Diff.
Tanker	72,387	67,509	6.7
Double-Hull	76,458	72,129	5.7
Container	43,168	32,462	24.8
Container (TEU)	3,144	2,300	26.8
Dry Bulk	42,685	49,486	-15.9
Ro-Ro	20,270	17,306	14.6
Vehicle	17,496	16,969	3.0
Gas Carrier	37,818	42,027	-11.1
Combination	84,016	95,231	-13.3
General Cargo	23,655	19,339	18.2
All Types	49,557	41,678	15.9

Table H-7

Vessel Calls at U.S. Ports by Vessel Type and Age, 2003

Vessel Type	Less Than 10 Years	10-20 Years	More Than 20 Years
Tanker	8,959	5,280	4,264
Double-Hull	8,957	1,939	1,007
Container	10,132	5,301	1,854
Dry Bulk	5,004	3,246	2,021
Ro-Ro	1,292	2,336	1,563
Vehicle	891	1,506	716
Gas Carrier	367	247	312
Combination	170	410	86
General Cargo	1,606	1,426	883
All Types	27,530	18,246	10,983

Table H-8

Principal U.S. Ports, 2002 and 2003* (Vessel Calls)

	2002	2003
LA/Long Beach (1)	4,994	5,130
Houston (2)	4,775	4,857
New York (4)	4,447	4,853
New Orleans (3)	4,702	4,464
San Francisco (5)	3,639	3,623
Philadelphia (6)	2,401	2,486
Savannah (10)	1,958	2,087
Charleston (9)	2,022	2,024
Port Arthur (12)	1,433	1,732
Baltimore (11)	1,711	1,635
Total, Top 10	32,082	32,891
Total All Ports	56,586	56,759

*2002 ranks in parentheses

Table H-9

Principal U.S. Ports, 2002 and 2003* (Capacity, Thousand DWT)

	2002	2003
LA/Long Beach (1)	255,384	265,490
New York (4)	191,438	216,177
New Orleans (2)	227,654	212,898
Houston (3)	197,531	212,109
San Francisco (5)	175,789	183,934
Philadelphia (6)	116,818	140,819
Port Arthur (7)	105,515	129,920
LOOP Term. (11)	79,795	88,181
Savannah (12)	77,982	87,789
Charleston (10)	82,913	85,090
Total, Top 10	1,510,819	1,622,407
Total, All Ports	2,695,398	2,812,832

*2002 ranks in parentheses

Table H-10

Highlights

Regional Calls

In 2003, Atlantic and Pacific ports accounted for 90 percent for both containership calls and vehicle carrier calls, Gulf and Pacific ports accounted for 75 percent of dry bulk calls, and Gulf ports alone accounted for 47 percent of gas carrier calls (Table H-11). For tankers, Gulf ports accounted for 50 percent of the calls, followed by Pacific ports at 21 percent and Atlantic ports at 20 percent. Product tankers accounted for 59 percent of overall tanker calls, but 77 percent of calls at Atlantic ports.

Vessel Type	North Atlantic	South Atlantic	Puerto Rico	Pacific Northwest	Pacific Southwest	U.S. Gulf	Total
Tanker	3,679	1,303	273	1,900	1,978	9,303	18,503
Product	2,543	1,270	234	663	1,145	5,076	10,931
Crude	1,136	33	39	1,237	833	4,227	7,505
Container	3,036	5,341	504	1,875	5,268	1,263	17,287
Bulk	1,351	1,054	126	1,479	1,424	4,836	10,271
Ro-Ro	1,577	1,434	243	679	860	398	5,191
Vehicle	1,147	687	127	314	667	171	3,113
Gas Carrier	122	45	35	48	52	624	926
Combination	216	48	10	2	15	375	666
General Cargo	852	703	306	251	636	1,167	3,915
All Types	10,833	9,928	1,497	6,234	10,233	17,966	56,759

Table H-11

Port Call Concentration

With 133 U.S. ports (or port groupings) handling vessels greater than 10,000 DWT in 2003, the concentration of activity at the largest of these is remarkable. Overall, the top 20 ports accounted for 79 percent of the calls at U.S. ports in 2003 (Tables H-12, S-6 and S-7). The largest concentrations of calls were for containerships, ro-ro's, gas carriers and combination carriers with the top 10 ports accounting for at least 80 percent of the calls and capacity. In the containership sector, the top 10 ports accounted for 80 percent of the calls, but 86 percent of the capacity, indicating that large containerships tend to call at the largest container ports.

