

# MAINE STATE LEGISLATURE

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STATE OF MAINE

# Department of Environmental Protection

MAIN OFFICE: RAY BUILDING, HOSPITAL STREET, AUGUSTA  
MAIL ADDRESS: STATE HOUSE, AUGUSTA 04333

Henry E. Warren  
COMMISSIONER  
289-2811

ADMINISTRATIVE SERVICES:  
289-2691

BUREAUS:

AIR QUALITY CONTROL  
289-2437

LAND QUALITY CONTROL  
289-2111

WATER QUALITY CONTROL  
289-2591  
OIL POLLUTION CONTROL  
289-2591

REGIONAL OFFICES:

31 CENTRAL STREET  
BANGOR 04401  
947-6746

634 MAIN STREET  
PRESQUE ISLE 04769  
764-3737

OIL POLLUTION CONTROL  
17 COMMERCIAL STREET  
PORTLAND  
773-6491

OIL SPILL REPORTS ONLY  
(TOLL FREE) 1-800-482-0777

CITIZENS' ENVIRONMENTAL  
ASSISTANCE SERVICE  
289-2691  
(TOLL FREE) 1-800-452-1942

AIR QUALITY CONTROL  
17 COMMERCIAL STREET  
PORTLAND  
773-0196

LAND QUALITY CONTROL  
17 COMMERCIAL STREET  
PORTLAND  
773-0196

STATEWIDE

OIL SPILL STATISTICAL REPORT

for 1979

TD  
427  
.P4  
M34  
1979

Compiled by:

Staff of the Division of  
Oil Conveyance Services  
Department of Environmental Protection

Table #1 Transactions at Licensed Terminals (January - December 1979)

In 1979, our 43 licensed terminals transferred 8,080,648 barrels of oil less than the year 1978.

There were six new terminal licenses granted in 1979. Three new licenses were transfer in ownership only, two were issued to lighter vessels, and there was one new terminal opened in Rockland, Maine.

Ten licensees showed an increase in their volume last year, two stayed approximately equal, ten were not involved in any transfer operations at all (five terminals and five lighter vessels), and twenty-one licensees experienced a decrease in volume over last year's figures.

<u>Terminal</u>	<u>License #</u>	<u># Transfers</u>	<u>Total Volume in Barrels</u>
Chevron Oil Company South Portland	300	303	6,646,118
Exxon Company USA South Portland	301	133	2,852,440
Getty Refining & Marketing Company South Portland	302	46	1,390,804
Phoenix Resources Company Long Island	303	23	290,192
Mobil Oil Corporation South Portland	304	233	9,238,774
Portland Pipeline Corp. Pier I South Portland	305	0	0
Portland Pipeline Corp. Pier II South Portland	306	145	47,897,768
Texaco Inc. South Portland	307	188	5,957,364
Central Maine Power Co. Yarmouth	308	13	1,930,204
American Oil Company South Portland	310	112	2,582,842
Gulf Oil Company Portland	311	296	4,349,226

Table #1 Transactions at Licensed Terminals (Jan. - Dec. 1979) cont.

<u>Terminal</u>	<u>License #</u>	<u># Transfers</u>	<u>Total Volume in Barrels</u>
Shell Oil Company South Portland	312	14	420,988
Northeast Petroleum Corp. South Portland	313	3	1,418
Astroline Petroleum Corp. South Portland	314	132	1,081,330
Webber Oil Company Portland	315	59	488,342
Astroline Petroleum Corp. Bangor	316	121	849,442
C. H. Sprague & Son Co. Bucksport	317	21	2,785,362
C. H. Sprague & Son Co. Brewer	318	0	0
C. H. Sprague & Son Co. Searsport	319	15	1,565,446
Tenco Services Inc. Searsport	320	1	23,680
Gulf Oil Company Brewer	321	120	820,466
Irving Oil Corporation Searsport	322	18	3,315,222
Shell Oil Searsport Searsport	323	21	516,164
Texaco Inc. Bangor	324	98	801,598
Webber Oil Company Bangor	325	32	369,046
Webber Tanks Inc. Bucksport	326	241	4,859,082
Webber Tanks Inc. Brewer	327	82	701,608

Table #1 Transactions at Licensed Terminals (Jan. - Dec. 1979) cont.

