

# 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:**

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947-6746

415 CONGRESS STREET  
PORTLAND 04101  
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OIL POLLUTION CONTROL  
40 COMMERCIAL STREET  
PORTLAND  
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OIL SPILL REPORTS ONLY  
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CITIZENS' ENVIRONMENTAL  
ASSISTANCE SERVICE  
289-2691  
(TOLL FREE) 1-800-452-1942

## STATEWIDE

## OIL SPILL STATISTICAL REPORT

for 1978

Compiled by:

Staff of the Division of  
Oil Conveyance Services  
Bureau of Water Quality Control  
Department of Environmental Protection

TD  
427  
.P4  
M34  
1978

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TABLE #1 (Jan. 1978 Thru Nov. 1978) Transactions at DEP Marine Terminals (licensed)

TERMINAL	LICENSE #	# TRANSFERS	TOTAL VOLUME IN BARRELS
Chevron Oil So. Portland	300	223	4,989,951
Exxon Co. So. Portland	301	119	2,399,927
Getty So. Portland	302	43	1,117,796
King Resources Long Island	303	66	903,996
Mobil Oil So. Portland	304	182	7,520,405
Portland Pipe Line So. Portland	305 306	177	58,400,121
Texaco So. Portland	307	226	7,907,877
Central Maine Power Cousins Island	308	9	1,268,311
American Oil Co. So. Portland	310	132	2,879,430
Gulf Oil Co. So. Portland	311	364	4,427,977
Shell Oil Co. So. Portland	312	44	1,125,734
Northeast So. Portland	313	5	4,587
Astroline So. Portland	314	158	1,322,133
Webber Oil Co. Portland	315	77	638,848
Astroline Petroleum Corp. Bangor	316	143	1,014,181
C.H. Sprague & Son Co. Bucksport	317	19	2,607,964
Tenco Services Inc. Searsport	320	12	1,319,883

TABLE #1 (Jan. 1978 Thru Nov. 1978) Transactions at DEP Marine Terminals (licensed)  
Cont.

TERMINAL	LICENSE #	# TRANSFERS	TOTAL VOLUME IN BARRELS
Gulf Oil Co. Brewer	321	113	878,643
Irving Oil Corp. Searsport	322	27	2,814,975
Shell Oil Co. Searsport	323	47	540,512
Texaco Inc. Bangor	324	103	816,155
Webber Oil Co. Bangor	325	51	598,078
Webber Tanks Inc. Brewer	326	97	725,160
Webber Tanks Inc. Bucksport	327	248	4,924,513
Chevron Oil Co. Bangor	328	0	0
Henry Young & Co. Matinicus	331	13	1,304
Barrett Paving Materials Bangor	334	18	318,004
Mobil Oil Corp. Pembroke	336	0	0
Vinalhaven Fuel & Marine Corp. Vinalhaven	338	61	14,527
Mcloon Oil Co. Rockland	339	50	14,346
Lamonts Fuel Service Islesboro	340	31	4,848
Central Maine Power Co. Wiscasset	341	2	118,004
Bouchard - 75 Barge	344	1	55,024
Bouchard - 105 Barge	345	0	0

TABLE #1 (Jan. 1978 Thru Nov. 1978) Transactions at DEP Marine Terminals (licensed)  
 Cont.

TERMINAL	LICENSE #	# TRANSFERS	TOTAL VOLUME IN BARRELS
Boston Fuel Transport Co. Barges	401	0	0
Matinicus Off Shore Store Matinicus	405	12	1,068
C.H. Sprague Searsport	319	11	936,035
C.H. Sprague Brewer	318	0	0
TOTALS		<u>2,884</u>	<u>112,611,208</u>

