

# MAINE STATE LEGISLATURE

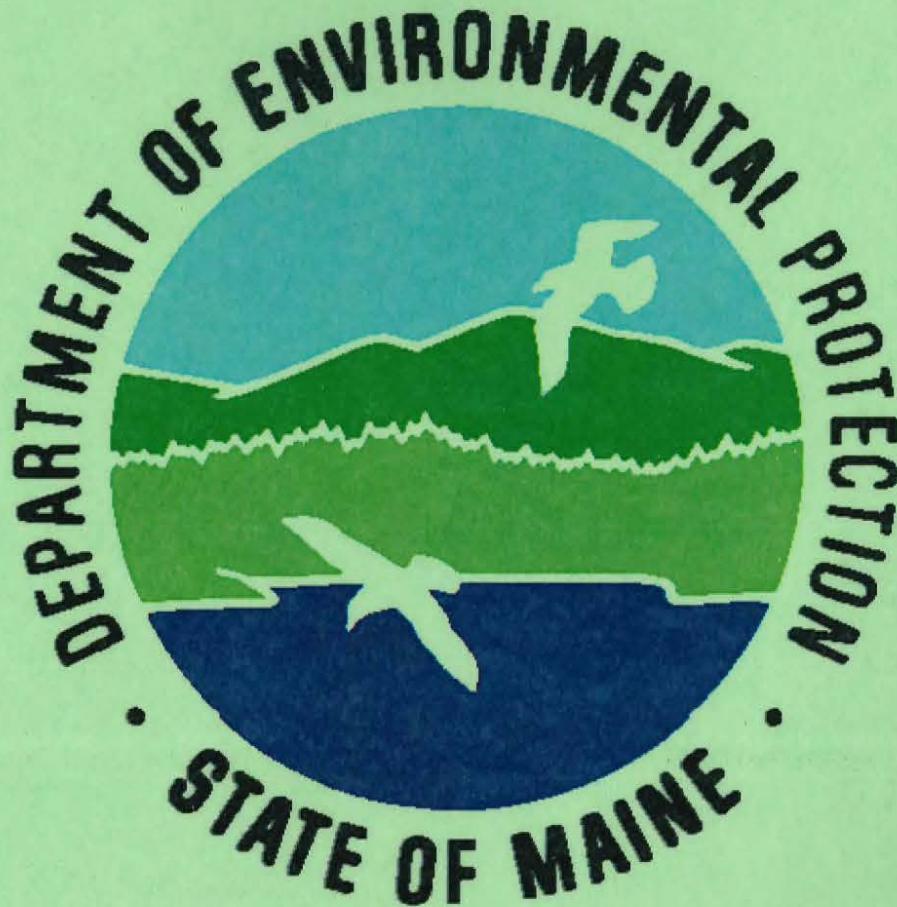
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**2006  
Statistical Report  
Division of Response Services  
Spill Report Case Load**

**Bureau of Remediation & Waste Management**



June 2010

TD  
1042  
.M2  
S74  
2006

Compiled by:  
Diana J. Frith



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## INTRODUCTION

This report is the Maine Department of Environmental Protection's (DEP) statewide Statistical Report for the Division of Response Services (Response Services) spill caseload in 2006. Response Services staff in the Bureau of Remediation and Waste Management respond to oil and hazardous material spills throughout the state and act to mitigate the damage of these events to Maine's environment, public safety, and public health. In 2006, Response Services employees included 25 Oil and Hazardous Material Specialists (OHMS), two Environmental Specialists, three Maintenance Mechanics, one Staff Development Specialist, one Health and Safety Director, and one Division Director. In 2006, Response Services filed 2,974 reports dealing with oil and hazardous incidents throughout Maine. A summary of these filings is contained in this report. These statistics examine Response Services' activity from a variety of perspectives in an attempt to highlight both Maine's environmental concerns and the varieties and numbers of situations Response Services personnel handle in a year.

The reader may notice a slight discrepancy in the total number of reports for the year. Several months are needed to compile all of the data, and the database content may change slightly during that time period. However, we at the Department are confident that these discrepancies are insignificant in regards to the statistical summaries. This report was run on June 18, 2010. Data is representative of this date.

A Response Services report concerns a product that is classified as an oil incident, hazardous material incident, or as a non-oil/non-hazardous incident. An oil incident or a hazardous material incident is where a known or unknown product was released to the environment. The product also may have spilled at an industrial site, but was contained and diverted to a neutralization system, or fully recovered from a containment area and put back into a production process. A non-oil/non-hazardous incident is where a known or unknown product was reported to have been released to the environment; but upon investigation none could be found or the product found did not meet the criteria of an oil or hazardous material. Therefore, the product did not fall within this Division's jurisdiction or DEP was on site in an advisory role (i.e.: tank removals).

Response Services operates out of four regional offices. These are located in Augusta, Bangor, Portland, and Presque Isle. Office names are, on occasion, abbreviated:

Augusta	A
Bangor	B
Portland	P
Presque Isle	PI

Abbreviations may also be used with Incidents and Hazardous Material:

Incident	Inc
Hazardous	Haz
Materials	Mat

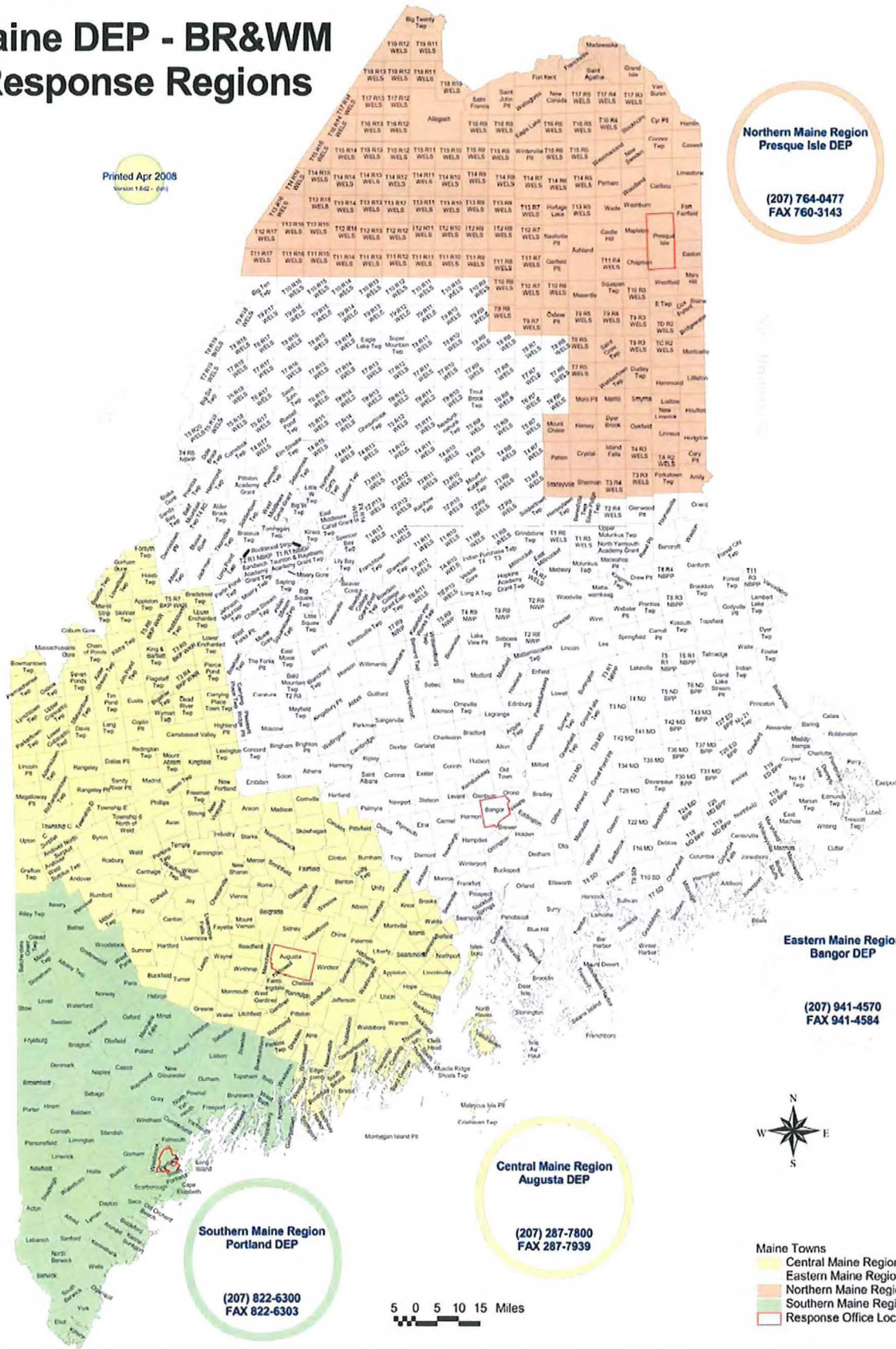


# Maine DEP - BR&WM Response Regions

Printed Apr 2008  
Version 1.62 - (08)

**Northern Maine Region**  
Presque Isle DEP

(207) 764-0477  
FAX 760-3143



**Eastern Maine Region**  
Bangor DEP

(207) 941-4570  
FAX 941-4584

**Southern Maine Region**  
Portland DEP

(207) 822-6300  
FAX 822-6303

**Central Maine Region**  
Augusta DEP

(207) 287-7800  
FAX 287-7939

- Maine Towns
- Central Maine Regional Office
  - Eastern Maine Regional Office
  - Northern Maine Regional Office
  - Southern Maine Regional Office
  - Response Office Locations