<u>Terminal</u>	<u>License #</u>	<u># Transfers</u>	<u>Total Volume in Barrels</u>
Chevron Oil Company Bangor	328	0	0
Henry Young and Company Matinicus	331	no current transfers	
Barrett Paving Materials Bangor	334	11	206,812
Mobil Oil Corporation Pembroke	336	0	0
Vinalhaven Fuel and Marine Corp. Vinalhaven	338	77	13,276
McLoon Oil Company Inc. Rockland	339	no current transfers	
Lamont's Fuel Service Islesboro	340	24	4,014
Central Maine Power Co. Wiscasset	341	8	485,902
Bouchard - 75 Barge Hicksville, Long Island, NY	344	no current transfers	
Boston Fuel Trans- portation Company East Boston	401	11	144,374
Bouchard 105 Hicksville, Long Island, NY	403	no current transfers	
Matinicus Offshore Store Matinicus	405	39	2,748
U. S. Air Force Defense Searsport	406	17	1,139,828
Koch Fuels Inc. Wichita	441	23	798,680
Exxon Barge 5 Everett	454	no current transfers	

Table #1 Transactions at Licensed Terminals (Jan. - Dec. 1979) cont.

<u>Terminal</u>	<u>License #</u>	<u># Transfers</u>	<u>Total Volume in Barrels</u>
Barrett Paving Materials Inc. Bangor	455	no current transfers	
Stinson Canning Company Rockland	456	no current transfers	
McAllister Brothers Inc. New York	457	no current transfers	
**** Grand Totals ****		----- 2,680	----- 104,530,560

Table #2 Transactions by Month at Licensed Oil Terminal Facilities

In 1978 there were 3,125 recorded cargo transactions in Maine. In 1979 there were only 2,680 or 445 less. This table reflects transfer operations by cargo type; it does not reflect the actual number of vessel movements. It merely means that a lot of ships carry "split" cargoes. For example: most small tankers visiting our island communities carry gasoline and fuel oil in the same load. As this is the case then the terminal would report two separate cargo transactions even though the vessel only came to the terminal once. This table, therefore, cannot be used to measure ship movement frequency.

<u>Months (1979)</u>	<u>Number of Transfers</u>	<u>Total Barrels</u>
January	265	11,704,570
February	226	9,460,708
March	272	9,182,842
April	237	9,223,642
May	206	9,144,484
June	172	8,228,752
July	219	7,103,530
August	250	8,589,040
September	202	6,452,262
October	231	8,849,540
November	232	10,057,512
December	168	6,533,678
<b>** Grand Totals **</b>	<b>2,680</b>	<b>104,530,560</b>

Table #3 Oil Spills by Type of Incident for 1979

There are no real dramatic differences in the type of incidents the Oil Division documented in 1979 from other years.

Incidents can occur just about anywhere oil is transported or stored.

The Oil Division has estimated that there is most likely around 300,000 oil tanks presently in service in Maine. Many of them are old, many are buried, all are operated and maintained differently, and they range in size from 150,000 barrel capacity down to 6 barrel.

Each tank, if serviced only twice per year, means that product is handled by men literally hundreds of thousands of times per year.

All this handling and all the trucks needed to supply the tanks creates an enormous number of opportunities for spills to occur.

Couple this with all the fuel tanks on private vehicles, fishing boats, airplanes, railroads, and the lube oil that is necessary to make all of these machines dependable and work properly (plus transmission fluids, greases, hydraulic, transformer, cutting, and specialized machine oils ad infinitum) and one can easily see why this state can expect 300 to 400 oil spills per year.

The diversity of spill situations shown in this table is clearly a mirror reflection of the depth of our state's dependence on petroleum. . .  
 \*Note: This incident data does not reflect the petroleum pollution problem in Maine only the oil spill problem. The Oil Division stresses this fact because if one looks at all the activities listed, it is easy to see that there are many other waste products of petroleum usage besides spill wastes.

<u>Incident Category</u>	<u>Number of Spills by Incident Code</u>	<u>(Gallons) Total Volume</u>
A. Industrial	69	17,342.50
B. Residential	35	2,407.00
C. Terminal (licensed)	5	472.50
BP Bulk Plant	23	10,271.00
SS Service Station	30	8,588.00
D. Vessel		
F Fishing	4	55.00
TA Tanker	14	25,662.00
FR Freighter	1	5.00
PL Pleasure	4	11.00
GV Govt. Vessel	7	555.00
O Other	1	20.00

(continued)



Table #3 Oil Spills by Type of Incident for 1979 (cont.)