TABLE #2 Transactions By Month at Licensed Oil Terminal Facilities

MONTHS (1978)	NUMBER OF TRANSFERS	TOTAL BARRELS
January	315	14,160,698
February	301	10,517,629
March	286	11,887,796
April	231	11,158,817
May	217	6,523,334
June	232	11,038,653
July	225	8,381,960
August	309	10,885,502
September	260	9,012,201
October	270	9,942,048
November	<u>238</u>	<u>9,102,570</u>
TOTALS	2,884	112,611,208

TABLE #3 STATEWIDE Spill Summary By Incident

INCIDENT CATEGORY	NUMBER OF SPILLS BY INCIDENT CODE	(GALLONS) TOTAL VOLUME
A. Industrial	54	7,607
B. Residential	21	2,024
C. Terminal (licensed)	23	14,842
BP Bulk Plant	17	3,858
SS Service Station	25	5,478
D. Vessel		
F Fishing	5	368
TA Tanker	16	30,322
FR Freighter	1	3
PL Pleasure	4	252
GV Govt. Vessel	7	2,069
O Other	1	0
E. Transportation		
TT Tank Truck	37	4,611
PC Private Car	3	8
TR Commercial Truck	18	1,552
A Airplane	0	0
RR Railroad	2	16,700
F. Other Known Source	9	5,400
G. Mystery	<u>40</u>	<u>907</u>
TOTALS	283	96,001



TABLE # 4 Frequency and Volume of Spills By Product Type

PRODUCT	NUMBER OF SPILLS	% OF TOTAL NUMBER	VOLUME - GALLONS
Crude	7	2.5 %	179
Gasoline	55	19.4 %	9,719
Jet Fuel	5	1.7 %	855
Kerosene	12	4.2 %	1,885
#2 Fuel	87	30.0 %	53,466
Diesel Fuel	33	11.5 %	1,754
#6 Fuel	16	5.5 %	23,021
Lube Oil	20	7.0 %	158
Waste Oil	17	6.0 %	2,697
Misc.	15	5.2 %	2,194
Unknown Product	20	7.0 %	73
TOTALS	<u>*287</u>	<u>100.0 %</u>	<u>96,001</u>

\* Some spills involved more than one product; therefore, this total is greater than the total number of spill incidents which was 283.

TABLE # 5 Medium Effected (Environments)

L = Land Spill

S = Surface Water Spill

G = Ground Water Spill

LS= Land To Surface Water Spill

L = 91

S = 135

G = 6

LS= 51

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283 TOTAL

TABLE # 6 Clean-up Material Summaries

Total Volume Spilled  
96,001 Gallons

Oil Recycled (Gallons)	Liquid Non-Recycleable (Gallons)
21,787	12,808
Solids Combustible (Drums)	Solids Non-Combustible (Yd <sup>3</sup> )
519	3,534 *

Total Oil Removed from Environment  
(Gallons)  
45,024

\* One incident accounted for 2,000 Yd<sup>3</sup> (T<sub>4</sub> R<sub>9</sub> - Schoodic Siding)

TABLE # 7 SPILL RELATED EXPENDITURES

Total Spill Related Expenditures  
\$58,197.97

<u>Clean-up Costs Recovered</u>	<u>Mystery Spill Costs</u>	<u>Costs Pending</u>	<u>Other Costs Not Recovered</u>
\$32,064.70	\$14,127.60*	\$9,060.62	\$2,945.05

Damage Claim Expenditures  
Six (6) Claims Totaling  
\$27,700.00

<u>Amount Settled</u>	<u>Amount Pending</u>	<u>Amount Paid From Fund</u>
\$2,368.66	\$25,332.00	\$00.00

\* One mystery on the Piscataqua River Accounted for \$12,597.15.