5 0 5 10 15 Miles



# Maine DEP - BR&WM Response Regions

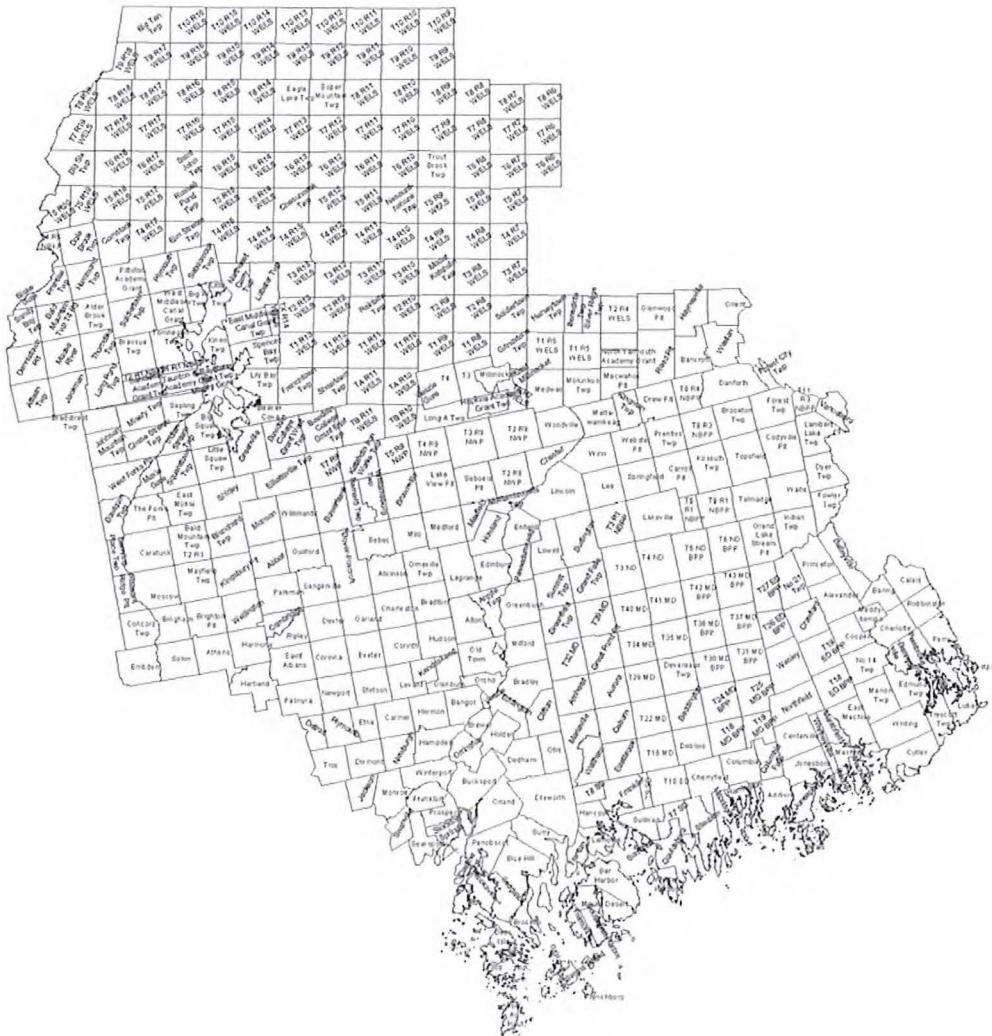
## Augusta Region



Central Maine Region  
Augusta DEP  
(207) 287-7800  
FAX 287-7939

# Maine DEP - BR&WM Response Regions

## Bangor Region



Eastern Maine Region  
Bangor DEP  
(207) 941-4570  
FAX 941-4584

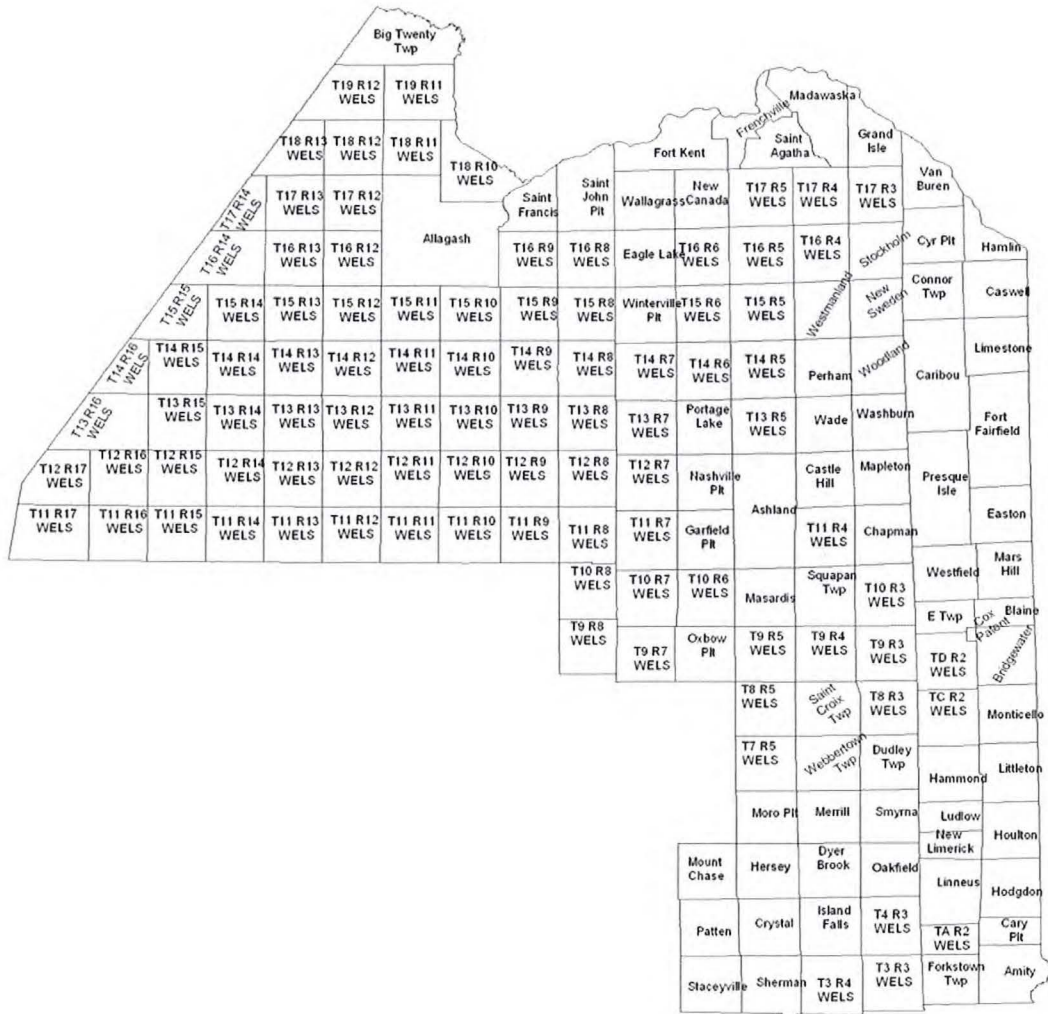
# Maine DEP - BR&WM Response Regions

## Portland Region



# Maine DEP - BR&WM Response Regions

## Presque Isle Region



Northern Maine Region  
Presque Isle DEP  
(207) 764-0477  
FAX 760-3143

## Spills of Interest in 2006

The next two pages list some of the interesting spills that took place during the year. The spill number, location town, and responsible party are listed. A brief synopsis of the official spill report provides basic information about the incident.

### **A-519-2006 Augusta McGee Construction**

The driver of a tractor trailer truck suffered a heart attack at the wheel, resulting in the vehicle crashing into several trees before ending up in the middle of the road. Both the vehicle's diesel and hydraulic systems were compromised resulting in a spill onto the roadway. This was cleaned up with sorbent pads and the remaining fuel in the diesel tank was pumped out.



### **B-522-2006 Deblois Worchester Peat Company**

While cleaning out a channel in a pond designed to catch peat from the bog, an excavator slid off of the dike that it was traveling along and into the pond. The equipment's engine was underwater releasing oil to the pond's surface. Protective sorbent boom was placed across the water. The excavator was successfully removed from the pond a few days later.

### **P-469-2006 Kittery Residence**

Three glass bottles and a can of "Cyanogas," a calcium cyanide product, were found in the basement of a rental property. The two-gallon glass bottle was identified as containing gasoline, or some other light solvent, and kerosene. The two smaller bottles were identified as containing hard cider. The calcium cyanide was over packed and the containers were disposed of as household hazardous waste.



### **A-73-2006 Nobleboro Seasonal Residence**

In January, a kerosene containing outdoor aboveground storage tank at a seasonal camp was hit by a falling tree and fell over. Fortunately, no oil spilled. The camp was located down an unplowed seasonal road, one mile from the main road. The tank was pumped out and a new tank was installed when weather improved.



**B-707-2006 Bar Harbor Multi-Family Residence**

After it was discovered that the drinking water at this rental property was contaminated with gasoline, it was determined that the owner had accidentally spilled an unknown quantity of gasoline on the gravel driveway earlier in the year. Despite the mostly clay soil, the spill had been precisely over a gravel vein that led to the drinking water line. Almost 50 tons of soil were excavated as part of clean-up operations.

**P-427-2006 Shapleigh Seasonal Residence**

A large pool of oil was discovered in the basement when this summer camp was being opened for the season. The tank's filter had been broken off at some point during the winter. Some of the contaminated soil was vactored out of the basement, but complete removal could not occur until the camp was lifted off of its foundation. In addition to the contaminated soil, contaminated water was pumped out of a basement sump and it was cleaned. When clean-up was completed, a new foundation was poured, and the building was put back in place.



**B-681-2006 Brooksville Bucks Harbor Marine**

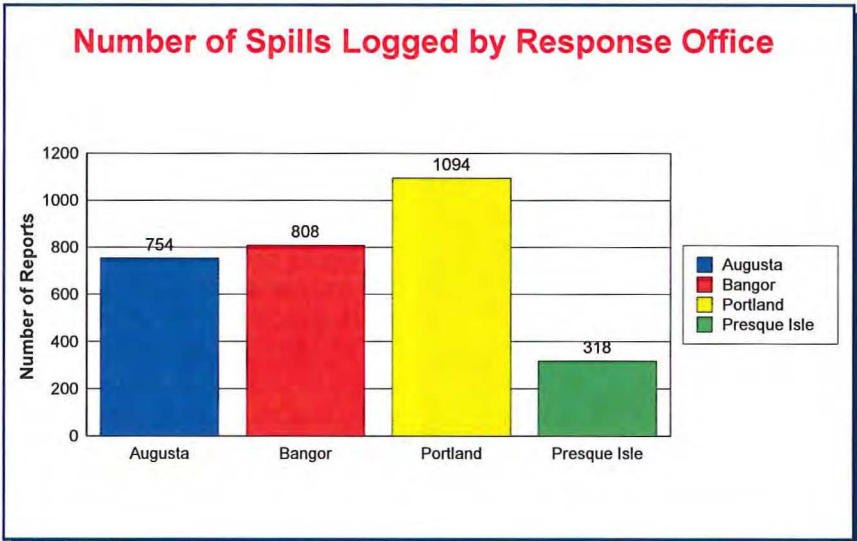
Storm winds sank the wooden sardine carrier *Royal* at its mooring. The vessel had approximately 100 gallons of diesel fuel on board. The owner was cooperative and arranged to have the tanks plugged and the vessel raised. The shoreline was inspected and little sheen was seen. When the vessel was raised, no additional sheen emanated.

**P-451-2006 South Berwick Irving Oil**

A tank trailer carrying 9,500 gallons of diesel rolled over while traveling on Route 236. Neither the trailer tank nor either of the truck's saddle tanks were punctured. The saddle tanks were drilled by Response staff for product removal before the truck was righted without incident.



