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U.S. Department
of Transportation

**Federal Highway
Administration**

*Intermodal Surface Transportation Efficiency Act
Section 6015 Study: Assessment of Border Crossings
and Transportation Corridors for North American
Trade (Southeast)*

U.S. Border Crossings with Canada and Mexico—Port Facilities, Inventory, and Constraints Volume 2

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SI* (MODERN METRIC) CONVERSION FACTORS

APPROXIMATE CONVERSIONS TO SI UNITS

APPROXIMATE CONVERSIONS FROM SI UNITS

Symbol	When You Know	Multiply By	To Find	Symbol	When You Know	Multiply By	To Find	Symbol
LENGTH								
in	inches	25.4	millimeters	mm	millimeters	0.039	inches	in
ft	feet	0.305	meters	m	meters	3.28	feet	ft
yd	yards	0.914	meters	m	meters	1.09	yards	yd
mi	miles	1.61	kilometers	km	kilometers	0.621	miles	mi
AREA								
in ²	square inches	645.2	square millimeters	mm ²	square millimeters	0.0016	square inches	in ²
ft ²	square feet	0.093	square meters	m ²	square meters	10.764	square feet	ft ²
yd ²	square yards	0.836	square meters	m ²	square meters	1.195	square yards	yd ²
ac	acres	0.405	hectares	ha	hectares	2.47	acres	ac
mi ²	square miles	2.59	square kilometers	km ²	square kilometers	0.386	square miles	mi ²
VOLUME								
fl oz	fluid ounces	29.57	milliliters	mL	milliliters	0.034	fluid ounces	fl oz
gal	gallons	3.785	liters	L	liters	0.264	gallons	gal
ft ³	cubic feet	0.028	cubic meters	m ³	cubic meters	35.71	cubic feet	ft ³
yd ³	cubic yards	0.765	cubic meters	m ³	cubic meters	1.307	cubic yards	yd ³
NOTE: Volumes greater than 1000 l shall be shown in m ³ .								
MASS								
oz	ounces	28.35	grams	g	grams	0.035	ounces	oz
lb	pounds	0.454	kilograms	kg	kilograms	2.202	pounds	lb
T	short tons (2000 lb)	0.907	megagrams (or "metric ton")	Mg (or "t")	megagrams (or "metric ton")	1.103	short tons (2000 lb)	T
TEMPERATURE (exact)								
°F	Fahrenheit temperature	5(F-32)/9 or (F-32)/1.8	Celsius temperature	°C	Celsius temperature	1.8C + 32	Fahrenheit temperature	°F
ILLUMINATION								
fc	foot-candles	10.76	lux	lx	lux	0.0929	foot-candles	fc
fl	foot-Lamberts	3.426	candela/m ²	cd/m ²	candela/m ²	0.2919	foot-Lamberts	fl
FORCE and PRESSURE or STRESS								
lbf	poundforce	4.45	newtons	N	newtons	0.225	poundforce	lbf
lbf/in ²	poundforce per square inch	6.89	kilopascals	kPa	kilopascals	0.145	poundforce per square inch	lbf/in ²

(Revised September 1983)

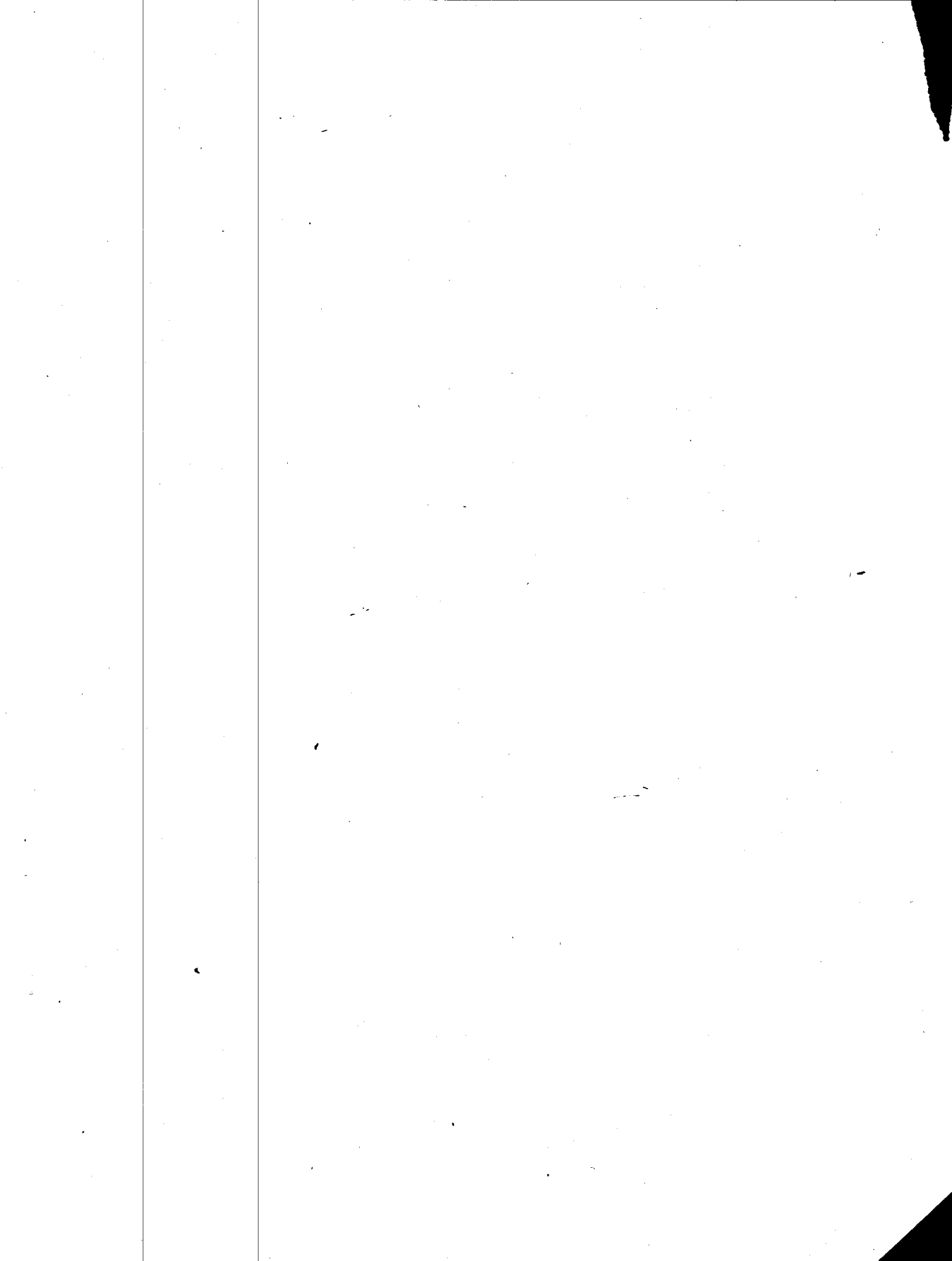
* SI is the symbol for the International System of Units. Appropriate rounding should be made to comply with Section 4 of ASTM E380.

**U.S. Border Crossings
with Canada and Mexico—Port
Facilities, Inventory, and Constraints
Volume 2**

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Appendix A

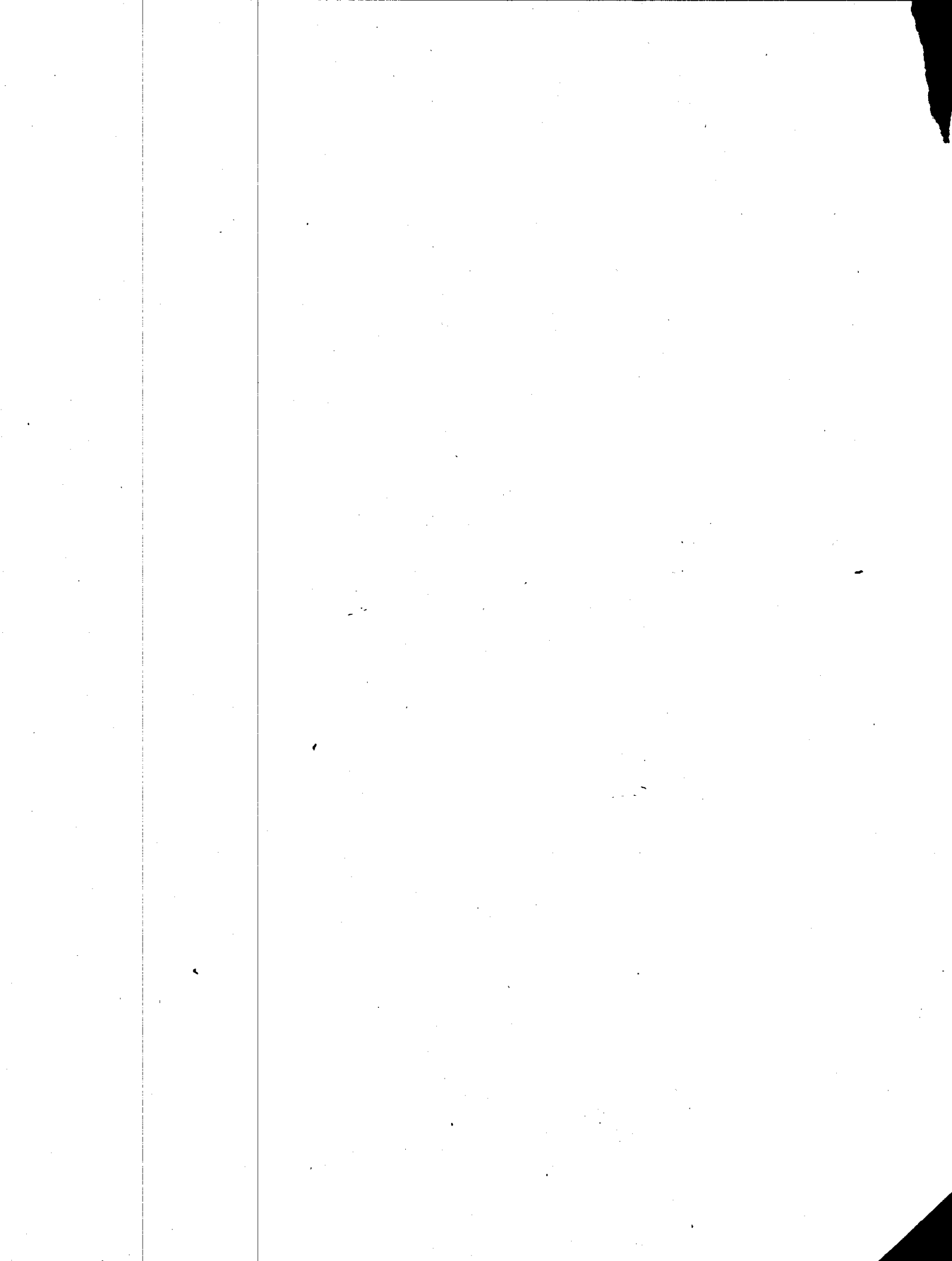
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Appendix A Waterborne Canadian and Mexican Trade with U.S. Eastern Regions, 1991

U.S. Ports Trading with Canada and Mexico			% Canada	% of Trade	% Mexico	% of Trade		
Code	U.S. Port	Port tonnage	Canadian	Mexican	to Port Total	with Canada	to Port Total	with Mexico
5301	HOUSTON TEX.	60,973,889	903,933	7,038,507	1.48	1.93	11.54	14.93
2010	GRAMERCY LA.	54,727,433		4,812,443			8.79	10.21
2002	NEW ORLEANS LA.	42,570,710	227,374	4,078,049	0.53	0.49	9.57	8.65
1001	NEW YORK N.Y.	41,291,117	1,970,605	1,460,538	4.77	4.20	3.54	3.10
1401	NORFOLK VA.	39,194,871	435,722	5,094	1.11	0.93	0.01	0.01
2004	BATON ROUGE LA.	34,211,851	709,819	1,798,887	2.07	1.51	5.28	3.82
5312	CORPUS CHRISTI, TEXAS	32,291,107	542,341	2,584,243	1.68	1.16	8.00	5.48
1402	NEWPORT NEWS VA.	25,322,980		578,188			2.28	1.23
5306	TEXAS CITY	21,454,803	235,714	3,522,569	1.10	0.50	16.42	7.47
1101	PHILADELPHIA PA.	21,432,042	1,979,402	1,234,921	9.24	4.22	5.76	2.62
1303	BALTIMORE MD.	21,315,402	2,488,050	153,800	11.67	5.31	0.72	0.33
2017	LAKE CHARLES, LA.	21,191,580	431,425	4,850,665	2.04	0.92	21.95	9.87
1801	TAMPA FL.	19,041,403	595,298	2,005,301	3.13	1.27	10.53	4.25
1901	MOBILE AL.	18,416,626	1,169,848	396,749	6.35	2.50	2.15	0.84
2101	PORT ARTHUR TEX.	18,314,897	193,192	1,587,349	1.05	0.41	8.67	3.37
1903	PASCAGOULA MISS.	17,334,283		5,861,182			33.81	12.44
2013	ST. ROSE LA.	13,161,878		335,982			2.55	0.71
1105	PAULSBORO N.J.	11,552,985		1,438,986			12.46	3.05
1703	SAVANNAH GA.	9,738,039	542,942	49,631	5.58	1.16	0.51	0.11
2008	DESTREHAN LA.	8,553,274		428,420			5.01	0.91
1102	CHESTER PA.	8,542,221	117,185		1.37	0.25		
0401	BOSTON MA.	8,409,378	2,098,840	35,645	24.96	4.48	0.42	0.08
1601	CHARLESTON S.C.	7,912,093	152,543	24,806	1.93	0.33	0.31	0.05
1118	MARCUS HOOK PA.	7,811,810		72,178			0.92	0.15
1803	JACKSONVILLE FL.	7,231,958	843,480	427,957	11.66	1.80	5.92	0.91
5311	FREEPORT, TEXAS	6,874,871	103,154	16,745	1.50	0.22	0.24	0.04
5310	GALVESTON, TEXAS	6,724,375	87,886	1,028,015	1.48	0.21	15.26	2.18
0101	PORTLAND ME.	6,558,105	981,883	129,647	14.97	2.09	1.98	0.28
2104	BEAUMONT TEX.	5,678,067		338,190			5.92	0.71
1103	WILMINGTON DEL.	5,506,956	347,819	32,995	6.31	0.74	0.80	0.07
4106	TOLEDO OHIO	5,485,210	4,651,051		85.29	9.94		
5313	PORT LAVACA, TEXAS	4,112,378		101,405			2.47	0.22
5203	PORT EVERGLADES FL.	4,043,884		71,568			1.77	0.15
4108	ASHTABULA OHIO	3,988,837	3,838,313		96.23	8.19		
5201	MIAMI FL.	3,670,280		31,993			0.87	0.07
3608	SUPERIOR WIS.	2,959,833	2,251,429		76.07	4.80		
1501	WILMINGTON N.C.	2,724,338	413,213	98,068	15.17	0.88	3.80	0.21
3601	DULUTH MINN.	2,575,301	2,280,485		88.55	4.86		
4101	CLEVELAND OHIO	2,518,425	2,084,095		82.75	4.45		
1511	BEAUFORT-MOREHEAD CITY	2,500,989		175,542			7.02	0.37
3801	DETROIT MICH.	2,280,039	1,484,871	22	65.12	3.17	0.00	0.00
0131	PORTSMOUTH N.H.	2,251,077	619,708	29,526	27.53	1.32	1.31	0.06
1107	CAMDEN N.J.	2,128,361	369,825		16.91	0.77		
0412	NEW HAVEN	2,008,629	397,257	69,980	19.77	0.85	3.48	0.15
0502	PROVIDENCE R.I.	1,807,580	179,241	3,064	9.92	0.38	0.17	0.01
3901	CHICAGO ILL.	1,800,197	878,011		54.87	1.87		
3905	GARY IND.	1,517,255	765,816		50.46	1.83		
1701	BRUNSWICK GA.	1,417,793	358,523	2,173	25.15	0.78	0.15	0.00
1818	PORT CANAVERAL	1,381,000	355,146	4,488	25.72	0.76	0.32	0.01
3802	SAULT ST. MARIE MICH.	1,399,959	1,351,797		96.67	2.88		
1002	ALBANY N.Y.	1,177,621	209,208	20,878	17.77	0.45	1.78	0.04
2014	GOOD HOPE LA.	1,076,312		195,539			18.17	0.41
1113	GLOUCESTER CITY N.J.	881,234		75,487			8.57	0.16
3701	MILWAUKEE WIS.	847,367	678,389		80.06	1.45		
1802	GEORGETOWN S.C.	816,907	281,228		31.98	0.56		
1902	GULFPORT MISS.	785,316		76,717			10.01	0.16
0904	OSWEGO N.Y.	708,542	704,004		99.64	1.50		
1821	PORT MANATEE	635,478		7,820			1.20	0.02
0801	BUFFALO-NIAGARA FALLS N.	604,623	579,514		95.85	1.24		
3804	SAGINAW-BAY CITY MICH.	532,759	532,762		100.00	1.14		
0152	SEARSPORT, ME.	487,238	180,932		37.13	0.39		
0903	ROCHESTER N.Y.	429,888	429,296		99.86	0.92		
3809	MARQUETTE MICH.	426,557	426,536		100.00	0.91		
1406	HOPEWELL VA.	375,810		25,189			6.70	0.05
3803	SAULT ST. MARIE	338,159	337,930		99.93	0.72		
1819	PENSACOLA, FLA.	332,026		1,081			0.33	0.00
3843	ALPENA MICH.	319,258	319,256		100.00	0.68		
3818	ROGERS CITY MICH.	309,912	309,533		99.88	0.86		
2301	BROWNSVILLE TEX.	299,935		3,436			1.15	0.01
4107	SANDUSKY OHIO	266,845	281,910		98.22	0.56		
4108	ERIE PA.	253,892	200,414		78.94	0.43		
2012	AVONDALE LA.	213,889		1,043			0.49	0.00
3703	GREEN BAY WIS.	166,323	142,100		85.44	0.30		
3815	MUSKEGON MICH.	160,501	157,548		98.16	0.34		
3842	PRESQUE ISLE MICH.	143,231	143,230		100.00	0.31		
0712	CHAMPLAIN-ROUSES POINT N.	141,824	139,411		98.30	0.30		
0701	OGDENSBURG N.Y.	131,958	116,062		87.95	0.25		
5402	ALEXANDRIA VA.	124,854	119,427		95.65	0.25		
2001	MORGAN CITY LA.	42,567		11,256			26.44	0.02
	All Others		1,184,524	794		2.53		0.00
	Total 1000 tons	670,556	46,878	47,128				

Notes: Values are rounded to the nearest 1000 ton, a zero indicates tonnage less than 500
 Source of raw data: US DOT- MARAD 1991 Harmonized commodities trade data