TABLE # 8 Spills By Municipality

MUNICIPALITY	NO. OF SPILLS	MUNICIPALITY	NO. OF SPILLS
Alfred	1	Cary	1
Alton	1	Castine	1
Anson	1	Cornish	1
Auburn	4	Costigan	1
Augusta	6	Cross Lake	1
Bangor	16	Cundy's Harbor	1
Bar Harbor	2	Cutler	1
Bass Harbor	3	Damariscotta	2
Bath	17	Damariscotta Mills	1
Beddington	1	Dexter	1
Belfast	3	Dover - Foxcroft	1
Bernard	1	Eliot	1
Bethel	1	Fairfield	2
Biddeford	1	Falmouth	2
Boothbay	4	Farmingdale	1
Brewer	2	Freeport	3
Brunswick	6	Friendship	1
Bucks Harbor	1	Fryburg	1
Bucksport	6	Gardiner	1
Calais	1	Gorham	2
Camden	3	Gray	1
Canton	1	Groveville	1
Cape Small	1	Guilford	1
Caribou	1	Hallowell	1

TABLE # 8 Spills By Municipality (Cont.)

MUNICIPALITY	NO. OF SPILLS	MUNICIPALITY	NO. OF SPILLS
Hampden	1	Norridgewock	1
Hanover	1	Norway	1
Harpswell	2	Oakland	1
Hartland	1	Owl's Head	1
Hodgdon	1	Portland	33
Holden	1	Presque Isle	4
Hope	1	Rangley	1
Jackson	1	Readfield	1
Jefferson	1	Rockland	7
Kennebunk	2	Rockport	1
Kezar Falls	1	Rockwood	2
Lewiston	1	Rumford	1
Limestone	1	Sanford	1
Lincoln	4	Scarborough	1
Livermore Falls	1	Searsport	2
Madawaska	1	Skowhegan	5
Marana Isle	2	Smyrna Mills	1
Matinicus	3	South Portland	44
Mechanic Falls	2	South West Harbor	1
Medway	1	Spruce Head	1
Mexico	1	T2 R9	1
Milbridge	1	T4 R9	1
Millinocket	1	Thomaston	3
Newcastle	1	Topsham	1

TABLE # 8 Spills By Municipality (Cont.)

MUNICIPALITY	NO. OF SPILLS	MUNICIPALITY	NO. OF SPILLS
Union	1	Wells	2
Veazie	2	Westbrook	2
Waldoboro	1	Winthrop	2
Warren	3	Woodland	1
Waterboro	1	Yarmouth	5
Waterville	1	York	2

N. H. Municipalities

Milton	1	Newington	1
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Total Municipalities - 111

TABLE # 9 Spill Frequency Ranking (by Municipality) - Five or more Spills

<u>MUNICIPALITY</u>	<u>FREQUENCY</u>
South Portland	44
Portland	33
Bath	17
Bangor	16
Rockland	7
Bucksport	6
Brunswick	6
Augusta	6
Skowhegan	5
Yarmouth	5

\* Town listed with five or more spills.



TABLE # 10

Tank Vessels Transferring Product in Maine Waters in 1978  
(Jan. thru Nov.)

NAME OF VESSEL	NO. OF TRANSFERS	DATE OF BUILD	DEADWEIGHT TONS	PORT OF REGISTRY
Afran Breeze	2			
Agnigentum	1	1959	63,534	Italy
Albany Sun	3	1965	7,487	USA
Alnair	2	1964	60,221	Liberia
American Eagle	2	1959	33,696	USA
American Trader	1	1967	28,058	USA
Amoco Conn.	4	1943	20,356	USA
Amoco Delaware	10	1944	28,216	USA
Amoco Virginia	10	1943	20,421	USA
Angela F	1	1959	26,243	Greece
Angel Park	3	1954	53,313	S. Korea
Aramare	1	1960	34,671	Venezuela
Arctic Star	1	1964	60,160	Liberia
Argyll	3	1962	57,370	U. K.
Astro	1	1956	27,338	Greece
Aubrey Huggins	31			USA
Aurelia	1	1965	75,939	Liberia
Baco	1			
Balderborg	1	1963	61,471	Norway
Bert Reinauer	206	1938	3,062	USA
BFT 50	3	1972	47,500	USA
BFT 1	1	1944	2,543	USA
BFT 17	3			USA
BFT 300	102	1949	1,714	USA

TABLE # 10 Tank Vessels Transferring Product in Maine Waters in 1978  
(Jan. thru Nov.) Cont.