**Logged Spills  
by Response Office  
and Spill Type  
for the year of  
2006**

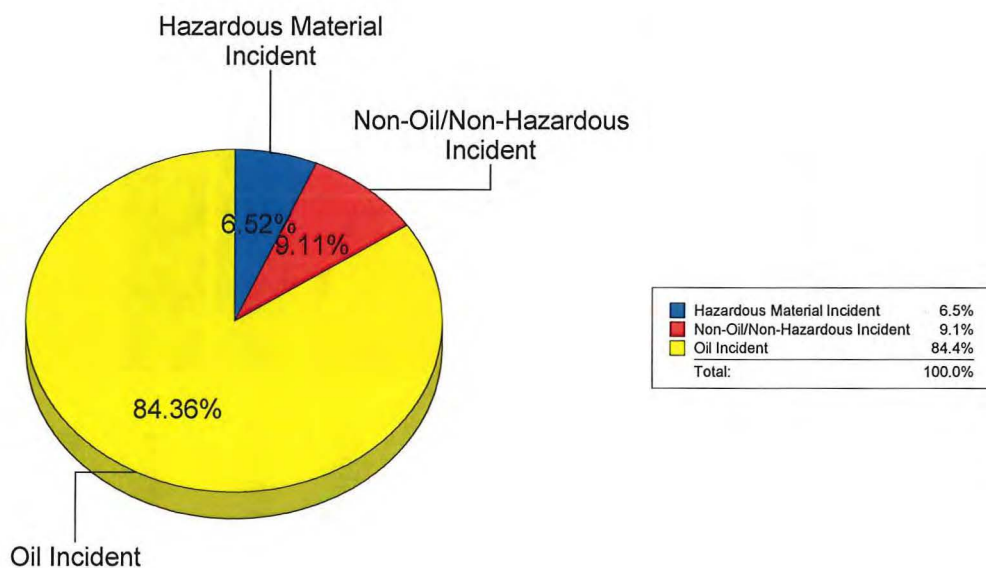


Augusta		
Hazardous Material Incident	42	5.57%
Non-Oil/Non-Hazardous Incident	52	6.90%
Oil Incident	660	87.53%
<b>Office Total Spills</b>	<b>754</b>	
Bangor		
Hazardous Material Incident	49	6.06%
Non-Oil/Non-Hazardous Incident	92	11.39%
Oil Incident	667	82.55%
<b>Office Total Spills</b>	<b>808</b>	
Portland		
Hazardous Material Incident	90	8.23%
Non-Oil/Non-Hazardous Incident	120	10.97%
Oil Incident	884	80.80%
<b>Office Total Spills</b>	<b>1094</b>	
Presque Isle		
Hazardous Material Incident	13	4.09%
Non-Oil/Non-Hazardous Incident	7	2.20%
Oil Incident	298	93.71%
<b>Office Total Spills</b>	<b>318</b>	
<b>Total Spills for 2006</b>	<b>2974</b>	

### Percentage of Spills Logged by Spill Types for 2006

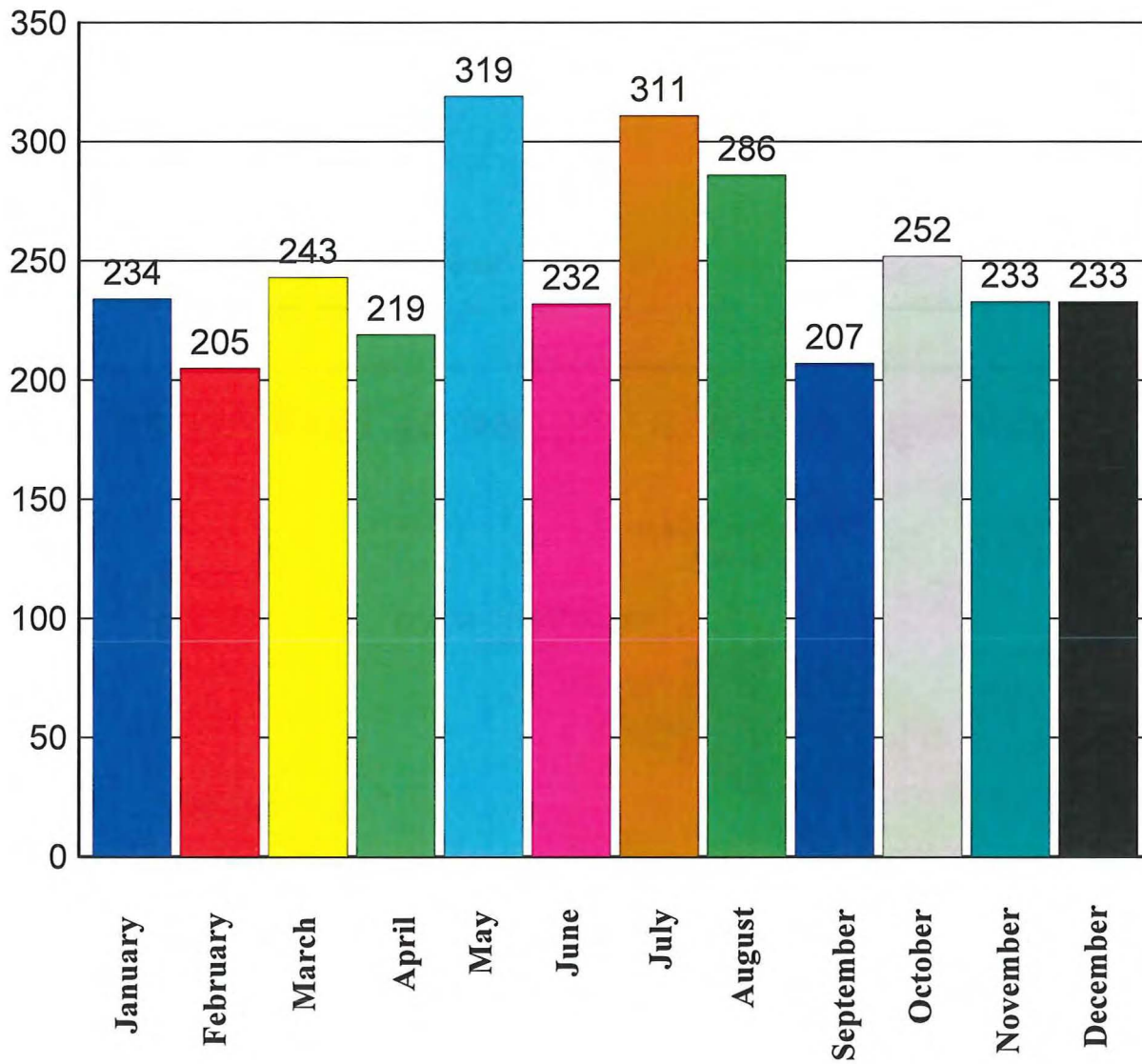
<u>Type of Spill</u>	<u>Number of Spills Logged</u>	<u>Percentage of Spills Logged</u>
Hazardous Material Incident	194	6.52%
Non-Oil/Non-Hazardous Incident	271	9.11%
Oil Incident	2509	84.36%

## Percentage of Spills Logged by Spill Types





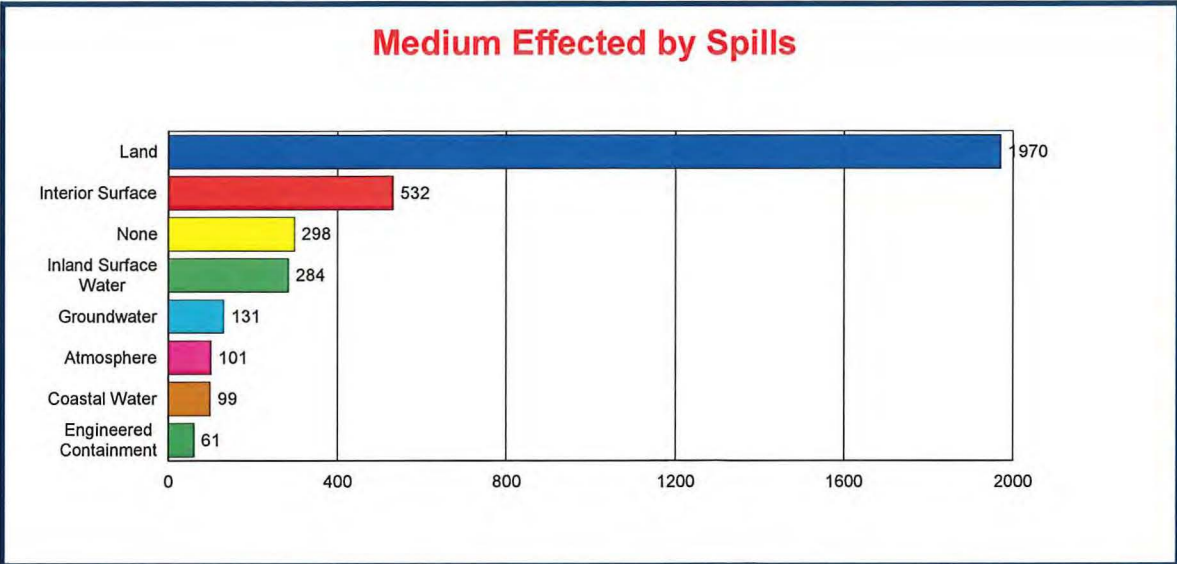
**Number of Spills Reported by Month for 2006**



**Total Number of Spills for 2006**

**2,974**

## Spill Reports Arranged by Medium Effected for 2006



	Augusta	Bangor	Portland	Presque Isle	Total
<b>Land</b>	491	511	721	247	1,970
<b>Interior Surface</b>	131	168	215	18	532
<b>None</b>	64	82	111	41	298
<b>Inland Surface Water</b>	82	71	113	18	284
<b>Groundwater</b>	11	25	81	14	131
<b>Atmosphere</b>	6	7	84	4	101
<b>Coastal Water</b>	33	23	43	0	99
<b>Engineered Containment</b>	17	19	25	0	61
<b>Total</b>	835	906	1,393	342	3,476

The number of Spill Reports reflected does not show the actual number of spills because one spill may have multiple mediums effected. We use "effected" for this report to mean the medium that the discharged product consequently contaminated.

