

Recent Trends in Mercury Use in Products: Summary of the IMERC Database

N E W M O A



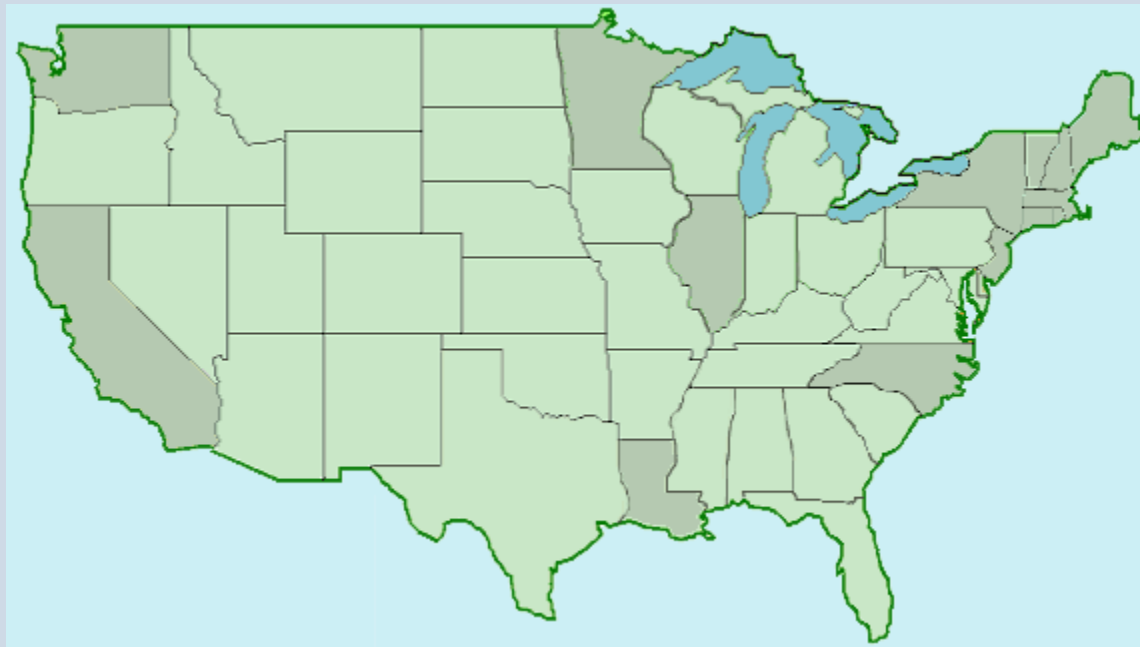
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Management Officials'
Association

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About IMERC

- 14 Current State Members: CA, CT, IL, LA, MA, ME, MN, NC, NH, NJ, NY, RI, VT, WA



About IMERC

- IMERC is a program of the Northeast Waste Management Officials' Association (NEWMOA), which provides logistical, facilitation, and technical support
- "...established to help [states] implement laws and programs aimed at getting mercury out of consumer products, the waste stream, and the environment."

IMERC Services

IMERC provides:

- Ongoing technical & programmatic assistance to states that have enacted mercury education and reduction legislation
 - Notification
 - Labeling
 - Phase-out
 - Enforcement
- A single point of contact for industry and the public for information on mercury-added products & member states' legislation

IMERC Product Notification Requirements

Required by 8 States and intended to inform consumers, recyclers, policy makers, and others about:

- Products that contain intentionally-added mercury
- The total amount of mercury in a specific product
- The total amount of mercury in the specific products sold in the U.S. in a given year

Frequency of Reporting

- Minimum reporting required every three years during triennial notification period
- 2001 – Initial triennial year (baseline)
- Triennial Notification Forms due for 2004, 2007, 2010, etc.
- Updated Notification Forms due when products change: increase or decrease in amount of mercury, elimination of mercury-added product, introduction of new product