NAME OF VESSEL	NO. OF TRANSFERS	DATE OF BUILD	DEADWEIGHT TONS	PORT OF REGISTRY
Bilboa	1	1962	33,635	Spain
Bobbie E	205	1968	112 approx.	USA
B 25	2	1967	3,571 "	USA
B 65	59	1968	10,762 "	USA
B 75	4	1970	9,264 "	USA
B 85	4	1971	9,157 "	USA
B 95	7	1972	14,571	USA
B 100	1	1959	3,910	USA
B 105	5	1971	14,666	USA
B 115	4	1974	15,480	USA
B 125	37	1975	15,480	USA
BP 250 (Ocean)	30	1970	36,429	USA
Burmah Agate	1	1963	61,674	Liberia
Burmah Spar	1	1965	75,543	Liberia
Cadwalader	5	1967	105,450	U. K.
Calatrava	1	1965	50,376	Spain
Capisteria	4	1960	50,082	Liberia
Captain Sam	25	1934	2,717	USA
Carl Reinauer	5			USA
Caspian Trader	2	1969	76,882	Liberia
Chevron	5			USA
Chevron Eindhoven	3	1958	32,566	Netherlands
Christian Reinauer	422	1947	2,286	USA
Cibro N.Y.	1		17,877	USA

TABLE # 10 Tank Vessels Transferring Product in Maine Waters in 1978  
(Jan. thru Nov.) Cont.

NAME OF VESSEL	NO. OF TRANSFERS	DATE OF BUILD	DEADWEIGHT TONS	PORT OF REGISTRY
Colorado	7	1944	31,081	USA
Cygnus	2	1971	28,317	Greece
Dallia	2	1967	71,174	Netherland Antillies
Dea Maris	8	1964	61,202	Liberia
Delaware	2	1967	73,257	Liberia
Despina Al	1	1965	66,144	Greece
Diala	14	1966	70,895	Germany
Diane	1	1965	61,159	Liberia
Diloma	6	1966	70,331	Netherland Antillies
Dolores Swann	3	1976	38,877	Liberia
Doric	1	1966	85,419	Liberia
Dragon Park	3	1952	51,751	S. Korea
Eastern Hazel	1	1972	76,370	Liberia
Eastern Sun	3	1955	32,389	USA
Epiros	5	1960	26,708	Greece
Esso	1			
Esso Bayonne	3	1974	29,659	Liberia
Esso Brisbane	1	1973	22,349	Liberia
Esso Castellon	3	1968	77,514	Panama
Esso Elsinore	1	1975	38,741	Denmark
Esso Milano	21	1965	71,438	Italy
Esso Mukaishina	1	1973	22,733	Liberia
Esso St Petersburg	2	1976	38,987	Liberia
Explorer	6			

TABLE # 10 Tank Vessels Transferring Product in Maine Waters in 1978  
(Jan. thru Nov.) Cont.

NAME OF VESSEL	NO. OF TRANSFERS	DATE OF BUILD	DEADWEIGHT TONS	PORT OF REGISTRY
Exxon	1	1959	2,329	USA
Exxon #5	201	1970	8,142	USA
Exxon Florence	3	1954	29,210	USA
Evanthia	2	1966	79,781	Liberia
Fanny	1	1967	101,960	Finland
Fina Italie	2	1975	117,992	France
Francis Bushey	6	1955	2,540	USA
George Champion	1	1958	88,818	Liberia
George T. Tilton	17	1968	10,000	USA
George Whitlock	3	1942	2,229	USA
Gherostos	1	1964	60,173	Liberia
Golden Park	3	1952	53,313	S. Korea
Good Hope	2	1955	28,686	Liberia
Great Lakes	15	1963	4,593	USA
Guernica	1	1962	33,635	Spain
Gulfcrest	8	1959	31,300	USA
Gulflion	3	1944	21,110	USA
Gulfoil	13	1960	29,708	USA
Gulfpride	48	1956	29,708	USA
Gulfsolar	19	1959	29,708	USA
Gulfspray	2	1960	29,708	USA
Gulf supreme	3	1961	31,300	USA
Harold H Helm	1	1958	88,872	Liberia
Harold Reinauer	240	1947	1,118	USA

