



# Quarterly Provisional Data Release OIL AND HAZARDOUS SUBSTANCE RELEASES

PREVENTION AND EMERGENCY RESPONSE PROGRAM  
DIVISION OF SPILL PREVENTION AND RESPONSE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

APRIL 1 - JUNE 30, 1996

## SPILLS DIGEST

NUMBER OF RELEASES IS  
NOTED IN PARENTHESES ( ).

### TOP 10 SUBSTANCES

DIESEL (186)  
HYDRAULIC OIL (55)  
CRUDE (40)  
OTHER (38)  
GASOLINE (37)  
AVIATION FUEL (33)  
ENGINE LUBE OIL (26)  
WASTE OIL (ALL TYPES) (26)  
SULFUR DIOXIDE (24)  
ANHYDROUS AMMONIA (12)  
PRODUCED WATER (9)



### TOP 10 SPILL CAUSES

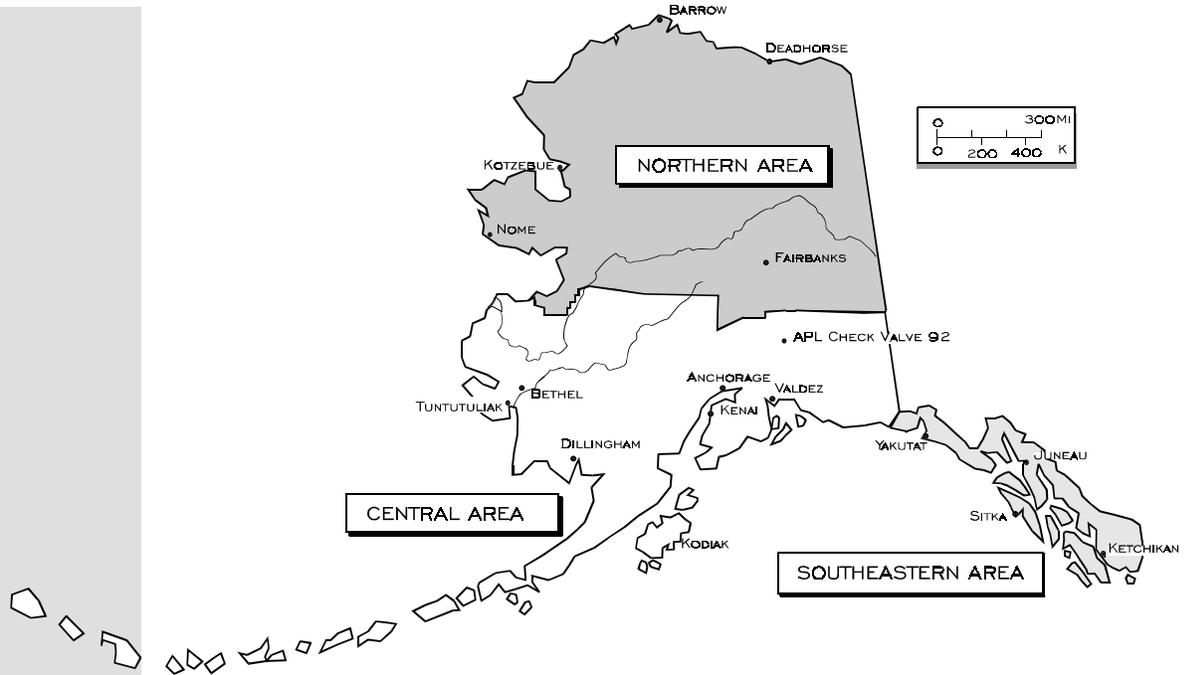
LEAK, OTHER (102)  
TANK OVERFILL (70)  
OTHER/UNKNOWN (107)  
LINE RUPTURED (58)  
SEAL FAILURE (34)  
INTENTIONAL RELEASE (25)  
VALVE FAULTY (22)  
CARGO NOT SECURED (18)  
VALVE LEFT OPEN (15)



### TOP 10 SPILL SOURCES

OTHER/UNKNOWN (119)  
HOME/OFFICE/BUSINESS (62)  
TRUCK (42)  
FUEL STATION (38)  
FISHING (35)  
INDUSTRIAL VEHICLE (35)  
REFINERY (30)  
AUTO (27)  
PIPELINE (25)  
DRUM(S) (24)  
HOME HEATING TANK (21)

**PLEASE NOTE...** This report summarizes **provisional** spill data for the quarter. Readers should be aware that minor discrepancies in the data may exist. The Department expects to release the final data summary for FY 96 in October.



