U.S. Department of Transportation Maritime Administration





Vessel Calls at U.S. Ports Snapshot, 2007









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Preface

The snapshot contains data on calls by oceangoing vessels of 10,000 deadweight (DWT) or greater at U.S. ports. Vessel capacities are expressed in terms of deadweight tons for all vessel types, plus twenty-foot equivalent units (TEU's) for containerships and cubic meters (CM) for gas carriers.

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 (Combo): Ore/Bulk/Oil Carriers, Bulk/Oil Carriers.

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

Capacity (Size)

Throughout the report, average vessel size is the sum of vessel calls weighted by vessel deadweight (DWT) divided by calls. DWT is the total weight (metric tons) of cargo, fuel, fresh water, stores and crew which a ship can carry when immersed to its load line. For containerships and gas carriers, capacities are also expressed in twenty-foot equivalent units, (TEU) and cubic meters (CM), respectively. A TEU is a nominal unit of measure equivalent to a 20' x 8' x 8' shipping container.

Notes and Sources

In the example below, three vessels made a total of 25 calls at U.S. ports. The total capacity calling was 750,000 DWT, the average capacity per call is 750,000/25 or 30,000 DWT.

	Calls	DWT	Calls x DWT
Vessel A	10	25,000	250,000
Vessel B	5	20,000	100,000
Vessel C	10	40,000	400,000
Total	25		750,000

Average DWT per call = 750,000/25 = 30,000

Similarly, for TEU and CM capacities.

Average Age

Same calculation as above substituting age of vessel in years for capacities.

Growth Rates/Percents

Throughout the report, textual 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 (calls₂₀₀₆ –calls₂₀₀₁) x 100/calls₂₀₀₁, and similarly for age and vessel size.

Coastal Regions

North Atlantic (N. Atl.): All ports from Eastport, ME to Baltimore MD.

South Atlantic (S. Atl.): All ports from Alexandria, VA to Miami, FL.

Puerto Rico (P.R.)

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

Notes and Sources

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

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

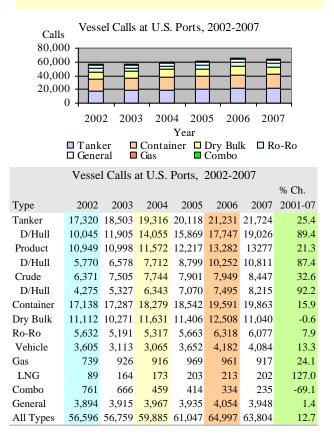
Sources:

Lloyd's Maritime Intelligence Unit, <u>Vessel Movements Data</u> <u>Files</u>, 2001-2006, London: Lloyd's Maritime Intelligence Unit, 2001-2006. This source contains data for vessel port calls, ports and active fleets.

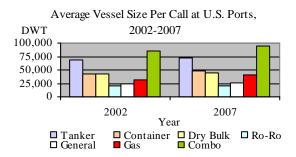
Lloyd's Maritime Intelligence Unit, <u>Seasearcher</u>, London: Lloyd's Maritime Intelligence Unit, 2007. This source contains data for vessel port calls, ports and active fleets.

Clarkson Research Studies, <u>Clarkson's Vessel Registers</u>, London: Clarkson Research Studies, January 2007. This source contains data on the characteristics of the world merchant fleets.

In 2007, 6,867 oceangoing vessels made 63,804 calls at U.S. ports. Vessel calls were up 12.7 percent from 5 years earlier. Of the 2007 calls, 34 percent were by tankers, 31 percent were by containerships, 17 percent were by dry bulk vessels, 10 percent were by ro-ro's, and 6 percent were by general cargo ships. In 2007, 88 percent of the tanker calls were by double-hull tankers, up from 58 percent 5 years before. While liquified natural gas (LNG) carriers accounted for less than 1 percent of the calls, they were the fastest growing segment over the last 5 years.



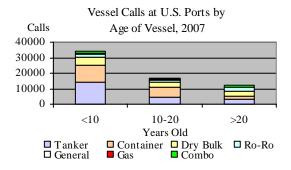
The average size (DWT) of vessels calling at U.S. ports increased by 8 percent over the last five years. The average size of containerships was 13 percent larger in terms of DWT, but 19 percent larger in terms of TEUs. Similarly, gas carrier DWT per call increased by 26 percent, while the average cubic meter capacity per call increased by 36 percent.