<u>Incident Category</u>	<u>Number of Spills by Incident Code</u>	<u>(Gallons) Total Volume</u>
E. Transportation		
TT Tank Truck	29	14,443.20
PC Private Car	8	42.50
TR Commercial Truck	28	1,036.20
A Airplane	3	66.00
RR Railroad	4	2,959.00
F. Other Known Source	18	3,669.00
G. Mystery	58	746.00
	-----	-----
Totals	341	88,350.90

Table #4 Frequency and Volume of Oil Spills by Product Type for 1979

Following the rationale of all the transportation and handling that goes on, one finds that all types of oil are spilled. The ones spilled most frequently are those handled more frequently.

As with all other years, in 1979 #2 fuel was the oil spilled most frequently, but for the very first time the largest volume of oil spilled was #6 industrial oil. These figures reflect the fact that the volume spilled bears very little relation to the frequency of spills and that we must be prepared for the possibility of some very large spills. Our major spill history also supports this possibility.

<u>Product</u>	<u>Number of Spills</u>	<u>% of Total Number</u>	<u>Volume (Gallons)</u>
#1 Kerosene	15	4.3	1,531.00
#2 Fuel Oil	82	24.0	21,655.50
Diesel	40	11.7	2,026.00
#5 Fuel Oil	1	0.2	75.00
#6 Fuel Oil	23	6.7	35,258.00
Lube Oil	24	7.0	257.00
#4 Fuel Oil	4	1.1	1,107.00
Waste Oil	19	5.5	157.00
Unknown	41	12.0	199.70
Regular Gas	46	13.4	7,497.50
Premium Gas	3	0.8	300.00
No Lead Gas	4	1.1	4,480.00
Aviation Gas	6	1.7	3,611.00
JP-3 Gas	0	0.0	0.00
JP-4 Gas	1	0.2	100.00
Asphalt	4	1.1	7,040.00
Crude Oil	6	1.7	596.00
Other	22	6.4	2,460.20
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Totals	341	100.0	88,350.90

Table #5 Environmental Medium Effected by Spills for 1979

The number of spills involving all environmental mediums increased over 1978. By far the most dramatic increase in spills occurred into ground water. In 1979 we saw a threefold plus increase in the number of spills into ground water over any other previous year.

We expect this problem to increase in frequency as people become more aware of our willingness to help them solve this type of problem. Many of these instances are several years old.

<u>Medium Effected</u>	<u>Number of Spills</u>
Land	95
Surface Water	153
Land to Surface Water	66
Ground Water	6
Ground Water to Surface Water	17 (27)
Land to Ground Water	4
	-----
Total Spills	341

1980

36  
290

reported spills (not affected area, wells)

≈ 12½%

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Table #6 Summary of Clean-up Materials for 1979

This information changes dramatically every year and other than to illustrate that a relatively large volume of a variety of waste products are generated from oil spill clean-up operations each year the numbers themselves are not particularly significant. In comparison to 1978 they all changed dramatically.

There were 58 more spills in 1979, but 7,651 gallons less oil was actually spilled. Some 10,948 gallons more oil was recovered and recycled in 1979 even with an overall decrease in the amount spilled. The Division estimates that clean-up activities generated three times more contaminated waste water than in 1978. Solid combustibles increased from 519 drums to over 6,261 drums primarily because of one incident. The volume of non-combustibles decreased by over 2,000 yards because the Oil Division has no place to properly manage these wastes. In effect, we are leaving more oil on the ground than we would like. The Division suggests that it appears awareness has set in and most people are trying much harder to limit the amount of oil spilled and trying harder to recover it for reuse. These activities suggest that our spill prevention program has been assisted substantially by the ever increasing cost of oil.

Total Volume Spilled	88,350.90 Gallons
Oil Recycled	32,735.00 Gallons
Liquid Non-Recyclable	38,503.00 Gallons.
Solids Combustible	6,261.37 Drums
Solids Non-Combustible	1,485.35 Cubic Yards
Total Oil Recovered	49,986.50 Gallons

Table #7 Where Spills Occur - Listing of Oil Spills by Municipality for 1979

The Oil Division feels that this table is perhaps the most revealing of them all. In 1979 we responded to spills in 136 different communities.