Mercury-added Products Database

- Database – 450 companies & 4,200 products (2001 and 2004 data)
- Complex data set and complex database
- Constantly adding new companies and products

www.newmoa.org/prevention/mercury/imerc/Notification/index.cfm

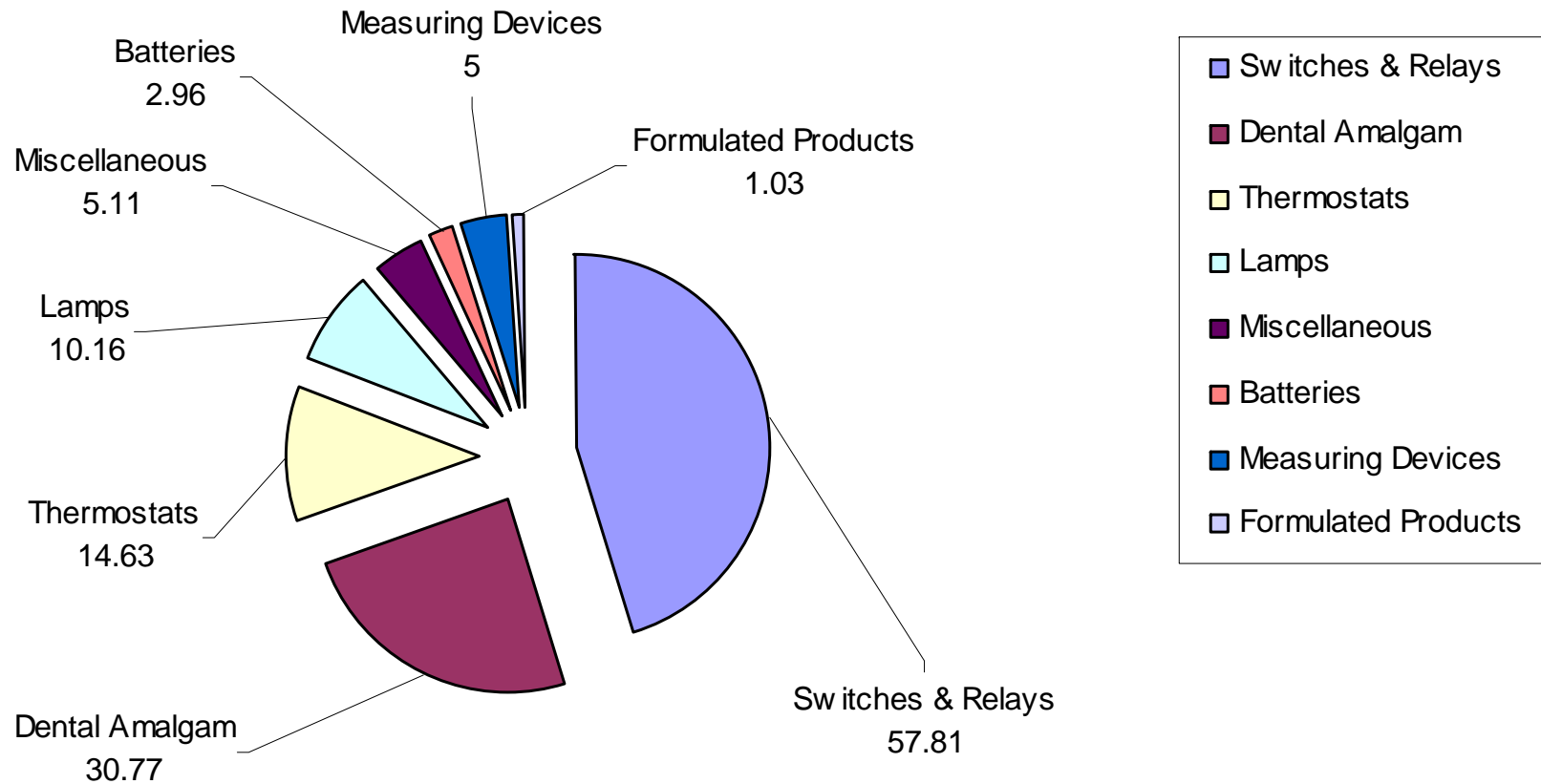
Mercury Use in Products Report

All OEM Products in Database placed into following categories:

- Switches & Relays
- Dental Amalgam
- Lamps
- Thermostats
- Batteries
- Measuring Devices (Thermometers, Barometers, Blood Pressure Cuffs)
- Formulated Products
- Miscellaneous

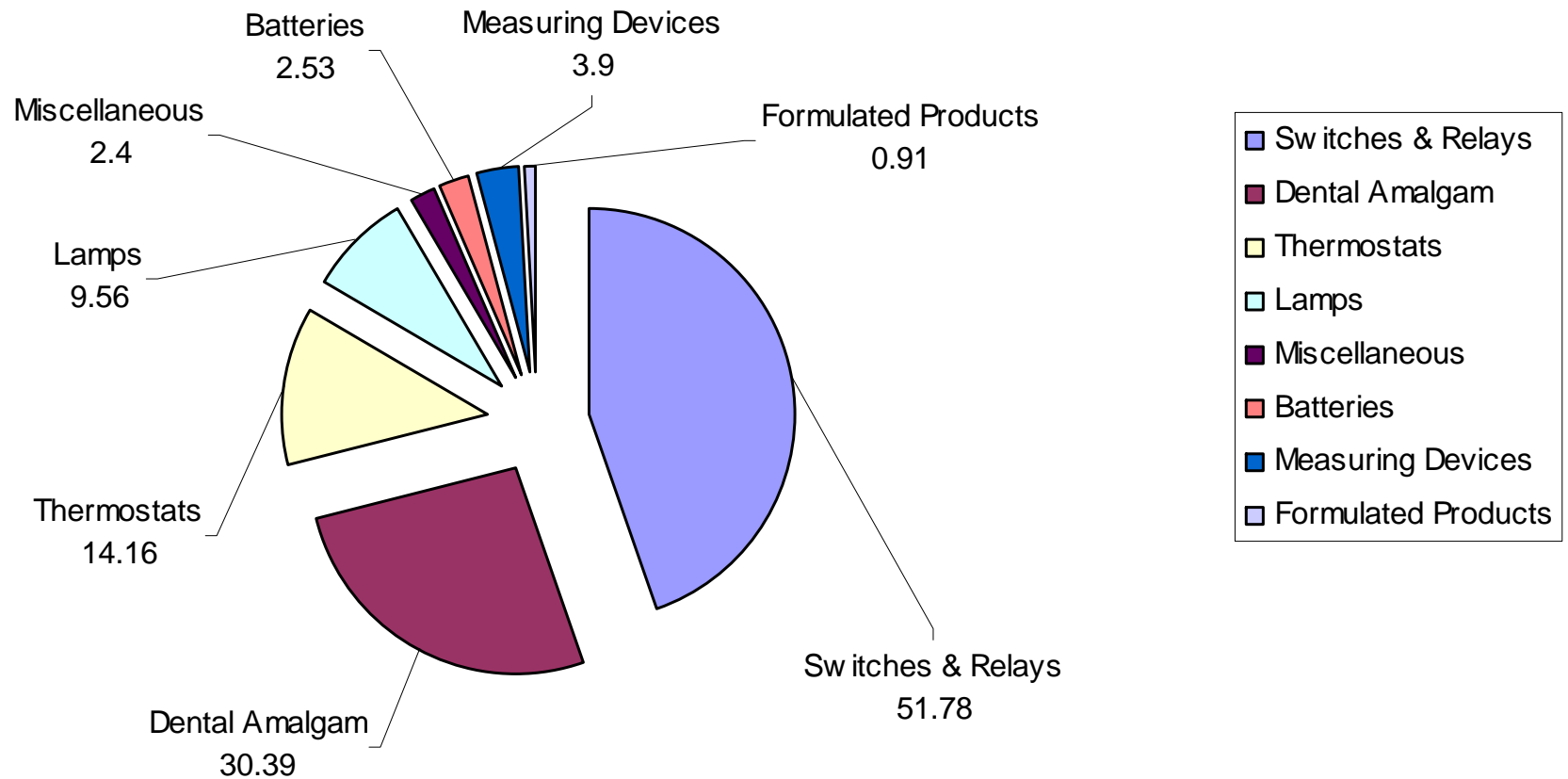
2001 Mercury Use in Products – 127.5 Tons