<b>Spill Reports for 2006 by Cause of Spill</b>
---

<u>Augusta</u>	<u>Cause of Spill</u>	<u>Number of Spills</u>
	Accident - Transportation	98
	Accident - Human Error	85
	Mechanical Failure - Piping/Hose	75
	Other - Unknown	65
	Overfill	59
	Accident - Physical Breakage	51
	Corrosion - Tank	43
	Mechanical Failure - Other	43
	Accident - Storm Damage	41
	Other - No Cause	35
	Mechanical Failure - Loose Fitting	32
	Mechanical Failure - Gasket/Seal	26
	Discharge - Deliberate/Other	20
	Other - Known Cause	20
	Accident - Poor Workmanship	12
	Discharge - Vandalism	12
	Corrosion - Piping	10
	Mechanical Failure - Valve	10
	Accident - Other	7
	Discharge - Bilge	4
	Corrosion - Other	3
	Process Failure - Other	3
	Office Total	754

<u>Bangor</u>	<u>Cause of Spill</u>	<u>Number of Spills</u>
	Overfill	98
	Mechanical Failure - Piping/Hose	81
	Other - No Cause	79
	Accident - Human Error	74
	Other - Unknown	71
	Accident - Transportation	60
	Accident - Physical Breakage	52
	Mechanical Failure - Gasket/Seal	52
	Accident - Storm Damage	46
	Corrosion - Tank	42
	Mechanical Failure - Loose Fitting	27
	Mechanical Failure - Other	26
	Other - Known Cause	21
	Discharge - Vandalism	14
	Corrosion - Piping	13
	Corrosion - Other	12
	Accident - Other	11
	Discharge - Deliberate/Other	10
	Accident - Poor Workmanship	9
	Mechanical Failure - Valve	8
	Discharge - Bilge	1
	Process Failure - Other	1
	Office Total	808

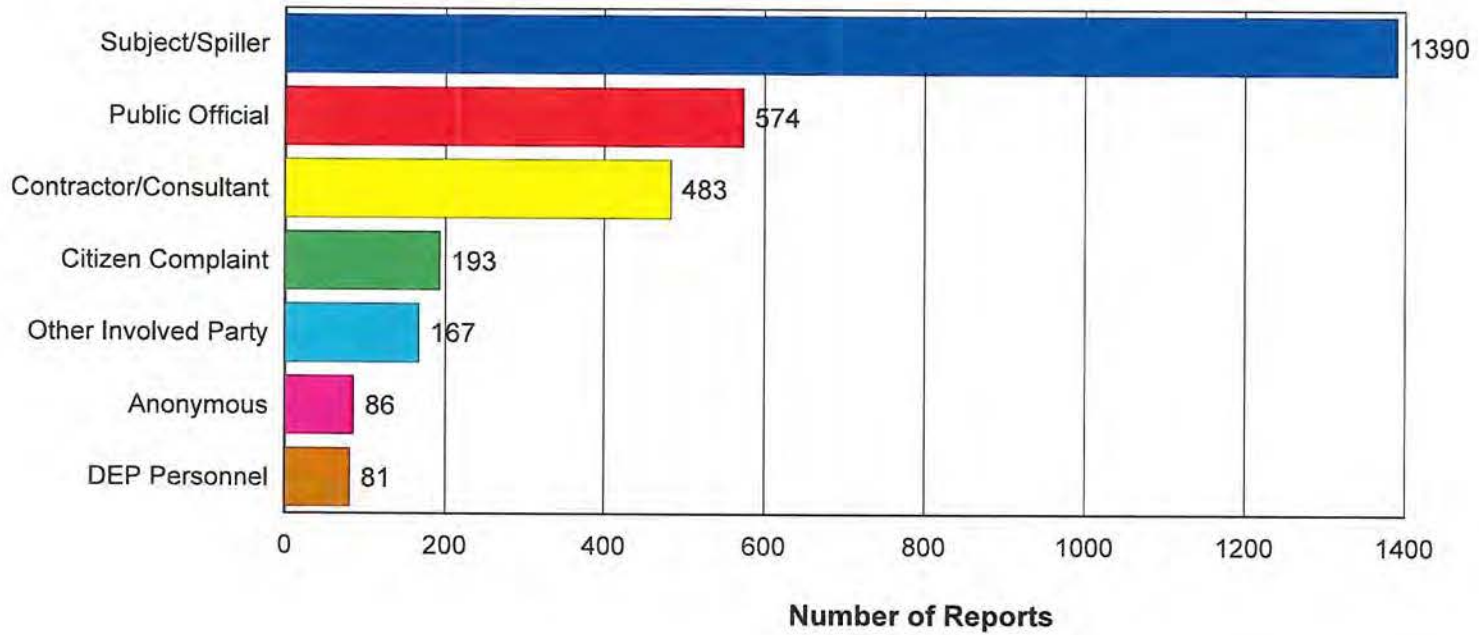
<b>Spill Reports for 2006 by Cause of Spill</b>
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<u>Portland</u>	<u>Cause of Spill</u>	<u>Number of Spills</u>
	Accident - Transportation	127
	Overfill	101
	Accident - Physical Breakage	100
	Other - Unknown	100
	Other - No Cause	97
	Accident - Human Error	89
	Mechanical Failure - Piping/Hose	78
	Corrosion - Tank	72
	Mechanical Failure - Other	51
	Mechanical Failure - Gasket/Seal	49
	Other - Known Cause	49
	Accident - Storm Damage	33
	Mechanical Failure - Loose Fitting	29
	Discharge - Deliberate/Other	27
	Accident - Other	26
	Mechanical Failure - Valve	16
	Discharge - Vandalism	14
	Accident - Poor Workmanship	13
	Corrosion - Piping	12
	Corrosion - Other	9
	Process Failure - Other	2
	Office Total	1,094

<u>Presque Isle</u>	<u>Cause of Spill</u>	<u>Number of Spills</u>
	Mechanical Failure - Piping/Hose	82
	Accident - Physical Breakage	47
	Accident - Human Error	28
	Accident - Transportation	21
	Corrosion - Tank	20
	Mechanical Failure - Gasket/Seal	17
	Other - Known Cause	12
	Mechanical Failure - Loose Fitting	11
	Mechanical Failure - Other	11
	Other - Unknown	10
	Discharge - Vandalism	8
	Mechanical Failure - Valve	8
	Discharge - Deliberate/Other	7
	Other - No Cause	7
	Accident - Other	6
	Corrosion - Other	6
	Corrosion - Piping	6
	Overfill	6
	Accident - Poor Workmanship	3
	Accident - Storm Damage	1
	Process Failure - Other	1
	Office Total	318

2006 Grand Total 2,974

## Spill Reports by Reporter Method for 2006

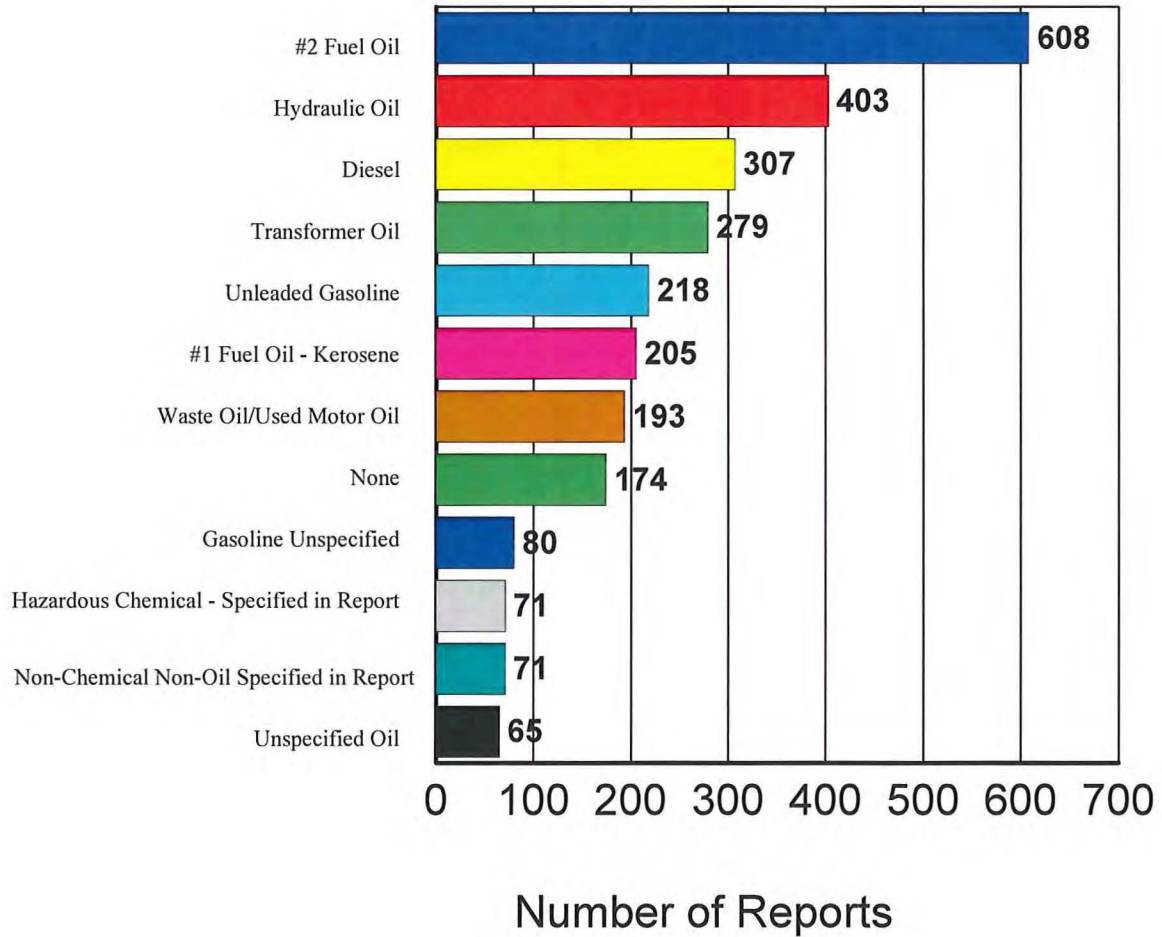


**Spill Reports by Product Spilled for 2006**

Product Spilled	Number of Spills	Product Spilled	Number of Spills
#2 Fuel Oil	608	Algae Blooms/Plant Pollen Sheens	9
Hydraulic Oil	403	Asphalt	8
Diesel	307	PCB Oil	8
Transformer Oil	279	Hazardous Chemical - Unspecified	7
Unleaded Gasoline	218	Unknown Substance	7
#1 Fuel Oil - Kerosene	205	Unspecified Motor Fuel	7
Waste Oil/Used Motor Oil	193	Aviation Gasoline	6
None	174	Crude Oil	6
Gasoline Unspecified	80	Ammonia	5
Hazardous Chemical - Specified in report	71	Waste Oil (as Haz Chem)	5
Non-Chemical Non-Oil Specified in report	71	Chlorine	4
Unspecified Oil	65	Hydrochloric Acid	4
Oil - Other - Specified in Report	60	Medical Waste	4
Jet Fuel	51	Premium Unleaded	4
Lube Oil	40	#4 Fuel Oil	3
Anti-freeze	24	Animal Fats/Remains	3
#6 Fuel Oil	22	#5 Fuel Oil	2
Mercury	22	Bio 1-74	2
Transmission Oil	19	Leaded Gasoline	2
Pesticide General	18	Non-Chemical Non-Oil Unspecified	2
Corrosive	17	Regular Gasoline	2
Non-Hazardous Chemical - Specified in report	15	Unleaded Plus	2
Unspecified Fuel Oil	13	Liquors	1
Marsh Sheen	11		
Sulfuric Acid	10		

