



State of Maine Aboveground Supply Tank Replacement Program



Maine Department of Environmental Protection

Jon Woodard

Nathan Thompson

The State of Maine has a lot of.....



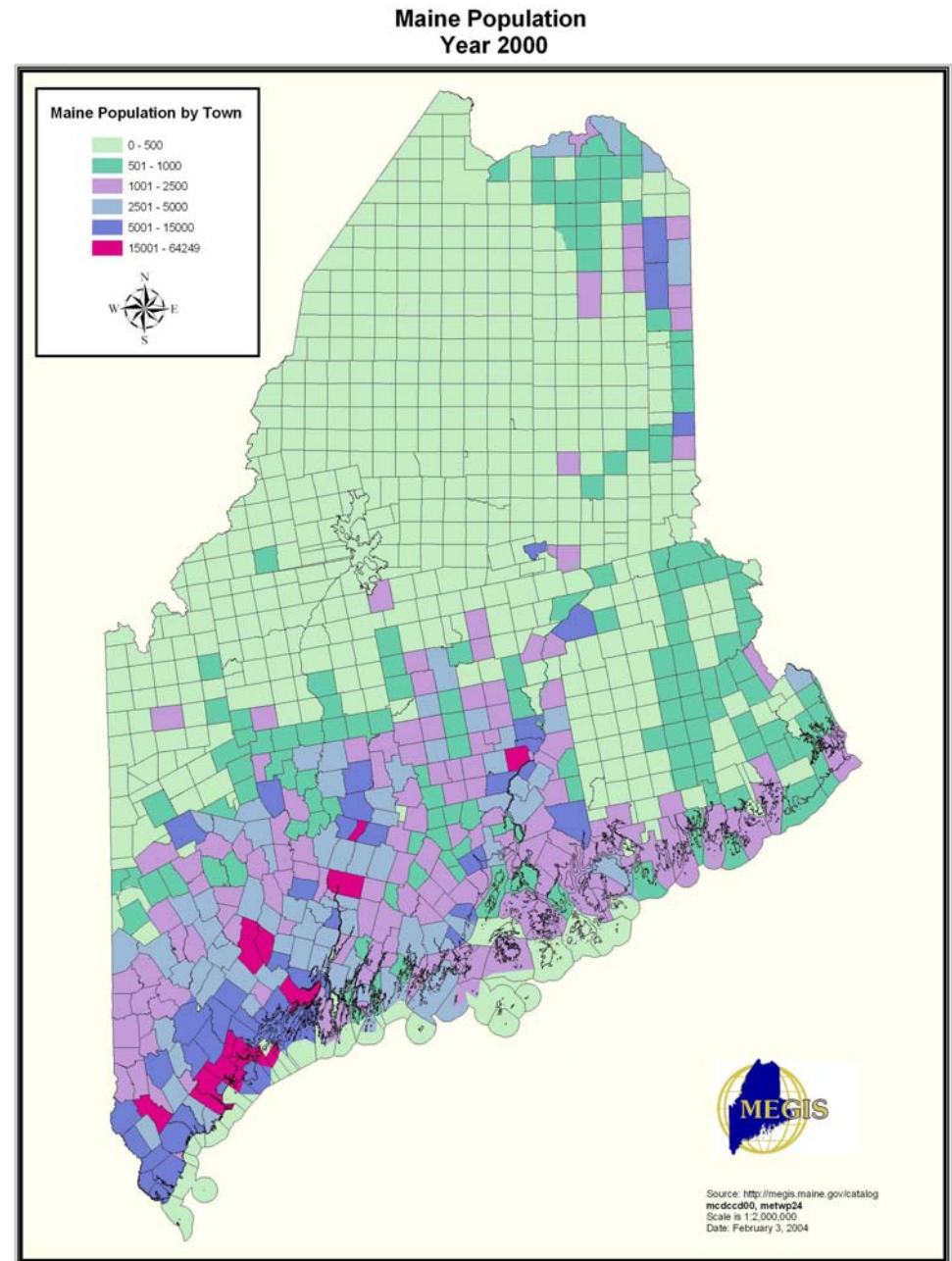
Photo by Wit Kosinski Brewer, Maine 207 989 5665

But not a lot of people...



80.2 % of single family residents rely of fuel for heat.

Source: Maine Oil Dealers Association.



- Through the 1990's Maine DEP began to see a rise in heating oil above ground storage discharges.
- Many discharges were caused by tank corrosion, poor installations, and physical breakage of the line from the tank.