Average	Vessel Size	e Per Call,	2002-2007
(DW	T unless ot	herwise sp	pecified)

							% Ch.
Туре	2002	2003	2004	2005	2006	2007	2001-07
Tanker	69,412	72,387	70,690	72,056	71,831	72,222	4.0
D/Hull	74,887	76,452	74,717	76,240	75,891	76,408	2.0
Product	37,050	37,790	37,684	37,956	37,669	36,699	-0.9
D/Hull	36,128	37,104	37,163	37,799	37,934	36,994	2.4
Crude	125,028	123,085	120,010	124,784	128,913	128,058	2.4
D/Hull	127,200	125,040	120,376	124,083	127,811	128,278	0.8
Container	42,158	43,168	43,610	44,593	46,598	47,720	13.2
(TEU)	3,020	3,144	3,234	3,313	3,445	3,597	19.1
Dry Bulk	42,876	42,685	42,972	43,276	44,746	45,270	5.6
Ro-Ro	20,376	20,270	20,190	19,838	19,751	19,635	-3.6
Vehicle	17,528	17,496	16,708	18,506	18,788	18,585	6.0
Gas	32,099	37,818	39,145	41,411	40,738	40,462	26.1
(CM)	43,774	55,024	57,465	61,410	60,037	59,369	35.6
LNG	56,290	68,564	70,458	70,374	70,962	73,703	30.9
(CM)	104,879	125,768	129,429	128,504	130,006	134,832	28.6
Combo	84,459	84,016	84,699	87,151	86,344	93,617	10.8
General	23,496	23,655	24,542	25,101	25,446	25,572	8.8
All Types	47,625	49,557	49,125	50,083	50,672	51,658	8.5

In 2007, 54 percent of the calls at U.S. ports were by vessels less than 10 years old, up from 47 percent 5 years earlier. The largest upgrades were in the tanker and gas carrier fleets.



Vessel Calls at U.S. Ports by Age of Vessel,	2007
(% of Calls)	

	Years Old							
Туре	<10	10-20	>20					
2002								
Tanker	47.7	31.7	20.6					
Container	56.5	30.8	12.7					
Dry Bulk	47.4	35.7	17.0					
Ro-Ro	24.0	44.8	31.2					
Gas	37.2	23.3	39.5					
Combo	29.2	57.0	13.8					
General	40.7	32.8	26.6					
All Types	47.1	33.8	19.1					
2007								
Tanker	64.5	21.7	13.9					
Container	56.2	33.1	10.8					
Dry Bulk	44.8	26.5	28.6					
Ro-Ro	32.4	23.7	44.0					
Gas	49.4	29.9	20.7					
Combo	31.1	53.2	15.7					
General	44.2	25.5	30.4					
All Types	53.8	26.7	19.5					

Average Age of Vessels Per Call at U.S. Ports, 2002-2007 (Years Old)

		(Tears	s Olu)			
Туре	2002	2003	2004	2005	2006	2007
Tanker	12.0	11.7	10.9	10.1	9.5	9.2
D/Hull	6.9	7.2	7.3	7.1	7.0	7.4
Product	12.9	12.7	12.2	11.3	10.6	10.2
D/Hull	7.0	7.9	8.0	7.4	7.3	7.5
Crude	10.5	10.2	8.9	8.3	7.6	7.5
D/Hull	6.7	6.4	6.4	6.6	6.7	7.2
Container	10.3	9.8	10.5	10.6	10.2	10.0
Dry Bulk	12.0	12.4	12.4	12.4	12.2	12.8
Ro-Ro	15.8	16.0	16.6	16.6	16.8	16.7
Vehicle	13.9	14.6	15.1	14.8	14.4	14.2
Gas	15.6	14.4	13.9	12.3	11.7	11.2
LNG	20.5	10.6	11.6	9.1	9.8	7.1
-Combo	13.1	13.4	12.3	11.3	12.9	12.5
General	13.4	13.3	13.5	13.6	13.4	13.5
All Types	12.0	11.8	11.8	11.6	11.2	11.1

Over the last five years, the South Atlantic (S. Atl.) had the highest growth (20 percent) in calls among the six U.S. coastal regions.

