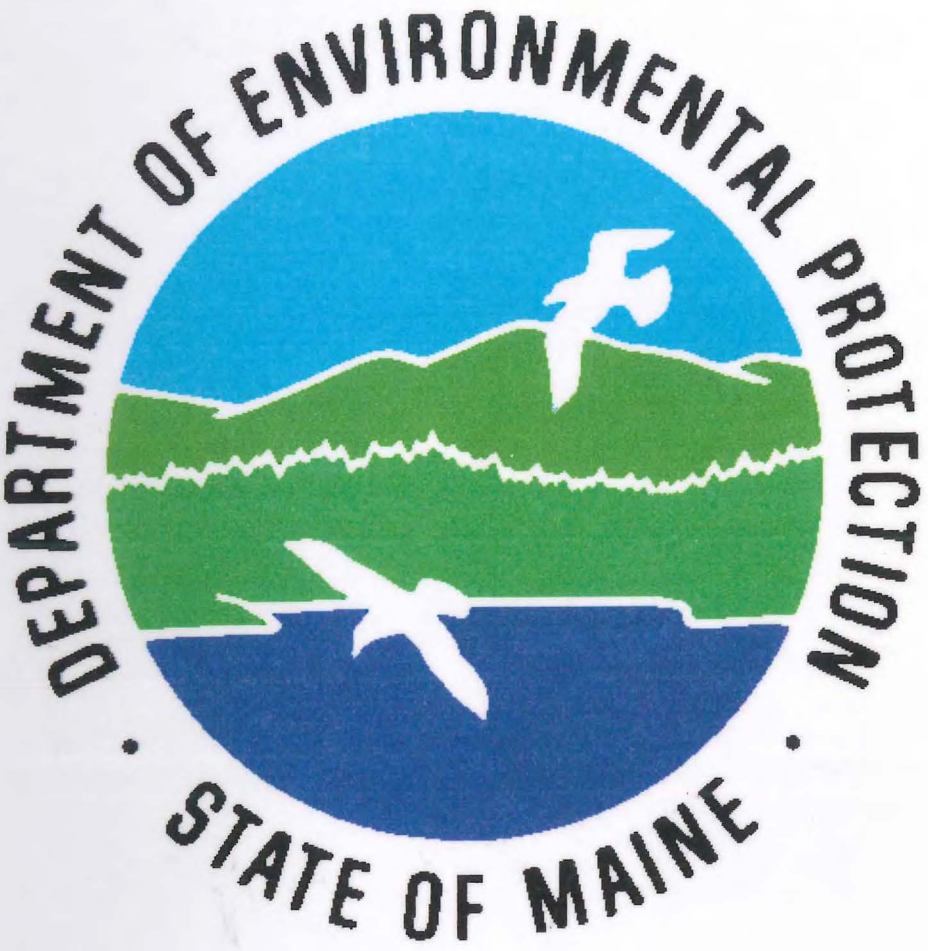
2002
Statistical Report
Division of Response Services
Spill Report Case Load

Bureau of Remediation & Waste Management



January 2004

Compiled by:
Diana J. Frith

TABLE OF CONTENTS

INTRODUCTION

This report is the Maine Department of Environmental Protection's (DEP) statewide Statistical Report of the Division of Response Services spill caseload for 2002. Response Services Division 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 2002, the Division of Response Services included 32 employees consisting of 22 Oil and Hazardous Material Specialists (OHMS), three Environmental Specialists, three Maintenance Mechanics, two Staff Development Specialists, one Health and Safety Director, and one Division Director, filed 2,736 reports dealing with oil and hazardous incidents throughout Maine. A summary of this activity 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 kinds 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.

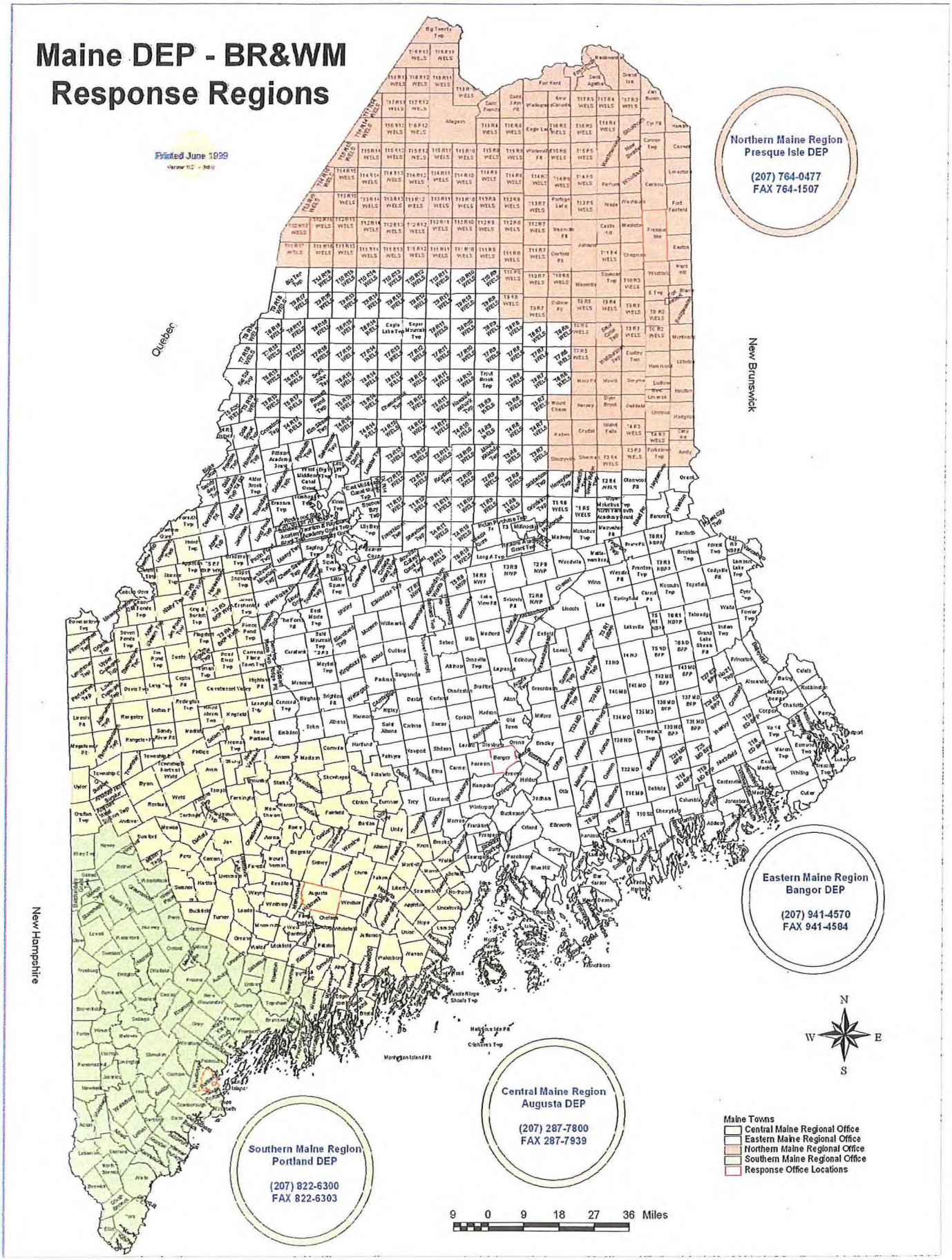
A Response report concerns a product that is classified as an oil incident, hazardous material incident, or as a non-oil/non-hazardous incident. An oil incident or a hazardous material incident is where a known or unknown product was released to the environment. The product also may have spilled at an 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.

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 June 1999
Northern Maine Region
Presque Isle DEP
(207) 764-0477
FAX 764-1507
Eastern Maine Region
Bangor DEP
(207) 941-4570
FAX 941-4584
Central Maine Region
Augusta DEP
(207) 287-7800
FAX 287-7939
Southern Maine Region
Portland DEP
(207) 822-6300
FAX 822-6303
Quebec
New Brunswick
New Hampshire
N
W
E
S
9 0 9 18 27 36 Miles
Maine Towns
Central Maine Regional Office
Eastern Maine Regional Office
Northern Maine Regional Office
Southern Maine Regional Office
Response Office Locations

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

Southern Maine Region
Portland DEP

(207) 822-6300
FAX 822-6303

Maine DEP - BR&WM
Response Regions

Presque Isle Region

Northern Maine Region
Presque Isle DEP

(207) 764-0477
FAX 764-1507

Large Spills in 2002

The next two pages list some of the larger 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, including the amount spilled.

A-401-02 Jay International Paper: A systems failure allowed 45,000 gallons of 10% ClO2 solution (Chlorine Dioxide) to overflow a tank. All spilled material went to the plant acid sewer system where is was diluted and neutralized.

A-448-2002 Boothbay Harbor Fishing Vessel Aaron & Sarah: The fishing vessel Aaron & Sarah ran aground on Pumpkin Ledge and sank off the coast of Boothbay Harbor. Originally, the insurance representative for the vessel owner sought authorization to abandon the vessel at sea if the products on board were removed and decanted. That wish was not granted. One attempt to raise the vessel was abandoned due to rough weather. A second attempt was successful; however, 2,625 gallons of diesel fuel and 250 gallons of hydraulic oil were discharged to the ocean. Approximately 375 gallons of diesel fuel and hydraulic oil were recovered. The rough weather caused the remaining spilled fuel to disperse.