2001 Total Mercury in Products (tons)



2004 Mercury Use in Products – 115.7 Tons

2004 Total Mercury in Products (tons)



Total Mercury Sold in U.S. by Product Category

Total Amount of Mercury Sold in Fabricated And Formulated Products in the U.S. For Calendar Years 2001 and 2004			
Products/Components	Total Mercury Sold in U.S. (tons)		Change Between Years
	2001	2004	
Switches & Relays	57.81	51.78	(6.03)
Dental Amalgam	30.77	30.39	(0.38)
Thermostats	14.63	14.16	(0.47)
Lamps	10.16	9.56	(0.60)
Miscellaneous	5.11	2.40	(2.71)
Batteries	2.95	2.53	(0.42)
Chemicals and Solutions	1.03	0.91	(0.12)
Sphygmomanometers**	2.15	1.11	(1.04)
Thermometers**	1.70	1.40	(0.30)
Manometers**	0.97	1.27	0.30
Barometer**	0.18	0.12	(0.06)
Total Pounds of Mercury Sold	~ 127.5 tons	~ 115.7 tons	(11.84) tons

Mercury Reduction Success in the Northeast

- Published a report quantifying impacts of mercury reduction initiatives in the Northeast
- Focus on mercury collection & restrictions on the sale of targeted products
 - ~7.5 tons of mercury collected
 - ~14 tons eliminated

www.newmoa.org/prevention/mercury/NEWMOAMercurySuccessStory.pdf

Northeast Mercury Collection: 2000 – 2006

Mercury Collection and Recycling in the Northeast States: 2000 - 2006	
Collection Activity	Mercury Collected and Recycled (Pounds)
School Collection Programs	4,696 (456 schools)
Auto Switches	267.5 (over 120,000 switches)
Dental Office Collection	2,151
Thermostats	458
Hospitals	761
HHW Collection	6,092
Fever Thermometers	352 (over 200,000 thermometers)
Dairy Manometers	140
Total	14,900 pounds (~7.5 tons)

Northeast States' Product Phase-outs and Bans

- CT – Fabricated product >100 mg Hg; Formulated product >50 ppm
- RI – Fabricated product >100 mg Hg; Formulated product >50 ppm
- ME – Thermostats, measuring devices, switches and relays
- MA – Thermostats, measuring devices (2008); Switches and relays (2009)
- NH - Thermostats, measuring devices, switches and relays (2008)
- VT – Measuring devices, neon signs, switches and relays
- NY – Measuring devices; Switches and relays (2008)

National Mercury Reductions: 2001 – 2006

Cumulative Amount of Mercury Discontinued by Manufacturers, 2001-2006	
Year	Total Amount of Mercury Discontinued (tons)
2002	0.89
2003	1.63
2004	2.78
2005	3.06
2006	3.27
Total	~ 11.6 tons (23,245 lbs.)

Projected N.E. Mercury Reductions: 2004 – 2006

Projected Total Mercury Reduction (2004-2006) Resulting from Northeast State Restrictions on the Sale of Mercury-added Products	
Product	Total Amount of Mercury Discontinued (tons)
Switches & Relays	1.93
Thermostats	0.57
Sphygmomanometers	0.07
Thermometers	0.06
Other Measuring Devices	0.06
Total	~2.7 tons (5,390 lbs.)

More information

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www.newmoa.org/prevention/mercury/imerc.cfm