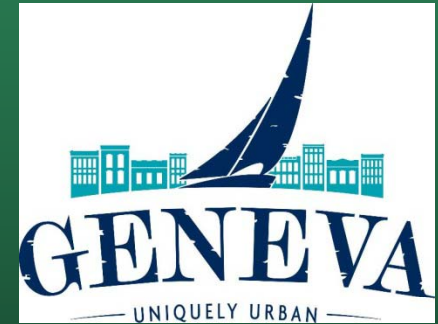


# *Beyond Waste:* A Sustainable Materials Management Strategy for New York State



## *Finger Lakes Landfill Summit*

*Geneva, NY*  
April 24th, 2013



Presented By  
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Bureau of Permitting & Planning  
Division of Materials Management

NYS Department of Environmental Conservation



# History of SWM Planning

- SWMP issued in 1987
- Set 50% reduction & recycling goal by 1997
- Recommended hierarchy for solid waste management
- Sought to phase-out incineration without energy recovery and landfilling



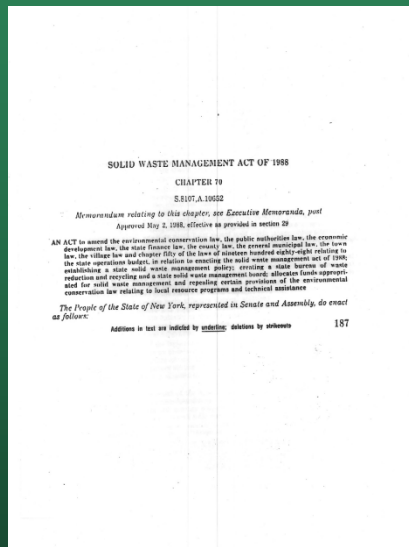
# 1987 Conditions

- 348 dumps (only 47 permitted)
- 6 MWCs with energy recovery
- 4 MSW incinerators w/o energy recovery
- Over 4300 apartment building incinerators
- 3% total recycling rate
- Mobro 4000 Barge sets sail in March 1987



# Solid Waste Management Act

- Solid Waste Management Act of 1988
- Established Hierarchy for Solid Waste Management
- Required Local Source Separation Laws by 9/1/92
- Structure for Regional Solid Waste Management Planning Units



# Why a New Plan?

- Review 20+ years of experience
- Set new goals
- Address emerging issues and materials
- Finite resources and new opportunities
- Recommend a course of action



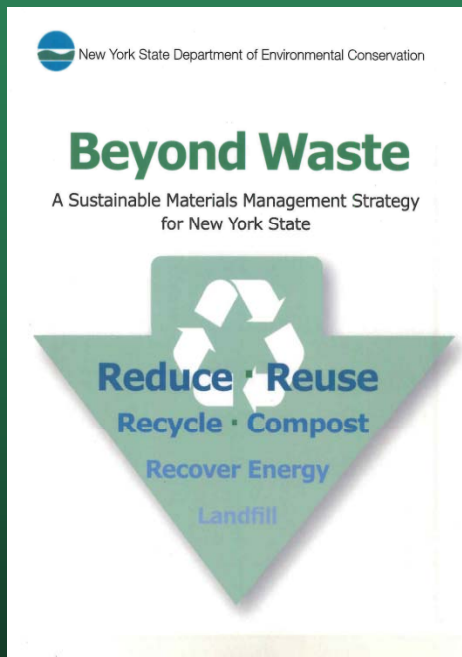
# The Planning Process

- Stakeholder Meetings (9)
- Advisory Group
  - 15 Members representing various stakeholder groups and regions of the state
- Released Draft (for public comment) – May 2010
- Hearings and Meetings – Summer 2010
- Final Plan Adopted – December 27, 2010



# Beyond Waste: Key Findings

- 20 years after SWMA, still wasting 65-80% of materials
- Waste contributes to climate change
- Wide variation in program performance statewide
- Organics are 30 percent of MSW; recycling organics critical to progress