Appendix A

Total Waterborne Foreign Trade (By Port), 1991

Code	Port Name	Tot. Weight	Total Value (\$)	Port Name	Tot. Weight	Total Value (\$)	Port Name	Tot. Weight	Total Value (\$)
3003	ABERDEEN-HOQUIAM WASH.	2,238,127	570,165,557	HOUSTON TEX.	60,973,889	24,918,140,465	LOS ANGELES CAL.	22,545,344	57,392,721,406
4901	AGUADILLA PR.	239	198,718	GRAMERCY LA.	54,727,433	7,538,558,022	NEW YORK N.Y.	41,291,117	49,585,054,614
2813	ALAMEDA CAL.	37,189	28,038,924	NEW ORLEANS LA.	42,570,710	11,443,281,652	NEW BEACH CAL.	23,385,894	48,878,211,773
1012	ALBANY N.Y.	1,177,621	244,447,171	NEW YORK N.Y.	41,291,117	49,585,054,614	SEATTLE WASH.	13,056,834	28,029,290,692
0708	ALEXANDRIA BAY N.Y.	3,482	2,044,648	NORFOLK VA.	39,194,871	17,543,000,478	HOUSTON TEX.	60,973,889	24,918,140,465
5402	ALEXANDRIA VA.	124,854	73,702,505	BATON ROUGE LA.	34,211,651	4,655,733,262	TACOMA WASH.	12,907,878	23,524,908,571
3843	ALPENA MICH.	319,258	5,668,132	CORPUS CHRISTI, TEXA	32,291,107	3,986,308,615	OAKLAND CAL.	6,292,274	18,416,186,204
3010	ANACORTES WASH.	1,448,819	171,419,054	NEWPORT NEWS VA.	25,322,990	1,648,117,378	NORFOLK VA.	39,194,871	17,543,000,478
3128	ANCHORAGE ALASKA	5,970,998	2,319,684,322	LONG BEACH CAL.	23,385,894	48,878,211,773	BALTIMORE MD.	21,315,402	18,612,106,468
1301	ANNAPOLIS MD.	8,049	31,631,874	LOS ANGELES CAL.	22,545,344	57,392,721,406	CHARLESTON S.C.	7,912,093	13,983,344,878
3602	ASHLAND WIS.	11,692	7,902,581	TEXAS CITY	21,454,603	2,964,794,851	NEW ORLEANS LA.	42,570,710	11,443,281,652
4106	ASHTABULA OHIO	3,988,837	180,804,119	PHILADELPHIA PA.	21,432,042	5,714,103,044	SAVANNAH GA.	9,738,039	10,807,717,389
2901	ASTORIA OREG.	362,397	51,216,712	BALTIMORE MD.	21,315,402	18,612,106,468	MIAMI FL.	3,670,280	9,622,155,193
2012	AVONDALE LA.	213,889	93,071,848	LAKE CHARLES, LA.	21,191,580	2,743,420,915	GRAMERCY LA.	54,727,433	7,538,558,022
1303	BALTIMORE MD.	21,315,402	18,612,106,468	TAMPA FL.	19,041,403	2,617,623,778	JACKSONVILLE FL.	7,231,958	7,502,706,241
0102	BANGOR ME.	6	12,799	MOBILE AL.	18,416,628	2,259,870,842	PORTLAND OREG.	15,010,208	7,039,938,940
0112	BAR HARBOR ME.	6	31,480	PORT ARTHUR TEX.	18,314,697	2,588,255,830	SAN FRANCISCO CAL.	3,808,801	5,814,127,491
2004	BATON ROUGE LA.	34,211,651	4,655,733,262	PASCAGOULA MISS.	17,334,283	2,214,146,148	SAULT ST. MARIE MICH.	1,399,959	5,739,110,856
1511	BEAUFORT-MOREHEAD CITY	2,500,999	307,325,427	PORTLAND OREG.	15,010,208	7,039,938,940	PHILADELPHIA PA.	21,432,042	5,714,103,044
2104	BEAUMONT TEX.	5,878,067	828,400,732	ST. ROSE LA.	13,161,878	2,023,730,244	PORT EVERGLADES FL.	4,043,884	4,885,220,106
0132	BELOFT, ME.	614,254	72,673,432	SEATTLE WASH.	13,056,834	28,029,290,692	BATON ROUGE LA.	34,211,651	4,655,733,262
3005	BELLINGHAM WASH.	1,928,520	565,002,912	TACOMA WASH.	12,907,878	23,524,908,571	CORPUS CHRISTI, TEXAS	32,291,107	3,986,308,615
3004	BLAINE WASH.	23,377	7,027,413	PAULSBORO N.J.	11,552,985	1,571,298,844	BOSTON MA.	8,409,377	3,907,679,773
0401	BORTON MA.	1	20,968	CHRISTIANSTED V.I.	11,311,828	1,649,561,895	SAN JUAN PR.	4,820,738	3,735,116,754
0401	BOSTON MA.	8,409,377	3,907,679,773	SAVANNAH GA.	9,738,039	10,807,717,389	WILMINGTON DEL.	5,508,956	3,298,914,237
0410	BRIDGEPORT	329,813	153,045,586	DESTREHAN LA.	8,553,274	1,215,526,539	WILMINGTON N.C.	2,724,338	3,097,281,587
2301	BROWNSVILLE TEX.	299,935	110,488,893	CHESTER PA.	8,542,221	2,355,552,405	NORF-NEWPORT NEWS VALUE		3,084,715,978
1701	BRUNSWICK GA.	1,417,793	1,237,023,580	BOSTON MA.	8,409,377	3,907,679,773	TEXAS CITY	21,454,603	2,964,794,851
0901	BUFFALO-NIAGARA FALLS N	604,623	70,491,813	CHARLESTON S.C.	7,912,093	13,983,344,878	LAKE CHARLES, LA.	21,191,580	2,743,420,915
0115	CALAIS ME.	351	247,129	MARCUS HOOK PA.	7,811,810	1,271,257,048	TAMPA FL.	19,041,403	2,617,623,778
1302	CAMBRIDGE MD.	1,685	8,623,153	JACKSONVILLE FL.	7,231,958	7,502,706,241	GALVESTON, TEXAS	6,724,375	2,606,299,375
1107	CAMDEN N.J.	2,128,361	516,802,877	FREERTON, TEXAS	6,874,871	1,414,412,124	PORT ARTHUR TEX.	18,314,697	2,588,255,830
1406	CAPE CHARLES VA.	16,495	-1,015,411	GALVESTON, TEXAS	6,724,375	2,606,299,375	CHESTER PA.	8,542,221	2,355,552,405
0706	CAPE VINCENT N.Y.	36	30,742	PORTLAND ME.	6,558,105	1,078,528,144	ANCHORAGE ALASKA	5,970,998	2,319,684,322
2830	CARQUINEZ STRAIT CAL.	1,017,288	1,824,433,674	OAKLAND CAL.	6,292,274	18,416,186,204	PASCAGOULA MISS.	17,334,283	2,214,146,148
0712	CHAMPLAIN-ROUSES POINT N	141,824	19,134,642	ANCHORAGE ALASKA	5,970,998	2,319,684,322	BEAUMONT TEX.	5,878,067	828,400,732
1801	CHARLESTON S.C.	7,912,093	13,983,344,878	WILMINGTON DEL.	5,508,956	3,298,914,237	RICHMOND CAL.	4,837,070	2,071,061,613
5101	CHARLOTTE AMALIE V.I.	170,557	167,168,889	TOLEDO OHIO	5,485,210	403,852,072	ST. ROSE LA.	13,161,878	2,023,730,244
1102	CHESTER PA.	8,542,221	2,355,552,405	LONGVIEW WASH.	5,343,492	998,031,586	CARQUINEZ STRAIT CAL.	1,017,288	1,824,433,674
3901	CHICAGO ILL.	1,600,197	443,703,668	RICHMOND CAL.	4,837,070	2,071,061,613	RICHMOND-PETERSBUR	438,917	1,708,114,353
5104	CHRISTIANSTED V.I.	11,311,828	1,649,561,895	SAN JUAN PR.	4,820,738	3,735,116,754	CHRISTIANSTED V.I.	11,311,828	1,649,561,895
0714	CLAYTON N.Y.	20,989	916,069	KALAMA WASH.	4,749,559	591,121,998	NEWPORT NEWS VA.	25,322,990	1,648,117,378
4101	CLEVELAND OHIO	2,518,425	299,635,392	COOS BAY OREG.	4,208,000	545,536,076	PAULSBORO N.J.	11,552,985	1,571,298,844
4109	CONNEAUT OHIO	102,521	4,999,555	VANCOUVER WASH.	4,127,590	695,833,672	DETROIT MICH.	2,280,039	1,471,178,314
2903	COOS BAY OREG.	4,208,000	545,536,076	PORT LAVACA, TEXAS	4,112,378	196,308,779	FREERTON, TEXAS	6,874,871	1,414,412,124
5312	CORPUS CHRISTI, TEXAS	32,291,107	3,986,308,615	PORT EVERGLADES FL.	4,043,884	4,885,220,106	PORT HUENEME CAL.	339,128	1,397,037,203
2815	CROCKETT CAL.	27,164	12,333,670	ASHTABULA OHIO	3,988,837	180,804,119	W. PALM BEACH FL.	868,682	1,378,686,664
5103	CRUZ BAY V.I.	5,993	751,925	GUAYANILLA PR.	3,896,225	581,981,941	MARCUS HOOK PA.	7,811,810	1,271,257,048
3108	DALTON CACHE, ALASKA	99,326	16,041,228	SAN FRANCISCO CAL.	3,808,801	5,814,127,491	GLOUCESTER CITY N.J.	891,234	1,258,008,844
3819	DE TOUR VILLAGE MICH.	33,174	680,337	MIAMI FL.	3,670,280	9,622,155,193	BRUNSWICK GA.	1,417,793	1,237,023,580
2009	DESTREHAN LA.	8,553,274	1,215,526,539	SUPERIOR WIS.	2,959,833	368,180,487	DESTREHAN LA.	8,553,274	1,215,526,539
3801	DETROIT MICH.	1,471,178,314	2,280,039	HUMACAO PR.	2,922,419	405,993,625	PONCE PR.	648,775	1,178,754,048
3801	DULUTH MINN.	2,575,301	151,582,719	WILMINGTON N.C.	2,724,338	3,097,281,587	PORTLAND ME.	6,558,105	1,078,528,144
3804	E. CHICAGO IND.	60,775	7,680,887	DULUTH MINN.	2,575,301	151,582,719	LONGVIEW WASH.	5,343,492	998,031,586
0103	EASTPORT ME.	171,729	99,984,488	CLEVELAND OHIO	2,518,425	299,635,392	PROVIDENCE R.I.	1,807,580	672,400,232
2711	EL SEGUNDO CAL.	376,729	44,942,334	BEAUFORT-MOREHEAD	2,500,999	307,325,427	BEAUMONT TEX.	5,878,067	828,400,732
4108	ERIE PA.	253,892	17,247,001	JOBOS PR.	2,345,431	528,728,679	HONOLULU HAWAII	1,022,699	733,757,032
3808	ESCANABA MICH.	4,726	93,845	DETROIT MICH.	2,280,039	1,471,178,314	VANCOUVER WASH.	4,127,590	695,833,672
2802	EUREKA CAL.	945,998	236,927,885	PORTSMOUTH N.H.	2,251,077	278,836,694	KALAMA WASH.	4,749,559	591,121,998
3008	EVERETT WASH.	1,599,946	223,981,005	ABERDEEN-HOQUIAM W	2,238,127	570,165,557	NEW HAVEN	2,009,629	582,525,890
3111	FAIRBANKS ALASKA	4,238	3,107,327	CAMDEN N.J.	2,128,361	516,802,877	GUAYANILLA PR.	3,896,225	581,981,941
4904	FAJARDO PR.	21,248	4,076,210	NEW HAVEN	2,009,629	582,525,890	ABERDEEN-HOQUIAM W	2,238,127	570,165,557
0407	FALL RIVER MA.	279,999	29,506,330	BELLINGHAM WASH.	1,928,520	565,002,912	BELLINGHAM WASH.	1,928,520	565,002,912
1805	FERNANDINA BEACH FL.	258,132	244,486,214	PROVIDENCE R.I.	1,807,580	672,400,232	COOS BAY OREG.	4,208,000	545,536,076
3844	FERRISBURG MICH.	80,912	3,855,043	CHICAGO ILL.	1,600,197	443,703,668	JOBOS PR.	2,345,431	528,728,679
5205	FORT PIERCE FL.	59,387	4,802,842	EVERETT WASH.	1,599,946	223,981,005	CAMDEN N.J.	2,128,361	516,802,877
5105	FREDERIKSTED V.I.	3,853	1,511,922	GARY IND.	1,517,255	116,415,211	CHICAGO ILL.	1,600,197	443,703,668
5311	FREERTON, TEXAS	6,874,871	1,414,412,124	PORT ANGELES WASH.	1,472,224	162,121,585	GULFPORT MISS.	799,316	415,523,291
3014	FRIDAY HARBOR WASH.	695,913	5,063,149				HUMACAO PR.	2,922,419	405,993,625

Appendix A

Total Waterborne Foreign Trade (By Port), 1991

Code	Port Name	Tot. Weight	Total Value (\$)	Port Name	Tot. Weight	Total Value	Port Name	Tot. Weight	Total Value
5310	GALVESTON, TEXAS	6,724,375	2,006,209,375	ANACORTES WASH.	1,448,819	171,419,054	TOLEDO OHIO	5,465,210	403,852,072
3905	GARY IND.	1,517,255	116,415,211	KETCHIKAN ALASKA	1,443,596	316,892,431	SUPERIOR WIS.	2,959,833	358,180,497
1602	GEORGETOWN S.C	816,907	57,783,777	BRUNSWICK GA.	1,417,793	1,237,023,580	KETCHIKAN ALASKA	1,443,596	316,892,431
1113	GLOUCESTER CITY N.J.	881,234	1,255,009,844	PORT CANAVERAL	1,361,000	235,182,468	BEAUFORT-MOREHEAD	2,500,999	307,325,427
0404	GLOUCESTER MA.	62,332	95,694,474	SAULT ST. MARIE MICH.	1,369,959	5,739,110,856	CLEVELAND OHIO	2,518,425	299,635,392
2014	GOOD HOPE LA.	1,076,312	99,722,539	SAN JOAQUIN RIVER CA	1,322,339	209,703,477	SAN DIEGO CAL.	420,935	293,078,825
2010	GRAMERCY LA.	54,727,433	7,538,558,022	MARTINEZ CAL.	1,301,962	194,468,882	STOCKTON CAL.	1,178,983	285,304,541
3703	GREEN BAY WIS.	186,323	14,373,998	STOCKTON CAL.	1,178,983	285,304,541	PORTSMOUTH N.H.	2,251,077	278,636,904
4905	GUANICA PR.	17,960	4,582,612	ALBANY N.Y.	1,177,621	244,447,171	PANAMA CITY, FLA.	598,876	285,587,806
4912	GUAYANILLA PR.	3,868,225	581,961,941	PLYMOUTH MA.	1,104,775	86,272,587	FERNANDINA BEACH FL.	258,132	244,486,214
1902	GULFPORT MISS.	766,316	415,523,261	GOOD HOPE LA.	1,076,312	99,722,539	ALBANY N.Y.	1,177,621	244,447,171
0411	HARTFORD	11	56,433	HONOLULU HAWAII	1,022,699	733,757,032	EUREKA CAL.	945,998	236,927,685
3202	HILO HAWAII	32,199	5,306,511	CARQUINEZ STRAIT CAL.	1,017,268	1,824,433,674	PORT CANAVERAL	1,381,000	235,182,468
3201	HONOLULU HAWAII	1,022,699	733,757,032	EUREKA CAL.	945,998	236,927,685	EVERETT WASH.	1,569,946	223,981,005
1408	HOPEWELL VA.	375,810	20,463,735	GLOUCESTER CITY N.J.	881,234	1,255,009,844	SAN JOAQUIN RIVER CAL.	1,322,339	209,703,477
5301	HOUSTON TEX.	60,973,889	24,916,140,465	W. PALM BEACH FL.	868,682	1,378,686,664	PORT LAVACA, TEXAS	4,112,378	196,306,776
4906	HUMACAO PR.	2,922,419	405,963,625	MILWAUKEE WIS.	847,367	117,127,007	MARTINEZ CAL.	1,301,962	194,468,882
4117	HURON OHIO	63,395	7,829,602	GEORGETOWN S.C	816,907	57,783,777	ASHTABULA OHIO	3,968,637	160,804,119
3604	INT. FALLS MINN.	128	17,954	SACRAMENTO CAL.	771,062	143,957,522	ANACORTES WASH.	1,448,819	171,419,054
1803	JACKSONVILLE FL.	7,231,958	7,502,706,241	GULFPORT MISS.	766,316	415,523,261	CHARLOTTE AMALIE V.I.	170,557	167,166,869
4911	JOBOS PR.	2,345,431	528,728,679	OSWEGO N.Y.	706,542	51,488,772	NEW BEDFORD MA	76,029	165,503,585
3101	JUNEAU ALASKA	289,120	62,902,183	FRIDAY HARBOR WASH.	695,913	5,063,149	PORT ANGELES WASH.	1,472,224	162,121,565
3203	KAHULUI HAWAII	49,080	14,486,212	PONCE PR.	648,775	1,178,754,048	PORT MANATEE	635,478	161,537,037
2909	KALAMA WASH.	4,748,556	591,121,696	PORT MANATEE	635,478	161,537,037	MAYAGUEZ PR.	242,317	153,525,860
3102	KETCHIKAN ALASKA	1,443,596	316,892,431	BELFAST, ME.	614,254	72,673,432	BRIDGEPORT	329,813	153,045,586
5202	KEY WEST FL.	726	2,467,012	BUFFALO-NIAGARA FAL.	604,623	70,491,813	DULUTH MINN.	2,575,301	151,592,719
3127	KODIAK ALASKA	321,862	102,975,902	PANAMA CITY, FLA.	598,876	285,587,806	SACRAMENTO CAL.	771,062	143,957,522
2017	LAKE CHARLES, LA.	21,191,580	2,743,420,915	SUNSHINE BAY CAL.	536,811	102,928,960	SKAGWAY ALASKA	502,561	121,755,120
2706	LONG BEACH CAL.	23,385,894	48,878,211,773	SAGINAW-BAY CITY MICH.	532,759	21,317,632	SITKA ALASKA	215,815	117,968,330
2905	LONGVIEW WASH.	5,343,492	968,031,586	OLYMPIA WASH.	506,822	96,921,577	MILWAUKEE WIS.	847,367	117,127,007
4121	LORAIN OHIO	96,927	6,397,819	SKAGWAY ALASKA	502,561	121,755,120	GARY IND.	1,517,256	116,415,211
2704	LOS ANGELES CAL.	22,545,344	57,392,721,408	SEARSPOINT, ME.	467,238	60,885,811	BROWNSVILLE TEX.	299,935	110,486,893
4115	LOUISVILLE KY.	36	215,990	RICHMOND-PETERSBUR	438,917	1,708,114,353	KODIAK ALASKA	321,862	102,975,902
3820	MACQUINAC ISLAND MICH.	65,987	15,750,082	ROCHESTER N.Y.	429,888	17,506,777	SUNSHINE BAY CAL.	536,811	102,928,960
1118	MARCUS HOOK PA.	7,811,810	1,271,257,046	MARQUETTE MICH.	426,557	16,084,967	GOOD HOPE LA.	1,076,312	99,722,539
3702	MARINETTE WIS.	18,376	6,929,364	SAN DIEGO CAL.	420,935	293,078,825	EASTPORT ME.	171,729	96,984,488
3809	MARQUETTE MICH.	426,557	16,084,967	SALEM MA.	408,955	29,771,547	OLYMPIA WASH.	506,822	96,921,577
2820	MARTINEZ CAL.	1,301,962	194,468,882	ASTORIA OREG.	362,397	51,216,712	GLOUCESTER MA.	62,332	95,694,474
0704	MASSENA N.Y.	5	6,106	EL SEGUNDO CAL.	376,729	44,942,334	AVONDALE LA.	213,888	93,071,846
4907	MAYAGUEZ PR.	242,317	153,525,860	HOPEWELL VA.	375,810	20,463,735	PENSACOLA, FLA.	332,026	92,385,507
2006	MEMPHIS TENN.	50	562,265	PABLO BAY CAL.	371,968	61,682,661	PLYMOUTH MA.	1,104,775	86,272,587
5201	MIAMI FL.	3,670,280	9,622,155,193	SAULT ST.MARIE	338,159	22,374,176	ALEXANDRIA VA.	124,854	73,702,505
3701	MILWAUKEE WIS.	847,367	117,127,007	PENSACOLA, FLA.	332,026	92,385,507	BELFAST, ME.	614,254	72,673,432
1901	MOBILE AL.	18,416,626	2,259,870,842	PORT HUENEME CAL.	330,128	1,397,037,203	BUFFALO-NIAGARA FALL.	604,623	70,491,813
2805	MONTEREY CAL.	131,046	15,198,971	BRIDGEPORT	329,813	153,045,586	JUNEAU ALASKA	289,120	62,902,183
2001	MORGAN CITY LA.	42,567	62,035,158	KODIAK ALASKA	321,862	102,975,902	MORGAN CITY LA.	42,567	62,035,158
2719	MORRO CAL.	1	3,453	NEWPORT R.I.	320,222	60,304,552	PABLO BAY CAL.	371,968	61,682,661
3815	MUSKEGON MICH.	160,501	2,462,967	ALPENA MICH.	319,256	5,666,132	SEARSPOINT, ME.	467,238	60,885,811
3204	NAWILWILU HAWAII	7,396	5,721,562	ROGERS CITY MICH.	309,912	5,395,491	NEWPORT R.I.	320,222	60,304,552
0405	NEW BEDFORD MA.	76,029	165,503,585	BROWNSVILLE TEX.	299,935	110,486,893	GEORGETOWN S.C.	816,907	57,783,777
0412	NEW HAVEN	2,009,629	582,525,890	FALL RIVER MA.	279,669	29,506,330	OSWEGO N.Y.	706,542	51,488,772
0413	NEW LONDON	63,768	41,325,542	JUNEAU ALASKA	269,120	62,902,183	ASTORIA OREG.	362,397	51,216,712
2002	NEW ORLEANS LA.	42,570,710	11,443,281,952	SANDUSKY OHIO	268,645	13,407,051	ORANGE TEX.	151,708	45,246,450
1001	NEW YORK N.Y.	41,291,117	49,585,054,614	FERNANDINA BEACH FL.	258,132	244,486,214	EL SEGUNDO CAL.	376,729	44,942,334
1402	NEWPORT NEWS VA.	25,322,960	1,648,117,378	ERIE PA.	253,892	17,247,001	NEW LONDON	63,768	41,325,542
2902	NEWPORT OREG.	151,437	17,531,053	MAYAGUEZ PR.	242,317	153,525,860	SAND POINT ALASKA	136,384	35,342,478
0501	NEWPORT R.I.	320,222	60,304,552	SITKA ALASKA	215,815	117,968,330	ANNAPOLIS MD.	8,049	31,631,874
5901	NORF-NEWPORT NEWS VALUE	39,194,871	17,543,000,478	AVONDALE LA.	213,888	93,071,848	SALEM MA.	408,955	29,771,547
1401	NORFOLK VA.	6,292,274	18,416,186,204	REDWOOD CITY CAL.	206,496	18,224,483	FALL RIVER MA.	279,669	29,506,330
2811	OAKLAND CAL.	131,958	9,160,842	PORT TOWNSEND WAS.	195,967	14,956,246	ALAMEDA CAL.	37,189	28,038,024
0701	OGDENSBURG N.Y.	131,958	9,160,842	EASTPORT ME.	171,729	96,984,488	SAULT ST. MARIE	22,374,176	338,159
3026	OLYMPIA WASH.	506,822	96,921,577	CHARLOTTE AMALIE V.I.	170,557	167,166,869	SAGINAW-BAY CITY MICH.	532,759	21,317,632
2103	ORANGE TEX.	151,708	45,246,450	GREEN BAY WIS.	166,323	14,373,998	HOPEWELL VA.	375,810	20,463,735
0904	OSWEGO N.Y.	706,542	51,488,772	MUSKEGON MICH.	160,501	2,462,967	SABINE TEX.	3,243	19,333,177
2829	PABLO BAY CAL.	371,968	61,682,661	ORANGE TEX.	151,708	45,246,450	CHAMPLAIN-ROUSES P.	141,824	19,134,842
1818	PANAMA CITY, FLA.	598,876	285,587,806	NEWPORT OREG.	151,437	17,531,053	REDWOOD CITY CAL.	206,496	18,224,483
1903	PASCAGOULA MISS.	17,334,283	2,214,148,148	PRESQUE ISLE MICH.	143,231	7,055,666	NEWPORT OREG.	151,437	17,531,053
1105	PAULSBORO N.J.	11,552,965	1,571,296,844	CHAMPLAIN-ROUSES P.	141,824	19,134,842	ROCHESTER N.Y.	429,888	17,506,777
3124	PELICAN ALASKA	194	50,435	SAND POINT ALASKA	136,384	35,342,478	ERIE PA.	253,892	17,247,001

Source: MARAD electronic database (for raw data) ** Data is sorted by Highlighted Column