TABLE # 10 Tank Vessels Transferring Product in Maine Waters in 1978  
(Jan. thru Nov.) Cont.

NAME OF VESSEL	NO. OF TRANSFERS	DATE OF BUILD	DEADWEIGHT TONS	PORT OF REGISTRY
Holy Queen	2	1975	87,281	Singapore
Hot Oil	2	1949	1,653	USA
Hygrade 42	5	1968	6,000	USA
Interstate #8	8	1937	1,956	USA
Ionic	2	1960	85,578	Liberia
Irving Glen	3	1956	20,256	Bahamas
Irving Sealion	1			
Irvingstream	5	1052	23,933	Bermuda
Janet C	2	1970	21,546	Greece
J. Frank Drake	2	1064	70,331	Netherland Antillies
K. Tilton	4	1972	4,552	USA
Long Phoenix	3	1961	51,361	Norway
Louisiana Getty	37	1944	25,490	USA
Lucerna	2	1975	39,865	U.K.
Manhattan Duke	1	1976	82,279	Singapore
Mariam	1			
Margaret Simone	1	1966	81,157	Panama
Mercedes	1	1973	78,130	Germany
Messiaman	1			
Messinaki Lampis	1	1972	30,282	Greece
Mistral	1	1953	25,350	Panama
Metco	1			
Mobil 35	7		5,000	USA
Mobil Aero	10	1959	31,516	USA

TABLE # 10 Tank Vessels Transferring Product in Maine Waters in 1978  
(Jan. thru Nov.) Cont.

NAME OF VESSEL	NO. OF TRANSFERS	DATE OF BUILD	DEADWEIGHT TONS	PORT OF REGISTRY
Mobil Chicago	1	1953	3,698	USA
Mobil Engineer	2	1973	32,590	Liberia
Mobil Fuel	4	1957	31,645	USA
Mobil Gas	10	1956	27,375	USA
Mobil Lube	10	1958	29,695	USA
Mobil Navigator	2	1973	32,590	Liberia
Mobil Power	9	1957	31,457	USA
Morania 210	33	1971	3,111	USA
Neches	6	1943	16,692	USA
Nepco 142	4	1975	21,714	USA
N.Y. Getty	4	1954	29,270	USA
New Concord	10			
Nitsa	2	1971	28,317	Greece
Normac Sky	1			
Normac Star	1			
Nourfaro	1			
Ocean Granduer	1			
Ocean 96	7	1969	13,575	USA
Ogden Wabash	1	1969	38,460	USA
Patro	2	1959	50,082	Liberia
Persepolis	1	1963	54,787	Iran
Poling 7	4	1924	2,357	USA
Poling 8	17	1924	2,314	USA
Poling 9	4	1934	2,425	USA

TABLE # 10 Tank Vessels Transferring Product in Maine Waters in 1978  
(Jan. thru Nov.) Cont.