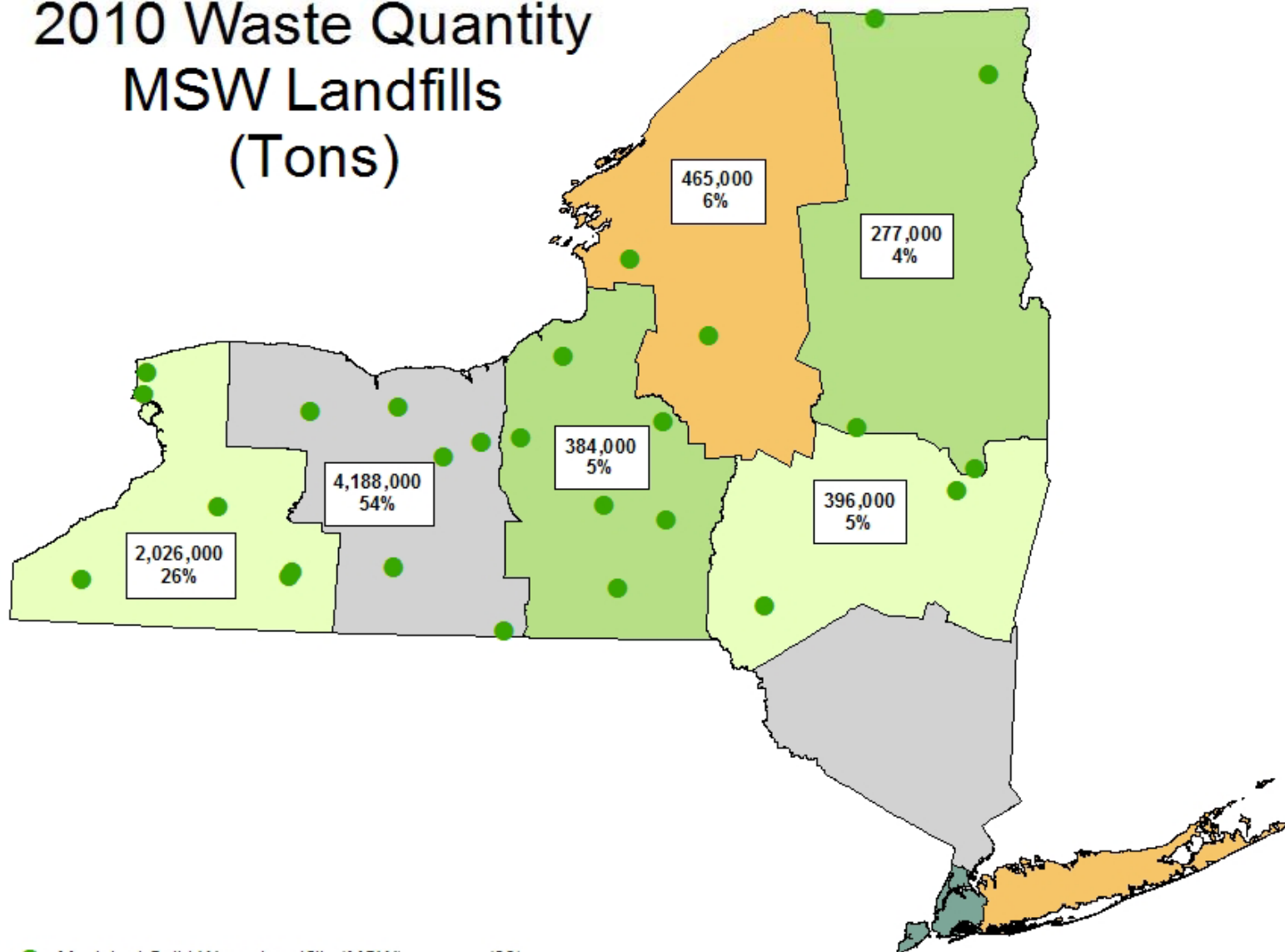
# 2008 Conditions

- 27 permitted municipal solid waste landfills with double composite liners
- 10 MWCs with energy recovery
- 36% total recycling rate (20% MSW only)
  - 33% MSW Landfilled in NYS
  - 14% MSW Combusted in NYS
  - 33% MSW Exported for Disposal