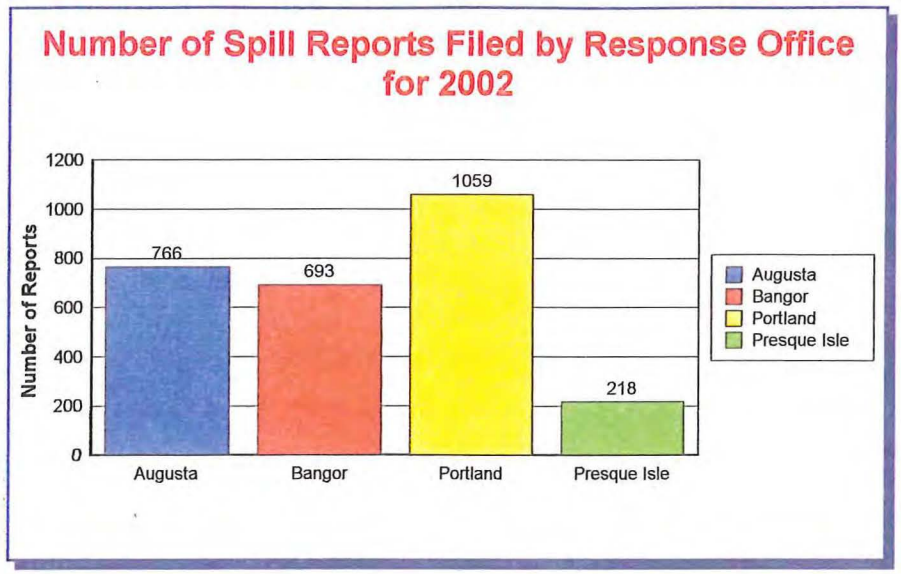
B-62-02 Searsport General Alum & Chemical Corp: A fitting to a storage tank broke off spilling 7,500 gallons of 50% Sodium Hydroxide. The Caustic Soda (pH 13) was released into the containment area of the bleach plant building concrete containment. The product was pumped into tank trucks until the fitting was replaced, and then replaced in the tank. The containment area was rinsed with water, and that material was used to make batches of sodium aluminate.

B-479-02 Baileyville Domtar Industries Corp: Due to failure of a pump house rubber flange, pressure chewed a hole in the front wall of the pump house causing an estimated 522,918 gallons of weak black liquor to spill. Most of the product was recovered from the spill containment pond and recycled back into their system. Some of the liquor was diluted with a significant amount of rainwater and was neutralized through the process sewer system; some of the material leached into the river and was neutralized; and some of the liquor was recovered from under the building.

I-31-02 Madawaska Frasier Paper: A pipe failure to a paper machine oil bowser system caused approximately 2,200 gallons of lube oil to spill. Product was discharged to the waste water system and also cleaned up at the clarifiers by the scum collection system. This material was sent to the sludge dewatering building and then to the sludge landfill with the solid waste. An unknown amount of oil was discharged to the St. John River.

P-568-2002 Scarborough Abenaqui Carriers: A tank truck hit a concrete berm which damaged the bottom piping of the truck resulting in a spill of 3,500 gallons of gasoline to catch basins and a nearby brook. An emergency dam was constructed at the end of a drainage ditch, which helped to recover most of the product. The spill area, drains, catch basins, and the brook were all flushed with water. This water and the product were recovered with the use of vacuum trucks. Upon removal of the dam, contaminated soil was excavated.

Reported Spills by Response Office and Spill Type for the year of 2002

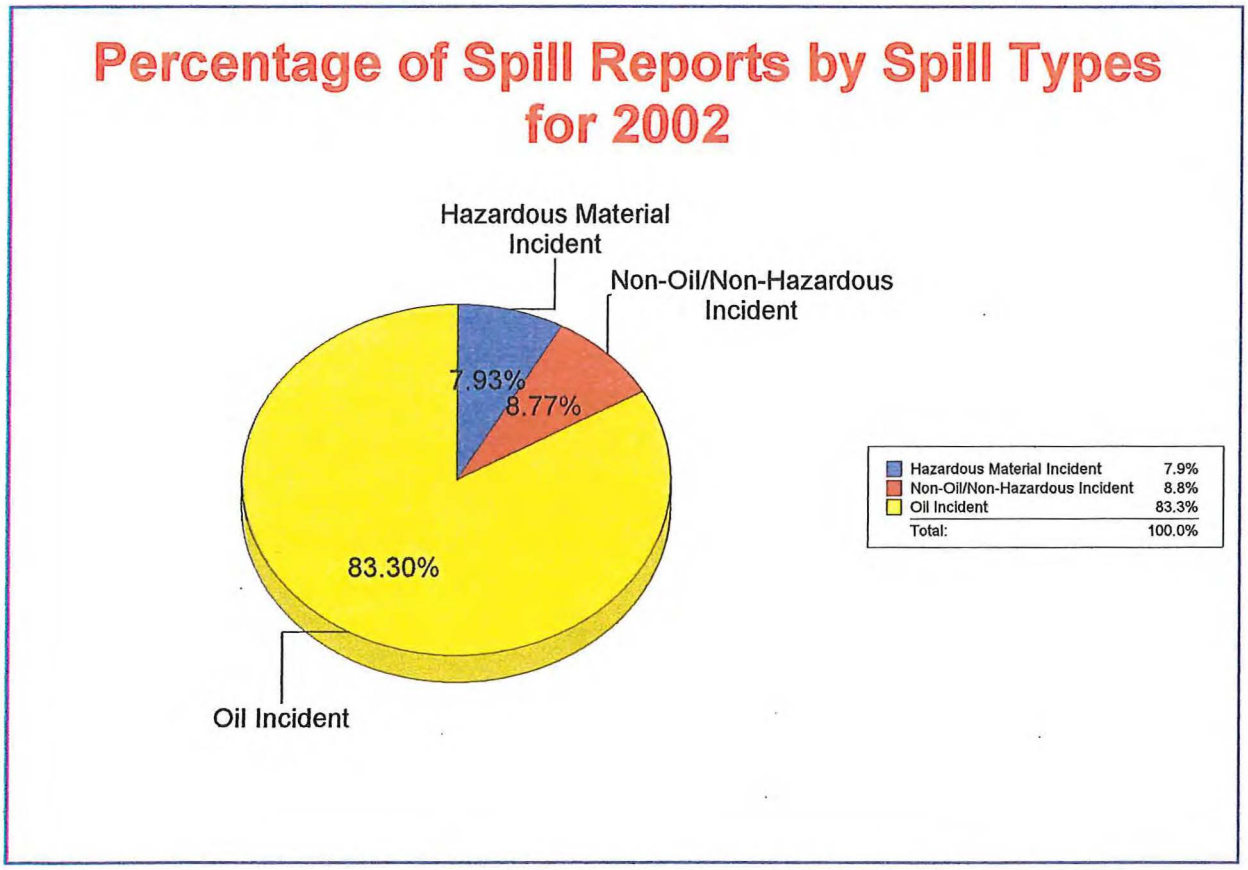


Augusta			
	Hazardous Material Incident	**48**	**6.27%**
	Non-Oil/Non-Hazardous Incident	**57**	**7.44%**
	Oil Incident	**661**	**86.29%**
	Office Total Spills	**766**	
Bangor			
	Hazardous Material Incident	**46**	**6.64%**
	Non-Oil/Non-Hazardous Incident	**75**	**10.82%**
	Oil Incident	**572**	**82.54%**
	Office Total Spills	**693**	
Portland			
	Hazardous Material Incident	**106**	**10.01%**
	Non-Oil/Non-Hazardous Incident	**90**	**8.50%**
	Oil Incident	**863**	**81.49%**
	Office Total Spills	**1059**	
Presque Isle			
	Hazardous Material Incident	**17**	**7.80%**
	Non-Oil/Non-Hazardous Incident	**18**	**8.26%**
	Oil Incident	**183**	**83.94%**
	Office Total Spills	**218**	
Total Spills for 2002		**2736**	

This report was run on 1/30/2004. Data is representative of this date.