## SIGNIFICANT RESPONSES



Responders use sorbent pads to remove diesel which leaked from a home heating fuel tank in Juneau.



Tuntutuliak tank farm.

### KETCHIKAN PULP CORPORATION

April 9, 1996

An underground pipe ruptured, resulting in a discharge of approximately 125,000 gallons of process wastewater. The wastewater was estimated to have a pH of 4-5 and a very high BOD (biological oxygen demand). Fortunately, the discharge was successfully diverted to the facility's primary treatment plant, and did not enter the storm drain system or adjacent waters.

### HOME HEATING FUEL TANK

June 8, 1996

Approximately 200-350 gallons of diesel fuel leaked from a buried home heating oil tank in Juneau, contaminating the owner's property, the adjacent property and intertidal wetlands. Corrosion caused the tank failure.

### TAPS CHECK VALVE 92

April 20, 1996

A loose plug on a bypass line caused a 20,160-gallon crude oil spill near Pump Station 10 of the Trans-Alaska Pipeline System (TAPS). The responsible party has removed approximately 3,700 cubic yards of contaminated soil so far. The full extent of contamination in the surrounding soil has not yet been determined.

### TUNTUTULIAK TANK FARM

June 17, 1996

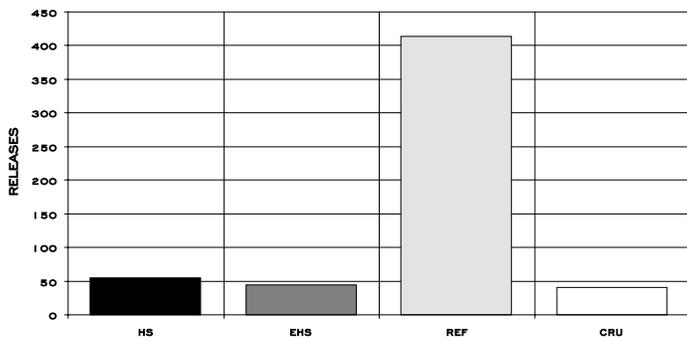
Approximately 9,000 gallons of gasoline was released when the valves of two tanks were accidentally left open. Department responders installed a sprinkler system to flush the surrounding soils. The local Village Corporation has hired a contractor to complete the cleanup.

# I. STATEWIDE SUMMARY OF RELEASES BY PRODUCT

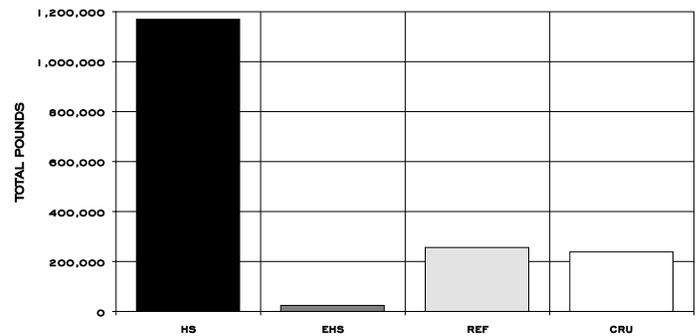
4TH QUARTER		
PRODUCT CATEGORY	#	TOTAL LBS
CRUDE OIL (CRU)	40	237,497
REFINED OIL (REF)	414	257,822
EXTREMELY HAZARDOUS SUBSTANCE (EHS)	44	23,146
HAZARDOUS SUBSTANCE (HS)	54	1,169,137
<b>TOTAL</b>	<b>552</b>	<b>1,687,602</b>