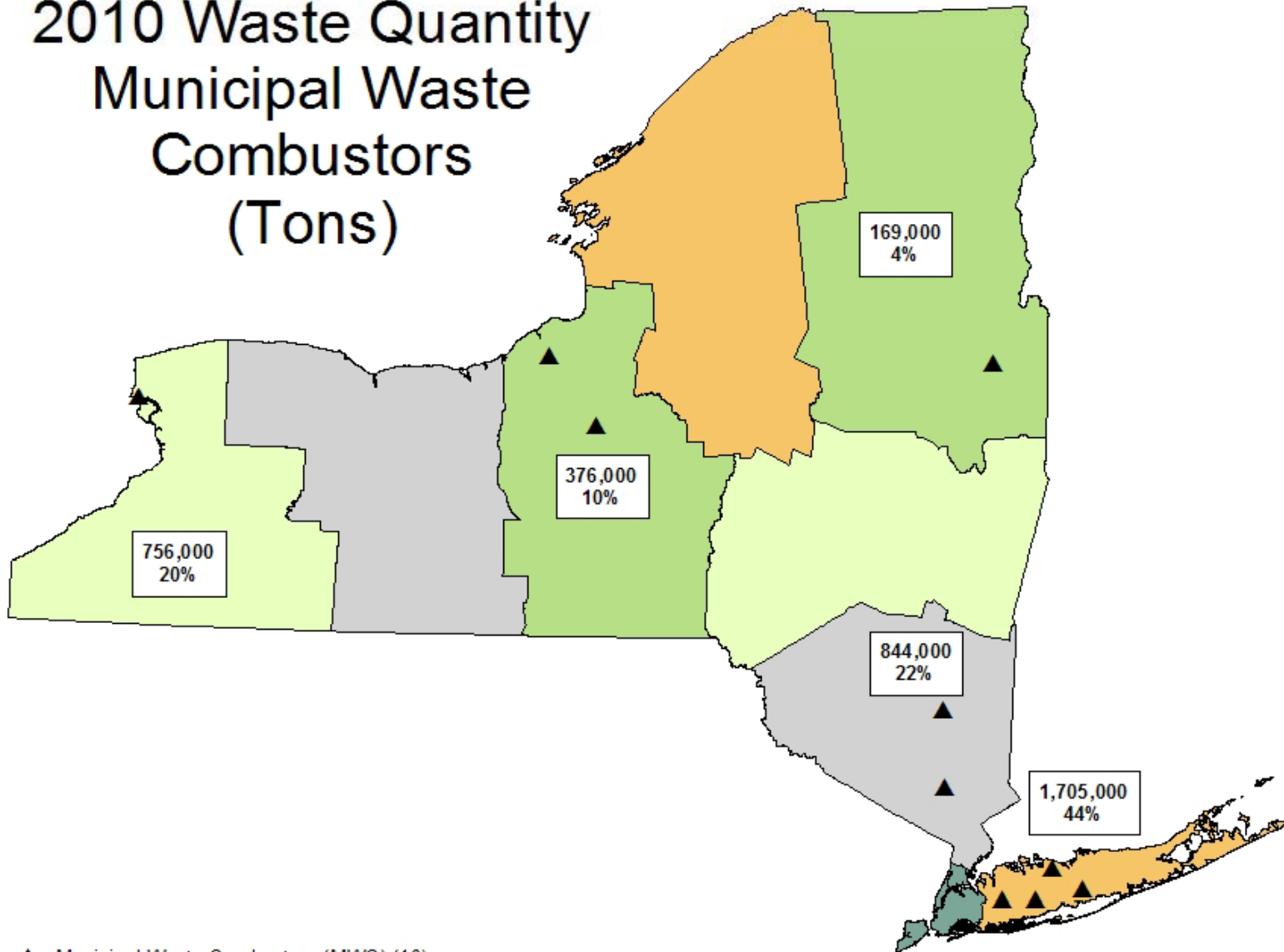




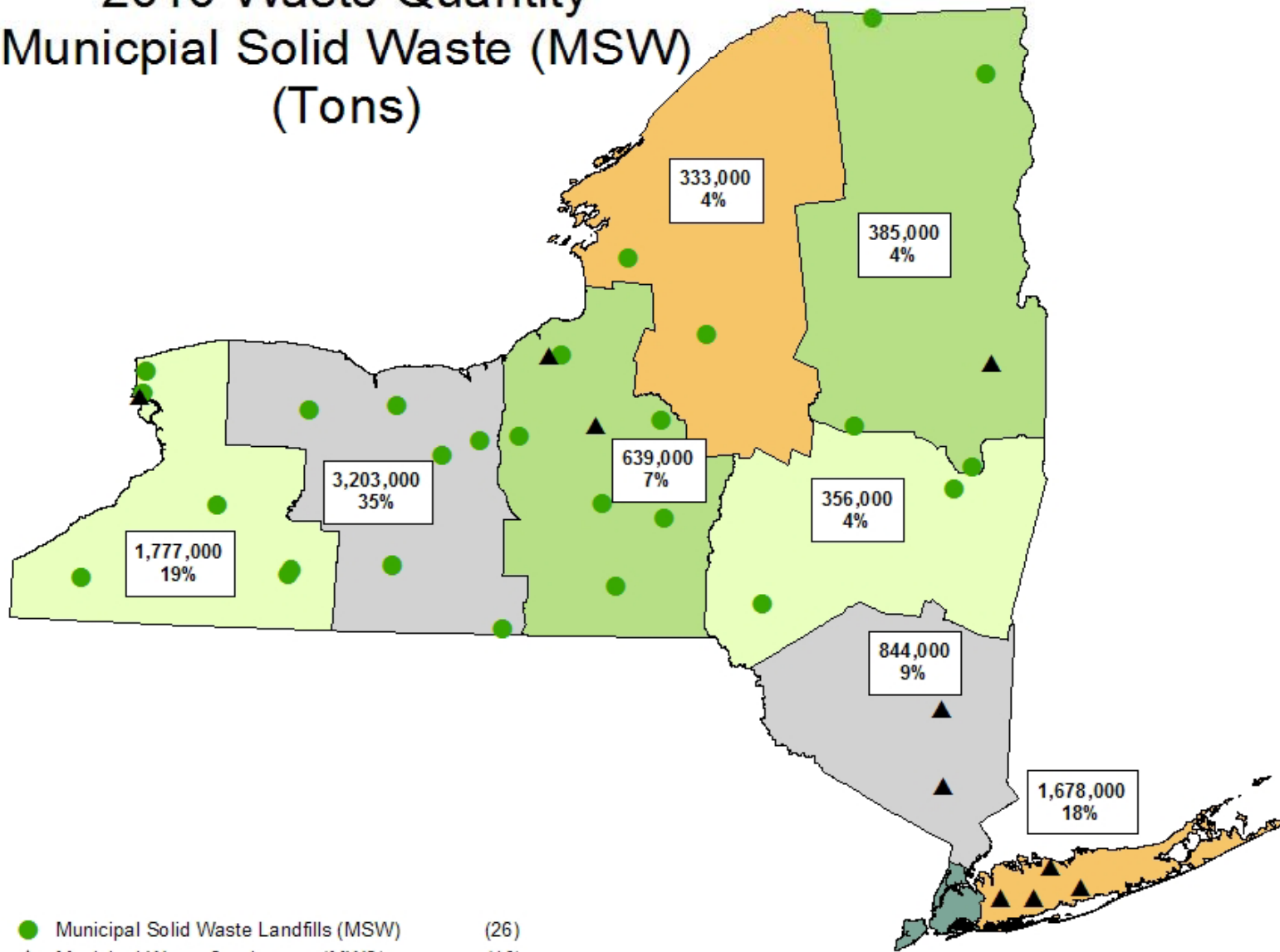
# 2010 Waste Quantity MSW Landfills (Tons)