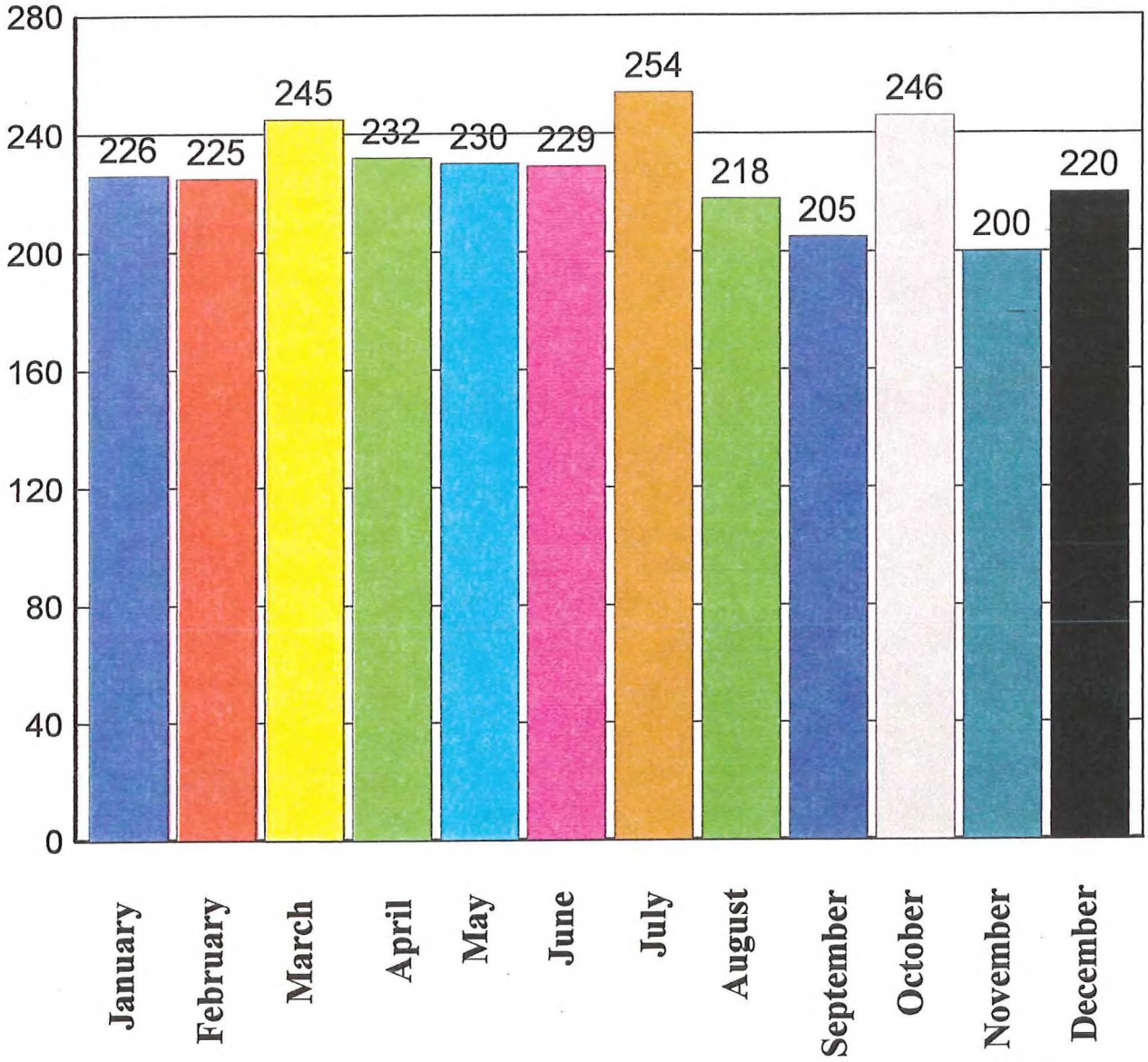
Percentage of Spill Reports by Spill Types for 2002

Type of Spill	Number of Spills Reported	Percentage of Spills Reported
Hazardous Material Incident	217	7.93%
Non-Oil/Non-Hazardous Incident	240	8.77%
Oil Incident	2279	83.30%



This report was run on 1/30/2004. Data is representative of this date.

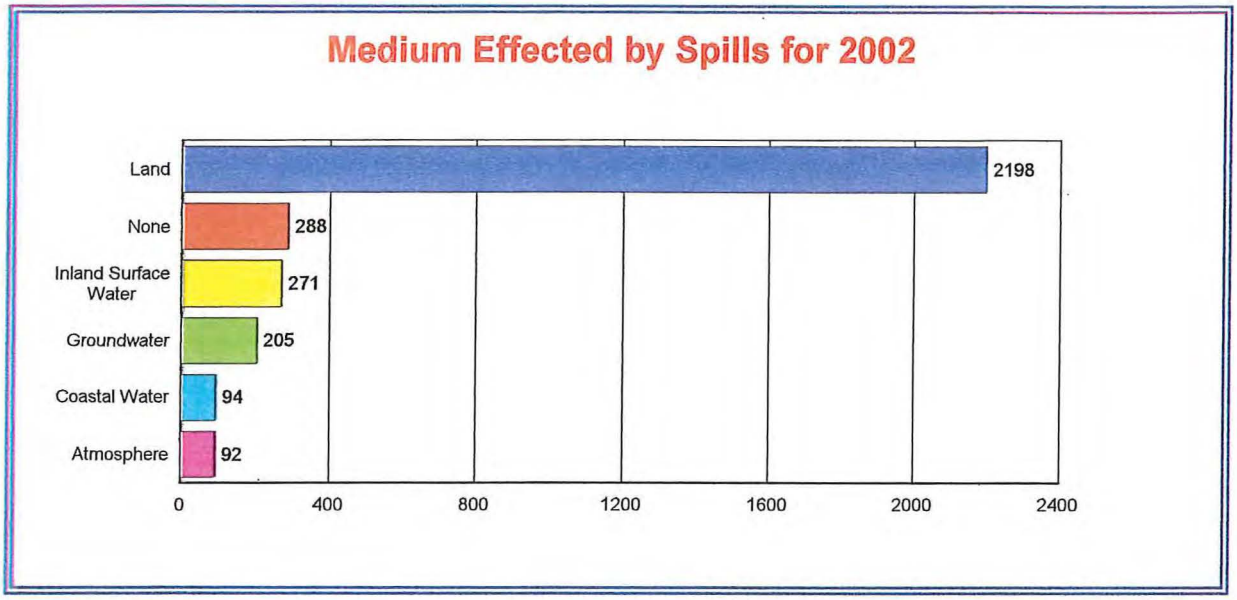
Number of Spills by Month for 2002



Total Number of Spills for 2002 2,730

This report was run on 1/30/2004. Data is representative of this date. Six reports are missing due to either late reporting or incorrect reported spill dates.

Spill Reports Arranged by Medium Effected for 2002



	Augusta	Bangor	Portland	Presque Isle	Total
Land	**622**	**534**	**860**	**182**	**2,198**
None	**63**	**106**	**104**	**15**	**288**
Inland Surface Water	**96**	**55**	**100**	**20**	**271**
Groundwater	**34**	**40**	**108**	**23**	**205**
Coastal Water	**19**	**20**	**55**	**0**	**94**
Atmosphere	**18**	**12**	**61**	**1**	**92**
Total	**852**	**767**	**1,288**	**241**	**3,148**

This report was run on 1/30/2004. Data is representative of this date. 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 that the spilled product had the effect of contamination on the reported medium.

Spill Reports for 2002 by Cause of Spill

Augusta	Cause of Spill	Number of Spills
	Accident - Human Error	76
	Accident - Other	30
	Accident - Physical Breakage	40
	Accident - Poor Workmanship	20
	Accident - Storm Damage	20
	Accident - Transportation	70
	Corrosion - Other	12
	Corrosion - Piping	10
	Corrosion - Tank	40
	Discharge - Deliberate/Other	14
	Discharge - Vandalism	5
	Mechanical Failure - Gasket/Seal	19
	Mechanical Failure - Loose Fitting	37
	Mechanical Failure - Other	18
	Mechanical Failure - Piping/Hose	84
	Mechanical Failure - Valve	16
	Other - Known Cause	33
	Other - No Cause	60
	Other - Unknown	71
	Overfill	70
	Process Failure - Other	21
	Office Total	766

Bangor	Cause of Spill	Number of Spills
	Accident - Human Error	56
	Accident - Other	7
	Accident - Physical Breakage	81
	Accident - Poor Workmanship	2
	Accident - Storm Damage	21
	Accident - Transportation	63
	Corrosion - Other	2
	Corrosion - Piping	11
	Corrosion - Tank	49
	Discharge - Bilge	1
	Discharge - Deliberate/Other	8
	Discharge - Vandalism	9
	Mechanical Failure - Gasket/Seal	4
	Mechanical Failure - Loose Fitting	30
	Mechanical Failure - Other	4
	Mechanical Failure - Piping/Hose	60
	Mechanical Failure - Valve	14
	Other - Known Cause	34
	Other - No Cause	103
	Other - Unknown	47
	Overfill	71
	Process Failure - Other	16
	Office Total	693

This report was run on 1/30/2004. Data is representative of this date.