Appendix A

Total Waterborne Foreign Trade (By Port), 1991

Code	Port Name	Tot. Weight	Total Value (\$)	Port Name	Tot. Weight	Total Value	Port Name	Tot. Weight	Total Value
1819	PENSACOLA, FLA.	332,026	92,385,507	OGDENSBURG N.Y.	131,958	9,160,842	WRANGELL ALASKA	84,045	16,724,110
1101	PHILADELPHIA PA.	21,432,042	5,714,103,044	MONTEREY CAL.	131,046	15,196,971	MARQUETTE MICH.	426,557	16,064,697
0408	PLYMOUTH MA.	1,104,775	66,272,567	ALEXANDRIA VA.	124,854	73,702,505	DALTON CACHE, ALASKA	99,328	16,041,228
3017	POINT ROBERTS WASH.	63	665,014	CONNEAUT OHIO	102,521	4,699,555	MACKINAC ISLAND MICH.	65,967	15,750,082
4908	PONCE PR.	648,775	1,178,754,048	DALTON CACHE, ALASKA	99,328	16,041,228	MONTEREY CAL.	131,046	15,196,971
3007	PORT ANGELES WASH.	1,472,224	162,121,565	LORAIN OHIO	96,927	6,367,819	PORT TOWNSEND WASH.	195,967	14,956,248
2101	PORT ARTHUR TEX.	18,314,697	2,588,255,830	WRANGELL ALASKA	84,045	16,724,110	KAHULUI HAWAII	49,080	14,488,212
1816	PORT CANAVERAL	1,381,000	235,182,468	FERRSBURG MICH.	80,912	3,856,043	GREEN BAY WIS.	166,323	14,373,968
5203	PORT EVERGLADES FL.	4,043,884	4,885,220,106	NEW BEDFORD MA	76,029	165,503,565	VALDEZ, ALASKA	35,524	13,624,847
2713	PORT HUENEME CAL.	330,128	1,397,037,203	MACKINAC ISLAND MIC	65,967	15,750,082	SANDUSKY OHIO	266,645	13,407,051
5313	PORT LAVACA, TEXAS	4,112,378	196,308,779	NEW LONDON	63,768	41,325,542	CROCKETT CAL.	27,164	12,333,670
1821	PORT MANATEE	635,478	161,537,037	HURON OHIO	63,395	7,829,802	OGDENSBURG N.Y.	131,958	9,160,842
2707	PORT SAN LUIS CAL.	232	1,424,964	GLOUCESTER MA.	62,332	95,664,474	CAMBRIDGE MD.	1,685	8,623,153
2005	PORT SULPHUR LA.	2	364,420	E. CHICAGO IND.	60,775	7,680,667	ASHLAND WIS.	11,662	7,902,581
3008	PORT TOWNSEND WASH.	195,967	14,956,248	FORT PIERCE FL.	59,367	4,602,842	HURON OHIO	63,395	7,829,802
0101	PORTLAND ME.	6,558,105	1,078,528,144	SYRACUSE N.Y.	55,140	4,482,716	E. CHICAGO IND.	60,775	7,680,667
2904	PORTLAND OREG.	15,010,208	7,039,938,940	KAHULUI HAWAII	49,080	14,488,212	PRESQUE ISLE MICH.	143,231	7,055,666
0131	PORTSMOUTH N.H.	2,251,077	278,636,664	MORGAN CITY LA.	42,567	62,035,156	BLAINE WASH.	23,377	7,027,413
3842	PRESQUE ISLE MICH.	143,231	7,055,666	ALAMEDA CAL.	37,189	26,038,924	MARINETTE WIS.	18,376	6,929,394
0502	PROVIDENCE R.I.	1,807,560	672,400,232	VALDEZ, ALASKA	35,524	13,624,847	SAVAN-WILM, COTLNTRS	4	6,494,946
0409	PROVINCETOWN MA.	63	38,115	DE TOUR VILLAGE MICH	33,174	680,337	LORAIN OHIO	96,927	6,367,819
3708	RACINE WIS.	1	27,588	HILO HAWAII	32,199	5,396,511	NAWILWILI HAWAII	7,386	5,721,562
2821	REDWOOD CITY CAL.	206,496	16,224,483	CROCKETT CAL.	27,164	12,333,670	ALPENA MICH.	319,256	5,666,132
1407	REEDVILLE VA.	11	521,754	BLAINE WASH.	23,377	7,027,413	HILO HAWAII	32,199	5,396,511
2812	RICHMOND CAL.	4,837,070	2,071,061,613	FAJARDO PR.	21,248	4,078,210	ROGERS CITY MICH.	306,912	5,365,491
1404	RICHMOND-PETERSBURG VA.	438,917	1,706,114,353	CLAYTON N.Y.	20,986	916,069	FRIDAY HARBOR WASH.	665,913	5,083,149
0903	ROCHESTER N.Y.	429,888	17,506,777	ST. LOUIS MO.	19,506	3,450,927	CONNEAUT OHIO	102,521	4,699,555
0121	ROCKLAND ME.	11,627	1,406,233	MARINETTE WIS.	18,376	6,929,394	FORT PIERCE FL.	59,367	4,602,842
3818	ROGERS CITY MICH.	309,912	5,365,491	GUANICA PR.	17,990	4,582,612	GUANICA PR.	17,990	4,582,612
2102	SABINE TEX.	3,243	19,333,177	CAPE CHARLES VA.	16,495	1,015,411	SYRACUSE N.Y.	55,140	4,482,716
2816	SACRAMENTO CAL.	771,062	143,957,522	SELBY CAL.	14,748	3,466,942	FAJARDO PR.	21,248	4,078,210
3804	SAGINAW-BAY CITY MICH.	532,759	21,317,632	ASHLAND WIS.	11,662	7,902,581	FERRSBURG MICH.	80,912	3,856,043
0408	SALEM MA.	408,955	29,771,547	ROCKLAND ME.	11,627	1,406,233	SELBY CAL.	14,748	3,466,942
2501	SAN DIEGO CAL.	420,936	293,078,625	ANNAPOLIS MD.	8,046	31,631,674	ST. LOUIS MO.	19,506	3,450,927
2809	SAN FRANCISCO CAL.	3,808,801	5,814,127,461	NAWILWILI HAWAII	7,386	5,721,562	FAIRBANKS ALASKA	4,238	3,107,327
2828	SAN JOAQUIN RIVER CAL.	1,322,339	209,703,477	CRUZ BAY V.I.	5,993	751,925	KEY WEST FL.	726	2,467,012
4909	SAN JUAN PR.	4,620,736	3,735,116,758	ST. PETERSBURG FL.	5,942	1,147,723	MUSKEGON MICH.	160,501	2,462,967
3125	SAND POINT ALASKA	136,384	35,342,478	ESCANABA MICH.	4,726	93,845	ALEXANDRIA BAY N.Y.	3,482	2,044,649
4107	SANDUSKY OHIO	266,645	13,407,051	FAIRBANKS ALASKA	4,238	3,107,327	FREDERIKSTED V.I.	3,853	1,511,922
3802	SAULT ST. MARIE MICH.	1,369,959	5,739,110,856	FREDERIKSTED V.I.	3,853	1,511,922	PORT SAN LUIS CAL.	232	1,424,964
3803	SAULT ST. MARIE	338,159	22,374,176	ALEXANDRIA BAY N.Y.	3,482	2,044,649	ROCKLAND ME.	11,627	1,406,233
5801	SAVAN-WILM, COTLNTRS	4	6,494,946	SABINE TEX.	3,243	19,333,177	ST. PETERSBURG FL.	5,942	1,147,723
1703	SAVANNAH GA.	9,738,039	10,607,717,389	CAMBRIDGE MD.	1,685	8,623,153	CAPE CHARLES VA.	16,495	1,015,411
0152	SEARSPORT, ME.	467,236	60,865,811	KEY WEST FL.	726	2,467,012	CLAYTON N.Y.	20,986	916,069
3001	SEATTLE WASH.	13,056,634	26,029,280,662	CALAIS ME.	351	247,129	CRUZ BAY V.I.	5,993	751,925
2827	SELBY CAL.	14,748	3,466,942	AGUADILLA PR.	239	196,718	DE TOUR VILLAGE MICH.	33,174	680,337
3115	SITKA ALASKA	215,615	117,968,330	PORT SAN LUIS CAL.	232	1,424,964	POINT ROBERTS WASH.	63	665,014
3103	SKAGWAY ALASKA	502,561	121,755,120	PELICAN ALASKA	194	50,435	MEMPHIS TENN.	50	562,285
4503	ST. LOUIS MO.	19,506	3,450,927	MNT. FALLS MINN.	126	17,954	REEDVILLE VA.	11	521,754
1814	ST. PETERSBURG FL.	5,942	1,147,723	WASHINGTON D.C.	99	507,797	WASHINGTON D.C.	99	507,797
2013	ST. ROSE LA.	13,161,678	2,023,730,244	POINT ROBERTS WASH.	63	665,014	PORT SULPHUR LA.	2	364,420
2810	STOCKTON CAL.	1,178,983	285,304,541	PROVINCETOWN MA.	63	38,115	CALAIS ME.	351	247,129
2831	SUNSHIN BAY CAL.	536,811	102,928,990	MEMPHIS TENN.	50	562,285	LOUISVILLE KY.	36	215,960
3606	SUPERIOR WIS.	2,959,833	358,180,497	LOUISVILLE KY.	36	215,960	AGUADILLA PR.	239	196,718
0908	SYRACUSE N.Y.	55,140	4,482,716	CAPE VINCENT N.Y.	36	30,742	ESCANABA MICH.	4,726	93,845
3002	TACOMA WASH.	12,907,678	23,524,906,571	REEDVILLE VA.	11	521,754	VICKSBURG MISS.	4	78,108
1801	TAMPA FL.	19,041,403	2,617,623,778	HARTFORD	11	56,433	HARTFORD	11	56,433
5306	TEXAS CITY	21,454,803	2,964,794,851	BANGOR ME.	6	12,799	PELICAN ALASKA	194	50,435
4105	TOLEDO OHIO	5,465,210	403,652,072	BAR HARBOR ME.	6	31,480	PROVINCETOWN MA.	63	38,115
3107	VALDEZ, ALASKA	35,524	13,624,847	MASSENA N.Y.	5	6,108	BAR HARBOR ME.	6	31,480
2908	VANCOUVER WASH.	4,127,590	695,833,672	SAVAN-WILM, COTLNTR	4	6,494,946	CAPE VINCENT N.Y.	36	30,742
2015	VICKSBURG MISS.	4	78,108	VICKSBURG MISS.	4	78,108	RACINE WIS.	1	27,588
5204	W. PALM BEACH FL.	666,682	1,378,686,664	PORT SULPHUR LA.	2	364,420	BORTON MA.	1	20,986
5401	WASHINGTON D.C.	99	507,797	MORRO CAL.	1	3,453	MNT. FALLS MINN.	126	17,954
1103	WILMINGTON DEL.	5,508,956	3,296,914,237	BORTON MA.	1	20,986	BANGOR ME.	6	12,799
1501	WILMINGTON N.C.	2,724,338	3,067,281,567	RACINE WIS.	1	27,588	MASSENA N.Y.	5	6,108
3105	WRANGELL ALASKA	84,045	16,724,110	NORF-NEWPORT NEWS VALUE		3,064,715,678	MORRO CAL.	1	3,453
Total in 1000 tons		851,616	405,581,994						

Total U.S. Waterborne Foreign Trade Tonnage, 1991

code	U.S. Ports total trade in 1000 tons		1991 Trade 1000 ton/yr		General Cargo		Non-petroleum liquids		Petroleum oil & products		Bulk Grain		Dry Bulk		
	Total	Imports	Total	Imports	Total	Imports	Total	Imports	Total	Imports	Total	Exports	Total	Imports	
0101	6,558	113	6,445	0	1,506	60	1,447	24	4,844	0	4,844	0	84	54	30
0102	0	0	0	0	0	0	0	0	1	1	0	0	35	33	2
0103	172	142	30	0	136	108	28	0	0	0	0	0	0	0	0
0112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0121	12	11	1	1	12	11	1	0	1,085	1,085	0	0	903	270	633
0131	2,251	284	1,967	238	263	25	238	0	585	585	0	0	25	25	25
0132	614	4	610	4	4	4	0	0	351	351	0	0	115	0	115
0152	487	12	475	9	21	12	9	45	6,342	6,260	1	1	754	337	417
0401	8,409	577	7,832	1,110	1,267	157	1,110	45	28	28	0	0	28	28	28
0404	62	3	60	31	34	3	31	0	0	0	0	0	0	0	0
0405	76	2	74	47	48	2	47	0	0	0	0	0	0	0	0
0406	1,105	1	1,105	11	12	1	11	0	1,105	1,105	0	0	55	55	55
0407	280	1	279	0	280	0	0	0	213	213	0	0	0	0	0
0408	409	0	409	0	0	0	0	0	409	409	0	0	0	0	0
0409	330	0	330	0	0	0	0	0	147	147	0	0	0	0	0
0410	0	15	315	168	183	15	168	52	147	147	0	0	347	204	143
0411	0	0	0	0	0	0	0	0	1,328	87	1,241	0	0	0	0
0412	2,010	300	1,710	273	283	9	273	9	0	0	0	0	0	0	0
0413	64	4	60	51	55	4	51	0	319	319	0	0	301	204	96
0501	320	0	320	1	0	0	1	0	1,277	1,277	0	0	119	94	25
0502	1,808	212	1,596	233	230	7	233	0	0	0	0	0	0	0	0
0701	132	107	25	13	13	13	0	0	0	0	0	0	0	0	0
0704	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0706	0	0	0	0	0	0	0	0	127	127	0	0	3	3	3
0708	3	3	0	0	0	0	0	0	0	0	0	0	9	9	9
0712	142	139	3	3	7	4	3	0	0	0	0	0	21	21	21
0714	21	21	244	7	9	2	7	0	229	103	126	0	269	256	13
0801	605	361	244	0	1	1	0	0	0	0	0	0	421	270	150
0803	430	271	159	55	1	1	0	0	287	31	256	0	363	58	305
0804	707	91	616	55	56	1	55	0	45	45	0	0	10	10	10
0806	55	55	0	0	0	0	0	0	0	0	0	0	0	0	0
0808	41,291	6,977	34,314	7,664	12,206	4,522	7,664	519	24,286	566	23,722	60	4,218	1,831	2,388
0901	1,178	404	774	44	65	21	44	77	430	430	0	0	307	84	223
1002	21,432	1,121	20,311	1,872	336	1,536	6	2	15,638	66	15,571	2	3,915	715	3,200
1101	8,542	211	8,332	677	188	479	2	0	7,822	1	7,821	0	41	12	29
1102	5,509	525	4,984	1,569	426	1,142	0	0	3,323	66	3,257	0	617	32	585
1103	11,553	171	11,382	33	33	13	20	0	11,350	98	11,252	0	1,445	952	483
1105	2,128	985	1,133	513	555	43	513	0	128	0	128	0	5	3	2
1107	881	69	812	603	667	64	603	0	209	1	208	0	8	8	8
1113	7,812	242	7,570	172	247	75	172	42	7,515	159	7,356	0	3	3	3
1118	8	8	0	0	5	5	0	0	0	0	0	0	0	0	0
1301	2	2	0	0	2	0	0	0	0	0	0	0	0	0	0
1302	21,315	12,908	8,407	2,458	4,323	1,865	2,458	98	877	77	800	1,990	14,027	9,027	5,000
1303	39,195	34,953	4,242	5,284	3,077	2,217	180	82	367	24	343	1,135	32,219	30,636	1,584
1401	25,323	22,106	3,217	628	258	371	10	9	2,667	0	2,667	0	22,018	21,839	179
1402	439	249	180	142	325	183	142	0	16	0	16	0	114	66	48
1404	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0
1406	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1407	376	351	25	0	0	0	0	0	236	2	236	5	376	351	25
1408	2,724	925	1,800	446	1,323	875	446	3	55	0	55	0	877	40	837
1501	2,501	2,020	481	367	319	48	367	281	301	10	291	177	2,079	1,700	378
1511	7,912	5,317	2,595	1,698	5,272	3,575	1,698	62	301	0	301	3	2,100	1,540	560
1601	817	80	737	88	88	88	88	0	0	0	0	0	729	0	729
1602	1,418	488	920	581	478	80	581	0	0	0	0	87	749	17	732
1701	9,738	5,344	4,394	5,002	2,603	2,389	2,389	64	860	16	844	103	3,710	2,598	1,112
1703	19,041	13,986	5,056	1,753	997	756	0	0	247	1	246	33	17,008	12,987	4,021
1801	7,232	2,401	4,831	2,526	1,549	977	18	2	1,247	127	1,119	3	3,448	717	2,731
1803	258	238	20	246	227	19	2	1	1	1	1	0	10	9	0
1805	6	6	0	0	0	0	0	0	453	60	393	19	678	175	503
1814	1,381	257	1,124	230	230	22	208	0	0	0	0	0	0	0	0
1816	598	490	109	589	490	109	109	0	0	0	0	0	0	0	0
1818	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Total U.S. Waterborne Foreign Trade Tonnage, 1991

Appendix A

U.S. Ports total trade In 1000 tons	1991 Trade 1000 ton/yr		General Cargo		Non-petroleum liquids		Petroleum oil & products		Bulk Grain		Dry Bulk	
	Total Exports	Imports	Total Exports	Imports	Total Exports	Imports	Total Exports	Imports	Total Exports	Imports	Total Exports	Imports
3010 ANACORTES WASH.	1,449	1,088	361	6	1	3	815	461	355	623	623	1
3014 FRIDAY HARBOR WASH.	696	693	2	1	4	1	0	0	0	691	690	1
3017 POINT ROBERTS WASH.	0	0	0	0	0	0	0	0	0	502	502	2
3026 OLYMPIA WASH.	507	503	4	4	1	4	0	0	0	266	264	2
3101 JUNEAU ALASKA	269	267	2	3	3	0	34	34	0	1,103	1,097	6
3102 KETCHIKAN ALASKA	1,444	1,399	44	307	302	5	58	58	0	440	423	16
3103 SKAGWAY ALASKA	503	423	79	5	5	0	0	0	0	18	16	16
3105 WRANGELL ALASKA	84	84	0	67	67	0	6	6	0	73	73	12
3106 DALTON CACHE, ALASKA	98	93	6	20	20	0	14	14	0	12	12	2
3107 VALDEZ, ALASKA	36	14	21	9	2	8	0	0	0	2	2	11
3111 FAIRBANKS ALASKA	4	4	2	2	2	2	0	0	0	72	62	11
3115 SITKA ALASKA	216	205	11	144	144	0	0	0	0	135	135	97
3124 PELICAN ALASKA	0	0	2	2	2	43	2,028	1,796	231	2,209	2,112	308
3125 SAND POINT ALASKA	136	136	402	1,704	1,661	31	31	31	13	314	314	25
3126 ANCHORAGE ALASKA	5,971	5,569	402	8	8	0	421	328	83	368	57	7
3127 KODIAK ALASKA	322	322	560	223	75	147	7	0	7	25	38	5
3201 HONOLULU HAWAII	1,023	463	32	7	2	6	0	0	0	45	45	7
3202 HILO HAWAII	32	2	30	4	4	4	0	0	0	5	5	5
3203 KAHULUI HAWAII	49	38	11	2	2	2	0	0	0	1,956	1,728	12
3204 NAWILIWILI HAWAII	7	7	273	40	20	20	7	0	19	12	12	12
3601 DULUTH MINN.	2,575	2,302	12	0	0	0	29	0	125	1,108	1,096	12
3602 ASHLAND WIS.	0	0	0	0	0	0	0	0	0	462	7	455
3604 INT. FALLS MINN.	0	0	370	281	77	204	0	0	29	1,542	1,416	125
3608 SUPERIOR WIS.	2,960	2,590	543	113	25	86	0	0	0	272	272	0
3701 MILWAUKEE WIS.	847	304	18	18	18	18	17	0	17	125	125	125
3702 MARINETTE WIS.	166	15	151	24	15	9	0	0	0	0	0	0
3703 GREEN BAY WIS.	0	0	0	0	0	0	126	45	82	0	0	0
3708 RACINE WIS.	2,280	596	1,684	781	139	642	5	2	2	0	0	0
3801 DETROIT MICH.	1,370	147	1,223	1,046	12	1,033	55	5	51	529	89	440
3802 SAULT ST. MARIE MICH.	338	262	76	3	0	3	3	3	3	5	5	5
3803 SAULT ST. MARIE MICH.	533	88	444	0	0	0	0	0	0	427	427	158
3804 SAGINAW-BAY CITY MICH.	5	5	5	0	0	0	0	0	0	161	3	16
3808 ESCANABA MICH.	427	427	0	0	0	0	0	0	0	310	294	16
3809 MARQUETTE MICH.	161	3	158	0	0	0	66	66	66	33	33	33
3815 MUSKEGON MICH.	310	294	16	0	0	0	5	5	5	143	142	0
3818 ROGERS CITY MICH.	33	33	66	1	0	0	0	0	0	315	299	16
3819 DE TOUR VILLAGE MICH.	66	142	1	0	0	0	0	0	0	81	81	81
3820 MACKINAC ISLAND MICH.	143	142	1	0	0	0	0	0	0	223	223	615
3842 PRESQUE ISLE MICH.	319	289	21	0	0	0	141	5	136	43	9	34
3843 ALPENA MICH.	81	81	598	8	8	591	52	33	18	1,336	90	1,245
3844 FERRISBURG MICH.	1,600	235	1,365	17	17	0	91	52	47	2,068	25	2,044
3901 CHICAGO ILL.	61	27	34	181	164	17	0	0	0	4,380	3,907	473
3904 E. CHICAGO IND.	1,517	255	1,262	399	35	364	0	0	0	248	31	217
3905 GARY IND.	2,518	93	2,425	142	0	142	6	6	6	237	217	20
4101 CLEVELAND OHIO	5,465	4,765	700	6	0	0	0	0	0	3,989	3,633	356
4105 TOLEDO OHIO	254	31	222	0	0	0	0	0	0	98	98	98
4106 ERIE PA.	267	217	50	0	0	0	0	0	0	93	3	90
4107 SANDUSKY OHIO	3,989	3,633	356	4	4	0	0	0	0	63	63	63
4108 ASHTABULA OHIO	103	103	0	0	0	0	0	0	0	18	18	18
4109 CONNEAUT OHIO	0	0	63	0	0	0	0	0	0	0	0	0
4115 LOUISVILLE KY.	63	0	63	0	0	0	0	0	0	0	0	0
4117 HURON OHIO	97	3	94	4	4	4	0	0	0	0	0	0
4121 LORAIN OHIO	20	19	1	1	1	1	0	0	0	0	0	0
4503 ST. LOUIS MO.	0	0	0	0	0	0	0	0	0	0	0	0

Total U.S. Waterborne Foreign Trade Tonnage, 1991

U.S. Ports total trade code In 1000 tons	1991 Trade 1000 ton/yr		General Cargo		Non-petroleum liquids		Petroleum oil & products		Bulk Grain		Dry Bulk	
	Total	Exports	Total	Imports	Total	Exports	Total	Imports	Total	Exports	Total	Imports
	Imports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports
4801 AGUADILLA PR.	0	0	0	0	0	0	9	0	9	0	5	8
4804 FAJARDO PR.	21	12	7	0	0	0	2,861	122	2,739	0	11	3
4805 GUANICA PR.	18	3	7	0	6	0	0	0	0	74	14	60
4806 HUMACAO PR.	2,922	183	61	2	161	0	168	19	149	0	228	2
4807 MAYAGUEZ PR.	242	16	243	50	193	12	2,831	58	2,773	0	498	80
4808 PONCE PR.	649	71	1,324	421	904	148	2,201	396	1,805	20	5	15
4809 SAN JUAN PR.	4,821	569	77	77	52	64	3,656	302	3,354	0	97	4
4811 JOBOS PR.	2,345	477	86	44	52	17	7	6	0	1	4	83
4812 GUAYANILLA PR.	3,866	350	73	52	21	5	0	0	0	84	1	83
5101 CHARLOTTE AMALIE V.I.	171	63	1	1	1	0	0	0	0	5	5	5
5102 CRUZ BAY V.I.	6	6	1	145	16	11	9,636	452	9,184	0	1,504	405
5104 CHRISTIANSTED V.I.	11,312	1,003	161	0	0	0	0	0	0	0	0	1,099
5105 FREDERIKSTED V.I.	4	0	0	0	0	3	0	0	0	219	130	89
5201 MIAMI FL.	3,670	2,040	2,988	1,781	1,207	25	369	48	321	70	69	1
5202 KEY WEST FL.	1	1	1	1	0	24	1,862	28	1,834	16	16	0
5203 PORT EVERGLADES FL.	4,044	936	1,464	858	606	246	92	7	85	8	8	0
5204 W. PALM BEACH FL.	669	529	308	256	52	18	0	0	0	0	0	0
5205 FORT PIERCE FL.	59	3	19	1	1	1,493	0	0	0	7,313	7,163	150
5301 HOUSTON TEX.	60,974	24,308	13,297	8,967	4,300	173	704	789	30,296	86	65	23
5306 TEXAS CITY	21,455	2,798	1,041	476	71	59	59	114	19,530	2,092	2,092	420
5310 GALVESTON, TEXAS	6,724	3,491	787	544	253	27	6	21	2,440	161	312	303
5311 FREEPORT, TEXAS	6,875	1,051	726	696	30	47	34	13	5,557	649	1,996	3,988
5312 CORPUS CHRISTI, TEXAS	32,291	5,018	79	70	9	3	0	0	24,930	1,874	107	107
5313 PORT LAVACA, TEXAS	4,112	178	0	0	0	0	0	0	0	0	0	0
5401 WASHINGTON D.C.	0	0	0	0	0	0	0	0	0	0	0	0
5402 ALEXANDRIA VA.	125	0	125	0	0	0	0	0	0	0	0	0
5601 SAVANNAH, GA.	0	0	0	0	0	0	0	0	0	0	0	0
5601 NORFOLK NEWS VAL	0	0	0	0	0	0	0	0	0	0	0	0
Total (million tons)	852	403	160	86	74	6	328	33	285	100	98	2
										257	183	74

Notes: Values are rounded to the nearest 1000 ton, a zero indicates tonnage less than 500
 Source of raw data: US DOT- MARAD 1991 Harmonized commodities trade data