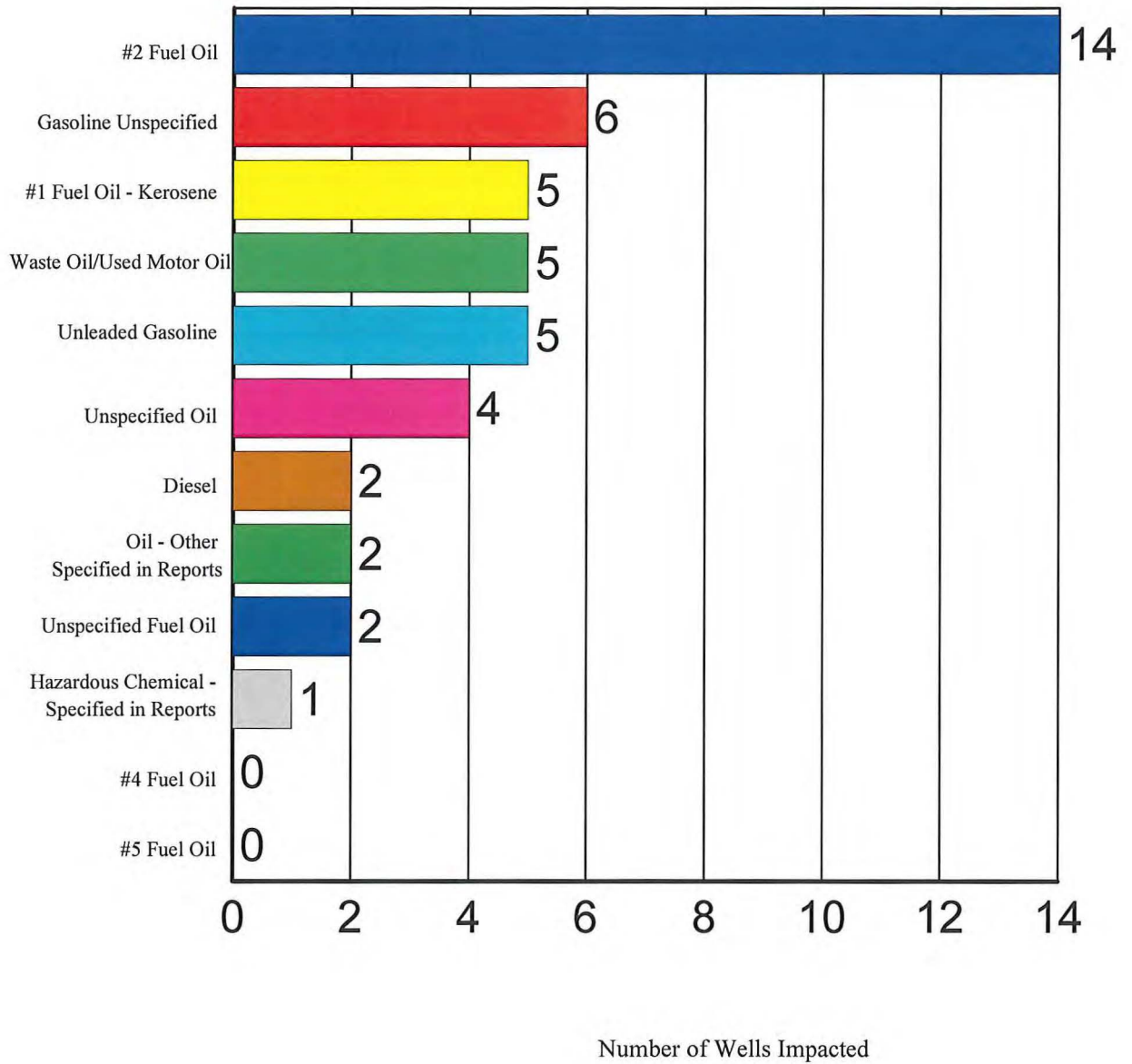
The number of spill reports reflected does not show the actual number of spills because one spill may have multiple products spilled.

## Top Twelve Products Involved in Reports for 2006



The number of spill reports reflected does not show the actual number of spills because one spill may have multiple products spilled.

## Top Twelve Products Contaminating Wells in 2006





## Product Categories vs Wells Impacted for 2006

<u>Product Category</u>	<u>Number of Spills</u>	<u>Number of Wells Impacted</u>
Home Heating Oils	828	21
Motor Fuels	679	13
Other Oils	1,073	11
Hazardous & NonHazardous Chemicals	215	1
Heavy Fuel Oils	27	0
Non Oil, Non Hazardous	270	0
Unknown	7	0
<b>Total</b>	<b>3,099</b>	<b>46</b>

The Product Categories above contain the following product types:

<u>Home Heating Oils:</u>	<u>Heavy Fuel Oils:</u>	<u>Motor Fuels:</u>	<u>Other Oils:</u>	<u>Hazardous &amp; Non-Hazardous Chemicals:</u>
#1 Fuel Oil	#4 Fuel	Gasoline Unspecified	Lube Oil	Demolition Debris
# 2 Fuel Oil	#5 Fuel	Leaded Gasoline	Asphalt	Pesticide (General)
Heating Oils Unspecified	#6 Fuel	Unleaded Gasoline	Crude Oil	PCB Oil (over 50 ppm)
Bio-Diesel 1-74		Aviation Gasoline	Unspecified Oil	Sulfuric Acid
		Jet Fuel	Waste Oil	Corrosives
		Diesel	Transmission Oil	Chlorine
		Unspecified Motor Fuels		Hazardous Chemicals
		Premium Unleaded		Ammonia
				Hydrochloric Acid
				Medical Waste
				Antifreeze
				Liquors
				Non-Hazardous Chemicals
				Mercury

This table's primary purpose is to show that Home Heating Oils and Motor Fuels are the most frequent contaminants found by Response Services in wells (for groundwater). By this analysis, they are the greatest threat to Maine's groundwater. Close examination of the data shows that the ratio of home heating oils and motor fuel spills to well water contaminations is about 44:3. That is to say, on average, every forty-fourth spill of home heating oil or motor fuel results in one contaminated well case.

The number of "wells impacted" may change as the data represents a "snapshot in time" when Response Services personnel complete the report. If a site is referred to Technical Services for additional investigation and remediation, the possibility exists for the number of "wells impacted" to change which isn't reflected above.

The number of spill reports reflected does not show the actual number of spills because one spill may have multiple products spilled.

## Number of Wells Impacted or Threatened for 2006

Sorted by Spill Type Reported and Product Found

<u>Spill Type</u>	<u>Product Found</u>	<u>Number of Incidents</u>	<u>Wells at Risk</u>	<u>Wells * Impacted</u>
<b>Hazardous Material Incident</b>				
	Hazardous Chemical - Specified in report	2	3	0
	Hazardous Chemical - Unspecified	1	1	0
<b>Non-Oil, Non-Hazardous Incident</b>				
	None	7	10	0
	Non-Chemical Non-Oil Specified in report	2	2	0
	Gasoline Unspecified	1	1	0
<b>Oil Incident</b>				
	#2 Fuel Oil	57	84	14
	#1 Fuel Oil - Kerosene	44	50	5
	Unleaded Gasoline	21	27	5
	Diesel	18	25	2
	Gasoline Unspecified	13	16	6
	Waste Oil/Used Motor Oil	10	8	5
	Unspecified Oil	7	10	4
	Hydraulic Oil	6	6	0
	Oil - Other - Specified in Report	4	6	2
	Unspecified Fuel Oil	4	4	2
	Lube Oil	2	2	0
	Transformer Oil	2	2	0
	Hazardous Chemical - Specified in report	1	1	0
	Leaded Gasoline	1	1	0
	Premium Unleaded	1	1	0
<b>Totals</b>		<b>204</b>	<b>260</b>	<b>45</b>

\* The number of "wells impacted" may change as the data represents a "snapshot in time" when Response Services personnel complete the report. If a site is referred to Technical Services for additional investigation and remediation, the possibility exists for the number of "wells impacted" to change which isn't reflected above.

Non-Oil, Non-Hazardous incidents with threatened wells indicate that a well was reported as a potential for contamination, but upon further investigation no contamination was found. This field also may indicate that a potential for a spill was identified, but had not yet occurred.

**Amount of Material Spilled in 2006  
Sorted by Response Office and Spill Type**

<b>Response Office</b>	<b>Spill Type</b>	<b>G</b>	<b>P</b>	<b>T</b>	<b>Y</b>
<b>Augusta</b>	Hazardous Material Incident	6,450	3,651	0	0
	Non-Oil, Non-Hazardous Incident	4	500	25	0
	Oil Incident	18,769	0	0	0
	<b>Office Total</b>	<b>25,223</b>	<b>4,151</b>	<b>25</b>	<b>0</b>
<b>Bangor</b>	Hazardous Material Incident	3,597	97	0	0
	Non-Oil, Non-Hazardous Incident	18	1	0	0
	Oil Incident	23,492	0	0	0
	<b>Office Total</b>	<b>27,108</b>	<b>98</b>	<b>0</b>	<b>0</b>
<b>Portland</b>	Hazardous Material Incident	102,882	368	0	4
	Non-Oil, Non-Hazardous Incident	257	550,000	0	1
	Oil Incident	36,017	0	0	0
	<b>Office Total</b>	<b>139,157</b>	<b>550,368</b>	<b>0</b>	<b>5</b>
<b>Presque Isle</b>	Hazardous Material Incident	550	200	24	0
	Non-Oil, Non-Hazardous Incident	71	0	0	0
	Oil Incident	9,006	0	0	0
	<b>Office Total</b>	<b>9,626</b>	<b>200</b>	<b>24</b>	<b>0</b>
<b>Grand Total of All Offices Combined</b>		<b>201,114</b>	<b>554,817</b>	<b>49</b>	<b>5</b>

NOTE: All numeric fields are BEST ESTIMATES by the OHMS involved based on the years of experience with spill events. In 2006 zero (0) Unknown and zero (0) Barrels were discharged. Units of measure are abbreviated as follows:

G = Gallons      P = Pounds      T = Tons      Y = Yards

## **Recovery Method**

The following two pages detail the amount of material that was recovered using various recovery methods. Although it would seem logical to compare the amounts of material spilled in each region to the amounts recovered, the reader should avoid this comparison. The data is incomparable because the physical form of the recovered product may be different than the spilled form. A thousand gallons of gasoline could spill onto the ground, but cleanup may involve cubic yards of soil, gallons of pure gasoline, or pounds of saturated sorbent material.