The spill problem can affect us all and we must be prepared to go anywhere at almost any time to fulfill our response obligations associated with the provisions of the Coastal Conveyance Act.

Our larger communities and port areas generally have more spills than other parts of Maine, again due to the number of times oil is handled by men.

<u>Municipality</u>	<u>No. of Spills</u>	<u>Municipality</u>	<u>No. of Spills</u>
Arrowsic	1	East Baldwin	1
Ashland	1	East Exeter	1
Auburn	1	East Harpswell	1
Augusta	7	East Machias	1
Baldwin	1	East Pittston	1
Bangor	13	East Sebago	1
Bar Harbor	2	East Winthrop	1
Bass Harbor	1	Easton	1
Bath	8	Eastport	4
Beals	1	Eliot	1
Belfast	2	Ellsworth	1
Benton	1	Fairfield	2
Bernard	1	Falmouth	3
Biddeford	1	Farmington	2
Bingham	1	Five Islands	1
Boothbay	1	Fort Fairfield	1
Boothbay Harbor	3	Franklin	1
Bradley	1	Freeport	1
Brewer	1	Gardiner	1
Bridgton	1	Georgetown	1
Brooks	1	Gorham	2
Brunswick	4	Gray	2
Bucksport	4	Greenville	2
Calais	1	Harpswell	1
Canaan	1	Hermon	6
Cape Elizabeth	3	Hope	1
Caribou	2	Houlton	1
Carmel	2	Island Falls	1
Casco	1	Jay	1
Cherryfield	1	Jefferson	1
Clifton	1	Kennebunk	2
Clinton	1	Kennebunkport	1
Corinna	2	Kezar Falls	1
Cousins Island	1	Kittery	1
Cushing	1	Lewiston	5
Deer Isle	2	Limestone	1
Detroit	1	Lincoln	3
Dexter	1	Lisbon Falls	1
Dover-Foxcroft	2	Litchfield	1

Table #7 Where Spills Occur - Listing of Oil Spills by Municipality for 1979

(cont.)

<u>Municipality</u>	<u>No. of Spills</u>	<u>Municipality</u>	<u>No. of Spills</u>
Littleton	2	Somesville	1
Livermore Falls	1	Sorrento	1
Madison	1	South Berwick	1
Medway	1	South Portland	34
Milford	1	Southport	1
Millinocket	6	Southwest Harbor	2
Monticello	1	Springvale	1
Morrill	1	Spruce Head	1
N Amity	1	T2 R9	1
New Sweden	1	T8 R13	1
Newcastle	1	Thomaston	1
Newington, N. H.	1	Topsham	1
North Belfast	1	Union	1
North Haven	1	Waldoboro	1
North Lincoln	1	Waterboro	1
Northeast Harbor	1	Waterville	5
Orono	1	West Bath	1
Orrington	1	West Jonesport	1
Owls Head	1	West Minot	1
Palermo	1	West Sumner	1
Portland	60	Westbrook	5
Presque Isle	12	Winslow	2
Randolph	1	Winterport	1
Readfield	2	Winthrop	3
Rockland	6	Wiscasset	4
Rumford	1	Woolwich	1
Saco	6	Wyman Dam, Moscow	1
Scarborough	2	Yarmouth	5
Searsport	1	York	1
Skowhegan	1		

Table #8 Vessels Making More Than 50 Transfers

This table identifies the workhorses of the Maine small tank vessel fleet. These vessels are relatively small volume, shallow draft vessels principally involved with in-harbor transport, bunkering, lightering, island supply, and Portland to Bangor coastwise transportation.

We are very familiar with these vessels. They all have a good spill record.

The nine vessels account for over 50% of the cargo transactions conducted by our licensees in 1979.