Total U.S. Waterborne Foreign Trade Value, 1991

Appendix A

Code	1991 Trade 1000\$Yr		General Cargo		Non-petroleum liquids		Petroleum oil & products		Bulk Grain		Dry Bulk	
	Total	Imports	Total	Imports	Total	Imports	Total	Imports	Total	Imports	Total	Imports
3010 ANACORTES WASH.	171,419	59,884	55,305	52,342	217	0	115,897	55,921	0	0	150	0
3014 FRIDAY HARBOR WASH.	5,063	4,631	388	4,631	0	0	0	0	0	0	44	105
3017 POINT ROBERTS WASH.	665	0	665	0	0	0	0	0	0	0	0	0
3026 OLYMPIA WASH.	96,972	29,935	91,683	67,387	0	0	5,238	5,238	0	0	0	0
3101 JUNEAU ALASKA	62,902	228	62,745	62,676	0	0	25	7,089	0	0	132	132
3102 KETCHIKAN ALASKA	316,892	12,245	308,647	308,491	60	0	7,089	12,778	0	0	1,253	1,253
3103 KETCHIKAN ALASKA	121,755	22,988	105,377	98,767	4	0	12,778	12,778	0	0	3,595	3,595
3105 WRANGELL ALASKA	16,724	234	16,659	16,480	0	0	65	65	0	0	0	0
3106 DALTON CACHE, ALASKA	16,041	1,178	14,863	14,863	0	0	1,178	1,178	0	0	0	0
3107 VALDEZ, ALASKA	13,625	10,530	10,759	3,095	0	0	2,866	2,866	0	0	580	580
3111 FAIRBANKS ALASKA	3,107	3,096	2,516	12	0	0	0	0	0	0	78	78
3115 SITKA ALASKA	117,968	117,891	117,891	117,891	0	0	0	0	0	0	0	0
3124 PELICAN ALASKA	50	50	0	0	0	0	50	0	0	0	0	0
3125 SAND POINT ALASKA	35,342	0	35,342	0	0	0	0	0	0	0	0	0
3126 ANCHORAGE ALASKA	2,319,684	102,418	2,048,162	1,992,785	4,815	4,815	262,985	38,484	0	0	3,712	3,712
3127 KODIAK ALASKA	102,976	102,976	102,976	102,976	0	0	0	0	0	0	0	0
3201 HONOLULU HAWAII	733,757	595,073	654,175	100,379	817	324	65,893	19,183	1,712	1,034	10,127	10,049
3202 HILO HAWAII	5,397	3,278	3,023	2,119	0	0	0	0	0	0	2,374	2,374
3203 KAHALUI HAWAII	14,488	9,310	14,081	9,310	0	0	0	0	0	0	407	407
3204 MAWILI HAWAII	5,722	5,722	5,088	5,088	0	0	0	0	0	0	634	634
3601 DULUTH MINN.	151,593	13,858	86,103	7,256	78,847	0	495	480	1,709	58,885	4,401	4,401
3602 ASHLAND WIS.	7,903	7,903	0	0	0	0	0	0	0	0	7,903	7,903
3604 INT. FALLS MINN.	18	18	18	18	0	0	0	0	0	0	0	0
3608 SUPERIOR WIS.	359,180	128,893	178,588	112,628	43	43	2,732	2,732	13,115	163,328	375	375
3701 MILWAUKEE WIS.	117,127	86,888	77,821	54,535	93	93	41	41	26,811	26,811	12,260	12,260
3702 MARINETTE WIS.	6,929	6,929	6,929	6,929	0	0	0	0	0	0	0	0
3703 GREEN BAY WIS.	14,374	9,378	9,560	4,966	0	0	2,449	2,449	0	0	2,326	2,326
3708 RACINE WIS.	28	28	28	28	0	0	0	0	0	0	0	0
3801 DETROIT MICH.	1,471,178	1,379,840	1,409,909	1,328,745	1,295	1,131	26,487	18,177	108	108	33,379	31,787
3802 SAULT ST. MARIE MICH.	5,739,111	5,731,043	5,715,685	5,708,047	142	113	804	404	21	21	22,479	22,479
3803 SAULT ST. MARIE	12,610	9,784	9,901	1,083	0	0	12,268	11,342	0	0	205	205
3804 SAGINAW-BAY CITY MICH.	21,318	16,755	4,562	0	0	0	334	334	0	0	94	94
3808 ESCANABA MICH.	94	94	0	0	0	0	0	0	0	0	0	0
3809 MARQUETTE MICH.	16,085	2	16,085	2	0	0	0	0	0	0	1,611	1,611
3815 MUSKOGON MICH.	2,463	1,611	852	852	7	7	0	0	0	0	270	270
3819 ROGERS CITY MICH.	5,395	270	5,118	5,118	0	0	0	0	0	0	0	0
3819 DE TOUR VILLAGE MICH.	680	680	680	680	0	0	0	0	0	0	0	0
3820 MACONAC ISLAND MICH.	15,750	15,750	6,977	88	0	0	15,750	15,750	0	0	79	79
3942 PRESQUE ISLE MICH.	7,056	167	6,889	88	0	0	1,021	1,021	0	0	289	289
3943 ALPENA MICH.	5,666	1,310	4,356	4,356	0	0	0	0	0	0	3,855	3,855
3944 FERRBURGO MICH.	3,855	3,855	0	0	11,025	11,025	33,732	32,963	0	0	24,500	21,435
3901 CHICAGO ILL.	443,704	391,615	374,447	328,193	0	0	0	769	0	0	1,170	1,170
3904 E. CHICAGO IND.	7,681	1,181	6,511	12	0	0	0	0	0	0	34,847	34,847
3905 GARY IND.	116,415	57,063	81,568	22,215	0	0	0	0	0	0	64,346	64,346
4101 CLEVELAND OHIO	299,635	278,395	211,331	13,325	75	75	10,558	2,643	0	0	55,763	55,763
4105 TOLEDO OHIO	403,652	120,253	222,069	53,374	0	0	14,489	6,683	4,433	106,897	3,006	3,006
4106 ERIE PA.	17,407	11,826	14,241	8,819	0	0	0	0	0	0	212	212
4107 SANDUSKY OHIO	13,407	3,881	9,526	9,526	0	0	0	0	0	0	63,091	63,091
4108 ASHTABULA OHIO	180,804	63,528	117,276	438	182	182	0	0	3,669	3,669	0	0
4109 CONNEAUT OHIO	4,670	4,670	4,670	4,670	0	0	0	0	0	0	0	0
4115 LOUISVILLE KY.	216	216	34	34	0	0	0	0	0	0	0	0
4117 HURON OHIO	7,830	7,830	330	193	0	0	0	0	7,500	7,500	0	0
4121 LORAIN OHIO	6,398	6,293	2,672	2,568	0	0	0	0	0	0	0	0
4503 ST. LOUIS MO.	3,451	900	1,285	900	0	0	2,156	2,156	0	0	3,725	3,725

Appendix A

Total U.S. Waterborne Foreign Trade Value, 1991

Code	U.S. Ports total trade		1991 Trade 1000\$/yr		General Cargo		Non-petroleum liquids		Petroleum oil & products		Bulk Grain		Dry Bulk				
	In 1000\$	Total	Exports	Imports	Total	Exports	Imports	Total	Exports	Imports	Total	Exports	Imports	Total	Exports	Imports	
4901 AGUADILLA PR.	199	199	199	0	199	199	0	0	0	0	0	0	0	0	0	0	
4904 FALMADO PR.	4,076	1,961	2,115	0	2,143	2,009	134	0	1,933	1,827	106	0	0	0	0	0	
4905 GUANACA PR.	4,583	3,379	2,474	0	3,379	2,474	0	0	387,554	355,704	31,850	0	0	1,204	1,204	0	
4906 HUMACAO PR.	405,994	18,440	18,440	0	18,440	18,440	0	0	204	204	0	461	0	2,229	2,229	0	
4907 MAYAGUEZ PR.	153,526	150,534	2,992	0	147,543	2,788	0	300	32,149	23,114	9,035	2,555	2,533	8,936	8,936	0	
4908 PONCE PR.	1,178,754	736,948	441,906	0	683,981	428,558	0	18,285	35,956	15,281	20,675	4,949	2,269	30,454	30,409	45	
4909 SAN JUAN PR.	3,735,117	1,885,122	1,739,995	0	1,590,946	1,715,806	0	25,952	364,136	112,512	247,624	0	0	0	0	0	
4911 JOCOS PR.	528,727	367,916	160,810	0	48,226	3,853	0	3,781	545,180	482,226	62,954	47	47	7,883	7,883	0	
4912 GUAYANILLA PR.	591,982	503,417	78,565	0	11,867	15,578	0	1,408	2,007	207	1,800	785	69	18,928	18,928	0	
5101 CHARLOTTE AMALIE V.I.	167,169	67,424	68,745	0	131,368	38,969	0	8	1,483,019	1,398,962	84,056	41	41	65	65	0	
5102 CRUZ BAY V.I.	752	752	0	0	679	679	0	8	0	0	0	0	0	108,956	39,967	68,990	
5104 CHRISTIANSTED V.I.	1,648,562	1,460,881	188,681	0	56,060	20,568	0	1,486	41,869	39,382	2,487	41	41	3	3	0	
5105 FRIEDERIKSBEST V.I.	1,512	1,489	23	0	1,050	1,038	13	10	41,869	28,099	13,770	22,407	641	17,925	16,710	1,216	
5201 MIAMI FL.	9,622,155	3,612,339	6,009,816	0	9,486,820	3,543,631	0	53,134	41,869	28,099	13,770	22,407	641	66,932	66,673	259	
5202 KEYWEST FL.	2,497	189	2,308	0	2,497	189	0	0	348,701	342,844	5,757	9,047	3,828	8,007	7,921	87	
5203 PORT EVERGLADES FL.	4,885,220	2,872,303	2,012,917	0	4,390,673	2,396,408	0	69,867	111,584	108,061	3,523	5,433	50	86	86	0	
5204 W. PALM BEACH FL.	1,378,687	433,309	945,378	0	1,214,163	313,863	0	3,584	5,104,039	4,139,268	964,771	813,924	12,189	83,980	72,533	11,447	
5205 FORT PIERCE FL.	4,603	2,845	1,758	0	4,512	2,559	0	0	2,471,556	2,265,689	205,868	7,700	1,755	11,988	23	11,965	
5301 HOUSTON TEX.	24,918,140	10,625,883	14,292,257	0	18,288,857	6,152,809	0	627,341	2,471,556	2,265,689	205,868	7,700	1,755	9,536	6,856	2,680	
5306 TEXAS CITY	2,964,785	2,325,280	639,515	0	408,754	28,079	0	64,797	300,629	269,597	31,032	217,565	0	1,404	1,272	132	
5310 GALVESTON, TEXAS	2,606,269	1,197,314	1,408,956	0	2,056,471	902,594	0	22,088	765,319	761,621	3,698	66,919	0	237,759	100,299	137,459	
5311 FRESTON, TEXAS	1,414,412	868,547	547,866	0	552,413	98,680	0	28,357	3,319,084	2,992,297	326,787	65,610	0	146,362	128,102	20,260	
5312 CORPUS CHRISTI, TEXAS	3,968,309	3,125,155	841,154	0	342,208	32,527	0	1,648	0	0	0	0	0	0	0	0	
5313 PORT LAVACA, TEXAS	198,308	144,766	51,541	0	47,927	16,666	0	0	0	0	0	0	0	0	0	0	
5401 WASHINGTON D.C.	508	174	334	0	508	174	0	0	0	0	0	0	0	0	0	0	
5402 ALEXANDRIA VA.	73,703	73,522	181	0	73,703	73,522	0	0	0	0	0	0	0	0	0	0	
5801 SAVANNAH, COITLWTRS	6,495	411	6,084	0	6,495	411	0	0	0	0	0	0	0	0	0	0	
5901 NON-NEWPORT NEWS VALUE	3,094,716	0	3,094,716	0	3,094,716	0	0	0	46,263	40,820	5,443	13,640	272	5,875	5,117	758	
Total Million US \$	465,582	290,522	175,060	0	396,196	242,205	153,981	3,607	2,108	1,499	46,263	40,820	5,443	13,640	272	13,368	5,875

Notes: Values are rounded to the nearest \$1000, a zero indicates value less than \$500
Source of raw data: US DOT- MARAD 1991 Harmonized commodities trade data

Principal Ports of the United States

CY 1989 by Total Tonnage

Rank	Port Name	Total	Domestic	Foreign	Imports	Exports
1	New Orleans, LA	177,522,833	108,092,611	69,430,222	19,023,530	50,406,692
2	New York, NY	148,590,443	94,291,078	54,299,365	47,121,436	7,177,929
3	Houston, TX	125,583,156	62,059,763	63,523,393	39,760,085	23,763,308
4	Valdez Harbor, AK	95,436,011	95,425,052	10,959	7,379	3,580
5	Baton Rouge, LA	82,399,896	48,133,860	34,266,036	19,918,683	14,347,353
6	Corpus Christi, TX	60,478,858	22,772,616	37,706,242	32,659,319	5,046,923
7	Long Beach, CA	54,807,692	31,241,280	23,566,412	10,647,491	12,918,921
8	Norfolk Harbor, VA	52,055,188	10,342,760	41,712,428	5,589,966	36,122,462
9	Tampa Harbor, FL	49,280,790	28,163,821	21,116,969	5,655,572	15,461,397
10	Los Angeles, CA	47,272,062	22,518,507	24,753,555	13,492,146	11,261,409
11	Baltimore Hrbr., MD	44,883,667	14,532,097	30,351,570	16,120,868	14,230,702
12	Texas City, TX	41,272,401	19,168,660	22,103,741	20,170,819	1,932,922
13	Lake Charles, LA	40,813,125	17,095,761	23,717,364	18,802,458	4,914,906
14	Duluth-Supr., MN	40,802,541	33,763,865	7,038,676	856,864	6,181,812
15	Mobile, AL	39,980,262	21,526,657	18,453,605	6,623,013	11,830,592
16	Philadelphia, PA	36,060,212	13,155,307	22,904,905	19,988,993	2,915,912
17	Pittsburgh, PA	33,416,374	33,416,374	0	0	0
18	Beaumont, TX	31,668,257	21,050,046	10,618,211	7,163,459	3,454,752
19	Pascagoula, MS	31,545,792	12,288,028	19,257,764	16,091,204	3,166,560
20	Port Arthur, TX	31,127,913	11,488,984	19,638,929	16,626,216	3,012,713
21	Portland, OR	30,029,747	11,984,498	18,045,249	3,074,417	14,970,832
22	Marcus Hook, PA	29,903,912	15,057,174	14,846,738	14,713,661	133,077
23	St. Louis, MO, Port of Metro	26,037,347	26,037,347	0	0	0
24	Richmond, CA	25,103,335	18,792,293	6,311,042	2,529,195	3,781,847
25	Chicago, IL	23,445,821	19,204,573	4,241,248	3,162,718	1,078,530
26	Tacoma Hrbr., WA	22,450,622	4,506,907	17,943,715	5,107,113	12,836,602
27	Newport News, VA	21,851,818	2,568,239	19,283,579	709,238	18,574,341
28	Seattle, WA	21,763,451	7,229,522	14,533,929	5,630,496	8,903,433
29	Paulsboro, NJ	21,445,977	8,471,206	12,974,771	12,677,262	297,509
30	Detroit, MI	20,700,867	16,897,152	3,803,715	2,624,925	1,178,790
31	Boston, MA, Port Of	18,989,416	6,844,998	12,144,418	11,585,226	559,192
32	Huntington, WV	15,707,397	15,707,397	0	0	0
33	Freeport, TX	15,176,018	8,471,820	6,704,198	5,376,422	1,327,776
34	Indiana Harbor, IN	15,054,899	14,385,047	669,852	621,562	48,290
35	Jacksonville, FL	15,002,231	8,135,398	6,866,833	4,428,026	2,438,807
36	Toledo Harbor, OH	14,805,833	8,384,414	6,421,419	970,320	5,451,099
37	Cleveland, OH	14,687,619	10,698,352	3,989,267	3,314,756	674,511
38	Port Everglades, FL	14,684,674	9,854,936	4,829,738	3,917,978	911,760
39	Lorain Harbor, OH	14,568,175	14,553,284	14,891	5,504	9,387
40	San Juan, PR	13,873,968	9,085,277	4,788,691	4,125,695	662,996
41	Anacortes, WA	13,169,491	10,455,086	2,714,405	1,589,281	1,125,124
42	Savannah, GA	12,830,333	2,438,113	10,392,220	4,992,710	5,399,510
43	Presque Isle, MI	12,155,757	8,582,975	3,572,782	34	3,572,748
44	Memphis, TN	11,843,550	11,843,274	276	276	0
45	Galveston, TX	11,837,611	4,164,886	7,672,725	2,131,671	5,541,054
46	Cincinnati, OH	11,556,801	11,556,801	0	0	0
47	Honolulu, HI	10,360,134	9,351,725	1,008,409	815,645	192,764
48	Ashtabula, OH	10,322,455	5,969,575	4,352,880	452,622	3,900,258
49	Oakland, CA	9,999,668	2,655,793	7,343,875	2,864,707	4,479,168
50	Charleston, SC	9,633,632	3,312,629	6,321,003	2,491,663	3,829,340
51	New Haven, CT	9,479,968	5,929,885	3,550,083	3,201,478	348,605
52	New Castle, DE	9,296,968	4,999,663	4,297,305	4,254,640	42,665
53	Calcite, MI	9,238,094	7,371,818	1,866,276	0	1,866,276
54	Taconite, MN	8,991,042	8,991,042	0	0	0
55	Conneaut Hrbr., OH	8,889,518	3,683,364	5,206,154	69,088	5,137,066
56	Stoneport, MI	8,887,828	7,124,244	1,763,584	119,818	1,643,766

Principal Ports CY 1989 by Total Tonnage

Rank	Port Name	Total	Domestic	Foreign	Imports	Exports
57	Burns Wtwy Hrbr, IN	8,695,318	6,374,801	2,320,517	1,820,180	500,337
58	Gary Harbor, IN	8,305,159	8,214,476	90,683	11,448	79,235
59	Portland, ME	8,181,682	2,078,950	6,102,732	6,036,676	66,056
60	Longview, WA	8,023,341	1,461,972	6,561,369	884,069	5,677,300
61	Guayanilla Hrbr, PR	7,871,536	2,484,392	5,387,144	4,826,336	560,808
62	Providence, RI	7,857,006	4,230,421	3,626,585	3,148,231	478,354
63	Louisville, KY	7,660,322	7,660,322	0	0	0
64	Camden-Glytr., NJ'	7,624,759	3,530,105	4,094,654	2,608,728	1,485,926
65	Barbers Pt. Oahu, HI	7,374,418	3,516,592	3,857,826	3,709,321	148,505
66	Albany, NY	7,325,397	5,456,600	1,868,797	1,526,849	341,948
67	El Segundo, CA	7,111,524	4,621,244	2,490,280	2,387,471	102,809
68	Kalama, WA	7,012,855	772,423	6,240,432	47,739	6,192,693
69	Coos Bay, OR	6,985,814	2,310,197	4,675,617	3,167	4,672,450
70	Escanaba, MI	6,767,196	6,763,633	3,563	3,563	0
71	Wilmington, NC	6,498,662	3,261,161	3,237,501	2,275,293	962,208
72	St. Paul, MN	6,289,835	6,289,835	0	0	0
73	Mount Vernon, IN	6,214,838	6,214,838	0	0	0
74	Morehead City, NC	6,128,965	3,374,033	2,754,932	622,038	2,132,894
75	Everett Hrbr-Snoho, WA	6,035,548	3,989,906	2,045,642	312,696	1,732,946
76	St. Clair, MI	5,756,194	5,756,194	0	0	0
77	Grays Harbor, WA	5,348,920	2,268,385	3,080,535	44,603	3,035,932
78	Fall River, MA	4,803,201	4,601,997	201,204	201,204	0
79	Matagorda Ship Ch., TX	4,715,349	1,236,658	3,478,691	3,274,974	203,717
80	Miami, FL	4,492,466	1,159,263	3,333,203	1,721,972	1,611,231
81	Sandusky Hrbr., OH	4,485,328	904,623	3,580,705	9,918	3,570,787
82	Northville, NY	3,758,922	1,387,408	2,371,514	2,345,525	25,989
83	Wilmington, DE	3,738,484	1,262,916	2,475,568	2,190,747	284,821
84	Penn Manor, PA	3,645,099	344,501	3,300,598	3,202,512	98,086
85	Port Dolomite, MI	3,635,510	3,582,669	52,841	0	52,841
86	Portsmouth, NH	3,476,279	1,209,074	2,267,205	1,952,478	314,727
87	Vancouver, WA	3,459,325	1,502,571	1,956,754	651,445	1,305,309
88	Port Inland, MI	3,458,287	3,458,287	0	0	0
89	San Francisco, CA	3,359,280	1,524,265	1,835,015	1,008,913	826,102
90	Nashville, TN	3,348,754	3,348,754	0	0	0
91	Vicksburg, MS	3,238,320	3,238,251	69	63	6
92	Jobos Harbor, PR	3,161,548	0	3,161,548	2,459,223	702,325
93	Victoria, TX	3,142,614	3,142,614	0	0	0
94	Port Angeles, WA	2,836,504	855,337	1,981,167	248,944	1,732,223
95	Port Jefferson, NY	2,801,235	2,488,989	312,246	307,496	4,750
96	Bridgeport Hrbr., CT	2,646,349	2,145,748	500,601	497,861	2,740
97	Fairport Hrbr., OH	2,634,271	2,167,574	466,697	72,877	393,820
98	Palm Beach, FL	2,519,026	1,155,168	1,363,858	804,979	558,879
99	Panama City, FL	2,495,307	1,933,751	561,556	54,105	507,451
100	Alpena, MI	2,397,107	2,263,847	133,260	20,316	112,944
101	Milwaukee, WI	2,379,208	1,345,662	1,033,546	541,226	492,320
102	Port Canaveral, FL	2,316,535	1,011,198	1,305,337	1,019,364	285,973
103	Richmond, VA	2,295,162	1,858,700	436,462	189,527	246,935
104	Ketchikan, AK	2,293,741	1,269,427	1,024,314	85,102	939,212
105	Oregon Slough, OR	2,284,496	639,252	1,645,244	349,916	1,295,328
106	Kahului, Maui, HI	2,278,516	2,255,114	23,402	12,888	10,514
107	Chattanooga, TN	2,262,827	2,262,827	0	0	0
108	Anchorage, AK	2,252,857	1,852,449	400,408	280,385	120,023
109	Buffalo, NY	2,145,188	1,733,575	411,613	378,995	32,618
110	Stockton, CA	2,137,592	63,844	2,073,748	786,073	1,287,675
111	Greenville, MS	2,121,521	2,121,521	0	0	0
112	Harbor Island, TX	2,063,640	67,481	1,996,159	1,996,159	0