KEY TO GRAPHS	
	Hazardous Substance (HS)
	Extremely Hazardous Substance (EHS)
	Refined Oil (REF)
	Crude Oil (CRU)

**NOTE:** RELEASES ARE REPORTED TO THE DEPARTMENT IN GALLONS (GAL) OR POUNDS (LBS). HOWEVER, IN ORDER TO SUMMARIZE DATA IN BAR GRAPHS, RELEASES REPORTED IN GALLONS ARE CONVERTED TO POUNDS USING 8.33 POUNDS/GALLON AS A CONVERSION FACTOR. TO CONVERT POUNDS TO GALLONS, DIVIDE BY 8.33.



NUMBER OF RELEASES BY PRODUCT

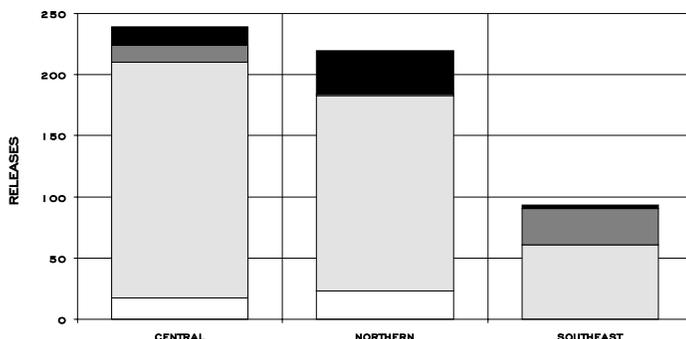


POUNDS RELEASED BY PRODUCT

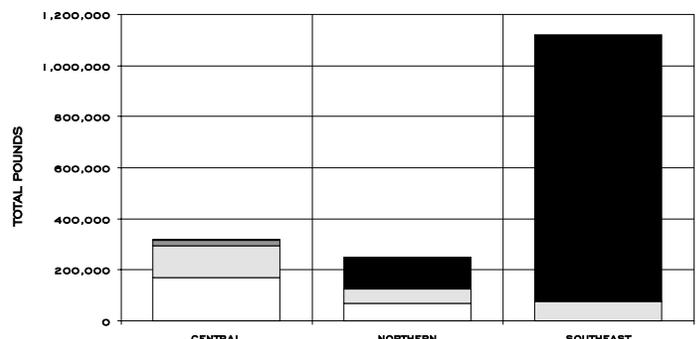
# II. SUMMARY OF RELEASES BY AREA

PRODUCT	CENTRAL		NORTHERN		SOUTHEAST	
	#	TOTAL LBS	#	TOTAL LBS	#	TOTAL LBS
CRU	17	168,649	23	68,847	0	0
REF	193	124,567	160	56,602	61	76,653
EHS	14	22,378	1	8	29	760
HS	15	2,828	36	125,010	3	1,041,301
<b>TOTAL</b>	<b>239</b>	<b>318,421</b>	<b>220</b>	<b>250,468</b>	<b>93</b>	<b>1,118,713</b>

KEY TO GRAPHS	
	Hazardous Substance (HS)
	Extremely Hazardous Substance (EHS)
	Refined Oil (REF)
	Crude Oil (CRU)



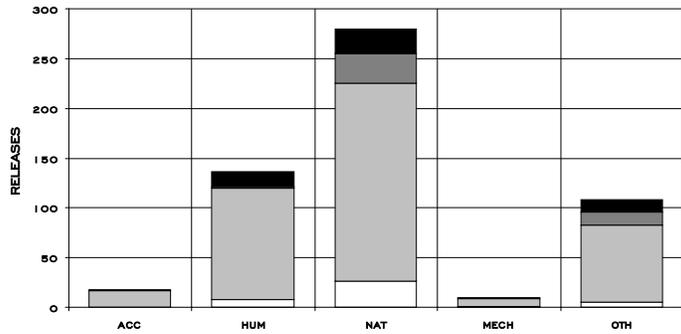
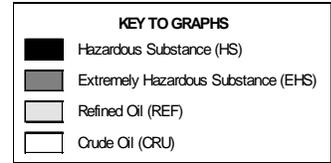
NUMBER OF RELEASES BY AREA AND PRODUCT