In 2007, 36 percent of container calls were at South Atlantic ports, up from 32 percent in 2002.

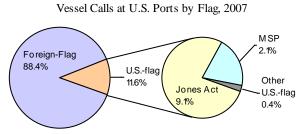
Vessel Calls by U.S. Coast, 2002 and 2007							
Туре	N. Atl	S. Atl	PNW	PSW	P.R.	U.S.G.	Total
2002							
Tanker	3,122	1,297	1,793	2,069	241	8,798	17,320
Container	3,043	5,444	1,787	5,034	568	1,262	17,138
Dry Bulk	1,388	1,156	2,111	1,389	85	4,983	11,112
Ro-Ro	1,804	1,555	792	883	167	431	5,632
Gas	73	26	43	50	33	514	739
Combo	234	69	0	26	14	418	761
General	789	828	171	570	269	1,267	3,894
All Types	10,453	10,375	6,697	10,021	1,377	17,673	56,596
2007							
Tanker	4,037	1,705	1,850	2,519	215	11,398	21,724
Container	3,644	7,057	1,788	5,570	498	1,306	19,863
Dry Bulk	1,294	1,106	2,406	1,204	42	4,988	11,040
Ro-Ro	1,612	1,811	709	1,332	227	386	6,077
Gas	181	32	25	43	8	628	917
Combo	28	63	0	8	1	135	235
General	743	678	379	598	188	1,362	3,948
All Types	11,539	12,452	7,157	11,274	1,179	20,203	63,804
%Ch. 2002-2007							
Tanker	29.3	31.5	3.2	21.7	-10.8	29.6	25.4
Container	19.8	29.6	0.1	10.6	-12.3		15.9
Dry Bulk	-6.8	-4.3	14.0	-13.3	-50.6		-0.6
Ro-Ro	-10.6	16.5	-10.5	50.8	35.9		7.9
Gas	147.9	23.1	-41.9	-14.0	-75.8	22.2	24.1
Combo	-88.0	-8.7	0.0	-69.2	-92.9		-69.1
General	-5.8	-18.1	121.6	4.9	-30.1	7.5	1.4
All Types	10.4	20.0	6.9	12.5	-14.4		12.7

In 2007, the top 10 U.S. ports accounted for 61 percent of oceangoing vessel calls. Houston was largest for tanker calls; LA/LB was largest for containership calls, and New Orleans was largest for dry bulk calls.

Vessel Calls by Top 10 Ports and Vessel Type, 2007						
Tanker	Ī	Container		Dry Bulk		
Houston	3,757	LA/LB	3,058	New Orleans	2,392	
New Orleans	1,667	New York	2,549	Col. River	1,683	
Philadelphia	1,646	San Francisco	2,046	Houston	800	
New York	1,443	Virginia Ports	1,940	San Francisco	633	
LA/LB	1,337	Savannah	1,807	LA/LB	484	
Texas City	1,160	Charleston	1,589	Mobile	427	
Port Arthur	1,049	Houston	818	Virginia Ports	426	
Corpus Christi	816	Pt. Everglades	739	Baltimore	364	
San Francisco	736	Seattle	666	Philadelphia	352	
Freeport, TX	604	Tacoma	621	Seattle	293	
Top 10	14,215	Top 10	15,833	Top 10	7,854	
All Ports	21,724	All Ports	19,863	All Ports	11,040	
Ro-Ro		Gas		General		
Baltimore	755	Houston	205	Philadelphia	420	
Jacksonville	609	New Orleans	145	Houston	399	
New York	586	Lake Charles	77	New Orleans	338	
LA/LB	365	Tampa	67	Col. River	253	
San Francisco	310	Philadelphia	64	LA/LB	239	
Miami	304	Boston	52	San Juan	181	
Tacoma	294	Freeport, TX	51	San Francisco	180	
Col. River	292	Cove Point	46	Mobile	176	
Brunswick	242	San Francisco	40	Savannah	122	
San Diego	234	Point Comfort	36	Port Hueneme	118	
Top 10	3,991	Top 10	783	Top 10	2,426	
All Ports	6,077	All Ports	917	All Ports	3,948	
Combo		All Types				
Houston	62	Houston	6,195			
Virginia Ports	51	LA/LB	5,492			
Corpus Christi	25	New York	4,968			
Mobile	20	New Orleans	4,884			
New Orleans	20	San Francisco	3,945			
Baltimore	12	Philadelphia	3,148			
New York	8	Virginia Ports	2,775			
LA/LB	8	Savannah	2,615			
Pt. Everglades	4	Col. River	2,578			
Jacksonville	4	Charleston	2,160			
Top 10	214	Top 10	38,760			
All Ports	235	All Ports	63,804			