The following list shows some of the recovery methods used by the responders when they enter report data into the HOSS (Hazardous Oil Spill System) database at the Maine Department of Environmental Protection.

### **Category**

Burning  
Excavation  
Filter  
(Treated by) Licensed Treatment Facility  
None  
Other  
Pumps  
Remove  
Skimmers  
Sorbents  
Treatment in Place  
Vacuum Trucks

The following list details the abbreviations used on the next two pages for the amounts of material recovered.

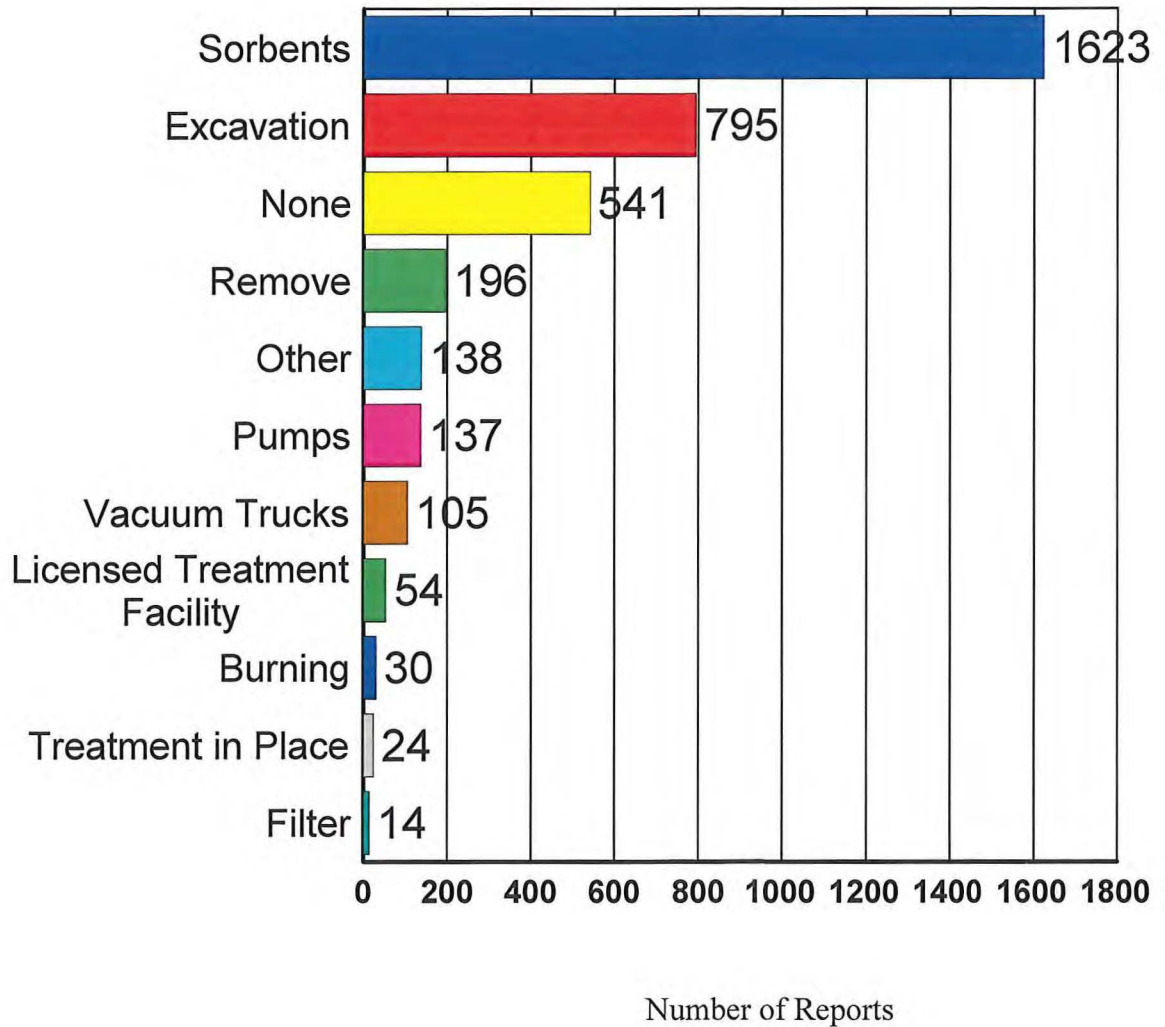
### **Units of Measure**

B = Barrels  
G = Gallons  
P = Pounds  
T = Tons  
Y = Cubic Yards

**Recovered Amounts of Spilled Material in 2006  
by Spill Type and Recovery Method**

Recovery Method		B	G	P	T	Y
Hazardous Material Incident	Burning	0	100	0	0	0
	Excavation	0	100	25	0	11
	Licensed Treatment Facility	0	22	10	0	1
	None	0	200	0	0	0
	Other	0	4,724	312	24	0
	Pumps	0	9,150	0	0	0
	Remove	0	90,036	553	24	7
	Sorbents	0	4,578	232	0	4
	Treatment in Place	0	4,136	0	0	2
	Vacuum Trucks	0	4,547	0	0	0
Non-Oil, Non-Hazardous Incident	Burning	0	46	0	0	0
	Excavation	0	0	500	0	0
	None	0	12	0	0	0
	Other	0	1	0	0	0
	Pumps	0	0	0	20	0
	Remove	0	112	515	0	0
	Sorbents	0	8	60	0	1
	Vacuum Trucks	0	46	0	0	0
Oil Incident	Burning	0	250	51	0	32
	Excavation	8	265,053	53,244	31,541	33,781
	Filter	0	338	270	686	0
	Licensed Treatment Facility	5	266	85	0	206
	None	0	1,168	0	0	1
	Other	0	65,703	4,680	116	907
	Pumps	0	294,990	41,740	3,065	1,384
	Remove	8	16,488	5,525	115	310
	Sorbents	10	108,842	76,918	2,820	1,378
	Treatment in Place	0	10,060	340	790	5,483
	Vacuum Trucks	0	134,958	38,588	8,360	8,377

### Recovery Methods Used in 2006



The total number of recovery methods used in 2006 is greater than the total number of spill reports due to multiple recovery methods used during some spills.

## Types of Hazardous Materials Spilled

The following table, "Hazardous Materials Spilled in 2006", contains a summary of the best information available to Response Services as to the types of chemicals and other hazardous materials spilled during 2006. It is not always possible to identify an unknown substance in any but the broadest of terms. General characteristics such as flash point or pH are often the only factors that can be determined about an unknown without costly laboratory analysis. Given these factors, a substance may qualify as a hazardous material, yet remain an unknown.

The problem of estimating amounts spilled can also be difficult. Uncontrolled sites may have had any number of products dumped there for months or years, before anyone noticed or decided to report the event(s). Catastrophic events, like floods, result in barrels and other containers being released into the environment full or partially filled with product. These containers are often found empty or with their contents diluted. When a tank truck rolls over, a best estimate is made of the amount spilled, but the exact amount is seldom measured. If a responder is called to inspect leaking barrels at a site, it is often difficult to know how much product has already been lost into the ground. As a result of this, estimates of amounts spilled are often based on past experience with other similar spills and information that is available to extrapolate at that time. Each substance listed was discharged in at least the amount listed; usually it is reasonable to assume more than that amount was lost to the environment.

There are cases where this assumption should not be made. Most spills are industrial in nature; such as when a company either public or private has had an accident and product was lost. In general, industries know what chemicals are in what processes and in what volumes. Central Maine Power (CMP), for instance, knows how much oil is in a transformer and on those occasions when one is ruptured they make a fairly accurate assessment as to how much oil is lost. Keeping in mind the health and safety of the public as well as its employees, CMP then handles the material as though it were PCB contaminated until enough evidence is collected to indicate otherwise. Also, paper companies are quite precise in their figures of the amount of chlorine released into the atmosphere and the amount of chlorine dioxide spilled. Pure product fields, as a result of this industry scrutiny, should contain accurate data. Cases where a general family of hazardous materials is listed may well contain spill amounts that are much more than the amounts listed.

The following symbols have been utilized:

G	-	Gallons
P	-	Pounds
Y	-	Cubic Yards
B	-	Barrels
U	-	Unknown

## Hazardous Materials Reported Spilled During 2006

Material Reported	Number of Spills	Amount Spilled *	Unit of Measure
Acetylene	1	200.00	P
Aluminum Sulfate	1	50.00	G
Ammonia	5	356.00	P
Ammonium Sulfate	1	0.10	P
Anti-freeze	17	52.53	G
Aromatic hydrocarbons and butyl acetate	1	0.06	P
Arsenic containing wood treatment	1	0.10	G
Asbestos	1	4.00	Y
Calcium cyanide	1	0.00	G
Calcium oxide	1	10.00	P
Carbon dioxide	1	2.00	G
Carbon monoxide	1	0.00	Unknown
Chlorine	4	100,001.60	G
Chlorox	1	0.12	G
Concrete Sealer	2	0.30	G
Contact cement	1	0.50	G
Corrosive	17	4,431.68	G
Degreaser	1	0.25	G
Dish washer liquids	1	0.75	G
Driveway cleaner	1	1.25	G
F006 electroplating sludge	1	0.25	G
Floor Finish	1	0.25	G
Flourescent bulb	1		Unknown
Fluoride	1	40.00	P
Furnace Cement	1	4.00	P
Grease remover	1	0.20	G
Hydrochloric Acid	4	24.49	G
Lead paint chips - 17%	1		Unknown
Liquors	1	2,700.00	G
Medical Waste	4	16.10	P
Mercury	22	5.16	G
Methamphetamine lab chemicals	2	5.00	G
Methamphetamine Lab waste	1	0.50	P
Methylene Chloride	1	0.20	G
Miscellaneous laboratory chemicals	1	50.00	G
Multiple chemicals	5	15.00	P
Multiple compressed gas cylinders	1		Unknown
Oxy Clean	1	10.00	P
Paint Related Products	14	7.89	G

\* The amount reported shown is the least amount reported.



## Hazardous Materials Reported Spilled During 2006

Material Reported	Number of Spills	Amount Spilled *	Unit of Measure
(continued from previous page)			
PCB Oil	8	32.56	G
Pesticide General	18	54.86	G
Propane	1	40.00	P
Propane	1		Unknown
Propane	2	8.40	G
Renuzit	1	1.00	G
Sewage sludge/solvent	1	0.00	G
Sodium hydroxide - 50%	1	1,200.00	G
Sodium hypochlorite	6	2,721.50	G
Sulfuric Acid	10	4,858.23	G
Tetrachloroethylene	1	0.10	G
Tetrahydrofuran	1	2.00	G
Transmission cleaning chemicals	1	15.00	G
Unknown	1		Unknown
Unspecified	2	0.50	G
Washer solvent (containing petroleum distillates)	1	2.00	G
Waste Oil (as Haz Chem)	2	30.00	G

\* The amount reported shown is the least amount reported.