Vessel Type	Top 10 Ports		Top 20 Ports		Top 30 Ports	
	Calls	Cap.	Calls	Cap.	Calls	Cap.
Tanker	64	64	82	86	92	93
Product	63	63	83	82	93	93
Crude	68	68	93	93	98	98
Container	80	86	97	98	100	100
Dry Bulk	68	69	86	87	93	94
Ro-Ro	70	70	94	95	99	99
Vehicle	81	81	98	98	100	100
Gas Carrier	80	85	95	96	99	99
Combination	80	83	93	94	98	98
General Cargo	62	61	83	84	93	93
All Types	58	58	79	78	90	89

Table H-12

Summary Tables

Vessel Calls at U.S. Ports, Calls, Capacity and Average DWT/TEU Per Call, 1999-2003						
Vessel Type	1999	2000	2001	2002	2003	% Ch. 99-03
Calls						
Tanker	17,279	18,535	18,387	17,320	18,503	7.1
Double-Hull	6,942	8,742	9,568	10,045	11,903	71.5
Product	10,875	11,868	11,780	10,949	10,998	1.1
Double-Hull	3,996	5,184	5,755	5,770	6,576	64.6
Crude	6,404	6,667	6,607	6,371	7,505	17.2
Double-Hull	2,946	3,558	3,813	4,275	5,327	80.8
Container	16,625	17,410	17,076	17,138	17,287	4.0
Dry Bulk	11,946	12,013	11,628	11,112	10,271	-14.0
Ro-Ro	5,073	5,542	5,712	5,632	5,191	2.3
Vehicle	3,072	3,646	3,646	3,605	3,113	1.3
Gas Carrier	683	708	739	739	926	35.6
Combination	767	856	770	761	666	-13.2
General Cargo	4,354	4,318	4,076	3,894	3,915	-10.1
All Types	56,727	59,382	58,388	56,596	56,759	0.1
Capacity (Million DWT/TEU)						
Tanker	1,170	1,252	1,274	1,202	1,339	14.4
Double-Hull	480	600	678	752	910	89.6
Product	408	437	443	406	416	2.0
Double-Hull	137	177	208	208	244	78.1
Crude	762	816	831	797	924	21.3
Double-Hull	342	423	470	544	666	94.7
Container	608	658	677	722	746	22.7
Container (TEU)	42	46	48	52	54	28.6
Dry Bulk	500	501	490	476	438	-12.3
Ro-Ro	95	102	117	115	105	11.1
Vehicle	49	60	64	63	54	10.2
Gas Carrier	21	22	25	24	35	63.3
Combination	68	77	68	64	56	-17.5
General Cargo	97	99	95	91	93	-4.8
All Types	2,559	2,711	2,746	2,695	2,813	9.9
Average DWT/TEU Per Call						
Tanker	67,723	67,551	69,313	69,412	72,387	7.0
Double-Hull	69,076	68,638	70,914	74,887	76,458	11.0
Product	37,516	36,780	37,612	37,050	37,790	1.0
Double-Hull	34,374	34,074	36,180	36,128	37,103	8.0
Crude	119,019	122,326	125,833	125,028	123,085	3.0
Double-Hull	116,146	118,998	123,338	127,200	125,040	8.0
Container	36,586	37,784	39,656	42,158	43,168	18.0
Container (TEU)	2,550	2,652	2,801	3,020	3,144	23.0
Dry Bulk	41,833	41,694	42,142	42,876	42,685	2.0
Ro-Ro	18,662	18,456	20,445	20,376	20,270	9.0
Vehicle	16,034	16,438	17,579	17,528	17,496	9.0
Gas Carrier	31,402	31,397	33,438	32,099	37,818	20.0
Combination	88,433	89,462	87,873	84,459	84,016	-5.0
General Cargo	22,331	22,857	23,416	23,496	23,655	6.0
All Types	45,117	45,646	47,034	47,625	49,557	9.8

Table S-1

Summary Tables

Foreign-Flag Vessel Calls at U.S. Ports, Calls, Capacity and Average DWT/ <i>TEU</i> Per Call, 1999-2003						
Vessel Type	1999	2000	2001	2002	2003	% Ch. 99-03
Calls						
Tanker	13,184	14,432	14,378	13,771	14,744	11.8
Double-Hull	5,828	7,328	8,055	8,597	10,266	76.2
Product	8,026	8,936	8,919	8,519	8,629	7.5
Double-Hull	3,038	3,956	4,505	4,708	5,408	78.0
Crude	5,158	5,496	5,459	5,252	6,115	18.6
Double-Hull	2,790	3,372	3,550	3,889	4,858	74.1
Container	13,369	14,168	14,330	14,314	14,389	7.6
Dry Bulk	11,842	11,882	11,477	10,956	10,159	-14.2
Ro-Ro	4,163	4,574	4,811	4,738	4,238	1.8
Vehicle	2,875	3,383	3,399	3,377	2,923	1.7
Gas Carrier	666	708	739	739	926	39.0
Combination	767	856	770	761	666	-13.2
General Cargo	4,191	4,163	3,942	3,804	3,818	-8.9
All Types	48,182	50,783	50,447	49,083	48,940	1.6
Capacity (Million DWT/<i>TEU</i>)						
Tanker	896	984	1,006	956	1,066	19.0
Double-Hull	423	529	596	659	802	89.6
Product	293	317	326	305	319	8.9
Double-Hull	100	129	159	166	198	98.0
Crude	603	666	680	651	747	23.9
Double-Hull	323	400	437	493	603	86.7
Container	498	546	579	624	643	29.1
Container (<i>TEU</i>)	35	38	41	45	47	34.3
Dry Bulk	495	494	483	470	433	-12.5
Ro-Ro	78	85	100	98	86	10.3
Vehicle	46	55	60	59	51	10.9
Gas Carrier	21	22	25	24	35	66.7
Combination	68	77	68	64	56	-17.7
General Cargo	91	93	91	89	90	-1.1
All Types	2,147	2,301	2,352	2,324	2,410	12.3
Average DWT/<i>TEU</i> Per Call						
Tanker	67,970	68,164	69,996	69,424	72,299	6.4
Double-Hull	72,604	72,178	73,944	76,690	78,075	7.5
Product	36,562	35,496	36,572	35,854	36,973	1.1
Double-Hull	33,027	32,519	35,278	35,311	36,630	10.9
Crude	116,841	121,278	124,605	123,876	122,147	4.5
Double-Hull	115,698	118,705	123,011	126,784	124,211	7.4
Container	37,262	38,534	40,402	43,585	44,720	20.0
Container (<i>TEU</i>)	2,585	2,695	2,845	3,121	3,256	25.3
Dry Bulk	41,807	41,600	42,152	42,862	42,649	2.0
Ro-Ro	18,633	18,528	20,810	20,735	20,408	9.5
Vehicle	15,878	16,313	17,584	17,494	17,527	10.4
Gas Carrier	31,258	31,397	33,438	32,099	37,818	21.0
Combination	88,433	89,462	87,873	84,459	84,016	-5.0
General Cargo	21,783	22,357	23,041	23,320	23,461	7.7
All Types	44,557	45,303	46,632	47,357	49,239	10.5