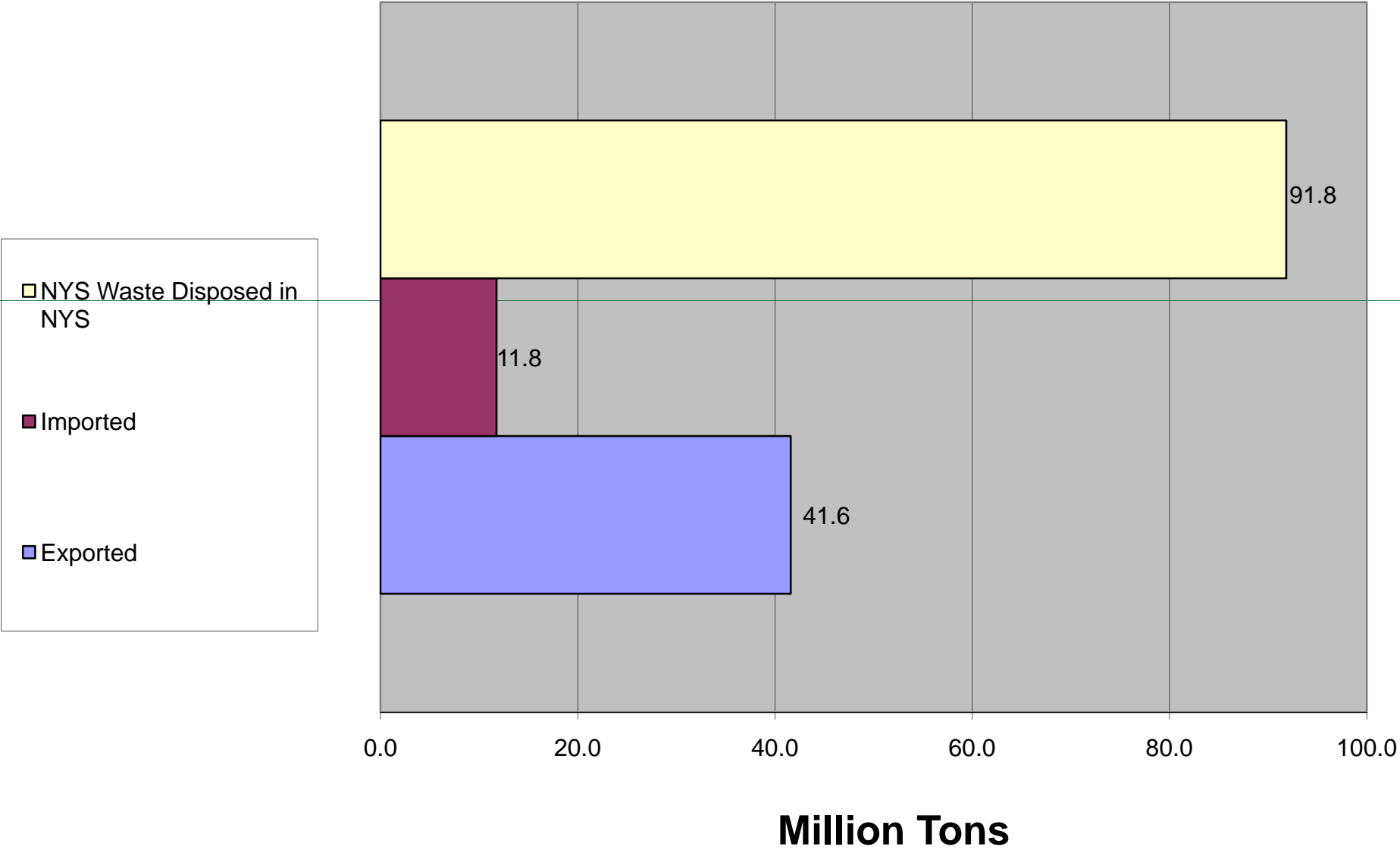
# 2010 Waste Quantity Municipal Waste Combustors (Tons)