## Non-Hazardous Non-Oil Materials Reported Spilled During 2006

Material Reported	Number of Spills	Amount Spilled	Unit of Measure
Algae Blooms/Plant Pollen Sheens	9	0	G
Animal Waste, etc	5	550026	P
Betadyne compound	1	1.00	G
Class & Seal	1	2.00	G
Construction Debris	1	0.00	G
Diluted Wood Fiber	1	240.00	G
Drippage from Garbage Waste	1	0.10	G
Dye	1	0.00	G
ESP black water	1	45.56	G
Farm Waste	1	500.00	P
Floor Adhesive	1	1.00	G
Hydro Seed	1		Unknown
Lime Mud	1	50,000.00	P
Marsh Sheen	11	0.00	G
Miracle Grow	1	0.01	G
Mold	1		Unknown
Murphy Oil Soap	1	0.50	P
None	176	0.00	G
Paint Products	42	5.75	G
Paper Dust	1	0.00	P
Possible Leach Bed/Cesspool Overflow	1		Unknown
Septic Tank Treatment	1	0.25	G
Septic Waste	1		Unknown
Sludge	1	0.00	G
Sodium Methyldithiocarbamate	1	0.00	G
Titanium Dioxide	1	0.00	G
Unknown Substance	6	7.00	G
Vegetable Oils	3	6.00	G

\* The amount spilled shown is the least amount spilled.

## **Types of Facilities with Corresponding Subcategories**

The graphs on the next five pages utilize the following categories and subcategories:

### **Business**

- Business - Commercial
- Business - Farm
- Business - Industrial
- Business - Other

### **Government**

- Government - Federal
- Government - Local
- Government - Military
- Government - Other
- Government - State of Maine

### **Other**

- Other - Mystery
- Other - Religious
- Other - Specified in Report

### **Residential**

- Residential - Multi Family
- Residential - Other
- Residential - Single Family

### **School**

- School - Private
- School - Public

### **Terminal**

- Terminal - Air
- Terminal - Bulk Plant
- Terminal - Licensed
- Terminal - Marina
- Terminal - Other
- Terminal - Service Station

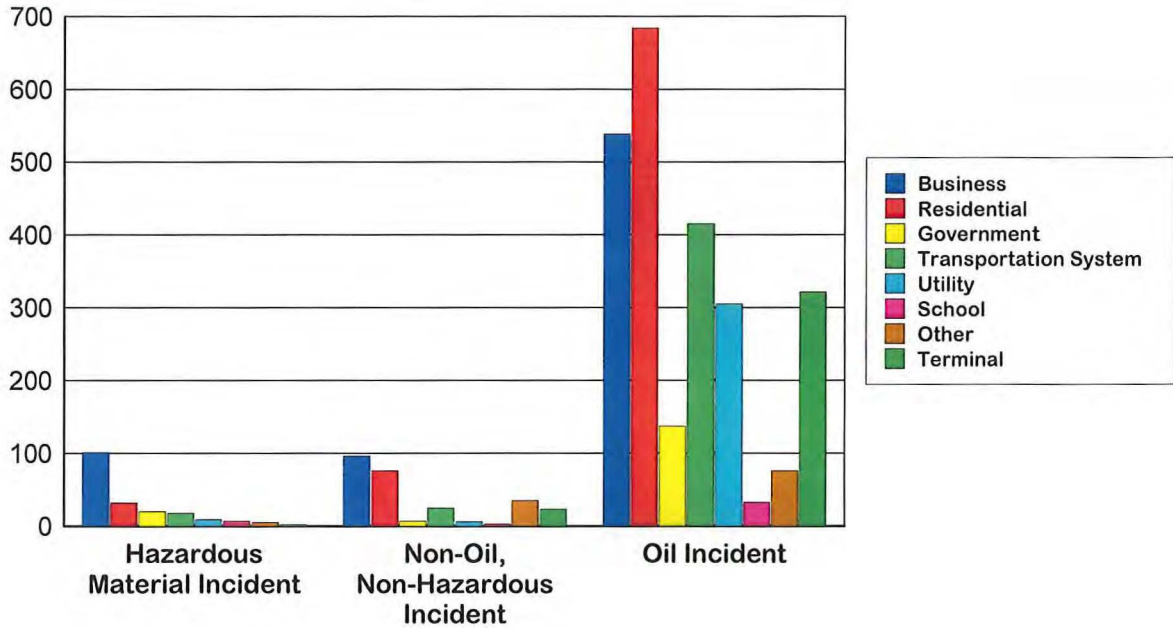
### **Transportation System**

- Transportation - Air
- Transportation - Marine
- Transportation - Other Off-Road
- Transportation - Rail
- Transportation - Road

### **Utility**

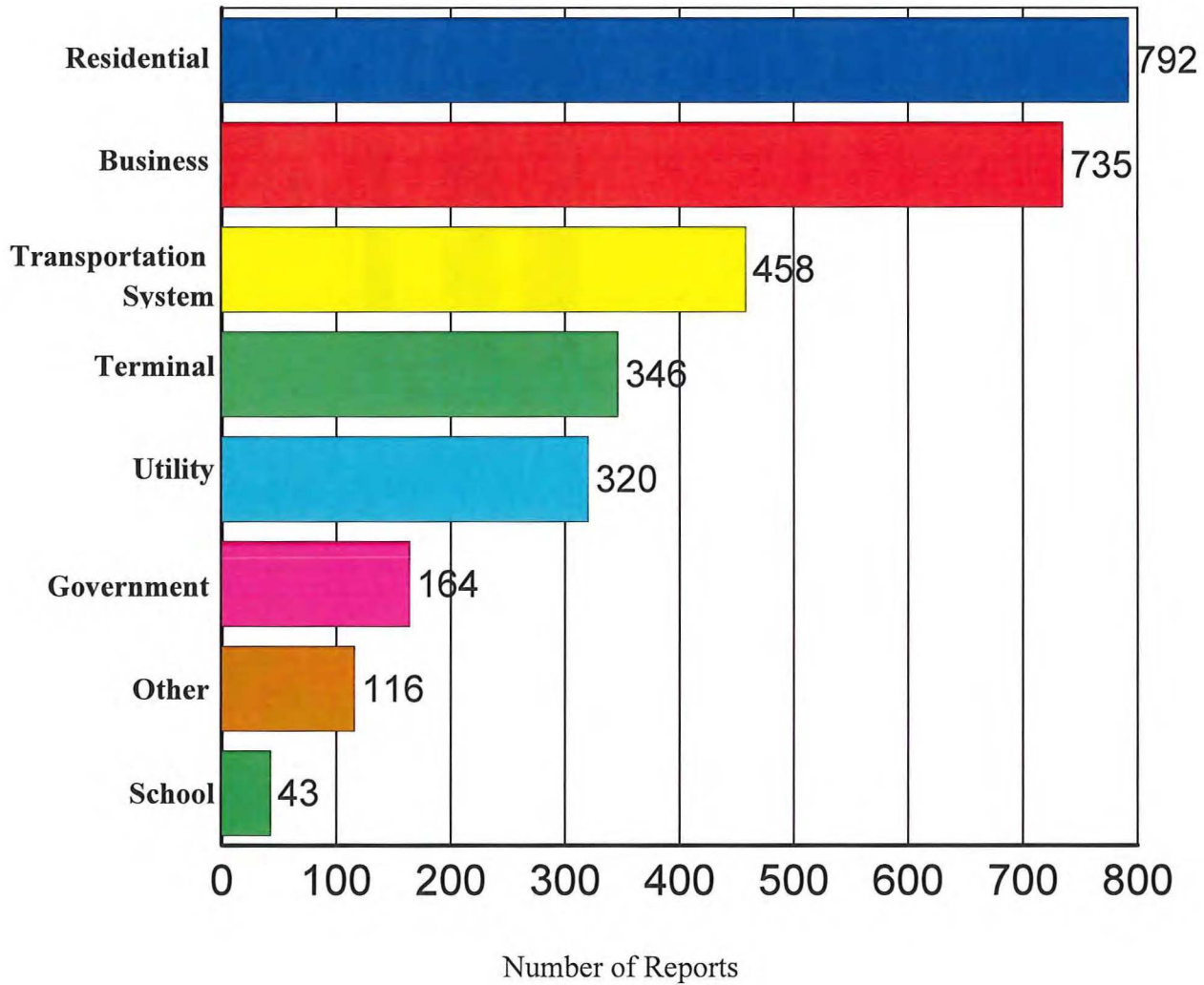
- Utility - Other
- Utility - Power
- Utility - Telecommunications

**Types of Facilities Involved in Reports during 2006  
by Incident Location Category**



<b>Hazardous Material Incident</b>	<b>194</b>
Business	101
Residential	32
Government	20
Transportation System	18
Utility	9
School	7
Other	5
Terminal	2
<b>Non-Oil, Non-Hazardous Incident</b>	<b>271</b>
Business	96
Residential	76
Other	35
Transportation System	25
Terminal	23
Government	7
Utility	6
School	3
<b>Oil Incident</b>	<b>2,509</b>
Residential	684
Business	538
Transportation System	415
Terminal	321
Utility	305
Government	137
Other	76
School	33
<b>Grand Total of Spills</b>	<b>2,974</b>