Table S-2

Summary Tables

U.S.-Flag Vessel Calls at U.S. Ports, Calls, Capacity and Average DWT/TEU Per Call, 1999-2003						
Flag/Vessel Type	1999	2000	2001	2002	2003	% Ch. 99-03
Calls						
Tanker	4,095	4,103	4,009	3,549	3,759	-8.2
Double-Hull	1,114	1,414	1,513	1,448	1,637	47.0
Product	2,849	2,932	2,861	2,430	2,369	-16.9
Double-Hull	958	1,228	1,250	1,062	1,168	21.9
Crude	1,246	1,171	1,148	1,119	1,390	11.6
Double-Hull	156	186	263	386	469	200.6
Container	3,256	3,242	2,746	2,824	2,898	-11.0
Dry Bulk	104	131	151	156	112	7.7
Ro-Ro	910	968	901	894	953	4.7
Vehicle	197	263	247	228	190	-3.6
Gas Carrier	17	0	0	0	0	-100.0
Combination	0	0	0	0	0	0.0
General Cargo	163	155	134	90	97	-40.5
All Types	8,545	8,599	7,941	7,513	7,819	-8.5
Capacity (Million DWT/TEU)						
Tanker	274	268	268	246	273	-0.4
Double-Hull	56	71	83	93	109	94.6
Product	114	119	117	100	97	-14.9
Double-Hull	37	48	49	42	46	24.3
Crude	159	149	151	146	177	11.3
Double-Hull	19	23	34	51	63	231.6
Container	110	112	98	99	103	-6.4
Container (TEU)	8	8	7	7	8	0.0
Dry Bulk	5	7	6	7	5	0.0
Ro-Ro	17	17	17	17	19	11.8
Vehicle	4	5	4	4	3	-25.0
Gas Carrier	1	0	0	0	0	-100.0
Combination	0	0	0	0	0	0.0
General Cargo	6	6	5	3	3	-50.0
All Types	412	410	394	371	403	-2.2
Average DWT/TEU Per Call						
Tanker	66,927	65,395	66,862	69,364	72,732	8.7
Double-Hull	50,620	50,296	54,785	64,183	66,316	31.0
Product	40,202	40,692	40,855	41,244	40,767	1.4
Double-Hull	38,646	39,085	39,431	39,753	39,290	1.7
Crude	128,034	127,246	131,677	130,432	127,210	-0.6
Double-Hull	124,149	124,312	127,761	131,397	133,621	7.6
Dry Bulk	44,820	50,155	41,354	43,885	45,926	2.5
Container	33,808	34,509	35,764	34,926	35,462	4.9
Container (TEU)	2,409	2,468	2,571	2,510	2,589	7.5
Ro-Ro	18,798	18,115	18,491	18,476	19,657	4.6
Vehicle	18,310	18,045	17,517	18,042	17,020	-7.0
Gas Carrier	37,040	0	0	0	0	-100.0
Combination	0	0	0	0	0	0.0
General Cargo	36,424	36,288	34,451	30,897	31,260	-14.2
All Types	48,271	47,671	49,588	49,375	51,551	6.8