AST Discharges in Maine

- Through the 1990's Maine DEP began to see a rise in heating oil above ground storage discharges.
- Many discharges were caused by tank corrosion, poor installations, and physical breakage of the line from the tank.

Physical Breakage



Physical Breakage



Physical Breakage



Corrosion



Discharges of petroleum from above ground oil storage tanks in Maine 1995-2004

	Single Family Residential (#1 & #2 Oil)	All Facilities (all petrol.)
1995	235	380
1996	342	534
1997	284	451
1998	451	638
1999	434	683
2000	441	675
2001	610	906
2002	469	747
2003	546	871
2004	478	801
TOTAL	4290	6686

Source: Hazardous Material & Oil Spill System (HOSS)

Results of discharges

- Bedrock and groundwater well contamination.
- Damage to property & real estate values
- Vapor issues in houses
- Lawsuits and 3rd party claims for affected neighbors or tenants.
- Financial Burden to tank owners required to clean up.

Creation of AST Insurance Fund

- Similar to Maine's UST Insurance Fund.
- Tank owner Responsible Party.
- Eligible expenses for clean up.
- Deductibles based on gallons of oil stored/owned and compliance with Oil & Solid Fuel Board oil supply installation codes.

Money spent by the State of Maine to Clean Up Contamination at AST Sites 1995 -- 2004

	Single Family Residential (#1 & #2 Oil)	All Facilities (all petrol.)
1995	\$526,679.00	\$694,275.00
1996	\$631,618.00	\$1,298,600.00
1997	\$574,529.00	\$1,253,424.00
1998	\$1,166,982.00	\$2,138,961.00
1999	\$911,494.00	\$1,895,395.00
2000	\$1,064,378.00	\$1,180,753.00
2001	\$2,177,299.00	\$10,633,984.00
2002	\$1,720,589.00	\$2,697,972.00
2003	\$1,925,526.00	\$2,758,729.00
2004	\$1,133,252.00	\$1,816,499.00
TOTAL	\$11,832,346.00	\$26,368,592.00

Source: Maine DEP Spill Site Tracking System (SSTS)

State of Maine AST Replacement Program

- Total of all reported Hazmat & Oil Spills in Maine 1995-2004: 28423 (2,800/yr)
- Total of discharges from single family AST's in Maine 1995-2004: 4290

Source: Maine DEP Hazardous Materials & Oil Spill System (HOSS)



AST Installation Standards

- In Maine The Oil & Solid Fuel Board regulates the installations standards of AST and licensing of heat oil technicians.
- Maine DEP does regulate the clean-up of discharges.

AST Installation Standards

- Maine DEP and Oil & Solid Fuel Board worked together to draft new standards. Some of the first improvements were made by addressing:
 - Solid base
 - Filter protection
 - Height restriction
 - Secondary containment for lines buried in concrete floors

Solid Base



Secondary containment for buried supply lines in concrete floors



Filter Protection & Height Restriction



State of Maine AST replacement program

- 1998: 2 year pilot program started.
- Funded through Groundwater Oil Clean-up Fund
- \$1,000,000.00 per year to AST Program
- Program made permanent in 2000

State of Maine AST Replacement Program

- \$750,000.00 per year to Community Action Programs (CAPs). These funds will be distributed state wide to homeowners meeting low income eligibility guidelines.
- \$250,000.00 to Maine DEP to replace tanks in particularly geologically sensitive areas, regardless of income.
- \$25,000.00 for Emergency Responders.



Tenant's Harbor



Stats on tanks replaced

- Since 1998 the Maine DEP has funded the replacement of above ground heating oil tanks at 5466 homes through the CAP agencies.
- Cost of program to date: \$5.8 million

Continuing Efforts

- Public Service Commercials
- Brochures distributed by Maine DEP and Maine Oil Dealers Association
- Reviewing and upgrading installation standards
- Information posted on WebSite

www.maine.gov/dep

or specifically for home heating oil tank info:

www.maine.gov/dep/rwm/homeowner/homeheatingoil

- Thanks to Peter Moulton, Ann Hemenway, George Seel, Kara Walker, Ginger McMullen and Computer Guy Josh at the Maine DEP who provided photos or assistance with the presentation.

For More Information....

Peter Moulton
Maine Department of Environmental Protection
State House Station 17
Augusta, Maine 04333-0017

207-287-2651

Or Check the Website: maine.gov/dep