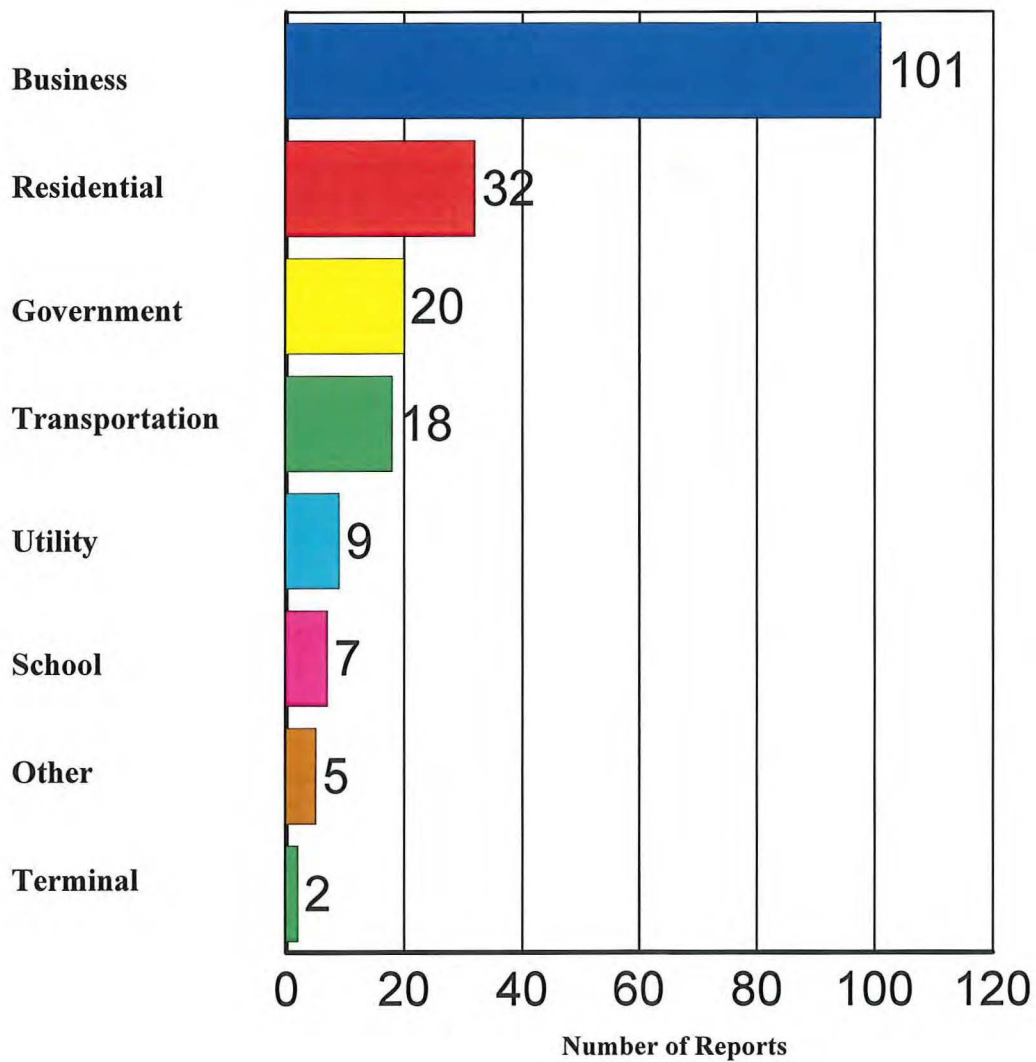
## Types of Facilities Involved in All Spill Reports for 2006



Total Number of Spills      2,974

Two reports missing.

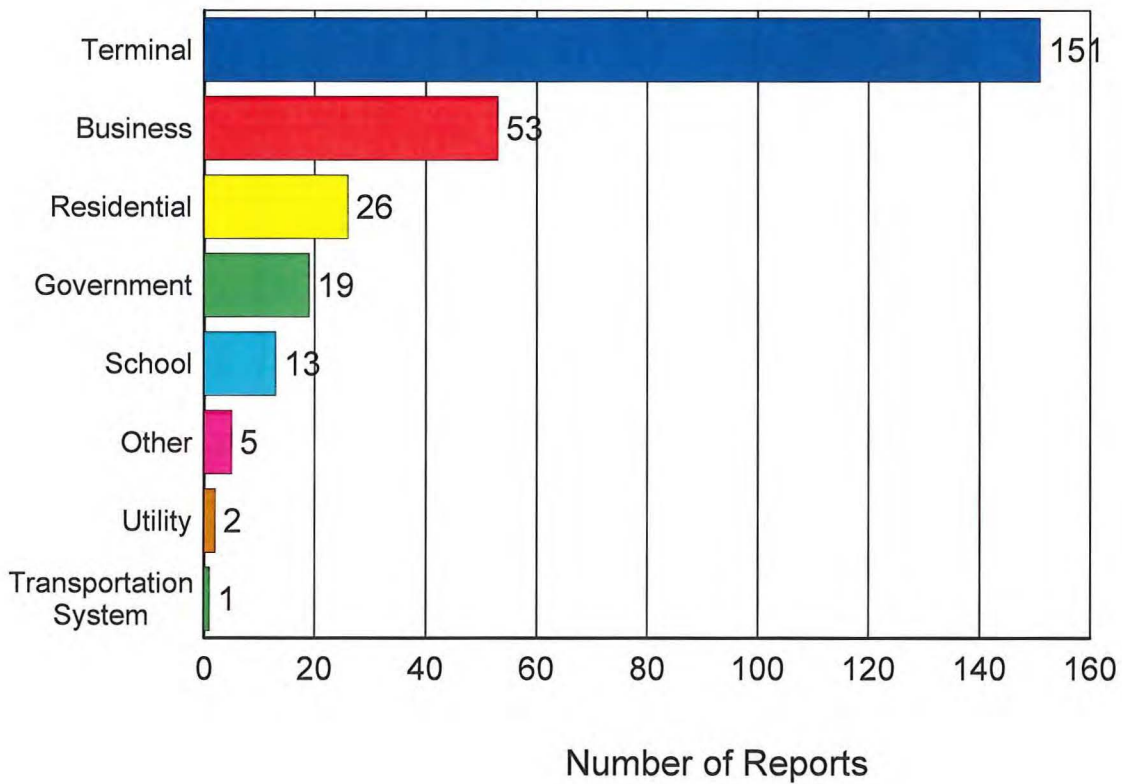
## Types of Facilities Involved in Hazardous Material Incidents in 2006



Total Number of Reports

194

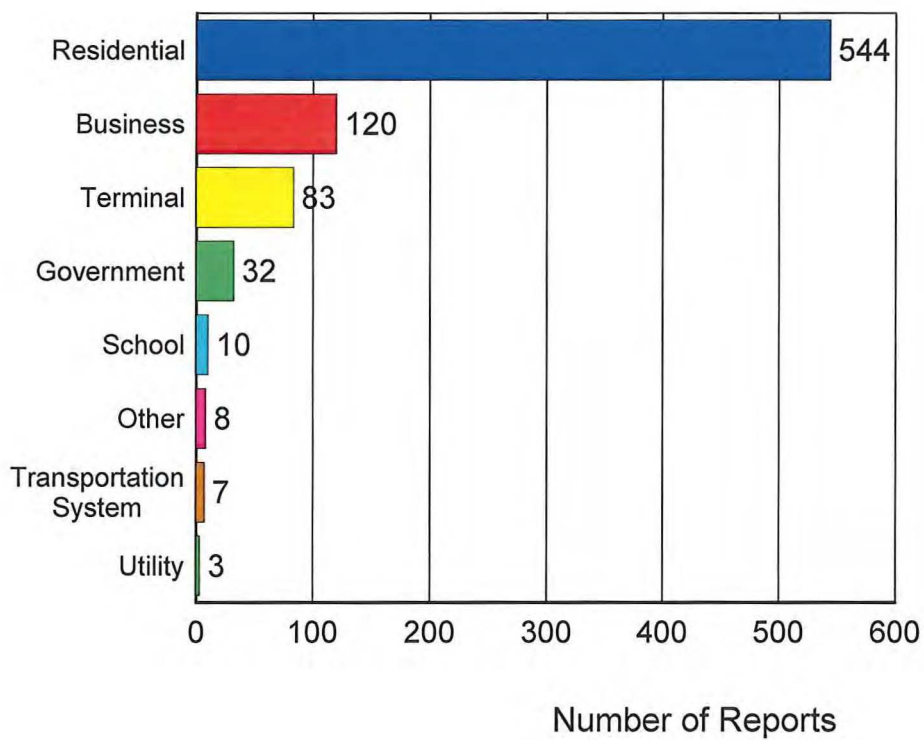
## Types of Facilities Involving Underground Storage Tanks in 2006



Total Number of Reports

270

## Types of Facilities Involving Aboveground Storage Tanks in 2006



Total Number of Reports      807



# **Explanation of Discrepancies between 2006 Maine Coastal & Inland Surface Oil Clean-up Fund and Ground Water Oil Clean-up Fund Number of Barrels**

The following two pages summarize the amount of specified products that have entered, or been transferred inside, Maine borders for 2006.

When product is first transferred into the state, the DEP applies the appropriate Maine Coastal & Inland Surface Oil Clean-up Fund (Surface Fund) and Ground Water Oil Clean-up Fund (Groundwater Fund) fees per barrel and these fees are deposited into the funds for the cleanup of future spills. The number of barrels of product is tracked by month and product type. Occasionally, product is transferred within the State from its initial repository to another storage site. The Maine Coastal & Inland Surface Oil Clean-up Fund transfer fees again apply and the number of barrels are tracked as a second transfer. As a result, the number of Maine Coastal & Inland Surface Oil Clean-up Fund barrels may be higher than the number of Ground Water Oil Clean-up Fund barrels in any given month.

The next two pages involve the following product types:

- Kerosene #1
- Fuel Oil #2
- Fuel Oil #6
- Unleaded Gasoline (Regular & Super)
- Aviation
- JP-4 (Jet Fuel)
- JP-1 & Jet-A (Jet Fuel)
- Diesel
- Asphalt
- Crude Oil
- Other Petroleum Products:  
(Mineral Oil, Hydraulic Fluid, etc)

## BARRELS OF PETROLEUM PRODUCTS TRANSPORTED INTO MAINE IN 2006

Products	Barrels Transported into Maine and Associated with Groundwater Funding	Barrels Transferred while in Maine	Barrels Associated with Surfacewater Funding
Crude Oil	136,708,120	0	136,708,120
Unleaded Gasoline	21,205,703	0	21,205,703
Fuel Oil #2	9,807,770	72,891	9,880,661
Diesel	7,384,634	0	7,384,634
Fuel Oil #6	5,140,405	748,414	5,888,819
Kerosene (#1)	959,766	0	959,766
Jet Fuel	1,402,722	0	1,402,722
Asphalt	1,273,801	0	1,273,801
Aviation Gasoline	57,119	0	57,119
Other Petroleum Products (Hydraulic Fluid, Mineral Oil, etc)	28,469	0	28,469
<b>TOTALS:</b>	183,968,509	821,305	184,789,814

Note: Total barrels transported into Maine are taxed by both the Surfacewater and Groundwater Funds simultaneously.

The total of barrels imported into Maine is 183,968,509.

## BARRELS OF PETROLEUM PRODUCTS TRANSPORTED OUT OF MAINE BY TANK TRUCK IN 2006

MONTH	GASOLINE BARRELS	FUEL BARRELS
January	291,856	111,984
February	291,017	121,709
March	339,861	130,752
April	246,689	81,505
May	316,663	77,963
June	349,440	72,061
July	515,057	64,512
August	467,401	84,396
September	366,134	85,959
October	365,916	91,546
November	335,396	111,061
December	342,856	121,936
<b>Totals:</b>	<b>4,228,286</b>	<b>1,155,384</b>

Gasoline: all unleaded gasolines

Fuel: #2 Fuel Oil, Diesel, and Kerosene