Table S-3

Summary Tables

Vessel Calls at U.S. Ports by Coastal Region and Vessel Type, 1999-2003						
Vessel Type/Region	1999	2000	2001	2002	2003	% Ch. 99-03
Tanker						
North Atlantic	3,153	3,533	3,682	3,122	3,679	16.7
South Atlantic	1,393	1,406	1,437	1,297	1,303	-6.5
Puerto Rico	216	182	212	241	273	26.4
U.S. Gulf	8,861	9,463	9,155	8,798	9,370	5.7
Pacific Northwest	1,630	1,870	1,805	1,793	1,900	16.6
Pacific Southwest	2,026	2,081	2,096	2,069	1,978	-2.4
Total	17,279	18,535	18,387	17,320	18,503	7.1
Container						
North Atlantic	3,157	3,208	3,196	3,043	3,036	-3.8
South Atlantic	5,116	5,212	5,479	5,444	5,341	4.4
Puerto Rico	665	673	586	568	504	-24.2
U.S. Gulf	1,197	1,178	1,283	1,262	1,263	5.5
Pacific Northwest	1,779	1,898	1,705	1,787	1,875	5.4
Pacific Southwest	4,711	5,241	4,827	5,034	5,268	11.8
Total	16,625	17,410	17,076	17,138	17,287	4.0
Dry Bulk						
North Atlantic	1,441	1,579	1,587	1,388	1,351	-6.3
South Atlantic	1,710	1,603	1,341	1,156	1,054	-38.4
Puerto Rico	130	116	91	85	126	-3.1
U.S. Gulf	5,521	5,104	4,794	4,983	4,837	-12.4
Pacific Northwest	1,744	1,998	2,420	2,111	1,479	-15.2
Pacific Southwest	1,400	1,613	1,395	1,389	1,424	1.7
Total	11,946	12,013	11,628	11,112	10,271	-14.0
Ro-Ro						
North Atlantic	1,209	1,479	1,786	1,804	1,577	30.4
South Atlantic	1,538	1,684	1,644	1,555	1,434	-6.8
Puerto Rico	175	228	200	167	243	38.9
U.S. Gulf	452	446	449	431	398	-11.9
Pacific Northwest	748	789	773	792	679	-9.2
Pacific Southwest	951	916	860	883	860	-9.6
Total	5,073	5,542	5,712	5,632	5,191	2.3

Table S-4

Summary Tables

Vessel Calls at U.S. Ports by Coastal Region and Vessel Type, 1999-2003 - Cont.						
Vessel Type/Region	1999	2000	2001	2002	2003	% Ch. 99-03
Gas Carrier						
North Atlantic	90	74	75	73	122	35.6
South Atlantic	29	35	33	26	45	55.2
Puerto Rico	13	18	28	33	35	169.2
U.S. Gulf	458	470	493	514	624	36.2
Pacific Northwest	66	57	61	43	48	-27.3
Pacific Southwest	27	54	49	50	52	92.6
Total	683	708	739	739	926	35.6
Combination						
North Atlantic	238	217	251	234	216	-9.2
South Atlantic	80	92	71	69	48	-40.0
Puerto Rico	12	14	5	14	10	-16.7
U.S. Gulf	402	505	406	418	375	-6.7
Pacific Northwest	7	2	3	0	2	-71.4
Pacific Southwest	28	26	34	26	15	-46.4
Total	767	856	770	761	666	-13.2
General Cargo						
North Atlantic	886	890	846	789	852	-3.8
South Atlantic	1,023	907	800	828	703	-31.3
Puerto Rico	302	329	285	269	306	1.3
U.S. Gulf	1,478	1,471	1,361	1,267	1,167	-21.0
Pacific Northwest	139	146	160	171	251	80.6
Pacific Southwest	526	575	624	570	636	20.9
Total	4,354	4,318	4,076	3,894	3,915	-10.1
All Types						
North Atlantic	10,174	10,980	11,423	10,453	10,833	6.5
South Atlantic	10,889	10,939	10,805	10,375	9,928	-8.9
Puerto Rico	1,513	1,560	1,407	1,377	1,497	-1.1
U.S. Gulf	18,369	18,673	17,941	17,673	18,034	-1.8
Pacific Northwest	6,113	6,760	6,927	6,697	6,234	2.0
Pacific Southwest	9,669	10,506	9,885	10,021	10,233	5.8
Total	56,727	59,382	58,388	56,596	56,759	0.1

Table S-4 -- Cont.