<u>Name of Vessel</u>	<u>Shipments &amp; Receivables</u>		<u>Dominant Product</u>	
	<u>Number</u>	<u>Barrels</u>	<u>Frequency</u>	<u>Volume</u>
B 65	56	1,584,041	Fuel Oil #2	Fuel Oil #2
Bert Reinauer	74	1,065,306	Fuel Oil #2	Fuel Oil #2
Bobbie E	109	22,306	Fuel Oil #2	Fuel Oil #2
Christian Reinauer	369	3,445,498	Fuel Oil #2	Fuel Oil #2
Exxon 5 Baystate	251	5,270,635	Fuel Oil #2	Fuel Oil #2
Harold Reinauer	186	1,660,509	Fuel Oil #2	Fuel Oil #2
Ocean 250	60	1,812,941	No Lead	Regular
Vincent Tibbetts	401	3,294,723	Fuel Oil #2	Fuel Oil #2
William McLoon	68	9,701	Regular	Fuel Oil #2
Final Totals	1,574	18,165,660		

Table #9 Tank Vessels Transferring Product in Maine Waters in 1979

This is primarily an informational table designed to illustrate that transfer operations involving 225 different ships occurred in our waters last year. The vessels ranged in size from 1,100 deadweight tons on the lower end of the scale (8,000 bbl capacity) to many vessels in the 65 to 80,000 ton range (500,000 to 750,000 bbl capacity) on the high scale.

<u>Name of Vessel</u>	<u>No. of Transfers</u>	<u>Barrels Transferred</u>	<u>Date of Build</u>	<u>Deadweight Tons</u>	<u>Port of Registry</u>
Adjustments	1	6,443			
Afran Dawn	4	350,915	1968	102,092	Liberia
Afran Energy	4	391,601	1975	98,699	Liberia
Afran Leeward	4	353,345	1972	97,693	Liberia
Afran Meridian	1	348,511			
Afran Tide	5	473,435	1966	99,308	Liberia
Afran Zenith	1	347,269			
Ain Taurga	2	264,982	1977	30,643	Benghazi, Libya
Allegiance	8	219,204	1956	35,337	USA
Almare Terza	2	496,347	1976	103,576	Genoa, Italy
Almizar	1	497,959	1964&1971	110,363	Liberia
Alnair II	5	1,319,092	1965	75,675	Liberia
American Eagle	2	101,849	1959	33,696	USA
American Hawk	1	192,824	1944&1962	27,344	USA
American Trader	4	349,334	1967	28,058	USA
Amoco Texas City	1	297,605	1970	78,696	Liberia
Angela Team	4	420,097	1972	104,752	London UK
Aphrodite B	3	777,323	1965	76,193	Greece
Arco Prestige	2	238,437	1962	34,671	USA
Ardmore	7	635,089	1975	31,600	Southampton UK
Arhon	5	432,404	1966	61,873	Liberia
Astracruz	1	300,286	1963	44,901	Buenos Aires, Argentina
ATC 781	9	205,851			



Table #9 Tank Vessels Transferring Product in Maine Waters in 1979 (cont.)

<u>Name of Vessel</u>	<u>No. of Transfers</u>	<u>Barrels Transferred</u>	<u>Date of Build</u>	<u>Deadweight Tons</u>	<u>Port of Registry</u>
Atlantic Courageous	5	1,247,560			
Atlantic Marquess	9	1,510,985	1968	88,272	Liberia
Atlas Oil	2	15,965			
Aubrey Hudgins	31	5,503	1935	95	Portland USA
Banner	2	70,429	1956	33,352	USA
Barge Texaco 808	1	45,454	1973	2,714	USA
Barge Capn Larry	1	522	1930	31	Portland USA
Barge McAllister 56	1	47,025	1969	3,233	USA
Barge Michelle	2	121,804			
Barge Nepco 60	1	50,447	1970	3,508	USA
Bath Iron Works	1	6,849			
Bert Reinauer	74	1,065,306	1938	3,062	USA
BFT 17	43	411,693	1949	788	USA
BFT 50	7	189,397	1972	47,500	USA
Bilboa	2	183,218	1962	33,635	Spain
Bobbie E	109	22,306	1968	112	USA
Bouchard 65	56	1,584,041	1968	10,762	USA
Bouchard 85	24	691,335	1971	9,157	USA
Bouchard 100	1	9,812	1959	3,910	USA
Bouchard 115	2	177,402	1974	15,480	USA
Bouchard 125	20	496,920	1975	15,480	USA
Brazos	8	249,277	1945&1967	24,354	USA
Burmah Spar	2	925,206	1965	75,543	Liberia
Capt Sam	16	172,705	1934&1957	2,717	USA
Caribe	32	29,527	1968	2,337	Germany

Table #9 Tank Vessels Transferring Product in Maine Waters in 1979 (cont.)