Principal Ports CY 1989 by Total Tonnage

Rank	Port Name	Total	Domestic	Foreign	Imports	Exports
113	Brunswick, GA	2,029,882	216,937	1,812,945	1,196,873	616,072
114	Asharoken, L.I., NY	2,016,791	496,482	1,520,309	1,512,213	8,096
115	Kansas City, MO, Port of	1,890,059	1,890,059	0	0	0
116	Muskegon, MI	1,876,856	1,844,651	32,205	6,830	25,375
117	Biloxi Harbor, MS	1,868,761	1,868,761	0	0	0
118	Guntersville, AL	1,858,005	1,858,005	0	0	0
119	Bellingham, WA	1,769,318	1,148,988	620,330	281,427	338,903
120	Humboldt Bay, CA	1,762,627	956,864	805,763	35,057	770,706
121	San Diego, CA	1,741,166	803,661	937,505	729,056	208,449
122	Pensacola, FL	1,656,897	1,308,491	348,406	17,989	330,417
123	Las Marcas Hrbr., RQ	1,574,456	1,574,456	0	0	0
124	Hilo Hrbr., HI	1,569,142	1,537,851	31,291	31,291	0
125	Green Bay, WI	1,546,870	1,372,830	174,040	114,244	59,796
126	Minneapolis, MN	1,522,622	1,522,622	0	0	0
127	Monroe Harbor, MI	1,489,864	1,402,746	87,118	77,140	9,978
128	Helena, AR	1,459,808	1,459,808	0	0	0
129	Skagway, AK	1,444,558	28,342	1,416,216	298,165	1,118,051
130	Hopewell, VA	1,368,751	880,304	488,447	22,291	466,156
131	Brownsville, TX	1,360,964	951,702	409,262	271,507	137,755
132	Chester, PA	1,358,959	419,599	939,360	725,352	214,008
133	Salem, MA	1,339,719	1,012,636	327,083	327,083	0
134	Grand Haven, MI	1,333,190	983,018	350,172	96,645	253,527
135	Trenton, NJ	1,327,472	1,327,472	0	0	0
136	Sacramento, CA	1,294,744	353,865	940,879	141,054	799,825
137	New London, CT	1,249,657	1,038,305	211,352	205,404	5,948
138	Olympia Hrbr., WA	1,196,385	489,777	706,608	2,143	704,465
139	Ludington, MI	1,179,200	1,176,996	2,204	0	2,204
140	Pine Orchard, CT	1,167,637	1,167,637	0	0	0
141	Hempstead, NY	1,130,707	1,130,707	0	0	0
142	Astoria, OR	1,124,303	175,713	948,590	4,440	944,150
143	Bucksport Harbor, ME	1,091,702	344,439	747,263	720,864	26,399
144	Searsport, ME	1,083,166	437,052	646,114	606,096	40,018
145	Nawiliwili, HI	1,038,452	1,031,177	7,275	7,275	0
146	Port Huron, MI	1,034,052	387,038	647,014	381,569	265,445
147	Buffington, IN	994,695	914,328	80,367	21,132	59,235
148	Charlotte, FL	955,446	955,446	0	0	0
149	Redwood City, CA	944,682	514,274	430,408	143,163	287,245
150	Marblehead, OH	912,141	870,574	41,567	0	41,567

Appendix B

-PFI RECORD LAYOUT
(WITH SUPPORT FILES)

<u>DATA ELEMENT</u> <u>NAME</u>	<u>FIELD</u> <u>SIZE</u>	<u>SUPPORT</u> <u>TABLE</u>	<u>SUPPORT</u> <u>KEY</u>
OUT-RECORD.			
OUT-TE-ID.	PIC X(5).	CHANNEL	CH-ID
OUT-CHANNEL.	PIC X(4).		
OUT-TERMINAL-COD	PIC X.	O-Ocean R-River	
OUT-OCEAN-RIVER	PIC X(25).	US PORT	PT-ID
OUT-PORT-NAME	PIC X(4).	"	"
OUT-PORT-CODE	PIC X.	"	"
OUT-COASTAL-REGION	PIC X(6).		
OUT-AS-OF-DATE	PIC X(31).		
OUT-TERMINAL-NAME	PIC X(20).		
OUT-TERMINAL-STREET	PIC X(15).		
OUT-TERMINAL-CITY	PIC X(2).	GENCODES	ST-ID
OUT-TERMINAL-STATE	PIC X(9).		
OUT-TERMINAL-ZIP	PIC X(31).		
OUT-OWNER-NAME	PIC X(20).		
OUT-OWNER-STREET	PIC X(15).		
OUT-OWNER-CITY	PIC X(2).		
OUT-OWNER-STATE	PIC X(5).		
OUT-OWNER-ZIP	PIC X.	GENCODES	TOT-ID
OUT-OWNERSHIP-TYPE	PIC X(4).		
OUT-PLANNING-ORDER			
OUT-OPERATOR-NAME	PIC X(40).		
OCCURS 4 TIMES			
OUT-LATITUDE.			
OUT-LAT-1	PIC 9(2).		
OUT-LAT-2	PIC 9(2).		
OUT-LAT-3	PIC 9(2).		
OUT-LONGITUDE.			
OUT-LONG-1	PIC X(3).		
OUT-LONG-2	PIC X(2).		
OUT-LONG-3	PIC X(2).		
OUT-LONG-4	PIC X(1).		
OUT-TERMINAL-USE-TYPE	PIC X(1).	TERMUSE	TUT-ID
OCCURS 5 TIMES	PIC 9(3).		
OUT-CHANNEL-DEPTH	PIC X(2).	GENCODES	RN-ID
OUT-RIVER	PIC 9(3)V9.		
OUT-RIVER-MILE	PIC X.		
OUT-BANK-LOCATION	PIC 9(5).		
OUT-CONTAINERS-HOLDING	PIC X.	GENCODES	CST-ID
OUT-TE-CON-STACK-CAP	PIC 9(3).		
OUT-TE-REEFER-ELEC-OUTLETS	PIC X(2).		
FILLER	PIC 9(3).		
OUT-FLEET-AREA1-BARGES			

PFI RECORD LAYOUT
(WITH SUPPORT FILES)

<u>DATA ELEMENT</u> <u>NAME</u>	<u>FIELD</u> <u>SIZE</u>	<u>SUPPORT</u> <u>TABLE</u>	<u>SUPPORT</u> <u>KEY</u>
OUT-FLEET-AREA2-BARGES	PIC 9(3).		
OUT-PIER-NAME	PIC X(20).		
OUT-TYPE-VESSEL-SERVED OCCURS 15 TIMES	PIC X.	VTYPPORT	VTP-ID
OUT-LARGEST-DWT	PIC 9(3).		
OUT-COMMODITY-TYPE OCCURS 5 TIMES	PIC X.	COMMTYPE	CT-ID
OUT-PIER-TYPE	PIC X.	PIER	PIT-ID
OUT-PIER-CONSTR-MATERIAL1	PIC X.	GENCODES	CMT-ID
OUT-PIER-CONSTR-MATERIAL2	PIC X.	"	"
OUT-PIER-CONSTR-MATERIAL3	PIC X.	"	"
FILLER	PIC X(2).		
OUT-APRON-CONSTR-MATERIAL1	PIC X.	GENCODES	CMT-ID
OUT-APRON-CONSTR-MATERIAL2	PIC X.	"	"
OUT-APRON-CONSTR-MATERIAL3	PIC X.	"	"
OUT-FACE-END-LENGTH	PIC 9(4).		
OUT-SIDE1-LENGTH	PIC 9(4).		
OUT-SIDE2-LENGTH	PIC 9(4).		
OUT-FACE-END-DEPTH	PIC X(3).		
OUT-SIDE1-DEPTH	PIC 9(3).		
OUT-SIDE2-DEPTH	PIC 9(3).		
OUT-FACE-END-VESSELS	PIC 9.		
OUT-SIDE1-VESSELS	PIC 9.		
OUT-SIDE2-VESSELS	PIC 9.		
OUT-FACE-END-HEIGHT	PIC 9(2).		
OUT-SIDE1-HEIGHT	PIC 9(2).		
OUT-SIDE2-HEIGHT	PIC 9(2).		
OUT-FACE-END-WIDTH	PIC 9(3).		
OUT-SIDE1-WIDTH	PIC 9(3).		
OUT-SIDE2-WIDTH	PIC 9(3).		
OUT-FACE-END-DECK-CAP	PIC 9(4).		
OUT-SIDE1-DECK-CAP	PIC 9(4).		
OUT-SIDE2-DECK-CAP	PIC 9(4).		
OUT-FACE-END-ACCESS	PIC X.	GENCODES	MA-ID
OUT-SIDE1-ACCESS	PIC X.	"	"
OUT-SIDE2-ACCESS	PIC X.	"	"
FILLER	PIC X(2).		
OUT-BERTH OCCURS 9 TIMES.			
OUT-FACE-END-BERTH-NAME	PIC X(6).		
OUT-FACE-END-BERTH-LENGTH	PIC X(4).		
OUT-FACE-END-BERTH-TYPE	PIC X.	GENCODES	BT-ID
OUT-SIDE1-BERTH-NAME	PIC X(6).		
OUT-SIDE1-BERTH-LENGTH	PIC X(4).		
OUT-SIDE2-BERTH-NAME	PIC X(6).		
OUT-SIDE2-BERTH-LENGTH	PIC X(4).		

PFI RECORD LAYOUT
(WITH SUPPORT FILES)

<u>DATA ELEMENT</u> <u>NAME</u>	<u>FIELD</u> <u>SIZE</u>	<u>SUPPORT</u> <u>TABLE</u>	
OUT-BE-POSITION	PIC X.	1 - 9	
OUT-BE-LOCATION	PIC X.	F=FACE 1=SIDE1 2=SIDE2	
OUT-SIDE-BERTH-TYPES OCCURS 6 TIMES.			
OUT-SIDE1-BERTH-TYPE	PIC X.	GENCODES	BT-
OUT-SIDE2-BERTH-TYPE	PIC X.	"	"
FILLER	PIC X(2).		
OUT-GENCARST			
OCCURS 4 TIMES.			
OUT-GCS-ACCESS	PIC X.	GENCODES	MA-ID
OUT-GCS-ACRES	PIC X(3).		
OUT-GCS-COMM-STORED	PIC X.	COMMTYPE	CT-ID
OUT-GCS-AREA-CONSTR-MATERIAL.			
OUT-GCS-CONSTR-MATERIAL1	PIC X.	GENCODES	CMT-ID
OUT-GCS-CONSTR-MATERIAL2	PIC X.	"	"
OUT-GCS-CONSTR-MATERIAL3	PIC X.	"	"
OUT-GCS-LOAD-CAP-1ST-FLOOR	PIC X(4).		
OUT-GCS-LOAD-CAP-2ND-FLOOR	PIC X(4).		
OUT-GCS-REEFER-STORAGE	PIC X(4).		
OUT-GCS-STACK-HEIGHT	PIC X(2).		
OUT-GCS-TOTAL-STORAGE-AREA	PIC X(4).		
FILLER	PIC X(2).		
OUT-DRYBLKST			
OCCURS 3 TIMES.			
OUT-DBS-ACCESS	PIC X.	GENCODES	MA-ID
OUT-DBS-COMM-STORED	PIC X.	COMMTYPE	CT-ID
OUT-DBS-CONSTR-MATERIAL.			
OUT-DBS-CONSTR-MATERIAL1	PIC X.	GENCODES	CMT-ID
OUT-DBS-CONSTR-MATERIAL2	PIC X.	"	"
OUT-DBS-CONSTR-MATERIAL3	PIC X.	"	"
OUT-DBS-INSIDE-SQFT	PIC X(4).		
OUT-DBS-INSIDE-TONS	PIC X(4).		
OUT-DBS-OUTSIDE-ACRES	PIC X(3).		
OUT-DBS-OUTSIDE-TONS	PIC X(5).		
FILLER	PIC X(2).		
OUT-LIQBLKST OCCURS 3 TIMES.			
OUT-LBS-ACCESS	PIC X.		
OUT-LBS-CAPACITY	PIC X(5).		
OUT-LBS-COMM-STORED	PIC X.	COMMTYPE	CT-ID
OUT-LBS-CONSTR-MATERIAL.			
OUT-LBS-CONSTR-MATERIAL1	PIC X.	GENCODES	CMT-ID
OUT-LBS-CONSTR-MATERIAL2	PIC X.	"	"
OUT-LBS-CONSTR-MATERIAL3	PIC X.	"	"
OUT-LBS-MEASURE-UNIT	PIC X.	"	UM-ID
OUT-LBS-SURFACE	PIC X.	"	LTL-ID

PFI RECORD LAYOUT
(WITH SUPPORT FILES)

<u>DATA ELEMENT</u> <u>NAME</u>	<u>FIELD</u> <u>SIZE</u>	<u>SUPPORT</u> <u>TABLE</u>	
OUT-LBS-TANKS	PIC X(3).		
FILLER	PIC X(2).		
OUT-BLKGRNST			
OCCURS 3 TIMES.			
OUT-BGS-ACCESS	PIC X.	GENOCDES	MA-IL
OUT-BGS-CAPACITY	PIC X(5).		
OUT-BGS-COMM-STORED	PIC X.	COMMTYPE	CT-ID
OUT-BGS-CONSTR-MATERIAL.			
OUT-BGS-CONSTR-MATERIAL1	PIC X.	GENCODES	CMT-ID
OUT-BGS-CONSTR-MATERIAL2	PIC X.	"	"
OUT-BGS-CONSTR-MATERIAL3	PIC X.	"	"
FILLER	PIC X(2).		
OUT-GENCAREQ			
OCCURS 7 TIMES.			
OUT-GCE-FIXED-MOVABLE	PIC X.	F-Fixed M-Movable	
OUT-GCE-HANDLING-RATE	PIC X(3).		
OUT-GCE-HEIGHT	PIC X(3).		
OUT-GCE-LIFT-TONS	PIC X(3).		
OUT-GCE-MAX-CONT-SIZE.			
OUT-GCE-MAX-CONT-SIZE-1	PIC X.	GENCODES	CS-ID
OUT-GCE-MAX-CONT-SIZE-2	PIC X.	"	"
OUT-GCE-MAX-CONT-SIZE-3	PIC X.	"	"
OUT-GCE-MAX-CONT-STACK	PIC X(2).		
OUT-GCE-OUTREACH-FEET	PIC X(3).		
OUT-GCE-PIECES	PIC X(2).		
OUT-GCE-TYPE	PIC X.	GENCODES	HET-ID
OUT-GC-RAILCARS-HOLDING	PIC X(5).		
OUT-GC-REMARK	PIC X(65).		
FILLER	PIC X(2).		
OUT-DRYBLKEQ			
OCCURS 3 TIMES.			
OUT-DBE-DISCHARGE-RATE	PIC X(5).		
OUT-DBE-FIXED-MOVABLE	PIC X.	F-Fixed M-Movable	
OUT-DBE-HEIGHT	PIC X(3).		
OUT-DBE-LIFT-TONS	PIC X(5).		
OUT-DBE-LOAD-RATE	PIC X(5).		
OUT-DBE-OUTREACH-FEET	PIC X(3).		
OUT-DBE-PIECES	PIC X(2).		
OUT-DBE-TYPE	PIC X.	GENCODES	HET-ID
OUT-DB-RAILCARS-HOLDING	PIC 9(5).		
OUT-DB-REMARK	PIC X(65).		
FILLER	PIC X(2).		
OUT-LIQBLKEQ OCCURS 3 TIMES.			
OUT-LBE-DISCHARGE-RATE	PIC X(4).		

PFI RECORD LAYOUT
(WITH SUPPORT FILES)

<u>DATA ELEMENT</u> <u>NAME</u>	<u>FIELD</u> <u>SIZE</u>	<u>SUPPORT</u> <u>TABLE</u>	
OUT-LBE-HANDLING-METHOD	PIC X.		
OUT-LBE-LOAD-RATE	PIC X(4).		
OUT-LBE-MEASURE-UNIT	PIC X.	GENCODES	LS.
OUT-LBE-SERVICE	PIC X.	"	
OUT-LB-RAILCARS-HOLDING	PIC 9(5).		
OUT-LB-REMARK	PIC X(65).		
FILLER	PIC X(2).		
OUT-BLKGRNEQ			
OCCURS 3 TIMES.			
OUT-BGE-DISCHARGE-RATE	PIC X(3).		
OUT-BGE-FIXED-MOVABLE	PIC X.	F-Fixed M-Movable	
OUT-BGE-HEIGHT	PIC X(2).		
OUT-BGE-LOAD-RATE	PIC X(3).		
OUT-BGE-OUTREACH-FEET	PIC X(3).		
OUT-BGE-PIECES	PIC X(2).		
OUT-BGE-TYPE	PIC X.	GENCODES	HET-ID
OUT-BG-RAILCARS-HOLDING	PIC 9(5).		
OUT-BG-REMARK	PIC X(58).		
OUT-GENERAL-REMARK1	PIC X(65).		
OUT-GENERAL-REMARK2	PIC X(65).		
FILLER	PIC X(2).		

SUPPORT FILE NAMES AND MEANINGS

BT - BERTH TYPE
CMT - CONSTRUCTION MATERIAL
CS - CONTAINER SIZE
CST - CONTAINER STORAGE
HET - HANDLING EQUIPMENT TYPE
LHM - LIQUID HANDLING METHOD
LST - LIQUID SERVICE TYPE
LTL - LIQUID TANK LOCATION
MA - MODAL ACCESS
PIT - PIER TYPE
RN - RIVER NAME
ST - STATE
TOT - TERMINAL OWNERSHIP TYPE
UM - UNIT OF MEASURE
TUT - TERMINAL USE TYPE
CT - COMMODITY TYPE
VTP - VESSEL TYPE PORT

RAIL-CAR-HOLDINGS = The total of all Rail Car Holdings

Summary Of Port Statistics

Port Name	ST	No. of Channels	No. of Terminals
	AK	3.00	3.00
ANCHORAGE ALASKA	AK	7.00	11.00
DALTON CACHE, ALASKA	AK	1.00	4.00
JUNEAU ALASKA	AK	1.00	8.00
KETCHIKAN ALASKA	AK	2.00	11.00
KODIAK ALASKA	AK	1.00	6.00
PETERSBURG ALASKA	AK	1.00	5.00
SITKA ALASKA	AK	1.00	7.00
SKAGWAY ALASKA	AK	1.00	2.00
VALDEZ, ALASKA	AK	1.00	8.00
WRANGELL ALASKA	AK	1.00	4.00
	AL	26.00	72.00
INLAND RIVER	AL	1.00	56.00
MOBILE AL.	AL	3.00	32.00
	AS	32.00	56.00
MEMPHIS TENN.	TN	1.00	4.00
CROCKETT CAL.	CA	1.00	8.00
EL SEGUNDO CAL.	CA	1.00	3.00
EUREKA CAL.	CA	2.00	10.00
LONG BEACH CAL.	CA	3.00	32.00
LOS ANGELES CAL.	CA	2.00	45.00
MONTEREY CAL.	CA	1.00	1.00
MORRO CAL.	CA	3.00	3.00
OAKLAND CAL.	CA	1.00	17.00
PABLO BAY CAL.	CA	1.00	2.00
PORT HUENEME CAL.	CA	2.00	2.00
PORT SAN LUIS CAL.	CA	1.00	1.00
REDWOOD CITY CAL.	CA	1.00	5.00
RICHMOND CAL.	CA	1.00	15.00
SACRAMENTO CAL.	CA	1.00	7.00
SAN DIEGO CAL.	CA	1.00	8.00
SAN FRANCISCO CAL.	CA	1.00	16.00
SAN JOAQUIN RIVER CAL.	CA	3.00	7.00
STOCKTON CAL.	CA	1.00	11.00
SUISUN BAY CAL.	CA	1.00	2.00
VENTURA CAL.	CA	5.00	4.00
BRIDGEPORT	CT	1.00	4.00
NEW HAVEN	CT	1.00	10.00
NEW LONDON	CT	2.00	6.00
WILMINGTON DEL	DE	4.00	11.00
FERNANDINA BEACH FL.	FL	1.00	3.00
FORT PIERCE FL.	FL	1.00	1.00
JACKSONVILLE FL.	FL	1.00	25.00
MIAMI FL.	FL	1.00	10.00
PANAMA CITY, FLA.	FL	1.00	6.00
PENSACOLA, FLA.	FL	1.00	4.00
PORT CANAVERAL	FL	1.00	8.00
PORT EVERGLADES FL.	FL	1.00	16.00
PORT ST. JOE, FLA.	FL	1.00	2.00
ST. PETERSBURG FL.	FL	1.00	1.00
TAMPA FL.	FL	2.00	53.00
W. PALM BEACH FL.	FL	1.00	12.00
BRUNSWICK GA.	GA	1.00	7.00
SAVANNAH GA.	GA	1.00	32.00
	HI	2.00	2.00
HILO HAWAII	HI	2.00	5.00
HONOLULU HAWAII	HI	2.00	21.00
KAHULUI HAWAII	HI	1.00	3.00
NAWILIWILI HAWAII	HI	2.00	2.00
	IA	45.00	38.00
	ID	1.00	4.00
	IL	115.00	65.00

Summary Of Port Statistics

Port Name	ST	No. of Channels	No. of Terminals
CHICAGO ILL.	IL	5.00	64.00
INLAND RIVER	IL	3.00	65.00
PEORIA ILL.	IL	7.00	15.00
PORT EVERGLADES FL.	IL	1.00	1.00
ST. LOUIS MO.	IL	1.00	15.00
	IN	17.00	15.00
E. CHICAGO IND.	IN	2.00	13.00
GARY IND.	IN	2.00	9.00
LOUISVILLE KY.	IN	1.00	3.00
OWENSBORO, KENTUCKY	IN	2.00	23.00
	KA	5.00	8.00
	KY	81.00	69.00
CINCINNATI OHIO	OH	1.00	1.00
LOUISVILLE KY.	KY	4.00	28.00
OWENSBORO, KENTUCKY	KY	5.00	18.00
	LA	28.00	38.00
AVONDALE LA.	LA	3.00	4.00
BATON ROUGE LA.	LA	14.00	34.00
DESTREHAN LA.	LA	2.00	4.00
GOOD HOPE LA.	LA	6.00	11.00
GRAMERCY LA.	LA	11.00	17.00
INLAND RIVER	LA	5.00	7.00
LAKE CHARLES, LA.	LA	1.00	37.00
NEW ORLEANS LA.	LA	13.00	82.00
ST. ROSE LA.	LA	3.00	4.00
BOSTON MA.	MA	5.00	41.00
FALL RIVER MA.	MA	1.00	7.00
NEW BEDFORD MA	MA	1.00	4.00
BALTIMORE MD.	MD	2.00	67.00
PORTLAND ME.	ME	2.00	10.00
SEARSPORT, ME	ME	1.00	4.00
DETROIT MICH.	MI	6.00	55.00
ESCANABA MICH.	MI	1.00	3.00
FERRSBURG MICH.	MI	1.00	2.00
GRAND HAVEN MICH.	MI	1.00	1.00
MUSKEGON MICH.	MI	2.00	12.00
SAGINAW-BAY CITY MICH.	MI	6.00	28.00
SAULT ST. MARIE	MI	1.00	4.00
	MN	12.00	28.00
DULUTH MINN.	MN	2.00	23.00
MINNEAPOLIS-ST. PAUL M	MN	2.00	37.00
SILVER BAY MINN.	MN	2.00	1.00
	MO	67.00	38.00
ST. LOUIS MO.	MO	5.00	33.00
	MS	9.00	22.00
GREENVILLE MISS.	MS	1.00	15.00
GULFPORT MISS.	MS	1.00	7.00
INLAND RIVER	MS	1.00	1.00
PASCAGOULA MISS.	MS	2.00	16.00
VICKSBURG MISS.	MS	2.00	20.00
	NB	6.00	5.00
OMAHA NEBR.	NE	5.00	9.00
BEAUFORT-MOREHEAD CI	NC	1.00	7.00
WILMINGTON N.C	NC	2.00	22.00
PORTSMOUTH N.H	NH	2.00	9.00
	NJ	5.00	6.00
CAMDEN N.J.	NJ	6.00	19.00
GLOUCESTER CITY N.J.	NJ	1.00	4.00
NEW YORK N.Y.	NY	13.00	97.00
PAULSBORO N.J.	NJ	5.00	12.00
PHILADELPHIA PA.	PA	1.00	1.00
WILMINGTON DEL	DE	1.00	1.00