Summary Tables

Vessel Capacity Calling at U.S. Ports by Coastal Region and Vessel Type, 1999-2003						
(Thousand DWT/TEU)						
Vessel Type/Region	1999	2000	2001	2002	2003	% Ch. 99-03
Tanker						
North Atlantic	191,989	214,073	218,849	188,820	239,242	24.6
South Atlantic	56,522	57,782	59,243	53,201	55,298	-2.2
Puerto Rico	9,069	7,766	9,325	11,267	13,123	44.7
U.S. Gulf	607,422	649,296	662,854	621,759	684,133	12.6
Pacific Northwest	148,229	158,668	158,030	155,389	176,978	19.4
Pacific Southwest	156,948	164,470	166,151	171,777	170,595	8.7
Total	1,170,180	1,252,054	1,274,451	1,202,213	1,339,369	14.4
Container						
North Atlantic	114,151	118,974	118,536	124,692	130,401	14.2
South Atlantic	185,932	198,780	216,947	232,109	231,845	24.7
Puerto Rico	13,003	12,925	11,338	12,361	11,016	-15.3
U.S. Gulf	34,192	34,435	39,761	40,170	40,771	19.2
Pacific Northwest	68,488	76,231	75,230	81,326	84,963	24.1
Pacific Southwest	192,468	216,478	215,352	231,842	247,248	28.5
Total	608,234	657,822	677,164	722,500	746,244	22.7
Container (TEU)						
North Atlantic	7,762	8,099	8,066	8,688	9,323	20.1
South Atlantic	12,853	13,844	15,054	16,316	16,576	29.0
Puerto Rico	796	787	701	763	704	-11.6
U.S. Gulf	2,372	2,346	2,713	2,787	2,952	24.4
Pacific Northwest	4,918	5,563	5,534	6,053	6,397	30.1
Pacific Southwest	13,744	15,539	15,756	17,151	18,405	33.9
Total	42,401	46,179	47,824	51,757	54,357	28.2
Dry Bulk						
North Atlantic	58,661	60,149	62,958	58,404	54,914	-6.4
South Atlantic	73,415	66,880	57,067	47,377	41,012	-44.1
Puerto Rico	3,921	3,487	2,726	2,849	3,993	1.8
U.S. Gulf	236,041	223,193	212,940	222,278	213,964	-9.4
Pacific Northwest	67,140	77,439	95,401	83,800	63,452	-5.5
Pacific Southwest	60,559	69,717	58,931	61,730	61,081	0.9
Total	499,736	500,864	490,024	476,438	438,416	-12.3
Ro-Ro						
North Atlantic	23,203	27,491	40,174	39,861	34,426	48.4
South Atlantic	30,290	32,598	34,484	32,474	28,415	-6.2
Puerto Rico	2,770	3,635	3,197	2,643	3,760	35.7
U.S. Gulf	9,629	9,839	9,976	9,612	8,730	-9.3
Pacific Northwest	12,362	12,822	12,952	13,329	12,777	3.4
Pacific Southwest	16,421	15,896	15,996	16,841	17,113	4.2
Total	94,675	102,281	116,780	114,760	105,222	11.1

Table S-5

Summary Tables

Vessel Capacity Calling at U.S. Ports by Coastal Region and Vessel Type, 1999-2003 - Cont.						
(Thousand DWT/TEU)						
Vessel Type/Region	1999	2000	2001	2002	2003	% Ch. 99-03
Gas Carrier						
North Atlantic	4,228	3,676	3,360	3,585	7,251	71.5
South Atlantic	1,138	1,208	1,258	1,009	2,226	95.6
Puerto Rico	287	467	549	848	1,044	263.7
U.S. Gulf	12,540	13,337	15,970	15,455	21,850	74.2
Pacific Northwest	2,614	2,488	2,504	1,839	1,790	-31.5
Pacific Southwest	641	1,054	1,070	985	858	33.8
Total	21,448	22,229	24,710	23,721	35,019	63.3
Combination						
North Atlantic	20,819	19,400	21,703	19,766	18,582	-10.7
South Atlantic	6,745	7,556	5,403	5,271	3,524	-47.8
Puerto Rico	840	1,010	357	789	857	2.0
U.S. Gulf	36,518	46,643	37,913	36,581	31,743	-13.3
Pacific Northwest	730	96	135	0	103	-85.9
Pacific Southwest	2,177	1,875	2,151	1,866	1,146	-47.3
Total	67,828	76,580	67,662	64,273	55,955	-17.5
General Cargo						
North Atlantic	16,007	16,669	16,679	15,447	15,713	-1.8
South Atlantic	26,767	24,836	21,625	20,955	18,193	-32.0
Puerto Rico	4,732	4,951	3,528	3,585	4,084	-13.7
U.S. Gulf	33,541	33,386	32,166	29,901	28,044	-16.4
Pacific Northwest	4,540	4,670	5,337	6,510	9,566	110.7
Pacific Southwest	11,641	14,186	16,107	15,092	17,007	46.1
Total	97,229	98,698	95,442	91,492	92,607	-4.8
All Types						
North Atlantic	429,058	460,432	482,287	450,576	500,529	16.7
South Atlantic	380,808	389,639	396,027	392,397	380,513	0.1
Puerto Rico	34,662	34,240	31,019	34,341	37,877	9.3
U.S. Gulf	969,882	1,010,130	1,011,553	975,757	1,029,236	6.1
Pacific Northwest	304,103	332,415	349,589	342,193	349,628	15.0
Pacific Southwest	440,855	489,639	475,757	500,134	515,048	16.8
Total	2,559,329	2,710,529	2,746,233	2,695,398	2,812,832	9.9

Table S-5 -- Cont.