<u>Name of Vessel</u>	<u>No. of Transfers</u>	<u>Barrels Transferred</u>	<u>Date of Build</u>	<u>Deadweight Tons</u>	<u>Port of Registry</u>
Charon	2	248,928	1975	42,489	Netherlands
Cherry Valley	3	647,391	1974	40,312	USA
Chevron Eindhoven	1	171,554	1958	32,566	Netherlands
Christian Reinauer	369	3,445,498	1947	2,286	USA
Columbia	1	100,250	1971	37,874	Galveston
Corinthian	2	927,280	1967	89,194	Monrovia
Cove Explorer	2	154,496	1945	23,787	New York, NY
Cove Ranger	1	178,728	1953	29,775	Wilmington
Cutter Duane	2	1,356			
Cyclops	1	218,859	1975	56,050	Liverpool
Cygnus	1	147,175	1971	28,317	Piraeus
CYS Brilliance	1	327,018	1974	89,965	Monrovia
CYS Guardian	11	560,657	1975	37,199	Monrovia
Dalia	23	5,760,027	1967	71,174	Willemstad
Daphne	4	987,321	1966	71,174	Willemstad
Dea Maris	10	3,768,443	1964	61,202	Monrovia
Delaware	1	24,523	1967	73,257	Monrovia
Dolores Swan	9	731,938	1976	38,877	Monrovia
Dolphin Barge	1	15,392			
Dragon Park	3	330,245	1952&1965	51,751	South Korea
Duane	8	8,213			
Ensis	2	375,695			
Ensker	8	1,352,169	1970	114,450	Nadendal
Esso	1	72,482			
Esso Bahamas	2	147,840	1972	31,100	Monrovia

Table #9 Tank Vessels Transferring Product in Maine Waters in 1979 (cont.)

<u>Name of Vessel</u>	<u>No. of Transfers</u>	<u>Barrels Transferred</u>	<u>Date of Build</u>	<u>Deadweight Tons</u>	<u>Port of Registry</u>
Esso Bangkok	5	176,512	1968	22,755	Panama
Esso Brisbane	2	83,937	1973	22,349	Monrovia
Esso Guam	1	125,561	1973	22,678	Monrovia
Esso Interamerica	1	149,008	1969	21,286	Panama
Esso Karachi	4	266,957	1969	21,324	Panama
Esso Kure	1	125,120	1970	21,446	Monrovia
Esso Malacca	5	321,593	1969	21,324	Panama
Esso Nagoya	2	135,884	1973	22,678	Monrovia
Esso Shimizu	1	162,228	1973	23,877	Monrovia
Exxon 5 Baystate	251	5,270,635	1970	8,142	Wilmington, DE
Exxon New York	5	75,633			
Exxon Ocean State	6	139,962			
Fina Italie	2	1,477,616	1975	117,992	Dunkirk, France
Finale	2	223,014	1960	39,270	Savona, Italy
Forth Worth	13	443,116	1945	28,045	Wilmington, DE
Francis Bushey	1	20,734	1955	2,540	New York
G. Tilton	18	1,029,158	1968	10,000	USA
Geo. Whitlock II	2	15,373	1942		New York
Gladys	1	362,492	1976	79,999	Monrovia
Go Go Rahn	1	119,440			
Golden Park	4	896,627	1952	53,313	Busan, S. Korea
Good Hope	4	392,521	1955	28,686	Monrovia
Great Lakes	22	554,902	1963	4,593	Wilmington, DE
Green Trader	3	197,582	1976	36,981	Monrovia
Gulf Crest	15	425,929	1959	31,300	Wilmington, DE

Table #9 Tank Vessels Transferring Product in Maine Waters in 1979 (cont.)