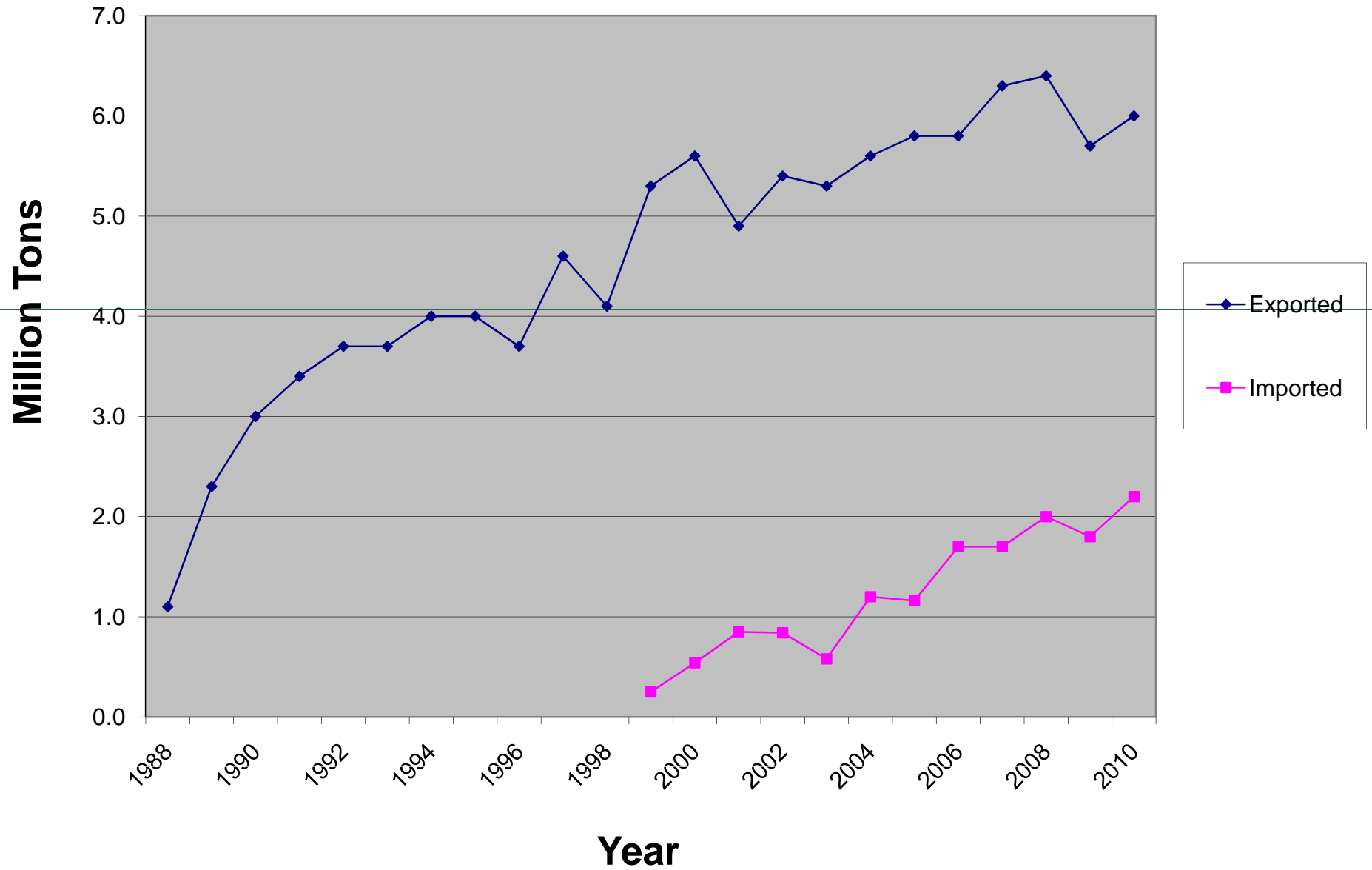
# 2010 Waste Quantity Municipal Solid Waste (MSW) (Tons)