Spill Reports for 2002 by Cause of Spill

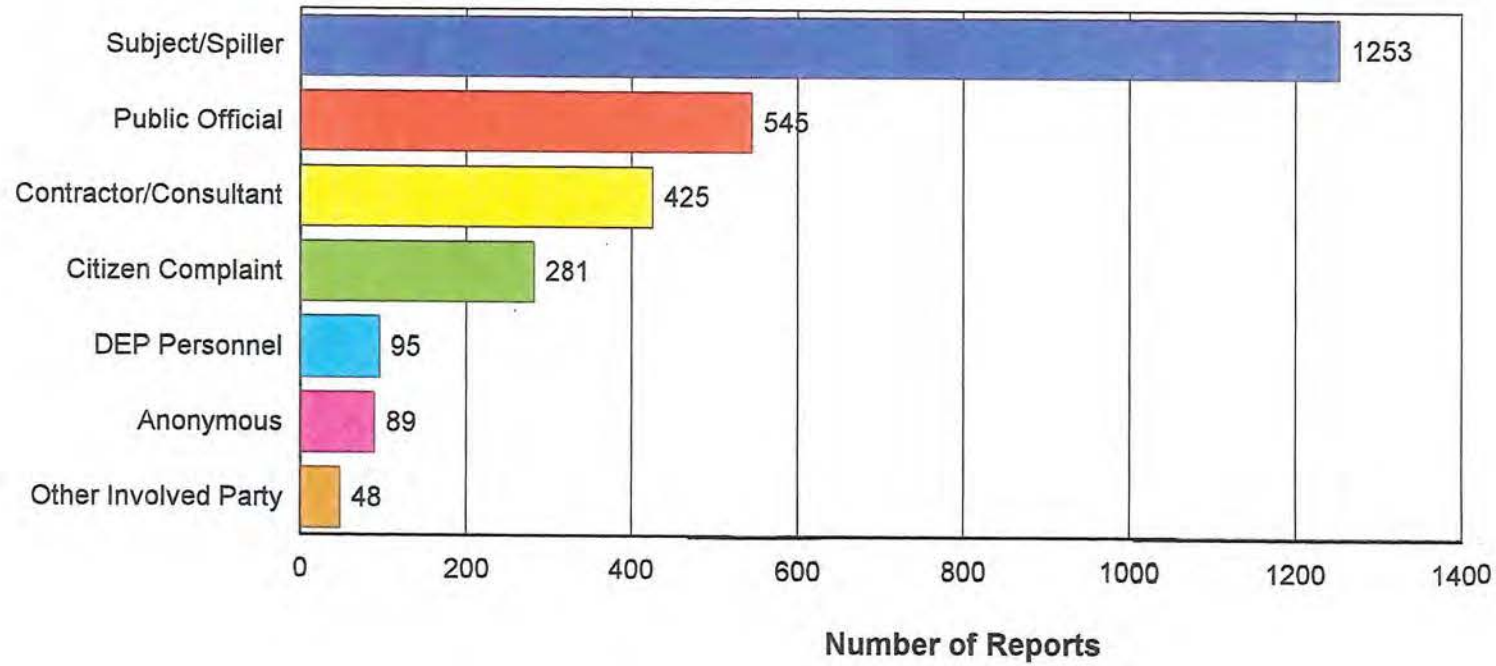
Portland	Cause of Spill	Number of Spills
	Accident - Human Error	100
	Accident - Other	32
	Accident - Physical Breakage	99
	Accident - Poor Workmanship	10
	Accident - Storm Damage	7
	Accident - Transportation	103
	Corrosion - Other	12
	Corrosion - Piping	19
	Corrosion - Tank	56
	Discharge - Bilge	2
	Discharge - Deliberate/Other	30
	Discharge - Vandalism	5
	Mechanical Failure - Gasket/Seal	24
	Mechanical Failure - Loose Fitting	36
	Mechanical Failure - Other	22
	Mechanical Failure - Piping/Hose	62
	Mechanical Failure - Valve	14
	Other - Known Cause	59
	Other - No Cause	92
	Other - Unknown	139
	Overfill	92
	Process Failure - Other	44
	Office Total	1059

Presque Isle	Cause of Spill	Number of Spills
	Accident - Human Error	26
	Accident - Other	20
	Accident - Physical Breakage	24
	Accident - Poor Workmanship	4
	Accident - Transportation	15
	Corrosion - Other	2
	Corrosion - Piping	3
	Corrosion - Tank	24
	Discharge - Deliberate/Other	5
	Discharge - Vandalism	2
	Mechanical Failure - Gasket/Seal	1
	Mechanical Failure - Loose Fitting	10
	Mechanical Failure - Other	1
	Mechanical Failure - Piping/Hose	32
	Mechanical Failure - Valve	2
	Other - Known Cause	8
	Other - No Cause	10
	Other - Unknown	18
	Overfill	11
	Office Total	218

2002 Grand Total	2736

This report was run on 1/30/2004. Data is representative of this date.

Spill Reports by Reporter Method for 2002



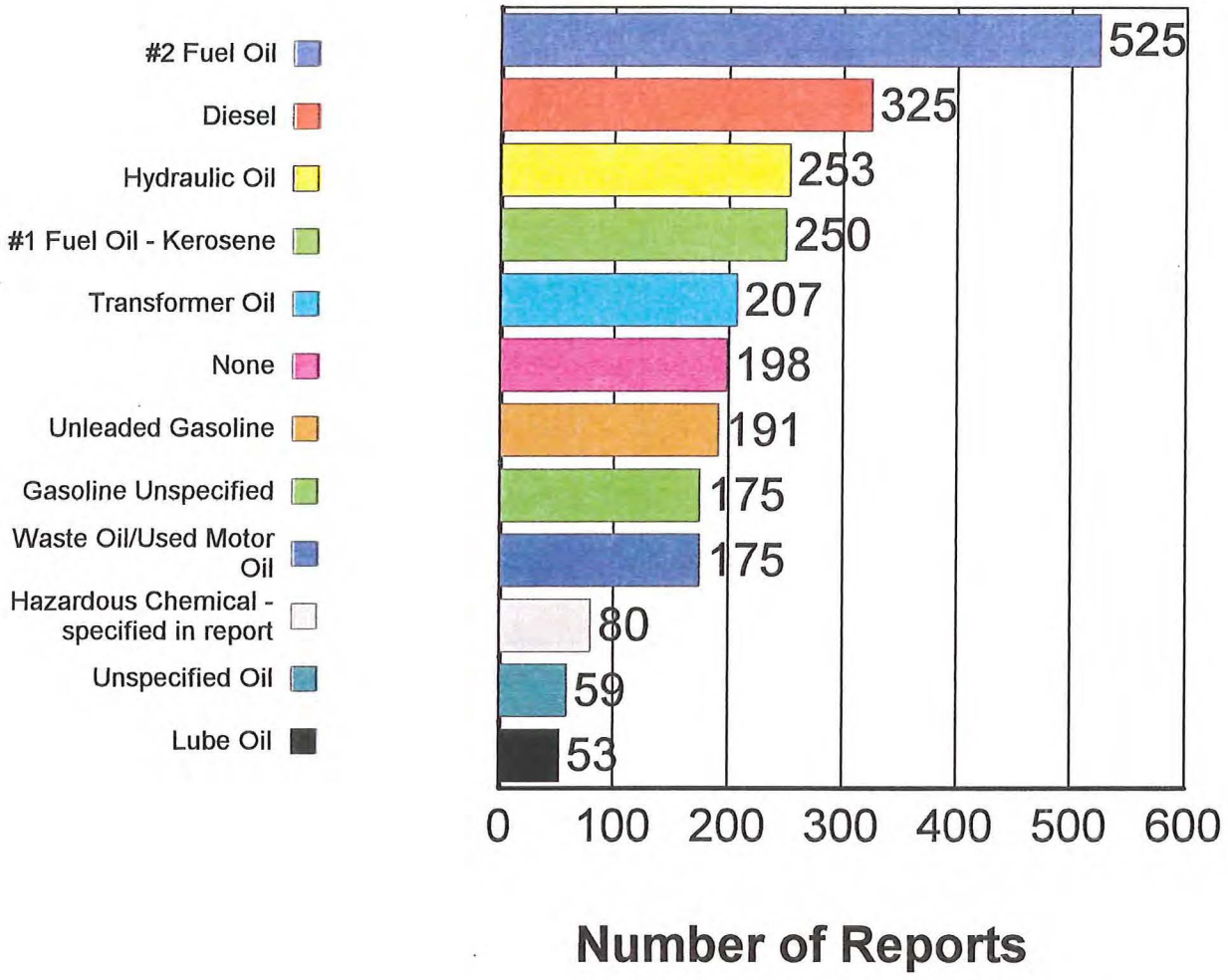
This report was run on 1/30/2004. Data is representative of this date.

Spill Reports by Product Spilled for 2002

Product Spilled	Number of Spills	Product Spilled	Number of Spills
#1 Fuel Oil - Kerosene	250	Lube Oil	53
#2 Fuel Oil	525	Marsh Sheen	14
#4 Fuel Oil	7	Medical Waste	2
#5 Fuel Oil	2	Mercury	41
#6 Fuel Oil	19	Non-Chemical Non-Oil Specified in report	25
Algae Blooms/Plant Pollen Sheens	5	Non-Chemical Non-Oil Unspecified	2
Ammonia	9	None	198
Anti-freeze	45	Non-Hazardous Chemical Specified in report	20
Asphalt	7	Non-Hazardous Chemical Unspecified	3
Aviation Gasoline	9	Oil - Other - Specify in Report	53
Chlorine	5	PCB Oil	6
Corrosive	8	Pesticide General	6
Crude Oil	1	Sulfuric Acid	12
Demolition Debris	6	Transformer Oil	207
Diesel	325	Transmission Oil	18
Gasoline Unspecified	175	Unknown Substance	16
Hazardous Chemical - specified in report	80	Unleaded Gasoline	191
Hazardous Chemical - Unspecified	11	Unspecified Fuel Oil	21
Hydraulic Oil	253	Unspecified Motor Fuel	14
Hydrochloric Acid	2	Unspecified Oil	59
Jet Fuel	13	Waste Oil (as Haz Chem)	4
Leaded Gasoline	4	Waste Oil/Used Motor Oil	175
Liquors	2		