Summary Of Port Statistics

Port Name	ST	No. of Channels	No. of Terminals
	NY	16.00	42.00
ALBANY N.Y.	NY	2.00	16.00
BUFFALO-NIAGARA FALLS	NY	2.00	22.00
CAPE VINCENT N.Y.	NY	1.00	1.00
NEW YORK N.Y.	NY	19.00	53.00
OGDENSBURG N.Y.	NY	1.00	1.00
OSWEGO N.Y.	NY	1.00	6.00
ROCHESTER N.Y.	NY	1.00	1.00
	OH	57.00	81.00
ASHTABULA OHIO	OH	1.00	7.00
CINCINNATI OHIO	OH	1.00	1.00
CLEVELAND OHIO	OH	1.00	35.00
CONNEAUT OHIO	OH	1.00	5.00
FAIRPORT OHIO	OH	1.00	7.00
HURON OHIO	OH	1.00	4.00
LORAIN OHIO	OH	1.00	4.00
PITTSBURG, OHIO	OH	1.00	1.00
SANDUSKY OHIO.	OH	1.00	2.00
TOLEDO OHIO	OH	1.00	23.00
	OK	12.00	23.00
	OR	13.00	14.00
ASTORIA OREG.	OR	2.00	7.00
COOS BAY OREG.	OR	4.00	23.00
INLAND RIVER	OR	2.00	2.00
LONGVIEW WASH.	OR	1.00	2.00
NEWPORT OREG.	OR	2.00	6.00
PORTLAND OREG.	OR	2.00	47.00
	PA	61.00	51.00
CHESTER PA.	PA	3.00	4.00
ERIE PA.	PA	1.00	3.00
PHILADELPHIA PA.	PA	7.00	53.00
PITTSBURGH, PA.	PA	16.00	46.00
	PR	2.00	2.00
GUANICA PR.	PR	1.00	1.00
GUAYANILLA PR.	PR	1.00	1.00
HUMACAO PR.	PR	1.00	1.00
MAYAGUEZ PR.	PR	1.00	1.00
PONCE PR.	PR	1.00	2.00
SAN JUAN PR.	PR	1.00	14.00
FALL RIVER MA.	RI	1.00	3.00
PROVIDENCE R.I	RI	1.00	14.00
CHARLESTON S.C.	SC	4.00	18.00
GEORGETOWN S.C	SC	1.00	5.00
	TN	38.00	33.00
CHATTANOOGA TENN.	TN	3.00	16.00
KNOXVILLE, TENN.	TN	2.00	10.00
MEMPHIS TENN.	TN	5.00	35.00
NASHVILLE TENN.	TN	3.00	20.00
BEAUMONT TEX.	TX	1.00	29.00
BROWNSVILLE TEX.	TX	1.00	14.00
CORPUS CHRISTI TEX.	TX	4.00	5.00
CORPUS CHRISTI, TEXAS	TX	2.00	36.00
FREEPORT TEX.	TX	2.00	4.00
FREEPORT, TEXAS	TX	1.00	13.00
GALVESTON TEX.	TX	1.00	1.00
GALVESTON, TEXAS	TX	1.00	21.00
HOUSTON TEX.	TX	1.00	101.00
ORANGE TEX.	TX	1.00	1.00
PORT ARTHUR TEX.	TX	1.00	8.00
PORT LAVACA, TEXAS	TX	1.00	1.00
SABINE TEX.	TX	1.00	1.00
TEXAS CITY	TX	1.00	35.00

Summary Of Port Statistics

Port Name	ST	No. of Channels	No. of Terminals
ALEXANDRIA VA.	VA	1.00	1.00
HOPEWELL VA.	VA	1.00	1.00
NEWPORT NEWS VA.	VA	2.00	8.00
NORFOLK VA.	VA	2.00	32.00
RICHMOND-PETERSBURG	VA	1.00	1.00
CHARLOTTE AMALIE V.I.	VI	1.00	1.00
CHRISTIANSTED V.I.	VI	2.00	1.00
FREDERIKSTED V.I.	VI	1.00	1.00
*	WA	20.00	26.00
ABERDEEN-HOQUIAM WA	WA	4.00	10.00
ANACORTES WASH.	WA	2.00	4.00
BELLINGHAM WASH.	WA	2.00	6.00
EVERETT WASH.	WA	1.00	7.00
FRIDAY HARBOR WASH.	WA	1.00	1.00
KALAMA WASH.	WA	1.00	4.00
LONGVIEW WASH.	WA	2.00	14.00
OLYMPIA WASH.	WA	1.00	1.00
PORT ANGELES WASH.	WA	1.00	8.00
PORT TOWNSEND WASH.	WA	1.00	2.00
S. BEND-RAYMOND WASH	WA	1.00	2.00
SEATTLE WASH.	WA	12.00	46.00
TACOMA WASH.	WA	6.00	24.00
VANCOUVER WASH.	WA	2.00	8.00
*	WI	14.00	23.00
ASHLAND WIS.	WI	2.00	5.00
GREEN BAY WIS.	WI	1.00	17.00
MANITOWOC WIS.	WI	1.00	7.00
MARINETTE WIS.	WI	1.00	3.00
MILWAUKEE WIS.	WI	2.00	35.00
RACINE WIS.	WI	2.00	3.00
SHEBOYGAN WIS.	WI	1.00	3.00
SUPERIOR WIS.	WI	1.00	20.00
*	WV	90.00	61.00

* Name of city is not available.

FOREIGN TRADE SHIPPING - IMPORTS 1990
Description of Fields for Record Layout ...TF-3-90
TM381 SUMMARY TAPE

<u>FIELD NUMBER</u>	<u>FIELD NAME</u>	<u>DESCRIPTION OF FIELD</u>
1	TYPE PROCESSING CODE	One-position field identifying type of processing: 6 = Regular 7 = Intransit
2	TYPE SERVICE CODE	One-position field identifying type of vessel service: 1 = Liner 4 = Tanker 5 = Tramp
3-4	DISTRICT CODE	Two-position field for U.S. District (See Schedule D).
5-6	PORT CODE	Two-position field for U.S. Port (See Schedule D).
7	NOT USED	Not used, field is blank.
8-12	FOREIGN PORT CODE	Five-position field identifying foreign port of exportation. (See Schedule K).
13-18	HS	Six-position field containing commodity classification code.
19-22	NOT USED	Not used, field is blank.
23-26	COUNTRY OF ORIGIN	Four-position field identifying country of origin (See Schedule C).
27-30	COUNTRY OF DESTINATION	Four-position field identifying country of destination (See Schedule C). This field contains data only for intransit records; type processing code = 7, otherwise, field is blank.
31-33	TRADE AREA	Three-position field identifying a trade region based upon the foreign port (See Schedule R).

<u>FIELD NUMBER</u>	<u>FIELD NAME</u>	<u>DESCRIPTION OF FIELD</u>
34	COASTAL DISTRICT	One-position field identifying a region of the U.S.: 1 = North Atlantic 2 = South Atlantic 3 = Gulf 4 = South Pacific 5 = North Pacific 6 = Great Lakes
35-44	AGGREGATE CHARGES	Ten-position field containing freight and insurance cost in dollars.
45-56	VALUE	Twelve-position field containing transaction value in dollars of the merchandise being imported.
57-68	SHIPPING WEIGHT	Twelve-position field containing the weight of the merchandise in kilograms.
69-70	DISTRICT OF ENTRY	Two-position field identifying the district where the merchandise entered the U.S. (See Schedule D).
71-72	PORT OF ENTRY	Two-position field identifying the port where the merchandise entered the U.S. (See Schedule D.)
73-84	CENSUS-ID	Twelve-position field, Census use only (Alphanumeric Code to identify the source data internally).
85-90	SERIAL NUMBER	Six-position serial number which identifies the record in the 304 file.
91	CONTAINER CODE	One-position field which indicates if the merchandise was containerized when transported. Blank = No container code reported 0 = No 1 = Yes
92-93	STAT MONTH	Two-position field for statistical month (01-12).

<u>FIELD NUMBER</u>	<u>FIELD NAME</u>	<u>DESCRIPTION OF FIELD</u>
94	YEAR	One-position field containing the last digit of year code (0-9).
95-99	SITC, REV. 3	Five position Field containing Revision 3 of the SITC code
100-104	DATE OF ENTRANCE	Five-position field identifying the vessel movement date if matched: Stat Month = (01-12) Year = last digit of year Day = (01-31) If unmatched: Stat Month, year, day = 00.
105-106	STATE	Two-position field containing state code. Field is blank if state code not reported.
107-110	MANIFEST	Four-position field containing the manifest number or field is blank.
111-114	VESS-CODE-ORIG	Four-position field containing vessel code from the IM-115 record or the field is blank.
115-120 115	HEADER-ID: MONTH	One-position field for month code: 1-9 = Jan-Sep 0, N, D = Oct, Nov, Dec
116-120	SERIAL	Five-position field containing the AE350 vessel-movement's serial number based upon alphabetic name sequence for statistical "Month". If unmatched to AE350, field will contain zeros.
121-124	VESS-CODE (350)	Four-position field containing the vessel code from the AE350 record or the field is blank.

<u>FIELD NUMBER</u>	<u>FIELD NAME</u>	<u>DESCRIPTION OF FIELD</u>
125-139	VESSEL NAME	Fifteen-position field containing vessel name. Format is as follows: If the vessel name is a single word, this field represents from one up to 15-characters of the vessel name. If the vessel name is a multi-word-position, one to six equal one up to the first six characters of the first word in the vessel name, blank in position seven and position eight to fifteen equal one up to eight characters of the last word in the vessel name.
140-141	TRUE FLAG	Two-position field representing vessel's country of registration (See Foreign Trade Flag Code list).
142-146	A/E CHANNEL CODE	Five-position field containing Army Corps of Engineer's channel code.
147	NOT USED	Not used, field is blank.
148	BALLAST/CARGO	One-position field, blank if field number 116-120 equals zero.
149-150	DRAFT (350)	Two-position field representing Draft (in feet) from AE350 or field is blank.
151-156	NRT	Six-position field containing net registered tonnage from AE350, or field is blank.
157	NOT USED	Not used, field is blank

<u>FIELD NUMBER</u>	<u>FIELD NAME</u>	<u>DESCRIPTION OF FIELD</u>
158	RIG CODE	One-position field containing rig: 1 = Motor dry, Steam dry cargo 2 = Motor Tanker, Steam Tanker 3 = Tug 4 = Barge, Scow 5 = Tanker, Barge 6 = Other, Rowboat, Sailboat, canoe, etc. or field is blank.
159	NOT USED	Not used, field is blank.
160-166	MARAD (350)	Seven-position field containing the Marad code from AE350, or field is blank.
167-168	ANNUAL CODE	Two-position field used for Annuals: Blank except when used in the annual errata. - "CD" in this field identifies the record as an annual errata record.
169-174	OPERATOR:	
169-172	OPER-CODE	Four-position field identifying the operator of the vessel or field is blank.
173-174	NATIONALITY	Two-position field identifying the nationality of the vessel operator or field is blank.
175-176	PERIOD	Two-position field containing the period code (01-60).

<u>FIELD NUMBER</u>	<u>FIELD NAME</u>	<u>DESCRIPTION OF FIELD</u>
177	MATCH TYPE	One-position field identifying the type of match performed: U = Unmatched V = Vessel code match C = Correction (Record may have been either "matched" or "unmatched" prior to the time of correction).
178-179	NOT USED	Not used, field is blank.
180	INPUT CODE	One-position field identifying type of impute performed: 0 or Blank = No impute Made 1 = Port Switch on Match 2 = No Match to Header 3 = Type Service Code Changed (This code is never changed from its original insertion into the 304/704 cargo record. However impute code "3" can hide code "1" or "2".)

Table Name: DETAIL

Descriptor	Table Field Name	Type	Description	Key	Source	Values/Constraints
Code Date	CODE_DATE	DATE	Date line item was coded	PK	Contr	C = Contractor
Source	SOURCE	C1	Source of data	PK	Several	O = Ohio River Division, A = Automated W = WCSC F = Foreign
Company	UHO ID	C3	Coder's initials or symbol of automated company	PK	Several	
Code ID	N6	N6	First 3 digits- VOR #, second 3 digits- line # (Will refer to record # for a tape)	PK	Contr	
District	DISTRICT	N2	District number in which the operator's headquarters resides.	FKR	WCSC	DISTRICT table (Same as first 2 digits of OPERATOR)
Block Operator Region	BLOCK OPERATOR REGION	N4 N7 C1	Block # (Used to group VOR's for coding) Operator Code Region	FK FKR	WCSC Coded Coded	MASTER_OPERATOR DISTRICT 1 = Atlantic 2 = Miss Valley/Gulf 3 = Great Lakes 4 = Pacific 9 = Foreign
Vessel Code Trips	VESSEL TRIPS	N5 N3	Vessel Code Number of trips represented by one record	FK	Coded Oper	MASTER_VESSELS
Vessel Type	VTYPE	N1	Vessel type (Matches first digit of VESS_TYPE in MASTER_VESSELS)		Coded	1=Self-propelled dry 2=Tanker 3=Towboat 4=Dry cargo barge 5=Liquid barge 6=Other (cranes, etc.)
Shipping Date	SHIP_DATE	DATE	Date the vessel left the origin		Oper	
Shipping Location	LOC_S	N5	Origin of the voyage*	FK	Coded	MASTER_LOCATION
Shipping Dock	DOCK_S	N3	Dock code	FK	Coded	MASTER_DOCKS
Shipping Draft	DRAFT_S	N2	Actual draft at shipping location		Oper	
Receiving Date	RECV_DATE	DATE	Date arrived at destination		Oper	
Receiving Location	LOC_R	N5	Destination of the voyage*	FK	Coded	MASTER_LOCATION
Receiving Dock	DOCK_R	N3	Dock location	FK	Coded	MASTER_DOCKS
Receiving Draft	DRAFT_R	N2	Actual draft at receiving location		Oper	

*For loaded moves the shipping location is the place where the commodity was loaded onto the vessel, and the receiving location is the place where the commodity was unloaded off of the vessel.

Table Name: **DETAIL Cont'd**

Descriptor	Table Field Name	Type	Description	Key	Source	Values/Constraints
Traffic	TRAFFIC	N2	Traffic code		WCSC	11=Overseas Imports 12=Overseas Exports 21=Imports from Canada 22=Exports to Canada 30=Coastwise 40=Lakewise 50=Internal 70=Local 80=Intraterritory 90=ferry
Service	SERVICE	N1	Service code. Also used to indicate negative reports and records marked for deletion		Coded	1=Common carrier 2=Exempt for hire 3=Private 9=Marked for Deletion
Commodity Tons	COMMODITY TONS	N5 N8	Commodity code Tons carried	FK	Coded Oper	MASTER_COMMODITY No more than 3.1 times net registered tonnage
Alternates	ALTERNATES	C20	Indicates which route was taken when more than one exists (maximum of 10 alternates)	FK	Oper/ WCSC	String of 1-10 two char alternates, no order MASTER_ALTERNATES
Shipping State	STATE_S	C2	Shipping state	FKR	WCSC	MASTER_DOCKS
Shipping Waterway	WTWY_S	N4	Shipping waterway	FKR	WCSC	MASTER_DOCKS
Shipping Mile	MILE_S	N4	Milepoint on the shipping waterway	R	WCSC	MASTER_DOCKS
Shipping Port	PORT_S	N4	Shipping port (if applicable) Port Authority limits or municipality	FKR	WCSC	MASTER_DOCKS
Receiving State	STATE_R	C2	Receiving state	FKR	WCSC	MASTER_DOCKS
Receiving Waterway	WTWY_R	N4	Receiving waterway	FKR	WCSC	MASTER_DOCKS
Receiving Mile	MILE_R	N4	Milepoint on receiving waterway	R	WCSC	MASTER_DOCKS
Receiving Port	PORT_R	N4	Receiving port (if applicable) Port Authority limits or municipality	FKR	WCSC	MASTER_DOCKS
Trip Miles	TRIP_MILES	N5	Difference between shipping dock and receiving dock given route taken		WCSC	Done by Routing

*Trip miles include coastwise mileage and lakewise mileage if applicable. For overseas foreign movements, the trip miles are the miles on U.S. channels. For Canadian foreign movements the trip miles is the distance between the Canadian dock and the U. S. dock.

Table Name: DETAIL Cont'd

Descriptor	Table Field Name	Type	Description	Key		Source	Values/Constraints
Areas	AREAS	N2	Indicates which regions were in the trip	Atlantic	Lakes	WCSC Pacific	Done by Routing Miss/Gulf Coast
Subareas 1	SUBAREAS1	N2	Indicates subareas travelled in area 1				
Subareas 2	SUBAREAS2	N2	Indicates subareas travelled in area 2				
Subareas 3	SUBAREAS3	N2	Indicates subareas travelled in area 3				
Subareas 4	SUBAREAS4	N2	Indicates subareas travelled in area 4				

Example: If you want every movement in the Pacific region use AREAS IN (2,3,4,5,10,11,12,13).

Subareas	Key	Source	Values/Constraints
Subareas 1	Atlantic	WCSC Pacific	Done by Routing Miss/Gulf Coast
Subareas 1	Lakes		
Subareas 1	Michigan	WCSC Huron Superior (Pattern similar to AREAS)	Done by Routing Erie/Ontario
Subareas 2	Maine/Narragansett (Pattern similar to AREAS)	WCSC Manasquan/Norfolk/Chesapeake (Pattern similar to AREAS)	Done by Routing
Subareas 3	Puget S/Oregon (Pattern similar to AREAS)	WCSC San Francisco/San Diego (Pattern similar to AREAS)	Done by Routing Alaska
Subareas 4	Ohio River/Tenn-Tom (Pattern similar to AREAS)	WCSC Missouri/Gulf Intra-coastal (Pattern similar to AREAS)	Done by Routing Arkansas/Atchafalaya

Table Name: DETAIL Cont'd

Descriptor	Table Field Name	Type	Description	Key	Source	Values/Constraints
Process Status	PROCESS_STATUS	C1	Indicates how far the record has been processed		WCSC	1 = None 2 = Passed edits 3 = Routed
Error Status	ERROR_STATUS	N2	Gives a historical record of any errors		WCSC	+1 = Field error +2 = Network error +4 = Review error +8 = Chargeable error
HMF Status	HMF_STATUS	C1	Should record contain Harbor Maintenance data?		WCSC	1 = Yes (not implemented)
Sample Status	SAMPLE_STATUS	C1	Is this record part of a sample?		WCSC	1 = Selected for review - no errors 2 = Selected - errors
Admin Status	ADMIN_STATUS	C1	Administrative status - open for various uses		WCSC	
Containerized	CONTAINERIZED	C1	Is cargo containerized?		WCSC	1 = Yes
Route	ROUTE	C220	Route String		WCSC	# = Through Downbound ! = Through Upbound - = Leaving Downbound + = Leaving Upbound < = Entering Downbound > = Entering Upbound * = Local Downbound \$ = Local Upbound

Symbol followed by 4 digit link numbers from MASTER_LINKS, Example: -2005#2007#2008#2009>2019
Minimum of 1 link, maximum of 40 links.
East/North = Upbound
West/South = Downbound



US Army Corps
of Engineers

Vessel Operation Report

(Statement of Freight and Passengers Carried)

(Optional Form for Use by Inland Waterways Operators)

THE LAW

The collection of commercial statistics pertaining to rivers, harbors and waterways, and annual reports thereof to Congress, are required by the River and Harbor Act of June 23, 1866 (14 Stat. 70), the Act of February 21, 1891 (26 Stat. 766), the River and Harbor Act of June 13, 1902 (32 Stat. 376), the River and Harbor Act of July 25, 1912 (937 Stat. 201), the River and Harbor Act of September 22, 1922 (42 Stat. 1043), and Public Law No. 16, February 10, 1932 (47 Stat. 42).

The primary user of this data is the U.S. Army Corps of Engineers. The data are essential to justify the expenditures of Federal funds for navigation project operations, maintenance, rehabilitation and improvement, and for justifying the construction of new navigation projects. Data specific to individual reporting companies are considered confidential and protected from unauthorized disclosure under the Trade Secrets Act (18 U.S.C. Chapter 93, Section 1905) unless otherwise authorized by law. In order to minimize the reporting burden on vessels operating companies, the Corps of Engineers will furnish data to other Federal agencies in accordance with the Paperwork Reduction Act (44 U.S.C. 3510(e)).

Section 11 of the 1922 Rivers and Harbors Act as amended by Section 919 of the 1986 Water Resources Development Act requires that:

"Owners, agents, masters, and clerks of vessels and other craft plying upon the navigable waters of the United States, and all individuals and corporations engaged in transporting their own goods upon the navigable waters of the United States, shall furnish such statements relative to vessels, passengers, freight, and tonnage as may be required by the Secretary of the Army: Provided, that this provision shall not apply to those rafting logs except upon a direct request upon the owner to furnish specific information."

Every person or persons offending against the provisions of this section shall, for each and every offense, be liable to a fine of not more than \$5,000 or imprisonment not exceeding two months, to be enforced in any district court in the United States within whose territorial jurisdiction such offense may have been committed. In addition, the Secretary may assess a civil penalty of up to \$2,500 per violation, against any person or entity that fails to provide timely, accurate statements required to be submitted pursuant to this section by the Secretary." (33 U.S.C., Section 855)

PROJECT CHANNEL USED

(See Item 14 GENERAL INSTRUCTIONS)

Code	ATLANTIC COAST		GULF COAST		MISSISSIPPI RIVER SYSTEM		GREAT LAKES		PACIFIC COAST	
	Waterway, Channel, or Lock	Code	Waterway, Channel, or Lock	Code	Waterway, Channel, or Lock	Code	Waterway, Channel, or Lock	Code	Waterway, Channel, or Lock	
02	Annisquam Canal, Mass	17	Bayou Baptiste Collette	40	Mouth of Mississippi River:	60	Superior Entry, Wis	72	Sacramento River Raige Lock, Calif.	
04	Pollock Rip Shoals, Nantucket Sound, Mass	30	Gulf Intracoastal Waterway at Apalachee Bay, Fla.	42	Southwest Pass	61	DuWahl Canal, Minn.	76	Waterway Connecting Port Townsend and Otok Bay, Wash.	
07	Cape Cod Canal, Mass	31	The Rigollets, La.	46	South Pass	62	Keweenaw Waterway, Mich.	78	Swinomish Channel, Wash.	
10	Port of New York	32	Calcasieu River Pass, La.	47	Other Passes	64	Sturgeon Bay and Lake Michigan Canal, Wis	80	Wrangell Narrows, Alaska	
12	Lower Entrance Channels	34	Atchafalaya River Bar Channel, La.	50	Mississippi River - Gulf Outlet Entrance Channel, La.	65	Chicago Harbor (Entrance), Ill	82	Sergius and Whitestone Narrows, Alaska	
16	Chesapeake and Delaware Canal	35	Sabine Pass, Tex.	51	Harvey Lock, La.	66	Calumet-Sag Channel, Ill			
18	Knappa Narrows, Md	36	Ship Island Bar Channel, Miss.	53	Algiers Lock, La.	67	Eric Barge Canal (Tonawanda), N. Y.			
20	Atlantic Intracoastal Waterway	37	Horn Island Pass, Miss.	54	Atchafalaya River Route, La.	68	Oswego Canal, N. Y.			
23	Waterway connecting Lookout Light and Back Sound, N. C.	38	Mobile Bay Bar Channel, Ala.	57	Port Allen Lock, La.	69	Black Rock Lock, N. Y.			
24	Waterway from Norfolk, Va to Beaufort Sounds (Dismal Swamp)	39	Penascola Entrance Channel, Fla.	58	Kentucky Lock, Ky.					
25	Waterway from Pamlico Sound to Beaufort Harbor, N. C., via Core Sound			59	Barkley Lock, Ky.					
26	Oklawaha Cross Florida Waterway				Tennessee-Tombigee Waterway (Flow Traffic Only)					

VESEL OPERATION REPORT STATEMENT OF FREIGHT AND PASSENGERS CARRIED
(Shallow Draft Inland Traffic)
(ER 355-2-1)

REPORT FOR MONTH OF _____ 19 ____

OMB APPROVAL NO. 0710-0006
(EXPIRES 31 MAY 1991)

Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0710-0006), Washington, D.C. 20503. Please DO NOT RETURN your completed form to either of these addresses. Send your completed form to Department of Defense, U.S. Army Corps of Engineers Waterborne Commerce Statistic Center, POB 61280, New Orleans, LA 70161.