NAME OF VESSEL	NO. OF TRANSFERS	DATE OF BUILD	DEADWEIGHT TONS	PORT OF REGISTRY
Polycastle	1	1963	46,687	Norway
Potomac	2	1962	55,639	Liberia
Punta Arenas II	2	1973	36,474	Liberia
Putnam	4	1974	6,286	USA
Providence Getty	1	1945	3,988	USA
R.J. Bushey	2			USA
RTC 400	10	1960	4,286	USA
Ralph O Rhoades	6	1963	49,532	Liberia
Reinays (400)	1		6,086	USA
Revere Sun	35	1971	29,429	USA
Richmond	2	1975	6,286	USA
Rockland	1	1975	10,000	USA
Saint Anthony	1			USA
San Jacinto	2	1944	27,344	USA
Scarpemount	2	1961	39,067	Greece
Scarptrades	3	1960	34,039	Greece
Sealift Antarctic	1	1975	27,660	USA
Sealift Arabian Sea	1	1974	27,731	USA
Sibeon	1	1968	77,727	Norway
Silver Park	4	1954	54,139	S. Korea
Star Capella	2	1973	26,900	Greece
Sterling	1	1966	58,826	Liberia
Stratis Rose	2			USA
Susquehanna	1	1972	37,874	USA

TABLE # 10 Tank Vessels Transferring Product in Maine Waters in 1978  
(Jan. thru Nov.) Cont.

NAME OF VESSEL	NO. OF TRANSFERS	DATE OF BUILD	DEADWEIGHT TONS	PORT OF REGISTRY
Theodoras C	1	1958	37,096	Greece
Thomas	1			
Theopaes	1	1960	43,139	Greece
Timbo	2	1943	31,096	Liberia
Texaco 807	4			USA
Texaco 808	12		2,714	USA
Texaco Alaska	3	1960	42,046	Panama
Texaco Bogata	1	1960	22,455	Norway
Texaco Bombay	1	1945	23,798	U.K.
Texaco Georgia	2	1964	25,590	USA
Texaco Idaho	3	1959	43,841	Panama
Texaco Iowa	2	1957	41,944	Panama
Texaco Maryland	2	1963	26,976	USA
Texaco Mass	3	1963	26,141	USA
Texaco Montana	7	1965	26,990	USA
Texaco Ohio	1	1942	28,532	Panama
Texaco Oregon	4	1960	48,008	Panama
Texaco Penn	1	1949	10,954	Panama
Texaco Rhode Island	4	1964	25,821	USA
Texaco Rochester	1	1959	33,815	U.K.
Texaco Singapore	1	1945	23,681	U.K.
Texaco Texas	1	1949	30,221	Panama
Texaco Utah	1	1959	48,059	Panama
Texaco Vermont	1	1956	29,846	Panama



TABLE # 10 Tank Vessels Transferring Product in Maine Waters in 1978  
(Jan. thru Nov.) Cont.

NAME OF VESSEL	NO. OF TRANSFERS	DATE OF BUILD	DEADWEIGHT TONS	PORT OF REGISTRY
Tullahoma	26	1944	25,548	USA
Vendemiane	1			
Vincent Tibbetts	362	1944	1,839	USA
Virgo	1	1943	23,738	USA
Volga Maru	1	1969	76,285	Japan
Westchester	12	1975	10,000	USA
Western Sun	1	1954	32,339	USA
William McLoon	141	1954	119	USA
Yukon Maru	1	1973	79,986	Japan
Zapata Patriot	1	1975	35,663	USA
Unknown Barges	<u>27</u>			
TOTAL	2884			

TABLE # 11      Tank Vessels Making Over 200 Transfers In 1978

TANK VESSELS	NO. OF TRANSFERS
Christian Reinauer	422
Vincent Tibbetts	362
Harold Reinauer	240
Bert Reinauer	206
Bobbie E	205
Exxon Baystate	<u>201</u>
TOTALS	1636