Summary Tables

Top 20 U.S. Ports of Call by Vessel Type, 2003					
(Vessel Calls)					
Vessel Type/Port	Calls	Percent of Total	Vessel Type/Port	Calls	Percent of Total
Tanker			Tanker, Crude		
Houston	2,612	14	Port Arthur	987	13
Port Arthur	1,400	8	Houston	728	10
New York	1,319	7	Phila/DE River Ports	610	8
Phila/DE River Ports	1,194	6	Valdez	542	7
New Orleans Ports	1,162	6	Texas City	462	6
Texas City	1,042	6	New Orleans Ports	438	6
LA/Long Beach	914	5	LOOP Terminal	345	5
Corpus Christi	738	4	LA/Long Beach	335	4
San Francisco Bay Ports	692	4	Corpus Christi	334	4
Valdez	678	4	New York	293	4
Freeport, TX	539	3	San Francisco Bay Ports	274	4
Lake Charles	384	2	Lake Charles	245	3
March Point	362	2	Freeport, TX	239	3
Portland, ME	353	2	Port Angeles	210	3
LOOP Terminal	345	2	Portland, ME	205	3
Boston	339	2	March Point	200	3
Port Everglades	332	2	Pascagoula	184	2
Port Angeles	281	2	Cherry Point	150	2
Pascagoula	274	1	El Segundo	148	2
Jacksonville	261	1	Ferndale	83	1
Top 20 Ports	15,221	82	Top 20 Ports	7,012	93
All Ports	18,503	100	All Ports	7,505	100
Tanker, Product			Container		
Houston	1,884	17	LA/Long Beach	2,975	17
New York	1,026	9	New York	2,296	13
New Orleans Ports	724	7	San Francisco Bay Ports	1,884	11
Phila/DE River Ports	584	5	Charleston	1,402	8
Texas City	580	5	Savannah	1,258	7
LA/Long Beach	579	5	Virginia Ports	1,064	6
San Francisco Bay Ports	418	4	Miami	860	5
Port Arthur	413	4	Houston	748	4
Corpus Christi	404	4	Seattle	748	4
Boston	336	3	Tacoma	533	3
Port Everglades	331	3	San Juan	477	3
Freeport, TX	300	3	Honolulu	358	2
Jacksonville	257	2	Port Everglades	343	2
Savannah	225	2	Baltimore	337	2
Wilmington, NC	223	2	New Orleans Ports	335	2
Tampa	176	2	Jacksonville	299	2
Point Comfort	170	2	Phila/DE River Ports	297	2
Charleston	162	1	Dutch Harbor	183	1
March Point	162	1	Anchorage	165	1
Portland, ME	148	1	Columbia River Ports	120	1
Top 20 Ports	10,205	93	Top 20 Ports	16,682	97
All Ports	10,998	100	All Ports	17,287	100

Table S-6

Summary Tables

Top 20 U.S. Ports of Call by Vessel Type, 2003 - Cont.					
(Vessel Calls)					
Vessel Type/Port	Calls	Percent of Total	Vessel Type/Port	Percent of Total	
Dry Bulk			Gas Carrier		
New Orleans Ports	2,453	24	Houston	185	20
Columbia River Ports	918	9	Tampa	106	11
San Francisco Bay Ports	727	7	Lake Charles	104	11
Houston	680	7	New Orleans Ports	97	10
LA/Long Beach	591	6	Boston	57	6
Tampa	348	3	San Francisco Bay Ports	48	5
Phila/DE River Ports	346	3	Point Comfort	42	5
New York	339	3	Freeport, TX	41	4
Mobile	310	3	Savannah	36	4
Baltimore	305	3	Kenai	26	3
Savannah	233	2	Cove Point	23	2
Jacksonville	204	2	Port Arthur	19	2
Seattle	199	2	Guayanilla	17	2
Virginia Ports	197	2	Portsmouth, NH	13	1
Port Arthur	195	2	Phila/DE River Ports	12	1
Tacoma	191	2	Nikiski	11	1
Charleston	162	2	Pascagoula	11	1
Corpus Christi	140	1	San Juan	10	1
Lake Charles	137	1	New York	10	1
Galveston	110	1	Columbia River Ports	8	1
Top 20 Ports	8,785	86	Top 20 Ports	876	95
All Ports	10,271	100	All Ports	926	100
Ro-Ro			Combination		
Baltimore	705	14	Houston	122	18
New York	627	12	New York	106	16
Jacksonville	581	11	Corpus Christi	76	11
LA/Long Beach	348	7	New Orleans Ports	56	8
Tacoma	336	6	Phila/DE River Ports	46	7
San Juan	242	5	Port Arthur	40	6
Miami	239	5	Virginia Ports	30	5
Houston	210	4	Portland, ME	25	4
Charleston	192	4	Freeport, TX	18	3
Phila/DE River Ports	179	3	Texas City	17	3
Columbia River Ports	176	3	Baltimore	15	2
Port Hueneme	157	3	Mobile	12	2
Savannah	157	3	Boston	8	1
San Diego	148	3	Ingleside	7	1
Anchorage	139	3	LOOP Terminal	7	1
Port Everglades	104	2	Charleston	6	1
San Francisco Bay Ports	102	2	San Francisco Bay Ports	6	1
Virginia Ports	100	2	Jacksonville	6	1
Honolulu	98	2	Point Comfort	6	1
Galveston	59	1	Yabucoa	6	1
Top 20 Ports	4,899	94	Top 20 Ports	620	93
All Ports	5,191	100	All Ports	666	100

Table S-6 -- Cont.