Public reporting burden for this collection of information is estimated to average 18 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0710-0006), Washington, D.C. 20503.

VESSEL ORIGIN/LOADING INFORMATION					VESSEL DESTINATION/UNLOADING INFORMATION																				
NO OF TRIPS	USCG NO	VES TYPE	PORT NAME	DOCK NAME	RIVER	MILE	R	B	MO/ YR	PORT NAME	DOCK NAME	RIVER	MILE	R	B	MO/ YR	S	E	R	V	COMMODITY	TONS	ALT WWS		
		1					2							2										4	

REMARKS

- 1 Indicate towboat (1) non self-propelled, dry cargo vessel (DD) or non self-propelled tank vessel (DT), self-propelled, dry cargo and passenger vessel (C) or self-propelled tanker (F) sea to sea and other (O).
- 2 River bank - left, right, or mid-stream as viewed when looking down stream.
- 3 For each cargo movement show "1" if minimum or maximum or contact cargo subject to regulation by the Inland State Commerce Commission, "2" if exempt for hire, "3" if private.
- 4 Where a chance exist, indicate waterway, exit, and/or entrance channels used. (See inside cover.)

I HEREBY CERTIFY THAT THIS IS A COMPLETE AND AN ACCURATE REPORT

SIGNATURE TITLE

VESSEL OPERATING COMPANY ADDRESS

Section I

Waterborne Commerce of the United States

Overview

The Waterborne Commerce Statistics Center (WCSC) has primary responsibility for the collection, compilation, printing and distribution of all domestic United States waterborne commerce statistics. The data collected consist of vessel and cargo movement information reported to the Corps of Engineers by carriers engaged in the commercial transportation of goods on the navigable waterways of the United States. The Bureau of Census processes foreign data collected by Customs and provides the Corps with foreign statistics for the waterways and harbors of the United States. The summarized domestic and foreign statistics are published in the Corps annual publication **Waterborne Commerce of the United States, Parts 1-5**. The WCSC furnishes these statistics to all elements of the Corps of Engineers, other federal agencies and the general public.

Products

Waterborne Commerce of the United States (WCUS), Parts 1-5

The WCUS is a series of publications which contain the statistics on the commercial waterborne movements of foreign and domestic cargo. The WCUS publications present detailed data by commodity and traffic. The statistics include commodities given in short tons (2000 lbs.) and vessel trips for the harbors and waterways. The content of Parts 1-5 is exemplified by the Savannah Harbor, GA tables given on pages I-6 thru I-8. The Monongahela River examples are given on pages I-9 and I-10. Parts 1-4 cover the following geographical areas:

- WCUS, Part 1 Waterways and Harbors on the Atlantic Coast
- WCUS, Part 2 Waterways and Harbors on the Gulf Coast, Mississippi River System and Antilles
- WCUS, Part 3 Waterways and Harbors on the Great Lakes
- WCUS, Part 4 Waterways and Harbors on the Pacific Coast, Alaska and Hawaii

WCUS, Part 5 represents a national summary of tons and ton-miles contained in WCUS publications, Parts 1-4.

The Waterborne Commerce Statistics Center maintains historical copies of WCUS, Parts 1-5 that are available for sale. The number of copies will vary by calendar year and each individual publication. These copies will be made available for sale until the supply is exhausted. Archive copies of WCUS publications are available from calendar year 1915 to the present. In the event that a particular historical copy would no longer be available, then copies of specific information contained in the archive copies can be reproduced as required.

WCUS, Parts 1-4 in Machine Readable Form

The data in the **Waterborne Commerce of the United States, Parts 1-4** are available on computer tape and diskette for calendar years 1982 and following. See Appendix 4 for file layout, file sizes and tape/diskette specifications.

Public Domain Database (Both Area to Area and State to State)

The Public Domain Database contains aggregated information which depicts waterborne commodity movements between 26 geographical regions and individual states of the U.S. This database protects the confidentiality of the data provided by the individual companies and simultaneously provides the general public with origin/destination (O/D) commodity flows.

These data are available in hard copy, diskette or computer tape for calendar years 1985 thru 1989. There are approximately 1,400 records in each calendar year database. The database definitions of geographical regions, commodities and the file layout for the diskette or magnetic tape are provided in Appendix 5.

The sample data beginning on page I-11 reflects the 1989 movement from region to region and state to state of a commodity by tonnage:

- Item-1: Public Domain Database (Region-to-Region) sorted by Origin
- Item-2: Public Domain Database (Region-to-Region) sorted by Destination
- Item-3: Public Domain Database (Region-to-Region) sorted by Commodity
- Item-4: Public Domain Database (State-to-State) sorted by Origin
- Item-5: Public Domain Database (State-to-State) sorted by Destination
- Item-6: Public Domain Database (State-to-State) sorted by Commodity

In order to protect the confidentiality of the data provided by individual companies, the following procedures were implemented:

Procedure 1:

Specific commodities were changed to more general categories. For example, sugar becomes labeled as food, sulfur becomes a nonmetallic mineral, and gasoline becomes a petroleum product.

Procedure 2:

If one vessel operating company has 80% or more of the tonnage for a particular area of origin to a particular area of destination, that commodity is reclassified to "other."

Procedure 3:

If three or more vessel operating companies do not carry a particular commodity from an area of origin to an area of destination, then that commodity is reclassified to "other." For example, if only two companies carry farm products from the upper Mississippi to the lower Mississippi the tonnage for those farm products would be classified under "other."

Principal Ports of the United States

The Principal Ports Tonnage Reports provide listings of tons handled at U.S. Ports for a given calendar year. The tonnage is aggregated by total, domestic and foreign tons. Four listings are available: ranking by total tonnage, ranking by foreign tonnage, ranking by domestic tonnage and an alphabetic listing. See page I-18 for a copy of the 1989 Principal Ports by Total Tonnage.

Estimated Waterborne Commerce Statistics

The Estimated Waterborne Commerce Statistics report provides tonnage estimates of the national waterborne commerce and selected inland waterways by major commodity groupings for a given calendar year. The waterway estimates are based on correlations between Lock Performance Monitoring System (LPMS) tonnages collected at the locks and the waterborne commerce tonnages provided to WCSC by vessel operating companies for calendar years 1982 thru the most current year available. See page I-21 for a copy of the 1990 Estimated Waterborne Commerce Statistics.

Waterborne Tonnage by State

The Waterborne Tonnage by State Reports provide one page listings of the waterborne tonnage by states for a given calendar year. These two reports are sorted alphabetically by state and by total waterborne tonnage. Calendar year 1988 is the first year these reports are available. See page I-23 for a copy of the 1989 Waterborne Tonnage by State.

Special Requests for Waterborne Commerce Statistics

The Waterborne Commerce Statistics Center (WCSC) handles special requests for statistics on a case by case basis. These requests are characterized by the need for information not contained in the forementioned Waterborne Commerce of the United States.

In order to expedite the processing of a special request it is suggested that the request be documented in a letter or some other transmittal. If computer processing or a significant amount of WCSC resources is required to satisfy the request, WCSC will prepare a cost estimate. The requesting office must send a check or money order, or government transfer of funds to WCSC before the requested data can be sent.

In addition to the transfer of funds there are two constraints to providing data to individuals:

1. WCSC must have sufficient computer and manpower resources available.
2. WCSC cannot release data that reveal the activity of individual reporting companies. Such data is confidential under the Trade Secrets Act (18 U.S.C. 1905) and prohibited from public release.

Example Waterborne Commerce of the United States, 1989
SAVANNAH, GA, DISTRICT

SAVANNAH HARBOR, GEORGIA

SECTION INCLUDED: FROM THE 46-FOOT CONTOUR IN THE OCEAN TO THE CONTINENTAL CAN COMPANY PLANT, 32.15 MILES. CONTROLLING DEPTH FOR MID-CHANNEL, HALF PROJECT WIDTH, 40 FEET OVER THE BAR CHANNEL; THENCE 39 FEET TO THE GEORGIA PORTS AUTHORITY OCEAN TERMINAL; THENCE 30 FEET TO THE GEORGIA PORTS AUTHORITY GARDEN CITY TERMINAL; THENCE 36 FEET TO THE ATLANTIC CROSSING COMPANY; AND 30 FEET TO THE CONTINENTAL CAN COMPANY PLANT. PROJECT DEPTH: 40 FEET OVER THE BAR CHANNEL, 0.71 MILES; 36 FEET TO ABOVE GEORGIA PORTS AUTHORITY GARDEN CITY TERMINAL, 21.59 MILES; 36 FEET TO THE ATLANTIC CROSSING COMPANY, 1.04 MILES; 30 FEET TO ABOVE CONTINENTAL CAN COMPANY, 1.33 MILES. NAVIGATION SEASON: ENTIRE YEAR.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1980	12,295,179	74,237	1985	11,326,551	119,360
1981	12,767,864	72,280	1986	12,041,148	112,230
1982	10,975,740	69,134	1987	13,201,806	125,544
1983	10,610,367	95,603	1988	13,980,978	129,300
1984	11,245,804	97,144	1989	12,830,333	124,480

FREIGHT TRAFFIC, 1989
 (SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL
		IMPORTS	EXPORTS	COASTWISE		INTERNAL		
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL	12,830,333	4,992,710	5,399,510	1,413,617	361,355	63,254	215,806	363,799
8101 COTTON, RAW	7,947	137	7,810					
2103 CORN	31,854	459	30,595					
0105 RICE	3,478	201	3,273					
0106 SORGHUM GRAINS	29		29					
0107 WHEAT	309,752		309,752					
8111 SOYBEANS	138,306	5	138,301					
0119 OILSEEDS, NEC	24,876	240	24,616					
0121 TOBACCO, LEAF	9,470	3,793	5,677					
0129 FIELD CROPS, NEC	700	100	600					
0131 FRESH FRUITS	71,073	17,714	53,359					
0132 BANANAS AND PLANTAINS	125,622	125,622						
0133 COFFEE	10,235	10,128	107					
0134 COCOA BEANS	2,815	2,814	1					
0141 FRESH AND FROZEN VEGETABLES	1,849	1,154	695					
2151 LIVE ANIMALS	237		237					
0161 ANIMALS AND PRODUCTS, NEC	16,773	2,283	14,590					
2191 MISCELLANEOUS FARM PRODUCTS	1,025	670	347					
0941 CRUDE RUBBER AND ALLIED GUMS	30,348	30,257	127					
0961 FOREST PRODUCTS, NEC	6,148	5,774	356	18				
0911 FRESH FISH, EXCEPT SHELLFISH	2,805	2,673	130					
0912 SHELLFISH, EXCEPT PREPARED	3,102	1,930	1,172					
0931 MARINE SHELLS, UNMANUFACTURED	159	134	25					
1051 ALUMINUM DRES, CONCENTRATES	71,140	69,135	2,005					
1091 NONFERROUS ORES, CONCENT, NEC	70,124	65,250	4,874					
1121 COAL AND LIGNITE	12,490	11,586	912					
1311 CRUDE PETROLEUM	674,469	674,469						
1412 BUILDING STONE, UNWORKED	111,604	71,112	40,492					
1442 SAND, GRAVEL, CRUSHED ROCK	63,229	53,533	9,696					
1451 CLAY	1,048,638	545	1,048,093					
1479 NATURAL FERTILIZER MATS, NEC	268		268					
1491 SALT	25,494	7	25,487					
1492 SULPHUR, DRY	42,722	41,134	1,588					
1493 SULPHUR, LIQUID	28,846		28,846					
1494 GYPSUM, CRUDE AND PLASTERS	386,874	385,787	209					
1499 NONMETALLIC MINERALS, NEC	259,111	242,790	16,321					
1911 ORDNANCE AND ACCESSORIES	1,972	1,636	336					
2011 MEAT, FRESH, CHILLED, FROZEN	40,705	3,090	37,593		22			
2012 MEAT AND PRODUCTS, NEC	7,367	6,965	402					
2014 TALLOW, ANIMAL FATS AND OILS	676	471	205					
2021 DAIRY PRODUCTS, NEC	977	204	691					
2022 DRIED MILK AND CREAM	18,862	23	18,839					
2031 FISH AND SHELLFISH, PREPARED	4,975	4,566	409					
2034 VEGETABLES AND PREP, NEC	26,195	18,792	7,103		220			
2039 PREP FRUIT AND VEG JUICE, NEC	67,840	18,802	29,038					
2041 WHEAT FLOUR AND SEMOLINA	1,308	4	1,304					
2042 ANIMAL FEEDS	4,271	1,390	2,881					
2049 GRAIN MILL PRODUCTS, NEC	33,728	4,495	28,403				830	
2061 SUGAR	585,999	413,777	30,915	78,595		26,395	4,317	
2091 ALCOHOLIC BEVERAGES	37,974	30,121	7,853					
2091 VEGETABLE OILS, MARG, SHORT	73,666	38,048	29,866	2,490		2,032	1,230	
2092 ANIMAL OILS AND FATS, NEC	92	60	32					
2099 MISCELLANEOUS FOOD PRODUCTS	48,190	38,509	13,670		11			
2111 TOBACCO MANUFACTURES	8,779	539	8,103		57			
2211 BASIC TEXTILE PRODUCTS	146,234	74,234	46,059		293	5,650		
2212 TEXTILE FIBERS, NEC	459	110	340					
2311 APPAREL	26,527	26,470	2,057					
2413 FUEL WOOD, CHARCOAL, WASTES	19,980	18,788	1,272					
2414 TIMBER, POSTS, POLES, PILING	26,953	3,948	23,013					
2416 WOOD CHIPS, STAVES, HOLDINGS	356,262	46	356,210					
2421 LUMBER	179,772	100,768	71,000					
2431 VENEER, PLYWOOD, WORKED WOOD	41,339	42,704	18,635					
2491 WOOD MANUFACTURES, NEC	12,315	5,063	7,252					
2511 FURNITURE AND FIXTURES	50,357	40,223	4,105			29		
2611 PULP	549,109	104,055	445,054					
2621 STANDARD WEIGHT PAPER	18,041	14,565	3,476					
2631 PAPER AND PAPERBOARD	506,710	20,234	433,839				54,637	
2691 PULP AND PAPER PRODUCTS, NEC	38,471	2,437	18,262			16,923	849	
2711 PRINTED MATTER	2,467	1,174	1,513					
2810 SODIUM HYDROXIDE	98,012	10,311	46	21,227				66,488

Example

Waterborne Commerce of the United States, 1989
PITTSBURGH, PA, DISTRICT

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DRAFT (FEET)	DIRECTION					TOTAL	DIRECTION					TOTAL	
		SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			
		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		
PORT OF PITTSBURGH, PA.					INBOUND						OUTBOUND			
9 - - - - -				1,076	13,301	003	15,237				1,006	2,816	325	4,229
8 - - - - -		3		834	1,200	275	2,392		3		833	394	137	1,367
7 - - - - -				2,532	1,802	137	3,671				2,525	801	75	3,401
6 AND LESS - - - - -		3,991		5,003	13,031	076	22,761	3,996			5,020	24,666	1,302	34,988
TOTAL - - - - -		3,991		9,505	28,674	1,005	44,001	3,999			9,464	28,759	1,830	44,001
MONONGAHELA RIVER, PA. AND W. VA.					UPBOUND						DOWNBOUND			
9 - - - - -				996	5,204	102	6,602				979	10,094	94	11,572
8 - - - - -				597	665	130	1,415				546	2,290	84	2,920
7 - - - - -				2,955	697	81	3,733				2,907	91	40	3,038
6 - - - - -		2,814		2,571	532	43	5,760	1,700			2,152	89	13	3,963
5 - - - - -		1,118		1,727	739	14	3,594	683			1,408	449	7	2,547
4 - - - - -		7		56	34	5	100	1			55	25	1	82
3 - - - - -		24		77	1,745	4	1,850	35			77	277	23	412
2 - - - - -					6,667	139	6,806					6,883	481	7,363
1 AND LESS - - - - -					16,877	55	16,932					14,793	162	14,955
TOTAL - - - - -		3,959		8,977	33,003	653	46,652	2,428			8,124	35,391	900	46,652
ALLEGHENY RIVER, PA., IMPROVED PORTION					UPBOUND						DOWNBOUND			
9 - - - - -				160	1,580	129	1,669				161	732		893
8 - - - - -				23	62	26	113				23	5		28
7 - - - - -				79	36	5	120				73	601		750
6 - - - - -		1,623		1,215	130		2,978	1,595			1,230	692		3,717
5 - - - - -		607		1,202	400		2,350	636			1,322	927		2,895
4 - - - - -				23	31	1	55	0			22	51		79
3 - - - - -		33		19	244	1	297	21			20	87	3	131
2 - - - - -					2,104	13	2,197					1,355	126	1,483
1 AND LESS - - - - -					67		67					70	10	86
TOTAL - - - - -		2,303		2,781	4,709	177	10,050	2,258			2,851	4,800	141	10,050
ALLEGHENY RIVER, PA., OPEN CHANNEL PORTION				40 VESSEL TRIPS REPORTED										

OHIO RIVER DIVISION

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DRAFT (FEET)	DIRECTION					TOTAL	DIRECTION					TOTAL	
		SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			
		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		
OHIO RIVER					UPBOUND						DOWNBOUND			
9 - - - - -		19		7,028	46,500	5,674	53,301	19			6,706	52,125	2,100	60,950
8 - - - - -		36		9,090	3,187	1,260	9,575	30			9,017	6,933	809	12,040
7 - - - - -				6,383	1,905	359	9,253	36			6,000	1,206	405	8,137
6 - - - - -		1,273		5,783	239	292	7,507	1,320			5,200	399	230	7,409
5 - - - - -		430		5,100	697	132	6,207	402			5,332	614	96	6,060
4 - - - - -				2,953	111	86	3,140				2,908	134	114	3,140
3 - - - - -		3		478	1,214	200	1,955	2			356	130	231	747
2 - - - - -		2		3,916	50,315	1,905	56,198	1			3,910	50,620	5,700	64,239
1 AND LESS - - - - -				210	17,216	1,247	18,673	2			204	20,020	1,550	21,784
TOTAL - - - - -		2,129		36,909	115,300	11,409	165,951	2,122			35,933	116,409	11,407	165,951

Example

Item - 1: Public Domain Database (Region-to-Region)

Sorted by Origin

Origin	Destination	Code	Commodity Name	Tons
COLUMBIA/SNAKE/WILLAMETTE				
Alaska				
		4100	Other	6,536
				<u>6,536</u>
California Coast				
		2800	Chemicals and Fertilizers	147,227
		4100	Other	339,339
				<u>486,566</u>
Columbia/Snake/Willamette				
		0100	Farm and Tobacco Products	5,051,594
		1400	Non-Metallic Minerals, Except Fuels	2,612,174
		2400	Lumber, Wood, and Forest Products, Including Furniture	3,031,457
		2800	Chemicals and Fertilizers	190,161
		2900	Petroleum Products	2,398,257
		3300	Metal Products and Scrap	1,179
		4100	Other	3,233,485
				<u>16,518,307</u>
Hawaii & Pacific Territories				
		2400	Lumber, Wood, and Forest Products, Including Furniture	177,552
		2600	Pulp, Paper, and Allied Products	33,924
		2800	Chemicals and Fertilizers	16,274
		4100	Other	55,310
				<u>283,060</u>
Rest of World (Overseas)				
		0100	Farm and Tobacco Products	18,512,926
		0900	Fresh Fish and Other Marine Products	5,205
		1000	Metallic Ores	112,174
		1100	Coal and Lignite	577
		1400	Non-Metallic Minerals, Except Fuels	319,598
		2000	Food and Kindred Products	618,940
		2400	Lumber, Wood, and Forest Products, Including Furniture	6,475,911
		2600	Pulp, Paper, and Allied Products	701,616
		2800	Chemicals and Fertilizers	1,452,028
		2900	Petroleum Products	497,257
		3200	Stone, Clay, Glass, and Concrete Products	2,251
		3300	Metal Products and Scrap	333,053
		4000	Other Waste and Scrap	97
		4100	Other	58,651
				<u>29,090,284</u>
Washington/Oregon Coast				
		4100	Other	4,301,529
				<u>4,301,529</u>
				<u>50,686,282</u>

Item - 3: Public Domain Database (Region-to-Region)

Sorted by Commodity

Commodity Origin	Destination	Tons
1300 Crude Petroleum		
Alaska	to Alaska	3,905,997
Alaska	to California Coast	50,424,286
Alaska	to Hawaii & Pacific Territories	2,243,253
Alaska	to Rest of World (Overseas)	88,762
Alaska	to Trans-Shipment Area	18,522,020
Alaska	to Washington/Oregon Coast	19,590,715
California Coast	to California Coast	13,326,912
California Coast	to Rest of World (Overseas)	25,421
California Coast	to Washington/Oregon Coast	929,943
Canada	to Great Lakes System	20,329
Gulf Coast West	to Gulf Coast West	9,950,899
Gulf Coast West	to Lower Miss: Baton Rouge - Gulf	4,790,122
Gulf Coast West	to Lower Miss: Cairo - Baton Rouge	183,821
Gulf Coast West	to Mobile River & Tributary	1,270,425
Gulf Coast West	to Rest of World (Overseas)	780
Lower Miss: Baton Rouge - Gulf	to Gulf Coast West	1,472,385
Lower Miss: Baton Rouge - Gulf	to Lower Miss: Baton Rouge - Gulf	3,693,499
Lower Miss: Baton Rouge - Gulf	to Lower Miss: Cairo - Baton Rouge	233,861
Lower Miss: Baton Rouge - Gulf	to Mobile River & Tributary	76,634
Lower Miss: Baton Rouge - Gulf	to Rest of World (Overseas)	7,494
Lower Miss: Cairo - Baton Rouge	to Lower Miss: Baton Rouge - Gulf	211,324
Middle Atlantic Coast	to Rest of World (Overseas)	293
Mobile River & Tributary	to Gulf Coast West	1,007,982
Mobile River & Tributary	to Lower Miss: Baton Rouge - Gulf	737,733
Mobile River & Tributary	to Mobile River & Tributary	619,763
Ohio River System	to Ohio River System	546,907
Other	to Gulf Coast West	1,257,345
Other	to Lower Miss: Baton Rouge - Gulf	950,296
Rest of World (Overseas)	to Alaska	64,777
Rest of World (Overseas)	to California Coast	4,914,559
Rest of World (Overseas)	to Caribbean	17,548,495
Rest of World (Overseas)	to Gulf Coast East	15,490,649
Rest of World (Overseas)	to Gulf Coast West	110,965,964
Rest of World (Overseas)	to Hawaii & Pacific Territories	3,636,459
Rest of World (Overseas)	to Lower Miss: Baton Rouge - Gulf	38,847,606
Rest of World (Overseas)	to Middle Atlantic Coast	60,965,514
Rest of World (Overseas)	to Mobile River & Tributary	1,236,760
Rest of World (Overseas)	to North Atlantic Coast	3,706,828
Rest of World (Overseas)	to Other	38,971,983
Rest of World (Overseas)	to South Atlantic Coast	702,967
Rest of World (Overseas)	to Washington/Oregon Coast	1,762,941
South Atlantic Coast	to Rest of World (Overseas)	314
Trans-Shipment Area	to Caribbean	2,203,067
Trans-Shipment Area	to Gulf Coast West	12,062,688
Trans-Shipment Area	to Lower Miss: Baton Rouge - Gulf	1,568,639
Trans-Shipment Area	to Middle Atlantic Coast	764,310
Washington/Oregon Coast	to Rest of World (Overseas)	7,875
	Subtotal =	451,511,596
	(6% of these commodities were placed in the other category)	29,289,038
	Original Total =	480,800,634