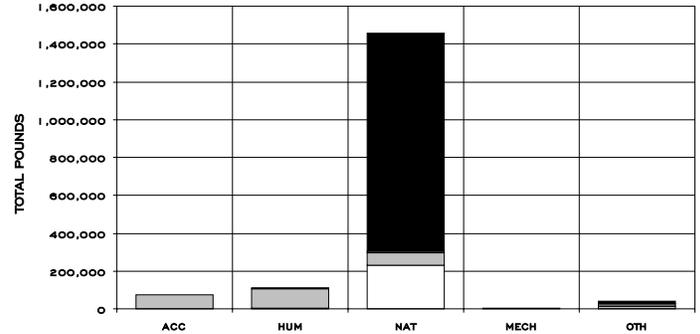
POUNDS RELEASED BY AREA AND PRODUCT

### III. SUMMARY OF RELEASES BY CAUSE

PRODUCT	ACCIDENT		HUMAN FACTORS		NATURAL CAUSES		MECHANICAL		OTHER/UNKNOWN	
	#	TOTAL LBS	#	TOTAL LBS	#	TOTAL LBS	#	TOTAL LBS	#	TOTAL LBS
CRU	0	0	8	3,374	26	233,115	1	58	5	950
REF	17	75,586	112	104,142	199	63,966	8	3,482	78	10,646
EHS	0	0	1	1	30	7,948	0	0	13	15,197
HS	1	33	15	3,846	25	1,152,556	1	180	12	12,523
<b>TOTAL</b>	<b>18</b>	<b>75,620</b>	<b>136</b>	<b>111,362</b>	<b>280</b>	<b>1,457,585</b>	<b>10</b>	<b>3,720</b>	<b>108</b>	<b>39,315</b>



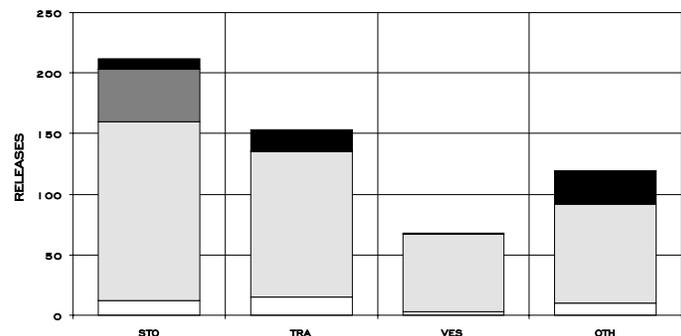
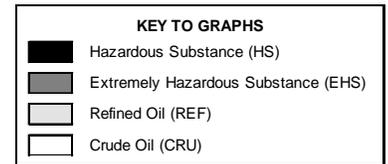
NUMBER OF RELEASES BY CAUSE AND PRODUCT