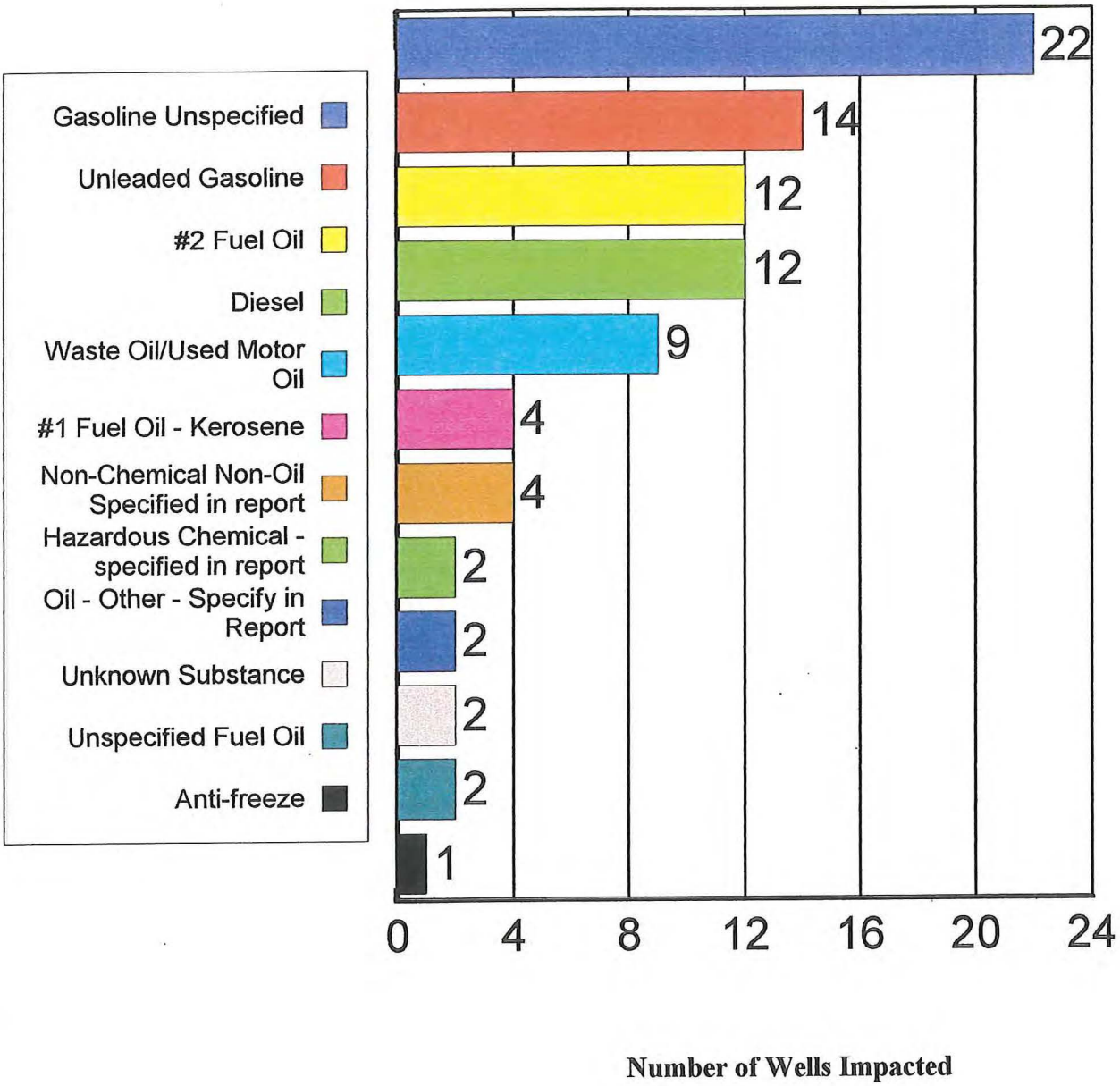
This report was run on 1/30/2004. Data is representative of this date. The number of spill reports reflected does not show the actual number of spills because one spill may have multiple products spilled.

Top Twelve Products Involved in Reports for 2002



This report was run on 1/30/2004. Data is representative of this date. 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 2002



This report was run on 1/30/2004. Data is representative of this date.

Product Catagories vs Wells Impacted for 2002

Product Category	Number of Spills	Number of Wells Impacted
Hazardous & NonHazardous Chemicals	**262**	**3**
Heavy Fuel Oils	**28**	**0**
Home Heating Oils	**796**	**18**
Motor Fuels	**731**	**48**
Non Oil,Non Hazardaous	**244**	**4**
Other Oils	**826**	**12**
Unknown	**16**	**2**
Total	**2,903**	**87**

The Product Catagories above contain the following product types:

Home Heating Oils:	Heavy Fuel Oils:	Motor Fuels:	Other Oils:	Hazardous & Non-Hazardous Chemicals:
#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)
		Aviation Gasoline	Unspecified Oil	Sulfuric Acid
		Jet Fuel	Waste Oil	Corrosives
		Diesel	Transmission Oil	Chlorine
		Unspecified Motor Fuels		Hazardous Chemicals
				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 23:1. That is to say, on average, every twenty-fourth spill of home heating oil or motor fuel results in one contaminated well case.

This report was run on 1/30/2004. Data is representative of this date. 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 2002

Sorted by Spill Type and Product Found

Spill Type	Product Found	Number of Incidents	Wells at Risk	Wells Impacted
Hazardous Material Incident				
	Anti-freeze	1	1	0
	Hazardous Chemical - specified in report	6	13	1
	Hydraulic Oil	1	1	0
	Transmission Oil	1	1	0
	Unspecified Motor Fuel	1	1	0
Non-Oil, Non-Hazardous Incident				
	#2 Fuel Oil	1	1	0
	Anti-freeze	1	0	1
	Corrosive	1	1	0
	Gasoline Unspecified	3	5	5
	Non-Chemical Non-Oil Specified in report	3	5	3
	Non-Chemical Non-Oil Unspecified	1	1	0
	Non-Hazardous Chemical Specified in report	1	1	0
	None	10	14	0
	Unknown Substance	2	2	2
	Unleaded Gasoline	2	1	1
	Unspecified Fuel Oil	1	1	0
	Waste Oil/Used Motor Oil	2	2	0
Oil Incident				
	#1 Fuel Oil - Kerosene	69	86	4
	#2 Fuel Oil	64	68	12
	Anti-freeze	2	2	0
	Demolition Debris	1	1	0
	Diesel	28	35	12
	Gasoline Unspecified	30	28	17
	Hazardous Chemical - Unspecified	1	1	0
	Hazardous Chemical - specified in report	1	1	1
	Hydraulic Oil	5	7	0
	Lube Oil	1	1	0
	Mercury	1	1	0
	Non-Chemical Non-Oil Specified in report	1	0	1
	None	1	2	0
	Oil - Other - Specify in Report	9	16	2
	Sulfuric Acid	1	1	0
	Transformer Oil	1	1	0
	Transmission Oil	1	1	0
	Unleaded Gasoline	28	46	13
	Unspecified Fuel Oil	2	1	2
	Unspecified Motor Fuel	1	1	0
	Unspecified Oil	4	8	1
	Waste Oil/Used Motor Oil	11	14	9
Totals		301	373	87

This report was run on 1/30/2004. Data is representative of this date.

Amount of Material Spilled in 2002 by Response Office and Spill Type

Response Office	Spill Type	B	G	P	U	Y
Augusta	Hazardous Material Incident	0	58,826	852	0	0
	Non-Oil, Non-Hazardous Incident	8	15	0	0	0
	Oil Incident	0	17,480	0	0	0
	Office Total	**8**	**76,320**	**852**	**0**	**0**
Bangor	Hazardous Material Incident	0	551,088	29,440	0	0
	Non-Oil, Non-Hazardous Incident	0	77	0	0	0
	Oil Incident	0	18,857	0	0	0
	Office Total	**0**	**570,022**	**29,440**	**0**	**0**
Portland	Hazardous Material Incident	0	3,574	1,501	0	0
	Non-Oil, Non-Hazardous Incident	0	331	30	0	0
	Oil Incident	0	52,135	10	0	40
	Office Total	**0**	**56,040**	**1,541**	**0**	**40**
Presque Isle	Hazardous Material Incident	0	196	0	0	0
	Non-Oil, Non-Hazardous Incident	0	1,571	0	0	0
	Oil Incident	0	10,037	0	0	0
	Office Total	**0**	**11,804**	**0**	**0**	**0**
Grand Total of All Offices Combined		**8**	**714,186**	**31,833**	**0**	**40**

NOTE: All numeric fields are BEST ESTIMATES by the OHMS involved based on the years of experience with spill events. Units of measure are abbreviated as follows:

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

This report was run on 1/30/2004 . Data is representative of this date.