TABLE # 12

Potential Oil Spills - January 1978 - December 1978

<u>DATE</u>	<u>VESSEL</u>	<u>REGISTRY</u>	<u>TYPE OF MISHAP</u>	<u>COMMENT</u>	<u>CARGO/CAPACITY</u>
04-02-78	Texaco Ohio	American	Collision	Collided with Bridge Pilings, Fore River	Cap. 28,532 DWT
06-07-78	Neches	American	Collision	Collided with Bridge Pilings, Fore River	Cap. 16,692 DWT
06-17-78	Bobbie E	American	Steering Failure	Steering Failed in Penobscot Bay	Cap. 33,000 Gals.
06-21-78	Irving Birch	American	Collision	Collided with Bridge Fore River	Cap. Unknown
07-11-78	Barge B 105	American	Collision	Collided with Bridge Piling, Fore River	Cap. 102,662 Bbls.
07-28-78	William McLoon	American	Grounding	Grounded off Swans Island	Cap. 35,000 Gals.
09-10-78	Bobbie E	American	Disabled	Disabled in Boothbay Harbor	Cap. 33,000 Gals.
10-15-78	Bert Reinauer	American	Collision	Collided with Pier in Searsport	Cap. 3,062 DWT
11-02-78	USNS Arabian	American	Grounding	Slipped mooring and grounded in Portsmouth	Cargo 216,000 Bbls.
12-19-78	Bobbie E	American	Disabled	Disabled Gulf of Maine	Cap. 33,000 Gals.

## SUMMARY

The following summary of the preceding tables is written in order to assist the reader in better understanding the significance of the tables as they relate to the oil pollution problem in Maine. The summary reflects information compiled in 1976 and 1977 statistical reports as well, providing three years of data to base our conclusions on.

- Table 1: Table 1 summarizes the number and amount of transfers at our oil terminal facilities. The figures show that 112,611,208 barrels of oil were transferred during 2884 transfer operations at our 37 licensed terminals between January 1 and November 30, 1978. More than half of the oil transferred in that time period was transferred by one terminal, the Portland Pipeline Corporation.
- Table 2: Table 2 summarizes the transfers by month. There appears to be no real correlation between the month of the year and volume transferred. However, it is noted that January, one of the coldest months of the year, was the month with the greatest volume transferred. This may be related to a larger demand for heating oils at that time of year.
- Table 3: Table 3 breaks down our oil spills into major source categories. The Division of Oil Conveyance Services responded to 283 spills involving over 96,000 gallons of oil in 1978. As in previous years it is readily noted that spills occur almost everywhere that oil is stored or transferred. The year 1978 varied from past trends in several categories. Tank truck related spill volumes were down significantly while tanker related spill volumes were up sharply. One reason for the large tanker spill volumes was the grounding of the Harold Reinauer which spilled over 23,000 gallons of #2 fuel oil.
- Also of interest was the fact that the number of mystery spills was cut almost in half over the previous two years.
- Table 4: Table 4 summarizes the year's spills by product type. As in the past two years it readily noted that the majority of spills, both in number and volume involve products which are most widely used. Gasoline and #2 fuel oil have repeatedly stood out as the most often spilled oils.

As in years past crude oil spillage has been minimal. In 1978 only seven spills involving crude were reported. These seven spills involved 179 gallons, all of which was spilled within a containment boom.

Table 5: Table 5 Medium Effectuated (Environments) is a new addition to the statistics. With the increasing concern over the protection of all State waters, it was felt that a category should be devised that would enable the Division of Oil Conveyance Services to better evaluate oil spills with regard to the environment they effect. Therefore, this table was created to (1) determine what environments are effectuated, (2) frequency of these incidents and (3) provide a basis for evaluating the future trends of the oil program.

In summarizing this table, it should be noted that of the 283 spills responded to, 182 directly effectuated the State's waters. The remaining 91, while confirmed to the land, in many cases posed a potential threat to the State's waters and were, therefore, cleaned up as a pollution prevention measure.

The category LS denotes spills which originally occurred on land, but somehow eventually managed to pollute surface State waters.

Finally, the category G, groundwater spill, showed that the Division of Oil Conveyance Services responded to six spills which directly effectuated the groundwater. With the increasing awareness of groundwater protection it is felt that this figure will increase in the future.