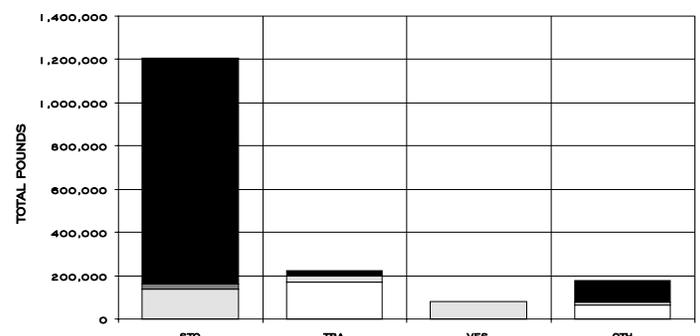
POUNDS RELEASED BY CAUSE AND PRODUCT

### IV. SUMMARY OF RELEASES BY SOURCE

PRODUCT	STORAGE		TRANSPORT		VESSEL/BARGE		OTHER/UNKNOWN	
	#	TOTAL LBS	#	TOTAL LBS	#	TOTAL LBS	#	TOTAL LBS
CRU	12	1,666	15	171,940	3	367	10	63,525
REF	148	137,537	120	24,623	64	80,959	82	14,702
EHS	43	23,137	1	8	0	0	0	0
HS	9	1,043,097	17	26,046	1	8	27	99,987
<b>TOTAL</b>	<b>212</b>	<b>1,205,437</b>	<b>153</b>	<b>222,618</b>	<b>68</b>	<b>81,334</b>	<b>119</b>	<b>178,214</b>



NUMBER OF RELEASES BY SOURCE AND PRODUCT



POUNDS RELEASED BY SOURCE AND PRODUCT

# PREVENTION NOTES....

## OIL SHIPPERS, KODIAK, AND STATE AGREE TO PROTECT HATCHERY

The Kitoi Bay fish hatchery will be better protected from oil spills under an agreement signed June 24 in Juneau by oil shippers, the Kodiak Island Borough, and the State. DEC officials said the action signals a beefing up of area spill response plans to better protect Kodiak's coastline. The companies agreed to purchase equipment and complete training recommended in the Kitoi Bay Hatchery Protection Plan by December 31, 1996.



## DEC WANTS AN ADVISORY ON ABANDONED BARRELS AND DRUMS

The Department of Environmental Conservation is asking anyone who finds old barrels, drums or other unmarked containers to report them to the agency at 269-7500 or (800) 478-9300. People should not try to open or move the containers, agency officials said. The request comes after schoolchildren in Unalaska unintentionally broke open a 55-gallon drum containing

paint during a cleanup day. No one was injured, but the paint leaked into a stream, killing about 1,000 fish.



## PREVENTING LEAKS FROM HOME HEATING FUEL TANKS

Each year DEC responds to numerous spills from home heating fuel tanks throughout the state. Homeowners typically are unaware of their tank's condition until it fails. Cleanup costs can exceed \$10,000, especially if surface or groundwater are impacted. The Department will be issuing a fact sheet to help educate homeowners on how to prevent leaks in their tanks through preventative maintenance.



## DEC HELPS NORTH SLOPE VILLAGES PREVENT AND CLEAN UP FUEL SPILLS

On June 28, Randy Rogers, a spill responder with the Northern Area Response Team (NART), was a guest speaker in a course for residents of northern rural communities that included several persons employed as fuel handlers in North Slope villages. Rogers outlined DEC's roles in spill prevention and cleanup, providing a review of state spill contingency planning requirements, spill reporting and response procedures and waste management approaches. The course was organized by Alaska Biological Research and conducted at Ilisagvik College in Barrow.



## DEFINITIONS & ABBREVIATIONS

**Crude Oil (CRU):** unrefined petroleum products.

**Refined Oil (REF):** refined petroleum products, including gasoline, diesel, petroleum-based lubricants, oily waste, kerosene, and aviation fuel.

**Extremely Hazardous Substance (EHS):** acutely toxic substances as established by the U.S. Environmental Protection Agency under the Emergency Planning and Community Right-to-Know Act. The list of EHSs is established by federal regulation (40 CFR Part 355) and includes approximately 360 substances. Chlorine and ammonia are the most common EHSs used in Alaska.

**Hazardous Substance (HS):** any substance not included in the above definitions that is potentially harmful to humans or the environment when it is released to land, air, or water.

**PLEASE NOTE...** This report summarizes **provisional** spill data for the quarter. While generally accurate, discrepancies in the data may exist. The Department expects to release a data summary for FY 96 by late October.

**TO SUBSCRIBE...** to the "Quarterly Summary of Oil and Hazardous Substance Releases," send your name and address to: Camille Stephens, 410 Willoughby Ave., Juneau, AK 99801, or email:

cstephen@envircon.state.ak.us



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