Summary Tables

Top 20 U.S. Ports of Call by Vessel Type, 2003 - Cont.					
(Vessel Calls)					
Vessel Type/Port	Calls	Percent of Total	Vessel Type/Port	Calls	Percent of Total
General Cargo			All Vessel Types		
Phila/DE River Ports	412	11	LA/Long Beach	5,130	9
New Orleans Ports	304	8	Houston	4,857	9
Houston	300	8	New York	4,853	9
San Juan	299	8	New Orleans Ports	4,464	8
LA/Long Beach	294	8	San Francisco Bay Ports	3,623	6
Savannah	175	4	Phila/DE River Ports	2,486	4
San Francisco Bay Ports	164	4	Savannah	2,087	4
New York	156	4	Charleston	2,024	4
Columbia River Ports	155	4	Port Arthur	1,732	3
Baltimore	151	4	Baltimore	1,635	3
Mobile	128	3	Virginia Ports	1,539	3
Port Hueneme	114	3	Columbia River Ports	1,505	3
Wilmington, NC	100	3	Jacksonville	1,401	2
Charleston	97	2	San Juan	1,252	2
Tampa	93	2	Miami	1,184	2
Palm Beach	66	2	Tacoma	1,174	2
Virginia Ports	65	2	Texas City	1,101	2
Galveston	64	2	Seattle	1,016	2
Port Arthur	63	2	Corpus Christi	977	2
Miami	57	1	Port Everglades	921	2
Top 20 Ports	3,657	93	Top 20 Ports	44,961	79
All Ports	3,915	100	All Ports	56,759	100

Table S-6 -- Cont.

Summary Tables

Top 20 U.S. Ports of Call by Vessel Type, 2003					
(Capacity, Thousand DWT/TEU)					
Vessel Type/Port	Capacity	Percent of Total	Vessel Type/Port	Capacity	Percent of Total
Tanker			Tanker, Crude		
Houston	133,363	10	Port Arthur	100,256	11
Port Arthur	116,971	9	LOOP Terminal	87,294	9
Phila/DE River Ports	104,780	8	Phila/DE River Ports	82,092	9
LOOP Terminal	87,294	7	Houston	73,010	8
LA/Long Beach	75,560	6	Valdez	67,505	7
Valdez	74,623	6	LA/Long Beach	51,903	6
New York	72,835	5	Texas City	47,029	5
New Orleans Ports	72,223	5	New Orleans Ports	45,792	5
Texas City	66,629	5	San Francisco Bay Ports	40,309	4
San Francisco Bay Ports	56,560	4	Corpus Christi	35,013	4
Corpus Christi	52,417	4	New York	29,931	3
Freeport, TX	32,955	2	Port Angeles	24,613	3
March Point	30,074	2	Lake Charles	24,341	3
Lake Charles	29,673	2	Freeport, TX	23,840	3
Port Angeles	28,104	2	Portland, ME	23,379	3
Portland, ME	27,891	2	March Point	23,072	2
El Segundo	25,421	2	El Segundo	21,088	2
Pascagoula	21,160	2	Galveston light. area	20,219	2
Cherry Point	20,256	2	Pascagoula	17,621	2
Galveston light. area	20,219	2	Cherry Point	17,461	2
Top 20 Ports	1,149,006	86	Top 20 Ports	855,766	93
All Ports	1,339,369	100	All Ports	923,753	100
Tanker, Product			Container		
Houston	60,354	15	LA/Long Beach	147,362	20
New York	42,904	10	New York	103,208	14
New Orleans Ports	26,432	6	San Francisco Bay Ports	89,093	12
LA/Long Beach	23,656	6	Charleston	63,776	9
Phila/DE River Ports	22,688	5	Savannah	61,219	8
Texas City	19,600	5	Virginia Ports	47,606	6
Corpus Christi	17,403	4	Seattle	38,740	5
Port Arthur	16,715	4	Miami	35,854	5
San Francisco Bay Ports	16,251	4	Tacoma	28,542	4
Port Everglades	14,727	4	Houston	26,250	4
Boston	12,737	3	Baltimore	13,781	2
Jacksonville	10,911	3	New Orleans Ports	11,518	2
Freeport, TX	9,114	2	Port Everglades	10,927	1
Savannah	8,277	2	San Juan	10,292	1
Wilmington, NC	8,033	2	Honolulu	9,961	1
Charleston	7,174	2	Phila/DE River Ports	8,972	1
Valdez	7,118	2	Jacksonville	8,671	1
March Point	7,002	2	Dutch Harbor	6,853	1
Tampa	5,962	1	Columbia River Ports	4,355	1
Point Comfort	5,622	1	Boston	4,342	1
Top 20 Ports	342,680	82	Top 20 Ports	731,213	98
All Ports	415,615	100	All Ports	746,244	100