In 2007, U.S.-flag oceangoing vessels accounted for 12 percent of the calls at U.S. ports. Jones Act vessels accounted 78 percent of U.S.-flag calls and 9 percent of overall calls. Maritime Security Program (MSP) vessels accounted for 2 percent of overall calls.

U.S.-flag vessels averaged 36 calls per vessel while foreignflag vessels averaged only 8 calls per vessel. Jones Act vessels call primarily at U.S. ports, while foreign-flag and non-Jones Act U.S.-flag vessels spend significant time in foreign ports.



□ Foreign-Flag □ Jones Act □ MSP □ Other U.S.-flag

U.Sflag	Vessel Calls	s at U.S.	Ports by	Segment.	2007

	Jones Act*	MSP	Other	Total
Tanker	3,448	36	0	3,484
D/Hull	2,633	36	0	2,669
Product	2,421	36	0	2,457
D/Hull	1,629	36	0	1,665
Crude	1,027	0	0	1,027
D/Hull	1,004	0	0	1,004
Container	1,417	977	163	2,557
Dry Bulk	63	0	36	99
Ro-Ro	842	344	57	1,243
Vehicle	120	344	20	484
General	14	0	23	37
All Types	5,784	1,357	279	7,420

* U.S.-flag/U.S.-built.

U.S.-flag vessel calls at U.S. ports were down slightly over the last five years. The decline in containership calls was offset largely by advances in ro-ro calls. The increase in ro-ro calls reflects an increase in both Maritime Security Program and Jones Act ro-ro fleets.

							% Ch.
Vessel Type	2002	2003	2004	2005	2006	2007	2002-07
U.SFlag	2002	2000	2001	2000	2000	2007	2002 07
Tanker	3,549	3,759	3,591	3,676	3,421	3,484	-1.8
D/Hull	1,448	1,637	1,882	2,012	2,190	2,669	
Product	2,430	2,369	2,449	2,532	2,455	2,457	1.1
D/Hull	1,062	1,168	1,361	1,372	1,474	1,665	56.8
Crude	1,119	1,390	1,142	1,144	966	1,027	-8.2
D/Hull	386	469	521	640	716	1,004	160.1
Container	2,824	2,898	2,992	2,605	2,465	2,557	-9.5
Dry Bulk	156	112	128	131	77	99	-36.5
Ro-Ro	894	953	1,079	1,238	1,364	1,243	39.0
Vehicle	228	190	227	451	565	484	112.3
General	90	97	102	95	53	37	-58.9
All Types	7,513	7,819	7,892	7,745	7,380	7,420	-1.2
Jones Act*							
Tanker	3,549	3,759	3,591	3,662	3,386	3,448	-2.8
D/Hull	1,448	1,637	1,882	1,998	2,155	2,633	81.8
Product	2,430	2,354	2,347	2,430	2,357	2,421	-0.4
D/Hull	1062	1168	1361	1358	1439	1,629	53.4
Crude	1,119	1,390	1,142	1,144	966	1,027	-8.2
D/Hull	386	469	521	640	716	1,004	160.1
Container	1,631	1,653	1,583	1,579	1,490	1,417	-13.1
Dry Bulk	67	48	78	72	38	63	-6.0
Ro-Ro	590	675	779	856	868	842	42.7
Vehicle	0	0	0	97	113	120	na
General	62	65	73	63	25	14	-77.4
All Types	5,899	6,200	6,104	6,232	5,807	5,784	-1.9

Vessel Calls at U.S. Ports, U.S.-flag and Jones Act Fleets, 2002-2007

* U.S.-flag/U.S.-Built.

The average size (DWT) of U.S.-flag vessels per call increased by 4 percent over the last five years. The largest increase, 21 percent, was in the double-hull tanker fleet.