Recovery Method

The following six 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

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

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

Units of Measure

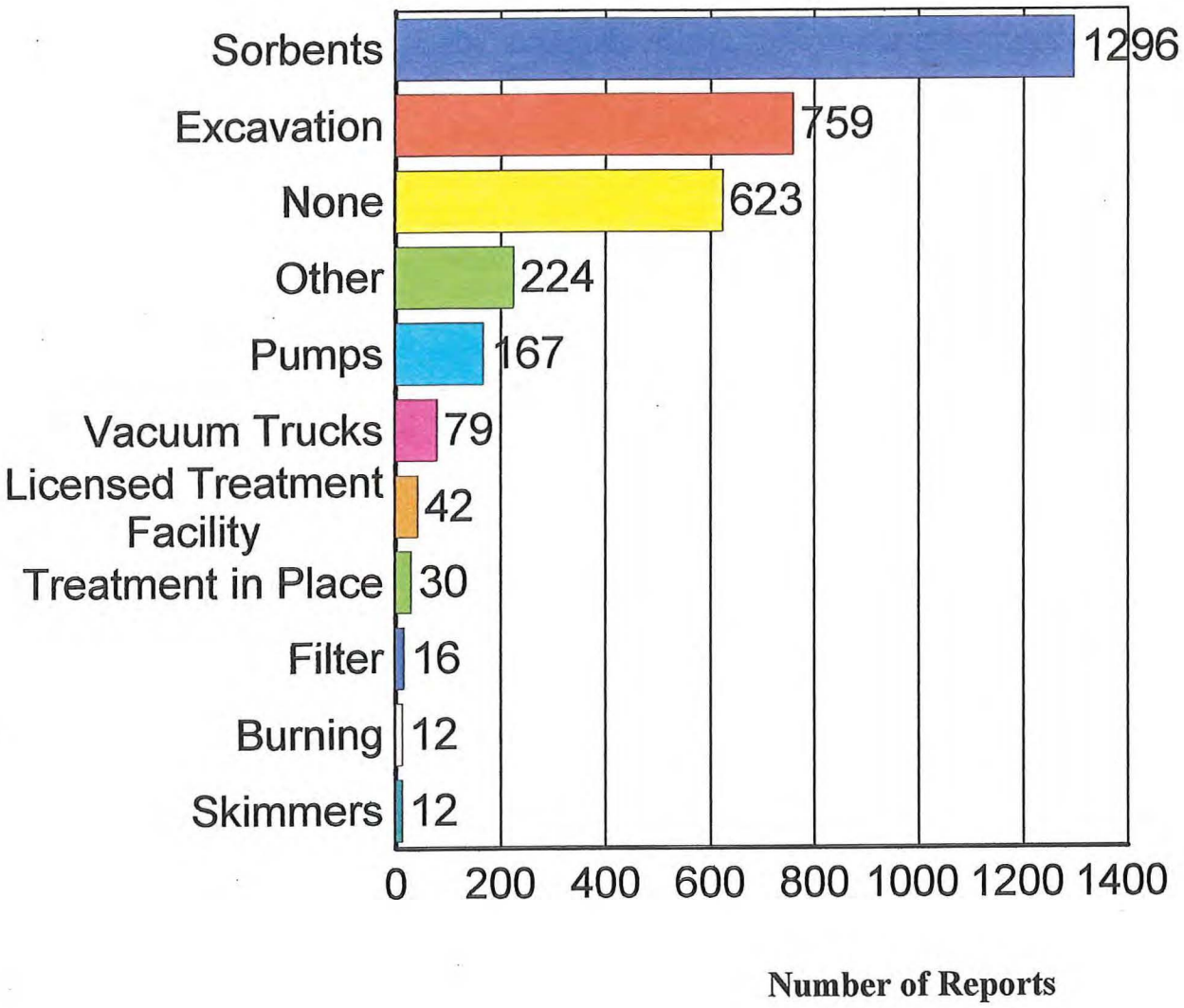
B = Barrels
G = Gallons
P = Pounds
T = Tons
U = Unknown
Y = Cubic Yards

Recovered Amounts of Spilled Material in 2002
by Spill Type and Recovery Method

	Recovery Method	B	G	P	T	U	Y
Hazardous Material Incident	Burning	0	0	0	0	0	0
	Excavation	0	581	0	0	0	38
	Licensed Treatment	0	1,086,850	76	0	0	0
	None	0	6	0	0	0	0
	Other	0	27,938	6,176	0	0	5
	Pumps	0	1,118,002	6,002	0	0	14
	Sorbents	0	447	1,630	2	0	0
	Treatment in Place	0	282	1,600	0	0	9
	Vacuum Trucks	0	18,590	0	0	0	0
Non-Oil, Non-Hazardous Incident	Excavation	0	0	20	70	0	11
	None	0	0	0	0	0	0
	Other	0	227	50	0	0	0
	Pumps	0	285	0	0	0	0
	Skimmers	0	1	0	0	0	0
	Sorbents	0	1,760	0	0	0	0
	Treatment in Place	0	0	0	0	0	0
	Vacuum Trucks	0	1,195	0	0	0	0
Oil Incident	Burning	0	743	20	28	0	0
	Excavation	2,350	159,825	4,741	15,258	0	23,567
	Filter	0	5,507	0	379	0	110
	Licensed Treatment	1	10,404	0	109	0	11
	None	0	51	0	0	0	0
	Other	13	65,397	2,100	332	0	1,716
	Pumps	2,301	167,123	1,812	3,492	0	1,908
	Skimmers	0	6,969	0	177	0	36
	Sorbents	45	79,944	7,372	1,640	0	2,395
	Treatment in Place	5	68	20	402	0	2
	Vacuum Trucks	2,300	76,226	1,680	1,419	0	739

This report was run on 1/30/2004. Data is representative of this date.

Recovery Methods Used in 2002



This report was run on 1/30/2004. Data is representative of this date. The total number of recovery methods used in 2002 is greater than the total number of spill reports due to some reports had multiple recovery methods used during a spill.

Types of Hazardous Material Spilled

The following table, "Hazardous Materials and Other Non-Oil Materials Spilled in 2002", contains a summary of the best information available to Response Services as to the types of chemicals and other hazardous materials spilled during 2002. 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. 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; 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 and Other Non-Oil Materials Spilled in 2002

Number of Incidents	Material Spilled	Amount Spilled	Unit of Measure
3	Algae Blooms/Plant Pollen Sheens	Unknown	U
1	245-T	0.00	G
1	8263 Plus	15.00	G
1	Acetone	Unknown	U
1	Acetylene	Unknown	U
1	Aerosol Carb Cleaner	250.00	P
1	Algae Blooms/Plant Pollen Sheens	Unknown	G
1	Alkaline A	30.00	G
1	Aluminum Sulphate	12,000.00	G
2	Ammonia	0.00	G
3	Ammonia	1,110.00	P
4	Ammonia	Unknown	U
23	Anti-freeze	54.35	G
2	Anti-freeze	Unknown	U
1	Asbestos	Unknown	U
1	Ash	Unknown	U
1	Bacteria	Unknown	U
1	Barvo ZN	5.00	G
2	Black Liquors	530,918.00	G
1	Bleach	Unknown	U
1	Carbon Tetrachloride	0.50	G
2	Caustic Soda	205.00	G
1	Caustic Solution	1,560.00	G
2	Chlorine	8.50	P
3	Chlorine	Unknown	U
3	Chlorine Dioxide	45,400.00	G
1	Concrete Sealer	1.00	G
1	Coolant	2.00	G
5	Corrosive	1,052.00	G
1	Creosote	0.10	G
4	Demolition Debris	Unknown	U
1	Dinoseb	0.00	G
1	D'Limonene	0.00	G
1	Dry Cleaner Solvent	Unknown	U
2	Ether	0.00	G
1	Ether	50.00	P
1	Ethylene Glycol	25.00	G
1	Fertilizer Mulch	5.00	G
1	Fiberglass	Unknown	U
1	Formaldehyde Solution	25.00	G
1	Freon	350.00	P
1	Glycol	1.00	G
3	Hazardous Chemical - specified in report *	568.25	P
13	Hazardous Chemical - specified in report *	1,138.45	G
5	Hazardous Chemical - specified in report *	Unknown	U
4	Hazardous Chemical - Unspecified	123.50	G
4	Hazardous Chemical - Unspecified	Unknown	U
1	HCI, FH	0.00	P

This report was run on 01/30/2004. Data is representative of this date.

*The amount spilled shown is the least amount spilled.

1	Hydraulic Oil	Unknown	U
2	Hydrochloric Acid	1.25	G
1	Lead Debris	165.00	G
1	Liquid Oxygen	29,000.00	P
12	Marsh Sheen	10.00	G
2	Marsh Sheen	Unknown	U
2	Medical Waste - Syringes (3)	0.25	P
1	Melamine Contaminated Waste	20.00	P
9	Mercury	1.39	G
12	Mercury	Unknown	U
17	Mercury	84.22	P
1	Naptha	1.00	G
1	Naturally Ocurring Arsenic	Unknown	U
1	Nitric Acid	100.00	G
1	Nitric/Hydrofluoric Acid	20.00	G
8	Non-Chemical Non-Oil Specified in report	65.50	G
1	Non-Chemical Non-Oil Unspecified	1,000.00	G
1	Non-Chemical Non-Oil Unspecified	Unknown	U
189	None	0.00	
2	Non-Hazardous Chemical Specified in rep	320.00	P
4	Non-Hazardous Chemical Specified in rep	2,313.00	G
3	Non-Hazardous Chemical Unspecified	Unknown	U
1	Oxygen	Unknown	U
1	Paint Thinner	1.00	G
1	Paper Machine White Water	300.00	G
5	PCB Oil	4.39	G
2	PCB Oil	Unknown	U
3	Pesticide General*	0.50	G
2	Petroleum-based paint	10.00	G
1	Phenolic Resin	0.50	G
1	Phosphoric Acid 62 %	600.00	G
1	Photo Waste	50.00	G
1	Piome 188 Resin	5.00	G
1	Piomel Resin	1.00	G
1	Potassium Hydroxide	2.00	G
1	Potassium Hydroxide 49%	3.00	G
1	Process Water	20.00	G
4	Propane	Unknown	U
4	Propylene Glycol	121.00	G
1	R-22	2.00	P
1	Sewer	0.00	G
1	Sludge & Water	0.00	G
1	Sodium Caprylate	20.00	P
1	Sodium Hydroxide	10.00	P
1	Sodium Hydroxide	270.00	G
1	Sodium Hydroxide 50%	7,500.00	G
1	Sodium Hydroxide/Water mixture	30.00	G
5	Sodium Hypochlorite	5,500.00	G
1	Sodium Nitrite Solution	0.50	G
1	Soot	10.00	G
1	Standard Medical Waste	30.00	P
9	Sulfuric Acid	501.70	G

This report was run on 01/30/2004. Data is representative of this date.

*The amount spilled shown is the least amount spilled.