Table S-7

Summary Tables

Top 20 U.S. Ports of Call by Vessel Type, 2003 - Cont.					
(Capacity, Thousand DWT/TEU)					
Vessel Type/Port	Capacity	Percent of Total	Vessel Type/Port	Capacity	Percent of Total
Container (TEU)			Dry Bulk		
LA/Long Beach	11,053	20	New Orleans Ports	112,652	26
New York	7,370	14	Columbia River Ports	35,255	8
San Francisco Bay Ports	6,658	12	San Francisco Bay Ports	29,370	7
Charleston	4,634	9	LA/Long Beach	27,348	6
Savannah	4,356	8	Houston	25,495	6
Virginia Ports	3,385	6	Mobile	17,605	4
Seattle	2,829	5	Baltimore	15,051	3
Miami	2,591	5	Tampa	13,532	3
Tacoma	2,201	4	New York	13,184	3
Houston	1,921	4	Phila/DE River Ports	12,606	3
Baltimore	984	2	Tacoma	11,040	3
New Orleans Ports	834	2	Seattle	10,890	2
Port Everglades	767	1	Virginia Ports	10,110	2
San Juan	657	1	Jacksonville	8,555	2
Honolulu	649	1	Port Arthur	7,308	2
Phila/DE River Ports	647	1	Savannah	6,894	2
Jacksonville	562	1	Charleston	6,471	1
Dutch Harbor	542	1	Lake Charles	6,107	1
Boston	320	1	Corpus Christi	6,003	1
Columbia River Ports	314	1	Galveston	4,314	1
Top 20 Ports	53,272	98	Top 20 Ports	379,791	87
All Ports	54,357	100	All Ports	438,416	100
Ro-Ro			Gas Carrier		
New York	15,412	15	Lake Charles	6,273	18
Baltimore	15,256	14	Houston	5,720	16
Jacksonville	10,410	10	Boston	4,203	12
LA/Long Beach	7,137	7	Tampa	3,419	10
Tacoma	6,322	6	New Orleans Ports	2,926	8
Savannah	4,467	4	Savannah	1,790	5
Houston	4,179	4	Cove Point	1,691	5
San Juan	3,742	4	Freeport, TX	1,241	4
Miami	3,666	3	Point Comfort	1,184	3
Charleston	3,553	3	Kenai	1,164	3
Port Hueneme	3,370	3	San Francisco Bay Ports	680	2
Virginia Ports	3,217	3	Guayanilla	668	2
Anchorage	3,073	3	Portsmouth, NH	488	1
Columbia River Ports	2,932	3	Port Arthur	413	1
Phila/DE River Ports	2,771	3	Nikiski	354	1
San Diego	2,625	2	Phila/DE River Ports	300	1
New Orleans Ports	2,120	2	New York	272	1
San Francisco Bay Ports	2,021	2	Pascagoula	241	1
Honolulu	1,851	2	Virginia Ports	237	1
Port Everglades	1,627	2	Providence	197	1
Top 20 Ports	99,750	95	Top 20 Ports	33,461	96
All Ports	105,222	100	All Ports	35,019	100

Table S-7 - Cont.

Summary Tables

Top 20 U.S. Ports of Call by Vessel Type, 2003 - Cont.					
(Capacity, Thousand DWT/TEU)					
Vessel Type/Port	Capacity	Percent of Total	Vessel Type/Port	Capacity	Percent of Total
Combination			General Cargo		
Houston	10,445	19	LA/Long Beach	7,634	8
New York	8,175	15	New Orleans Ports	7,198	8
Corpus Christi	7,659	14	Houston	6,657	7
Phila/DE River Ports	5,303	9	Phila/DE River Ports	6,087	7
New Orleans Ports	4,261	8	Columbia River Ports	6,034	7
Port Arthur	2,868	5	San Francisco Bay Ports	5,815	6
Virginia Ports	2,591	5	Savannah	4,972	5
Portland, ME	2,550	5	Mobile	4,207	5
Texas City	1,367	2	San Juan	3,817	4
Freeport, TX	1,327	2	Baltimore	3,614	4
Baltimore	1,108	2	Charleston	3,596	4
Mobile	1,062	2	Wilmington, NC	3,396	4
LOOP Terminal	888	2	New York	3,091	3
Ingleside	645	1	Port Arthur	2,034	2
Yabucoa	639	1	Tampa	1,970	2
Boston	432	1	Port Hueneme	1,745	2
San Francisco Bay Ports	394	1	Seattle	1,656	2
Barbers Point	384	1	Virginia Ports	1,465	2
Jacksonville	335	1	Beaumont	1,300	1
Charleston	288	1	Jacksonville	1,078	1
Top 20 Ports	52,721	94	Top 20 Ports	77,365	84
All Ports	55,955	100	All Ports	92,607	100
All Vessel Types					
LA/Long Beach	265,490	9			
New York	216,177	8			
New Orleans Ports	212,898	8			
Houston	212,109	8			
San Francisco Bay Ports	183,934	7			
Phila/DE River Ports	140,819	5			
Port Arthur	129,920	5			
LOOP Terminal	88,181	3			
Savannah	87,789	3			
Charleston	85,090	3			
Valdez	74,706	3			
Virginia Ports	70,066	2			
Texas City	69,752	2			
Corpus Christi	66,578	2			
Columbia River Ports	53,784	2			
Baltimore	53,388	2			
Tacoma	52,138	2			
Seattle	51,950	2			
Lake Charles	43,451	2			
Miami	41,231	1			
Top 20 Ports	2,199,451	78			
All Ports	2,812,832	100			

Table S-7 - Cont.