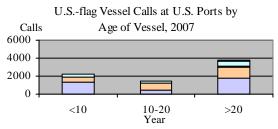
(DWT unless otherwise specified)							
							% Ch.
Туре	2002	2003	2004	2005	2006	2007	2001-07
U.Sflag							
Tanker	69,365	72,732	69,285	72,849	74,803	73,228	5.3
D/Hull	64,183	66,316	65,743	72,378	76,216	80,699	20.5
Product	41,244	40,767	40,496	40,765	41,071	41,073	-0.4
D/Hull	39,753	39,290	38,824	38,536	39,271	39,711	-0.1
Crude	130,432	127,210	131,020	143,860	160,528	150,154	13.1
D/Hull	131,397	133,621	136,063	144,928	152,273	148,672	11.6
Container	34,926	35,462	36,576	36,334	36,881	37,462	6.8
(TEU)	2,515	2,595	2,699	2,649	2,742	2,800	10.2
Dry Bulk	43,885	45,926	40,890	40,257	42,126	38,609	-13.7
Ro-Ro	18,476	19,657	20,572	19,504	19,506	20,356	9.2
Vehicle	18,042	17,020	17,975	18,329	19,178	19,756	8.7
General	30,897	31,260	31,299	32,509	28,159	24,369	-26.8
All Types	49,375	51,551	49,273	50,994	51,240	51,340	3.8
Jones Act							
Tanker	69,365	72,732	69,285	72,956	75,139	73,550	6.0
D/Hull	64,183	66,316	65,743	72,572	76,767	81,223	26.5
Product	41,244	41,027	42,256	42,218	42,151	41,054	-0.5
D/Hull	39,753	39,290	38,824	38,472	39,198	39,652	-0.3
Crude	130,432	127,210	131,020	143,860	160,528	150,154	15.1
D/Hull	131,397	133,621	136,063	144,928	152,273	148,672	13.1
Container	25,677	25,825	25,811	26,383	26,933	26,893	4.7
(TEU)	1,688	1,762	1,871	1,919	2,017	1,995	18.2
Dry Bulk	33,281	35,615	34,423	33,802	34,111	33,943	2.0
Ro-Ro	17,799	19,679	21,008	19,226	18,725	19,565	9.9
Vehicle	na	na	na	12,917	12,714	14,008	na
General	35,559	33,684	32,232	35,802	25,095	20,986	-41.0
All Types	51,363	53,753	50,961	52,948	53,854	53,702	4.6

Average Vessel Size Per Call, U.S.-Flag and Jones Act Fleets 2002-2007 (DWT unless otherwise specified)

* U.S.-flag/U.S.-built.

In 2007, 30 percent of U.S.-flag calls were by vessels less than 10 years old, up from 13 percent in 2002. Over the last five years, many of the 1970's built vessels were removed from service and many of these were replaced by new, more efficient vessels.

Despite the upgrades, the average age of U.S.-flag vessels per call at U.S. ports was 19 years in 2007, compared to 11 years for foreign-flag vessels.



□ Tanker □ Container □ Dry Bulk □ Ro-Ro □ General

Vessel Calls at U.S. Ports by Age of Vessel, U.Sflag and
Jones Act, 2002 and 2007
(% of Calls)

	(/0 01 Calls)						
	Years Old						
Туре	<10	10-20	>20				
U.Sflag							
2002							
Tanker	21.2	23.9	54.9				
Container	3.8	47.2	49.0				
Dry Bulk	9.6	49.4	41.0				
Ro-Ro	14.9	8.7	76.4				
General	0.0	1.1	98.9				
All Types	13.4	31.1	55.5				
2007							
Tanker	38.1	11.6	50.3				
Container	21.0	30.7	48.4				
Dry Bulk	11.1	0.0	88.9				
Ro-Ro	29.8	19.5	50.7				
General	0.0	13.5	86.5				
All Types	30.3	19.4	50.4				

(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Years Old					
Туре	<10	10-20	>2010			
Jones Act*						
2002						
Tanker	21.2	23.9	54.9			
Container	0.0	26.7	73.3			
Dry Bulk	0.0	35.8	64.2			
Ro-Ro	0.0	0.3	99.7			
General	0.0	0.0	100.0			
All Types	12.7	22.2	65.1			
2007						
Tanker	37.8	11.4	50.8			
Container	6.3	25.1	68.6			
Dry Bulk	0.0	0.0	100.0			
Ro-Ro	34.7	0.8	64.5			
General	0.0	0.0	100.0			
All Types	29.1	13.1	57.8			
* 110 0 010 1	•1.					