1	Sulfuric Acid	Unknown	U
1	Tetrachlorethylene	0.00	G
1	Transmission Oil	5.00	G
1	Transmission Oil	Unknown	U
7	Unknown Substance	3,012.10	G
7	Unknown Substance	Unknown	U
1	Used Cooking Oil	65.00	G
1	Waste Acetic Acid	220.00	G
4	Waste Oil (as Haz Chem)	115.00	G
1	Wax	500.00	G
1	Windshield Washer Fluid	0.50	G
1	Xylene	5.00	G

This report was run on 01/30/2004. Data is representative of this date.
*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
- Government, Municipal or Religious Facility

Other

- Other - Mystery
- Other - None specified
- 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

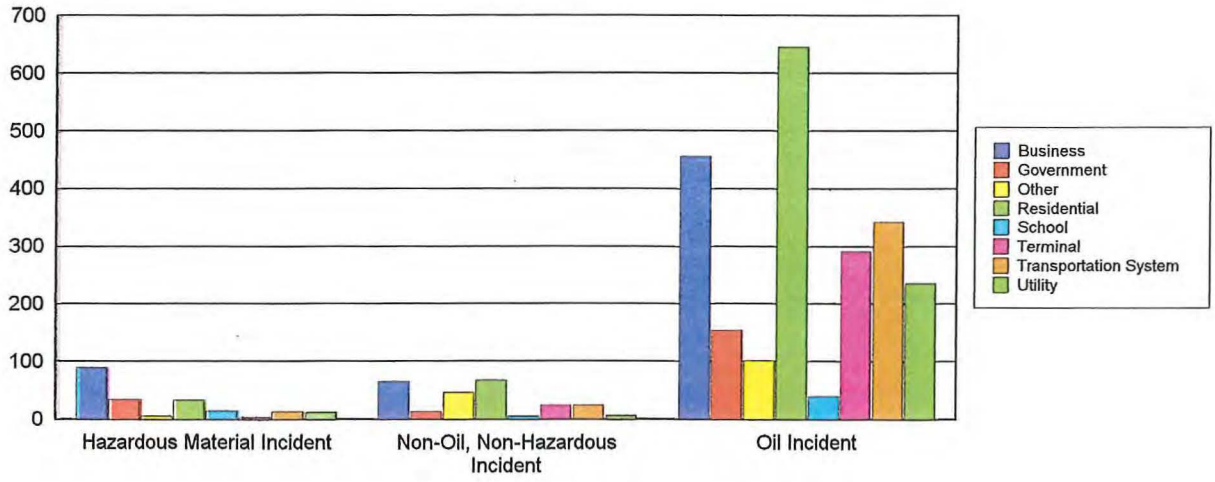
- Transportation - Air
- Transportation - Marine
- Transportation - Other Off Road
- Transportation - Pipeline
- Transportation - Rail
- Transportation - Road

Utility

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

This report was run on 1/30/2004. Data is representative of this date.

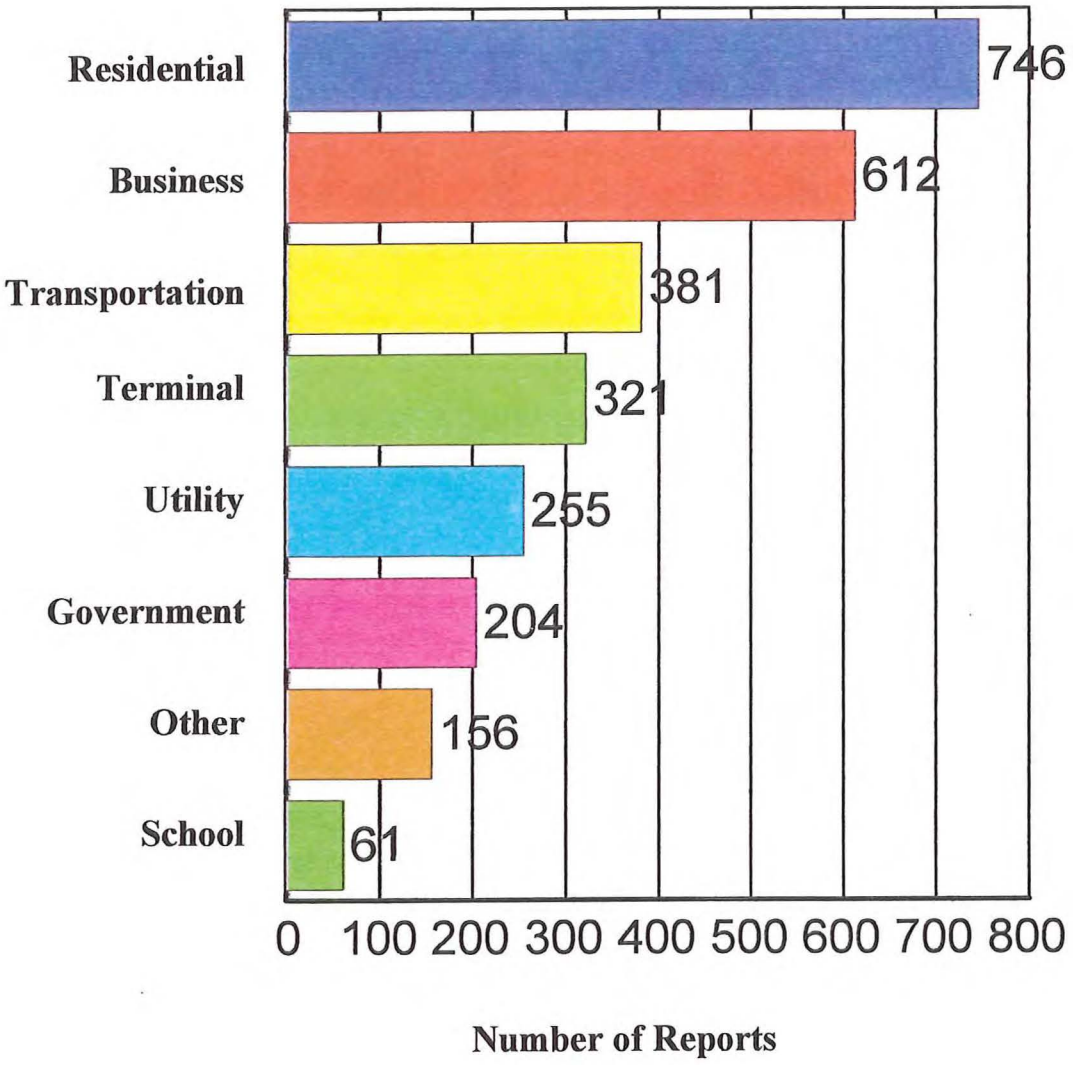
Types of Facilities Involved in Reports during 2002 by Incident Location Category



Hazardous Material Incident	**208**
Business	**90**
Government	**35**
Other	**6**
Residential	**33**
School	**15**
Terminal	**4**
Transportation System	**13**
Utility	**12**
Non-Oil, Non-Hazardous Incident	**258**
Business	**66**
Government	**14**
Other	**47**
Residential	**68**
School	**6**
Terminal	**25**
Transportation System	**25**
Utility	**7**
Oil Incident	**2,270**
Business	**456**
Government	**155**
Other	**103**
Residential	**645**
School	**40**
Terminal	**292**
Transportation System	**343**
Utility	**236**
Grand Total of Spills	**2,736**

This report was run on 1/30/2004. Data is representative of this date.

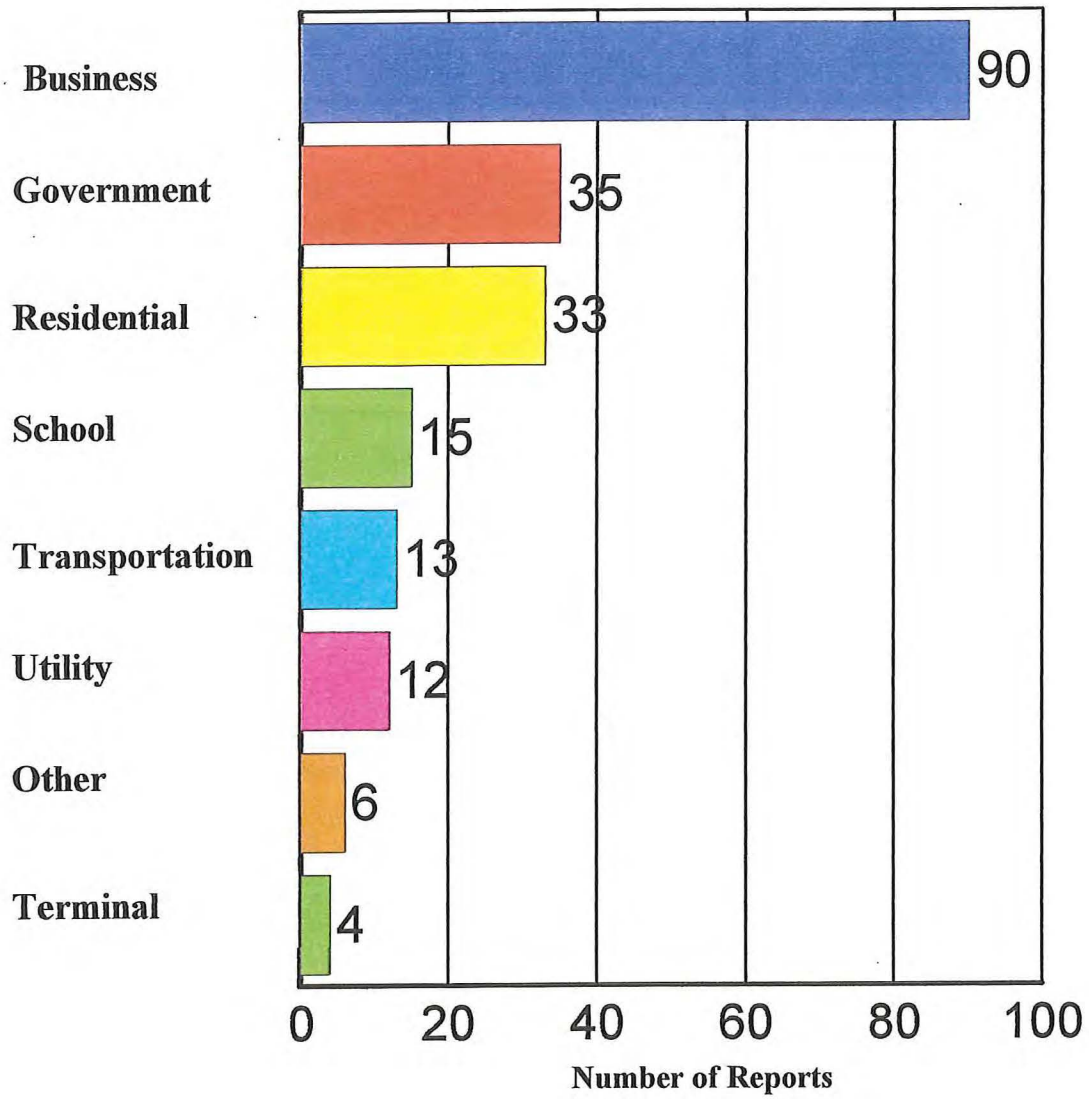
Types of Facilities Involved in All Spill Reports for 2002



Total Number of Spills 2,736

This report was run on 1/30/2004. Data is representative of this date.