Item - 4: Public Domain Database (State-to-State)

Sorted by Origin

Origin	Commodity	Tons
Destination	Code Name	
OREGON		
Alaska	4100 Other	6,536
		<u>6,536</u>
California	2800 Chemicals and Fertilizers	121,739
	4100 Other	276,386
		<u>398,125</u>
Foreign, excluding Canada		
	0100 Farm and Tobacco Products	10,306,500
	0900 Fresh Fish and Other Marine Products	5,205
	1000 Metallic Ores	1,126
	1100 Coal and Lignite	577
	1400 Non-Metallic Minerals, Except Fuels	211,707
	2000 Food and Kindred Products	391,265
	2400 Lumber, Wood, and Forest Products, Including Furniture	7,745,811
	2600 Pulp, Paper, and Allied Products	413,178
	2800 Chemicals and Fertilizers	1,269,691
	2900 Petroleum Products	64,665
	3200 Stone, Clay, Glass, and Concrete Products	2,419
	3300 Metal Products and Scrap	291,682
	4000 Other Waste and Scrap	97
	4100 Other	63,325
		<u>20,767,248</u>
Hawaii	2400 Lumber, Wood, and Forest Products, Including Furniture	216,336
	2600 Pulp, Paper, and Allied Products	48,780
	2800 Chemicals and Fertilizers	17,275
	3300 Metal Products and Scrap	14,191
	4100 Other	41,437
		<u>338,019</u>
Idaho	4100 Other	86,244
		<u>86,244</u>
Oregon	0100 Farm and Tobacco Products	627,340
	1400 Non-Metallic Minerals, Except Fuels	2,886,984
	2400 Lumber, Wood, and Forest Products, Including Furniture	1,581,568
	2900 Petroleum Products	770,291
	4100 Other	1,090,917
		<u>6,957,100</u>
Other	4100 Other	6,322,820
		<u>6,322,820</u>
Washington	0100 Farm and Tobacco Products	234,491
	2900 Petroleum Products	1,492,223
	4100 Other	1,542,716
		<u>3,269,430</u>
		<u>38,145,522</u>

Item - 5: Public Domain Database (State-to-State)

Sorted by Destination

Destination Origin	Code	Commodity Name	Tons
NEW HAMPSHIRE			
Delaware	4100	Other	23,273
			<u>23,273</u>
Foreign, excluding Canada			
	1400	Non-Metallic Minerals, Except Fuels	493,547
	2000	Food and Kindred Products	6,157
	2400	Lumber, Wood, and Forest Products, Including Furniture	35
	2600	Pulp, Paper, and Allied Products	152
	2800	Chemicals and Fertilizers	16,800
	2900	Petroleum Products	1,415,207
	3200	Stone, Clay, Glass, and Concrete Products	20
	3300	Metal Products and Scrap	20,409
	4100	Other	151
			<u>1,952,478</u>
Louisiana	2900	Petroleum Products	216,853
			<u>216,853</u>
Maryland	4100	Other	1,455
			<u>1,455</u>
Massachusetts	2900	Petroleum Products	58,206
			<u>58,206</u>
New Hampshire	4100	Other	5,917
			<u>5,917</u>
New Jersey	2900	Petroleum Products	328,775
			<u>328,775</u>
New York	2900	Petroleum Products	71,824
			<u>71,824</u>
Pennsylvania	4100	Other	15,555
			<u>15,555</u>
South Carolina	4100	Other	200
			<u>200</u>
Texas	4100	Other	439,359
			<u>439,359</u>
Virginia	4100	Other	28,667
			<u>28,667</u>
			<u>3,142,562</u>

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Section III

Ports and Waterways of the United States

Overview

The Ports and Waterways Division of the U.S. Army Corps of Engineers Navigation Data Center collects, reviews, analyzes, prepares and publishes data on the physical and intermodal characteristics of the coastal, Great Lakes and inland ports of the United States. Published and periodically updated since 1921, the Port Series Reports cover each major U.S. port, including both coastal and inland facilities. In addition, the Ports and Waterways Division provides dock location data for Waterborne Commerce Statistics Center's port and dock code manuals, port area maps for use in conjunction with collection of Harbor Maintenance Fee (see page III-3), and occasional specialized publications.

Products

Port Series Reports

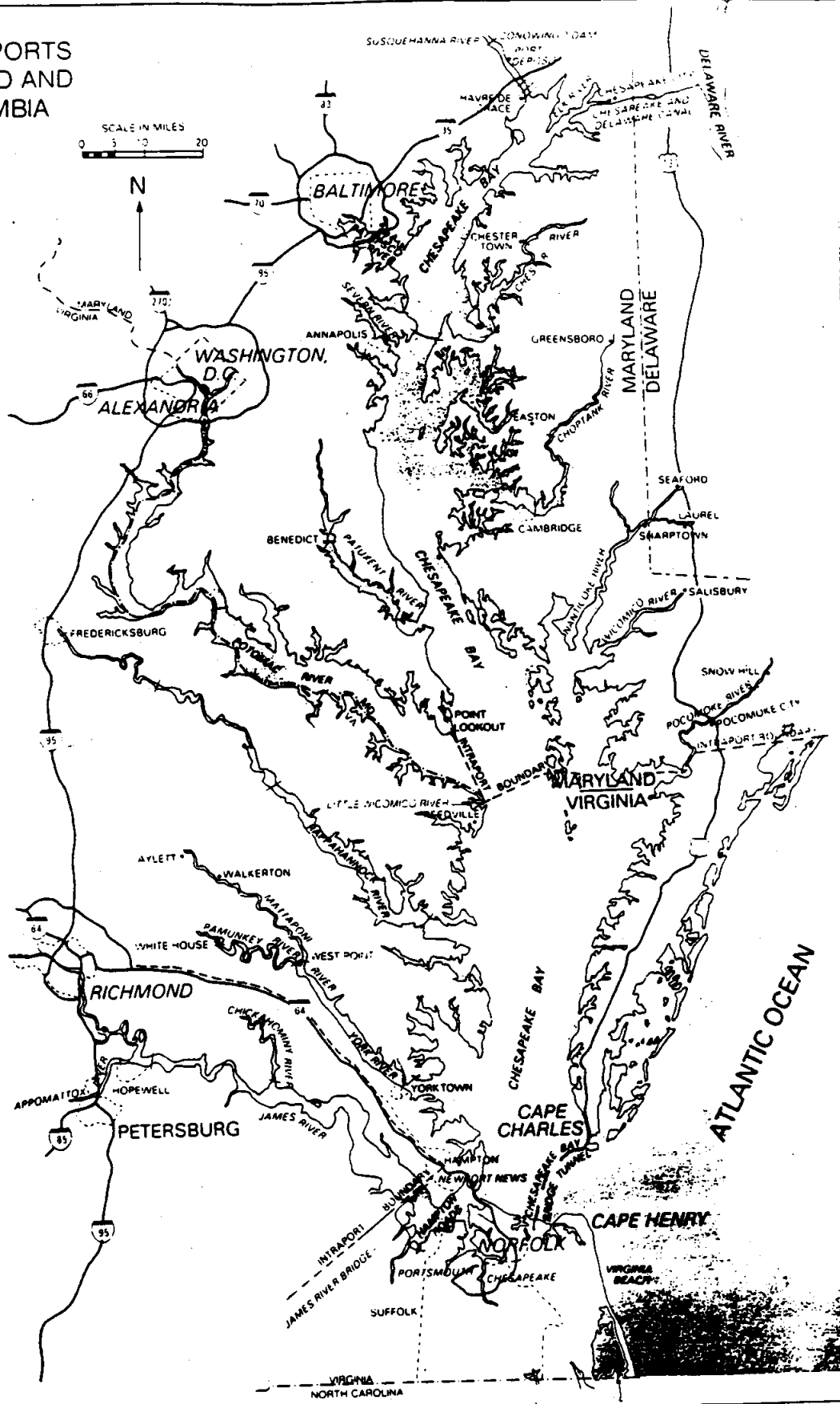
The Port Series Reports delineate the Nation's principal coastal, Great Lakes and inland port and waterway terminal and transfer facilities. The publications, produced under authority of law, are intended to meet the needs of Federal, State, and municipal agencies, port and waterway development authorities, and others concerned with the utilization and improvement of existing terminals and the planning and development of new ones. The series presently is comprised of 56 individual reports covering approximately 190 ports, including over 9,000 wharves, and is updated completely every seven to eight years. The entire database is undergoing modernization at this time with the objective of making future products available on diskette, as well as in published form.

Port Series Reports consist of complete facility descriptions, including information on berthing accommodations, petroleum and bulk handling terminals, grain elevators, warehouses, cranes, transit sheds, marine repair plants, fleeting areas, floating equipment, and other elements associated with port and waterway operations. The locations of the described facilities are depicted on aerial photographic maps of the waterfront areas. Sample pages displaying content of the Port Series are extracted from **The Port of Baltimore, Maryland, Port Series No. 10**, revised in 1991. The following sample illustrations are included:

- a. Purpose For Which Used, page III-4
- b. Piers, Wharves and Docks, page III-5
- c. Oil Handling and Bunkering, page III-6
- d. Summary of Liquid Bulk Handling, page III-7
- e. Summary of Dry Bulk Handling, page III-8
- f. Marine Repair Plants and Drydocking Equipment, page III-9

PORT AREA*
CHESAPEAKE BAY PORTS
VIRGINIA, MARYLAND AND
DISTRICT OF COLUMBIA

SCALE IN MILES
 0 5 10 20



U.S. CUSTOMS SERVICE 1987

*TO BE USED IN CONJUNCTION WITH SECTION 1402 OF PUBLIC LAW 99-662. HARBOR MAINTENANCE FEE

PURPOSE FOR WHICH USED

LOCATION P. W. D. REFERENCE NUMBER	A			B			LEFT BANK, PATAPSCO RIVER								C								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
Cargo handling:																							
General cargo:																							
Conventional.....																							
Containerized.....																							
Roll-on roll-off....																							
Cement.....																							
Coal.....																							
Construction materials																							
Fuel oil for plant																							
consumption.....																							
Kerosene.....																							
Molasses.....																							
Naphtha.....																							
Ore (Misc.).....																							
Slag.....																							
Steel/steel products..																							
Sulfuric acid.....																							
Tar (crude).....																							
Passengers.....																							
Outfitting.....																							
Mooring:																							
Barges.....																							
Excursion vessels.....																							
Fire boats.....																							
Miscellaneous.....																							
Not operated or used.....																							

A - OLD ROAD BAY
 B - LEFT BANK, PATAPSCO RIVER
 C - COLGATE CREEK

Example

PIERS, WHARVES, AND DOCKS

CORPS OF ENGINEERS PORT CODE NO.	05550	Dock Code No. 016	05550	Dock Code No. 018	05550	Dock Code No. 020
REFERENCE NUMBER ON MAP NO. 1	1		2		3	
NAME	Bethlehem Steel Corp., Pennwood Wharf.		Blue Circle Cement Co., Pennwood Loading Dock.		Bethlehem Steel Corp., Ore Pier.	
LOCATION ON WATERFRONT	Old Road Bay, east side of Sparrows Point. Wharf Road.		Old Road Bay, southeast end of Sparrows Point. Wharf Road.		Left bank, Patapsco River, south side of Sparrows Point. Ore Pier Road, Sparrows Point.	
OWNED BY	Bethlehem Steel Corp.		Blue Circle Cement Co., Inc.		Bethlehem Steel Corp.	
OPERATED BY	Bethlehem Steel Corp.		Blue Circle Cement Co., Inc.		Bethlehem Steel Corp.	
PURPOSE FOR WHICH USED	Shipment of steel and steel products; occasional receipt of construction materials and general cargo.		Shipment of slag cement by barge.		Receipt of bulk and pelletized ore	
TYPE OF CONSTRUCTION	Steel pile, concrete-decked, off-shore wharf with a curved rail trestle approach to each end; fronted by rubber fender system.		Steel pile, concrete-decked, offshore wharf with 140- by 15-foot approach; four steel pile, concrete-decked, breasting dolphins and one similar mooring dolphin in line with face; all connected by steel catwalks.		Concrete-filled, part concrete coated, steel pipe pile, concrete decked pier; a steel pile concrete-decked turning dolphin at outer end is connected by 50- by 9-foot steel catwalk; all fronted by rubber loop fenders.	
DESCRIPTION	Face	Sides	Face	Sides	Face	Sides
Dimensions (Feet)	870	85, each.	60	22, each.	83	1,020
Depth Alongside at MLW Do.	32		30			45
Breasting Distance Do.	870		572 w/dolphins.			1,153 w/dolphins.
Total Berthing Space Do.	870		572			1,153
Width of Apron Do.	83		85		Open.	
Height of Deck at MLW Do.	12		12		15	
Load Capacity (Lbs. per Sq. Ft.)	2,000		400		2,000	
Lighted or Unlighted	Lighted.		Lighted.		Lighted.	
TRANSIT SHEDS Number and Description	One 2-story, steel frame, clear span, metal-covered; concrete floor. (See Remarks.)		None.		None.	
Length and Width (Feet)	505 by 100					
Height Inside Do.	28					
Floor Area for Cargo (Sq. Ft.)	50,500					
Load Capacity (Lbs. per Sq. Ft.)	2,000					
Cargo Doors	Shipside and rear: five, 22 by 15, each.					
MECHANICAL HANDLING FACILITIES	Two 25-ton, electric bridge cranes span full width and travel full length inside transit shed; each equipped with hooks, spreader bars, and slings. Additional stevedore equipment is available as required.		Loading tower equipped with conveyor boom and two retractable loading spouts with 60-foot outboard reach is served by a 48-inch, electric belt-conveyor system extending from storage silos in rear, rate 1,500 tons per hour.		Three electric, traveling, revolving full-portals, gantry, straight-line, ore unloaders with 130-foot, hinged-cantilevered booms, equipped with 26-ton buckets for transferring ore from vessels through 175-ton, receiving hopper to two 60-inch, electric belt conveyors extending to open storage area in rear, rate 1,500 tons per hour each.	
RAILWAY CONNECTIONS	Patapsco and Back Rivers Railroad: Three surface tracks on apron joined by 2 tracks on trestle approach at each end.		None.		None.	
HIGHWAY CONNECTIONS	Via Wharf Road, asphalt, 20 to 25 feet wide, from Sparrows Point Boulevard.		Via Wharf Road, asphalt, 20 to 25 feet wide, from Sparrows Point Boulevard.		Via plant roads, various widths, from Sparrows Point Boulevard.	
WATER SUPPLY (For Vessels)	Through one 6-inch line with five 2 1/2 inch connections.		None.		Through two 4-inch lines with four 2 1/2-inch connections.	
ELECTRIC CURRENT (For Vessels)	A.C., 110/220/440 volts.		A.C., 110/220/440 volts.		A.C., 110/220/440 volts.	
FIRE PROTECTION (Other Than City)	Sprinkler system inside transit shed, water suction pipes at each end of wharf, and security patrol.		Hydrants, and security patrol.		Hand extinguishers, automatic alarm system, and security patrol.	
REMARKS	Transit shed is heated. Second floor of building at south end is used for offices, and first floor, for equipment storage and shops.		Two storage silos at rear have total capacity for approximately 40,000 tons of slag cement.		Two electric winches are located on turning dolphin for positioning vessels. Trucks have access to pier, customs office and approximately 51 acres of open ore storage area are located in rear.	

Example

OIL HANDLING AND BUNKERING

P.W.D. REF. NO.	WWY	OPERATOR	BERTHING SPACE (FEET)	DEPTH ALONGSIDE (FEET)	STORAGE TANKS		
					NO.	CAPACITY (BARRELS)	
116 (F)	C	Amerada Hess Corp.	700, 500	37	32	3,500,000	
104, 105	C	Amoco Oil Co.	250	28	21	266,000 (A)	
118	C	do.	250	32	17	896,000	
64	N	Amstar Sugar Corp.	248	10	2	20,000	
15	P	Baltimore Gas and Electric Co.	180, 486	16	4	247,870	
83	P	do.	405	18	2	42,000	
84	P	do.	200, 300	14	3	107,000	
133, 134	P	do.	940, 1,620 & 700	17&15	8	1,440,000	
7	P	Bethlehem Steel Corp.	700, 700	38, 25	3	214,300	
8	P	do.	455	15	4	3,000,000 (C)	
106	C	BP Oil, Inc.	290, 610	12, 33	19	710,450	
66	P	Cargill Inc.	610, 185	30-34&27	1	79,450 (A)	
101	P	Chevron U.S.A., Inc.	582	32	14	1,022,000	
99	P	do.	195 (X)	17	5	140,000 (A)	
100-102	P	Conoco, Inc.*	225, 582, 600	22, 32, 34	28	1,455,000	
116	C	Crown Central Petroleum Corp.	700, 500	37	5	209,000	
101	P	Drefus Energy Corp.	582	32	11	1,278,000	
44, 45	N	Exxon Company, USA.	(2) 830 & (2) 405	37, 27 & 12	75	1,970,000	
23	P	Gold Bond Building Products	727	32	1	15,500	
128	C	Grace, W.R. & Co., Davison Chemical Division	425, 350	28, 12	2	47,600	
42	N	Hoffberger, C., Co.	733, 660 & 400	42	13	789,500	
113	C	Olin Corp.	800	28	2	25,000 (A)	
42, 43	N	Petroleum Fuel and Terminal Co., subsidiary of Apex Oil	733, 660 & 400	42	19	1,500,000	
103	P	Shell Oil Co.	615, 840	21, 26	28	1,058,000	
106	C	Star Enterprise	290, 610	12, 33	10	240,000	
					PETROLEUM PRODUCTS	296	16,762,220
					(C) CRUDE OIL	4	3,000,000
					(A) ASPHALT	29	510,450

WWY (Waterway): P - Patapsco River
 N - Northwest Branch, Patapsco River
 C - Curtis Bay or Creek
 (*) Also handles products for Sunmark Refining
 and Marketing Co. and Ashland Oil, Inc.
 (X) Not in use.
 (F) Fueling/bunkering service.

Example

SUMMARY OF LIQUID BULK HANDLING

P. W. D. REF. NO.	WMY	OPERATOR	BERTHING SPACE (FEET)	DEPTH ALONGSIDE (FEET)	PRODUCTS	STORAGE TANKS	
						NUMBER	CAPACITY (GALLONS)
35	P	Agrico Chemical Co., Division Of Freeport McMoran	540	30	Fertilizer.	1	2,727,300
8	P	Bethlehem Steel Corp.	455	15	Sulfuric acid.	2	1,000,000
66	P	Cargill, Inc.	610+185	35	Molasses.	5	7,648,100
66	P	Ennar Latex, Inc.	610+185	35	Latex.	26	519,000
113,115	C	Essex Industrial Chemicals, Inc.	800&335	28&12	Sulfuric acid.	3	1,950,000
111	C	Fertilizer Industries, Inc.	400	19	Fertilizer.	2	3,024,000
70, 71	N	Goodyear Tire & Latex Co.	1,200&1,212	35	Latex.	42	1,500,000
127	C	Grace, W. R., Co., Davison Chemical Division.	175	10	Sodium silicate.	2	952,000
128	C	do.	425+350	28,12	Sulfuric acid. Sodium hydroxide.	2 1	320,000 476,000
70	N	Guthrie Industries, Inc.	375	35	Latex.	11	550,000
32	P	Lebanon Chemical Corp.	240	13	Fertilizer.	4	2,366,000
19	P	Pacific Molasses Co.	190	12	Molasses.	7	8,140,000
65	N	Procter & Gamble Manufacturing Co., The	655	25	Caustic soda. Coconut oil. Glycerine.	4 4 4	480,000 1,290,000 760,000
132	P	SCM Chemicals Corp.	75+75	12	Sulfuric acid.	1	263,700
91	P	ST Services, Inc.	1,110+860	35	Miscellaneous.	16	16,380,000
130	P	Transmaryland Terminal Corp.	720+720	36	Fertilizer.	2	3,640,000
TOTALS						139	53,986,100

WMY (Waterway): P - Patapsco River
N - Northwest Branch Patapsco River
C - Curtis Bay or Creek

Example

SUMMARY OF DRY BULK HANDLING

P.W.D. REF. NO.	WMY	OPERATOR	BERTHING SPACE (FEET)	DEPTH ALONGSIDE (FEET)	HANDLING EQUIPMENT TYPE/RATE (TONS/HOUR)	PRODUCTS	STORAGE CAPACITY
35	P	Agrico Chemical Co., Division of Williams Co.	540	30	Receiving crane with 3 1/2 cubic yard bucket.	Fertilizer.	26,000 tons (3 buildings)
63	N	Amstar Sugar Corp.	1,040; 420	38	2 straight line unloaders with 6-cubic yard buckets (300, each).	Sugar.	62,500 tons (whse. and dome)
47	N	Arundel Corp., The	200	15	Crawler crane with 3-cubic yard bucket.	Sand.	5,000 tons.
85	N	Arundel Corp., The	600	15	Crawler crane with 3-cubic yard bucket (450-800).	Sand, gravel, and stone.	70,000 tons.
133	P	Baltimore Gas & Electric Co.	940; 1,620	17	2 continuous bucket unloaders (1,200 & 4,000).	Coal.	600,000 tons.
3	P	Bethlehem Steel Corp.	1,153	45	3 straight line unloaders with 26-ton buckets (1,500 each).	Iron ore.	51 acres.
9	P	Bethlehem Steel Corp.	1,660	18	2 bridge cranes.	Coal.	44 acres.
126	C	Blue Circle Atlantic, Inc.	490	28	Pneumatic pipelines (700).	Cement.	33,000 tons
2	O	Blue Circle Cement Co., Inc.	572	30	2 loading spouts.	Slag cement.	40,000 tons (silos)
70	N	Ceres Corp.	1,200 +1,200	34	2 traveling gantry cranes each with 10-ton bucket.	Scrap metal.	30 acres (partial)
31	P	Consolidated Coal Sales Co.	802; 1,253	27; 42-50	Traveling loading tower (7,000).	Coal.	970,000 tons.

WMY (Waterway): C - Curtis Bay or Creek
 N - Northwest Branch, Patapsco River
 O - Old Road Bay
 P - Patapsco River





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