<u>Name of Vessel</u>	<u>No. of Transfers</u>	<u>Barrels Transferred</u>	<u>Date of Build</u>	<u>Deadweight Tons</u>	<u>Port of Registry</u>
Gulf Deer	11	354,328	1944	21,361	Wilmington
Gulf Lion	2	148,076	1944	21,110	Wilmington
Gulf Oil	13	436,359	1960	29,708	Wilmington
Gulf Solar	5	212,210	1959	29,708	Wilmington
Gulf Spray	15	459,005	1960	29,708	Wilmington
Gulf Supreme	30	844,593	1961	31,300	Phila., PA
Gulf Tiger	16	509,216	1958	20,225	Wilmington
Harbor Supply	1	459			
Harold Reinauer	186	1,660,509	1947	1,118	Boston
Henning Maersk	2	143,234	1963	36,923	Copenhagen
Herbert Reinauer	2	25,101			
Hess Oil Company	1	23,758			
Holy Queen	1	288,116	1975	87,281	Singapore
Independencia II	1	48,722	1973	29,926	Puerto LaCruz, Ven.
Interstate 35	15	317,659	1973	2,167	Hampton Roads
Interstate 48	1	44,890			
Interstate 54	4	117,399			
Interstate 71	1	22,174	1975	5,477	Port Arthur
Irving Stream	1	172,545	1952	29,933	Hamilton, Bermuda
Janet C	3	106,723	1970	21,546	Piraeus
John P Goulandris	2	475,516	1966	80,023	Monrovia
Karen Tibbetts	4	31,677	1941		Boston
Katherine Tilton	1	29,471	1972	4,552	
Kittanning	3	1,081,251	1977	92,769	Wilmington
Kurdistan	1	229,774	1973	32,531	Newcastle

Table #9 Tank Vessels Transferring Product in Maine Waters in 1979 (cont.)

<u>Name of Vessel</u>	<u>No. of Transfers</u>	<u>Barrels Transferred</u>	<u>Date of Build</u>	<u>Deadweight Tons</u>	<u>Port of Registry</u>
Kurushima Maru	1	552,668	1973	84,039	Tokyo
Larissa	2	341,087	1976	36,236	Monrovia
Lily H	4	685,532			
London Confidence	1	107,748	1962	34,050	London
Louisiana Getty	17	687,989	1968	25,490	Wilmington
Maraucco Abaco	4	68,440			
Maria	2	90,183	1972	7,620	Skarhamm, Sweden
Messidor	1	562,390	1969	80,759	Dunkirk
Messiniaki Aimonía	1	182,924			
Michael	1	350,537	1959	45,011	Monrovia
Misc Barges	21	21,244			
Mistral	1	493,691	1959	25,350	Helsinki
Mobil 35	3	100,413	1968	5,000	NYC
Mobil Aero	6	314,782	1959	31,516	New York
Mobil Chicago	3	50,355	1953	3,698	Chicago
Mobil Engineer	1	97,597	1973	32,590	Monrovia
Mobil Fuel	22	776,972	1957	31,645	Wilmington
Mobil Lube	13	884,819	1958	29,695	New York
Mobil Power	23	1,031,699	1957	31,457	Wilmington
Mobilgas	10	426,682	1956	27,375	Wilmington
Moimac Sky	1	223,374			
Morania 210	14	260,839	1971	3,111	
Mosprince	1	347,619	1966	82,778	Kristiansand, Norway
Mt El Rakwa	1	116,782			
New Concord	10	1,096,985	1973	37,842	Monrovia

Table #9 Tank Vessels Transferring Product in Maine Waters in 1979 (cont.)

<u>Name of Vessel</u>	<u>No. of Transfers</u>	<u>Barrels Transferred</u>	<u>Date of Build</u>	<u>Deadweight Tons</u>	<u>Port of Registry</u>
New York Getty	2	172,674	1954	29,270	Wilmington
Newnham	5	504,587	1966	85,048	Panama
Nitsa	1	71,053	1971	28,317	Piraeus
Nora Maersk	2	485,908	1977	69,900	Helsingør, Denmark
Normac Star	2	426,691			
Nostos	1	103,038	1960	36,451	Piraeus
Noufaro	4	599,659	1960	27,557	Piraeus
Ocean 250	60	1,812,941	1970	14,670	USA
Ocean 96	33	808,313	1969	6,278	USA
Oceanic Grandeur	1	422,933			
Ogden Challenger	4	461,394	1960	33,822	USA
Olympic Freedom	3	496,147	1964	96,842	Liberia
Olympic Star	3	993,682			
Olympic Sun	2	9,352	1955	30,608	Liberia
Olympic Sun II	1	507,393	1975	82,056	Liberia
Orinoco	2	71,022			
Oygnus M T	1	60,328			
Pacific	1	350,545	1965	67,149	Liberia
Pallium	1	56,582	1959	19,884	United Kingdom
Pasadena	5	753,148	1976	32,000	Denmark
Patro	3	1,035,614	1959	50,082	Liberia
Peter R Heame	1	20,182	1971	1,215	USA
Phoenix	4	433,592			
Poling	18	157,310	1924	2,314	USA
Polycastle	4	168,932	1963	46,687	