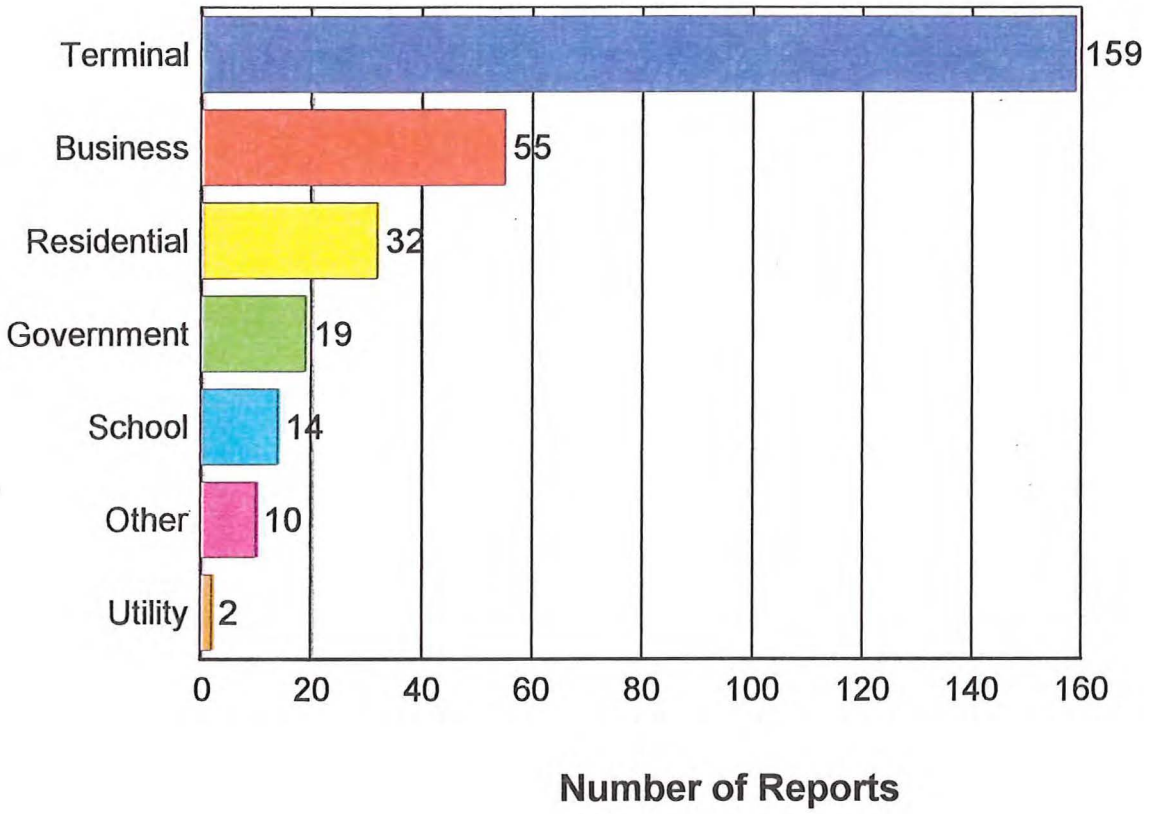
Types of Facilities Involved in Hazardous Material Incidents in 2002



Total Number of Reports **208**

This report was run on 1/30/2004. Data is representative of this date.

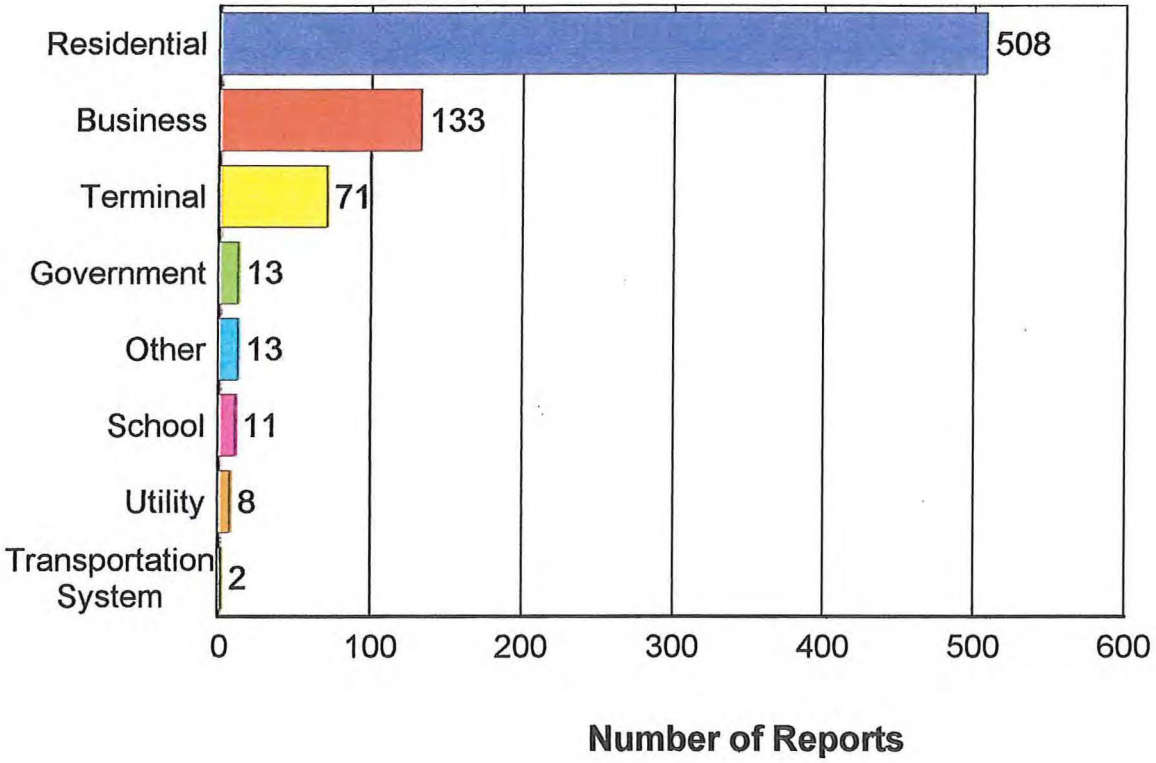
Types of Facilities Involving Underground Storage Tanks in 2002



Total Number of Reports **291**

This report was run on 1/30/2004. Data is representative of this date.

Types of Facilities Involving Aboveground Storage Tanks in 2002



Total Number of Reports **759**

This report was run on 1/30/2004. Data is representative of this date.

Explanation of Discrepancies between 2002 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 2002.

When product is first transferred into the state, the DEP applies the appropriate Maine Coastal & Inland Surface Oil Clean-up Fund and Ground Water Oil Clean-up 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 (Diesel)
Fuel Oil #5
Fuel Oil #6
No Lead (Regular & Super)
Aviation
JP-4 (Jet Fuel)
JP-1 & Jet-A (Jet Fuel)
Asphalt
Crude Oil
Other Petroleum Products:
(Mineral Oil, Hydraulic Fluid, etc)

Ground Water Fund Barrels of Product Transported into Maine for 2002

Product	# of Barrels
Kerosene #1	1,220,665
Fuel Oil #2 (Diesel)	16,411,706
Fuel Oil #5	0
Fuel Oil #6	5,658,088
No Lead (Regular & Super)	20,373,041
Aviation	21,185
JP-4 (Jet Fuel)	0
JP-1 & Jet-A (Jet Fuel)	1,287,028
Asphalt	961,504
Crude Oil	152,591,366
Other Petroleum Products: (Mineral Oil, Hydraulic Fluid, etc)	48,091
Total Barrels	**198,572,674**

Surface Fund Barrels of Product Transported/Transferred in Maine for 2002

Product	# of Barrels
Kerosene #1	1,220,665
Fuel Oil #2 (Diesel)	16,622,885
Fuel Oil #5	0
Fuel Oil #6	6,532,470
No Lead (Regular & Super)	20,373,041
Aviation	21,185
JP-4 (Jet Fuel)	0
JP-1 & Jet-A (Jet Fuel)	1,287,028
Asphalt	961,504
Crude Oil	152,591,366
Other Petroleum Products: (Mineral Oil, Hydraulic Fluid, etc)	48,091
Total Barrels	**199,658,235**