Table 6: Table 6 summarizes the amounts of materials generated in the process of cleaning up oil spills. It is felt that this table is very important to the future needs of the oil program, as it objectively gives an overview of the results of our clean up efforts.

From the figures it can be seen that 21,787 gallons, or 23% of all oil spilled was recovered in usable form. Also, that of the 96,001 gallons spilled, 45,024 gallons or 47%, of the total oil spilled was effectively removed from the environment.

The Liquid Non-Recoverable category denotes the volume of liquids, generally water, which have been recovered as the result of clean up operations and are to some degree contaminated by oil.

The Solids combustible category indicates the amount of burnable materials accumulated as the result of clean up operations. Fifty-five gallon drums are used as the volume measure for these materials as they are the commonly used storage/transportation receptacles.

The category, Solids Non-Combustibles generated, is very significant. This category denotes the amount of solids generated for 1978 which cannot be incinerated and must be disposed of by an alternate method. Historically, these have been managed on a case by case basis using locally available disposal sites. However, with the advent of sanitary landfills, together with the public's increasing awareness of environmental concerns, the Division of Oil Conveyance Services finds that many times it cannot deal with these materials in an efficient manner. If the oil program is to be effective, a solution to this problem will have to be found.

As a result of the public's concern over groundwater protection, it is felt that excavation as a clean up technique will be employed more frequently in the future. If this does occur, then the amounts of non-combustible solids generated can be expected to increase.

The Division of Oil Conveyance Services feels that this table reflects the success of the oil program for the year 1978. In addition, the information from this table will be used to evaluate the effectiveness of the present program as well as to serve as an indication for future needs.

Table 7: This table involves oil spill related costs which were paid from the Maine Coastal Protection Fund.

More than \$58,000 were expended from the fund for clean up operations. Of this amount \$13,583.63 has been recovered from the spillors, \$14,127.60 was spent cleaning up mystery spills and \$27,541.69 remains outstanding.

One incident accounted for \$23,334.74 of the outstanding monies. It is anticipated that the Fund will be reimbursed in full for these costs.

No monies were spent from the Fund to pay for third party claims, although several claims are still pending.

Table 8: Table 8 lists all towns in Maine which experienced oil spills in 1978. Although many of the spills occur in our more populated towns, it is clear that no town is immune to oil spills. One hundred eleven different towns experienced oil spills in 1978.

Table 9: Table 9 lists the ten communities in the State which suffered 5 or more oil spills in 1978. Each of the towns are in relatively high populated areas and many are located along the coast or on major rivers.

Table 10: This table lists all vessels which transferred product at the State's licensed oil terminal facilities. Two thousand eight hundred eighty four transfers involving vessels ranging from 112 deadweight ton capacity to 117,999 deadweight ton capacity took place in 1978. The date of construction as well as the port of registry of the vessel is listed for each of the vessels. The ages of the vessels ranged from two years to fifty-four years.

Table 11: Table 11 lists those vessels in Table 10 which conducted 200 or more transfers in 1978. These are the smaller coastal vessels which transport oil between Boston, Portland and Bangor. Of the 2884 transfers recorded in 1978, six vessels accounted for 1636 transfers.

Although the much larger vessels have a greater potential for a major spill, the smaller coastal tankers run a greater risk of spillage because of their greater number of trips and transfers made.

Table 12: Table 12 lists 10 separate incidents which could have resulted in a significant coastal spill. Of particular interest was an incident which occurred in the Piscataqua River in November of 1978. The vessel USNS Arabian loaded with 216,000 barrels of jet fuel broke away from the dock and grounded out. Fortunately no product was spilled.

The incidents are listed to show that the potential for a major spill is ever present. We have been fortunate over the past few years in that no major spills have occurred.

However, the Division of Oil Conveyance Services and the oil handling industry must continue our efforts to prevent spills from occurring while at the same time continue to increase our capabilities of cleaning up oil spills when they do occur.