Table #9 Tank Vessels Transferring Product in Maine Waters in 1979 (cont.)

<u>Name of Vessel</u>	<u>No. of Transfers</u>	<u>Barrels Transferred</u>	<u>Date of Build</u>	<u>Deadweight Tons</u>	<u>Port of Registry</u>
Prosperity Queen	5	586,091			
Providence Getty	2	31,592	1945	3,988	USA
Punta Arenas	6	883,299	1973	36,474	Liberia
Ralph O Rhoades	4	988,600	1963	49,532	Liberia
Revere Sun	43	390,979	1971	1,573	USA
Rodesto	1	217,027			
RTC 320	1	14,895	1972	1,216	USA
RTC 330	3	53,911			
Saint Chris	2	330,817	1967	74,567	Liberia
San Antonio	1	210,930	1965	27,590	USA
San Marcos	4	221,504	1971	5,047	Panama
Sandra Leigh	2	263	1927	14	USA
Sealift Atlantic	1	149,088			
Shabonee	3	160,328	1971	26,675	United Kingdom
Shoko Maru	4	566,492	1976	87,370	Japan
Spes	1	349,351	1968	78,595	Panama
Spirit of Liberty	2	195,239	1968	38,851	USA
Sprague Arcturus	6	664,316			
Sprague Capella	7	779,244			
Star Capella	6	725,843	1973	37,836	Liberia
Star Route	1	61,436			
Tanit	2	63,687			
Texaco 807	5	375,401			
Texaco 808	8	955,009	1973	2,714	USA
Texaco Alaska	2	303,837	1960	42,046	Panama
Texaco Anacortes	1	326,533	1961	47,950	Panama

Table #9 Tank Vessels Transferring Product in Maine Waters in 1979 (cont.)

<u>Name of Vessel</u>	<u>No. of Transfers</u>	<u>Barrels Transferred</u>	<u>Date of Build</u>	<u>Deadweight Tons</u>	<u>Port of Registry</u>
Texaco Hawaii	1	347,601	1960	47,386	Panama
Texaco Maine	1	338,464	1959	47,187	Panama
Texaco Maryland	4	421,086	1963	29,976	USA
Texaco Mass	5	373,320	1963	26,141	USA
Texaco Montana	2	201,977	1965	26,990	USA
Texaco North Dakota	1	94,716	1953	20,482	USA
Texaco Rhode Island	3	368,147	1964	25,821	USA
Texaco Scandinavia	1	65,815	1962	21,502	Oslo, Norway
Texaco Texas	3	163,340	1949	30,221	Panama
Texaco Virginia	1	311,683	1958	43,838	Panama
Texaco Wellington	2	48,860	1944	23,680	United Kingdom
Thalassini Tyhi	3	649,200	1977	155,300	Greece
Theodohos	1	122,206	1965	69,864	Greece
Thracia Shirley	2	420,778			
Thyella	12	3,348,486	1966	70,247	Liberia
Timbo	2	187,509	1943	31,096	Liberia
Toledo Sun	2	28,139	1968	4,425	USA
Tolmiros	1	432,681	1963	59,322	Greece
Trinity	2	174,162	1944	26,562	USA
Unknown	4	93,354			
Vega Seal	4	646,342	1970	102,799	United Kingdom
Viana	1	200,651	1960	35,724	Netherlands
Vincent Tibbetts	401	3,294,723	1944	1,839	USA
Virginia Star	4	498,141	1973	83,366	Singapore
Volga Maru	3	1,059,984	1969	76,286	Japan
Western Sun	2	86,171	1954	32,339	USA
William McLoon	68	9,701	1954	97	USA
Wilmington Getty	2	52,573	1944	25,588	USA