Vessel Calls at U.S. Ports by Age of Vessel, U.S.-flag and Jones Act -- Cont. (% of Calls)

* U.S.-flag/U.S.-built.

Average Age of Vessels Per Call at U.S. Ports, U.S.-Flag and Jones Act, 2002-2007

(Years Old)							
Туре	2002	2003	2004	2005	2006	2007	
U.SFlag							
Tanker	18.8	19.9	19.7	18.9	17.9	16.6	
D/Hull	13.5	15.6	16.4	14.8	14.5	14.9	
Product	17.7	19.2	19.8	19.8	19.9	19.3	
D/Hull	13.1	17.1	18.2	17.1	17.5	17.8	
Crude	21.3	21.2	19.5	17.0	12.8	10.3	
D/Hull	14.6	12.0	11.8	9.9	8.4	10.0	
Container	21.3	20.9	20.8	20.8	21.3	20.2	
Dry Bulk	19.7	19.8	19.7	19.9	21.8	23.8	
Ro-Ro	22.6	20.6	19.9	18.3	19.1	19.7	
Vehicle	11.0	11.8	12.2	9.7	10.6	11.8	
General	26.9	27.4	28.5	27.5	30.3	30.3	
All Types	20.3	20.5	20.3	19.6	19.4	18.6	

(years)						
Туре	2002	2003	2004	2005	2006	2007
Jones Act*						
Tanker	18.8	19.9	19.7	19.0	18.0	16.7
D/Hull	13.5	15.6	16.4	14.8	14.6	15.0
Product	17.7	19.3	20.7	20.5	20.6	19.5
D/Hull	13.1	17.1	18.2	17.2	17.7	18.0
Crude	21.3	21.2	19.5	17.0	12.8	10.3
D/Hull	14.6	12.0	11.8	9.9	8.4	10.0
Container	25.5	24.6	25.1	24.6	25.9	27.0
Dry Bulk	24.7	22.9	22.9	24.4	25.5	26.8
Ro-Ro	27.0	22.7	21.7	20.4	21.9	22.0
Vehicle				0.1	1.1	6.1
General	28.3	29.6	31.2	30.0	35.9	38.8
All Types	21.7	21.6	21.6	20.8	20.7	20.2
US flog/US B	uilt.					

Average Age of Vessels Per Call at U.S. Ports, U.S. Flag and Jones Act -- Cont.

U.S.-flag/U.S.-Built.

U.Sflag Vessel Calls at U.S. Ports by Coast, 2002, 2007								
Туре	N. Atl	S. Atl	PNW	PSW	P.R.	U.S.G.	Total	
2002								
Tanker	280	327	1,526	660	11	745	3,549	
Container	166	685	536	933	253	251	2,824	
Dry Bulk	9	29	16	22	0	80	156	
Ro-Ro	95	230	312	151	67	39	894	
General	0	11	11	24	1	43	90	
All Types	550	1,282	2,401	1,790	332	1,158	7,513	
2007								
Tanker	363	292	1,356	591	15	867	3,484	
Container	162	622	558	850	188	177	2,557	
Dry Bulk	23	11	1	0	0	64	99	
Ro-Ro	170	358	214	343	110	48	1,243	
General	1	9	3	7	0	17	37	
All Types	719	1,292	2,132	1,791	313	1,173	7,420	
% Ch. 2002-2007								
Tanker	29.6	-10.7	-11.1	-10.5	36.4	16.4	-1.8	
Container	-2.4	-9.2	4.1	-8.9	-25.7	-29.5	-9.5	
Dry Bulk	155.6	-62.1	-93.8	-100.0	na	-20.0	-36.5	
Ro-Ro	78.9	55.7	-31.4	127.2	64.2	23.1	39.0	
General	na	-18.2	-72.7	-70.8	-100.0	-60.5	-58.9	
All Types	30.7	0.8	-11.2	0.1	-5.7	1.3	-1.2	