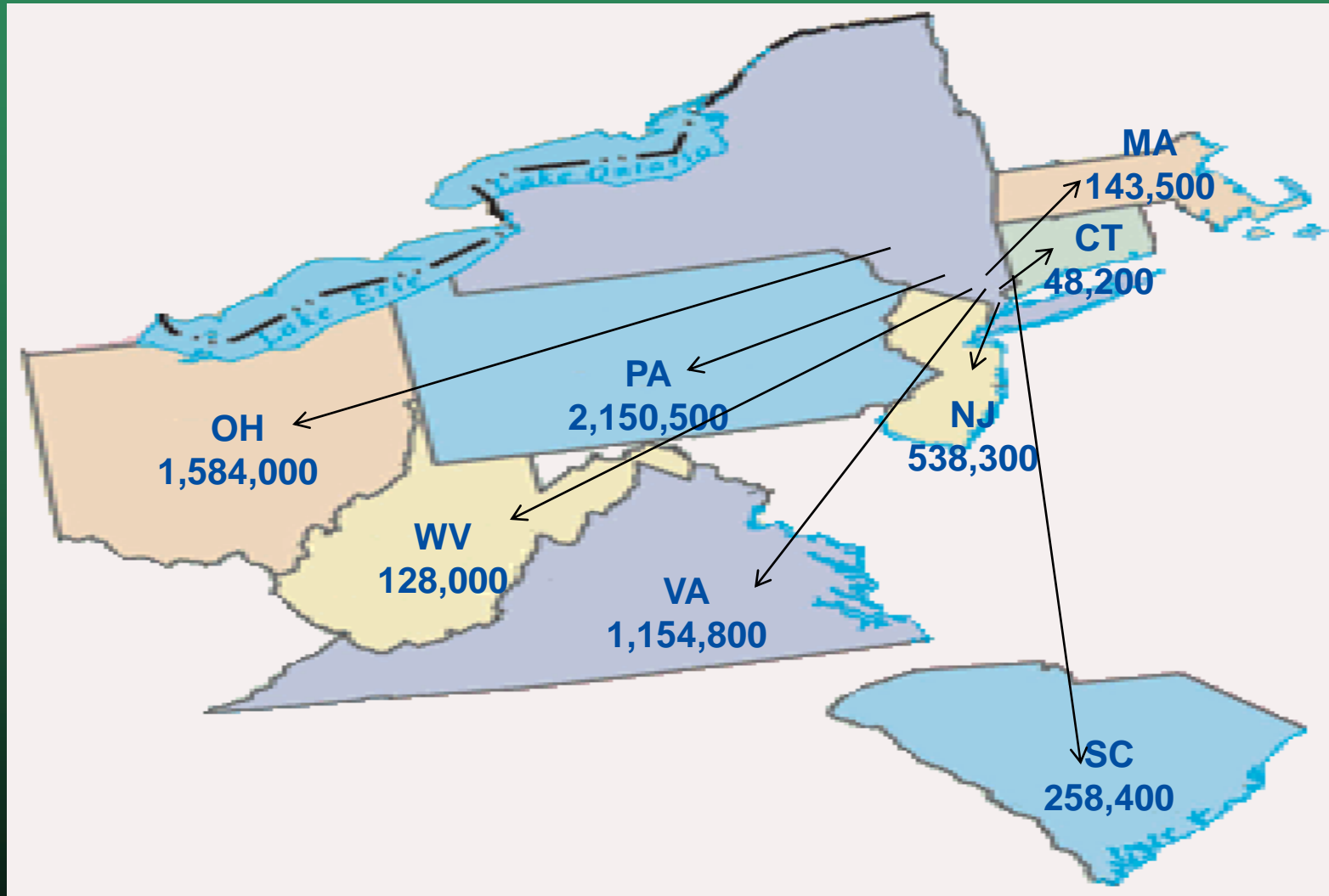
# Solid Waste Generated & Disposed in NYS, Exported & Imported 2004-2010



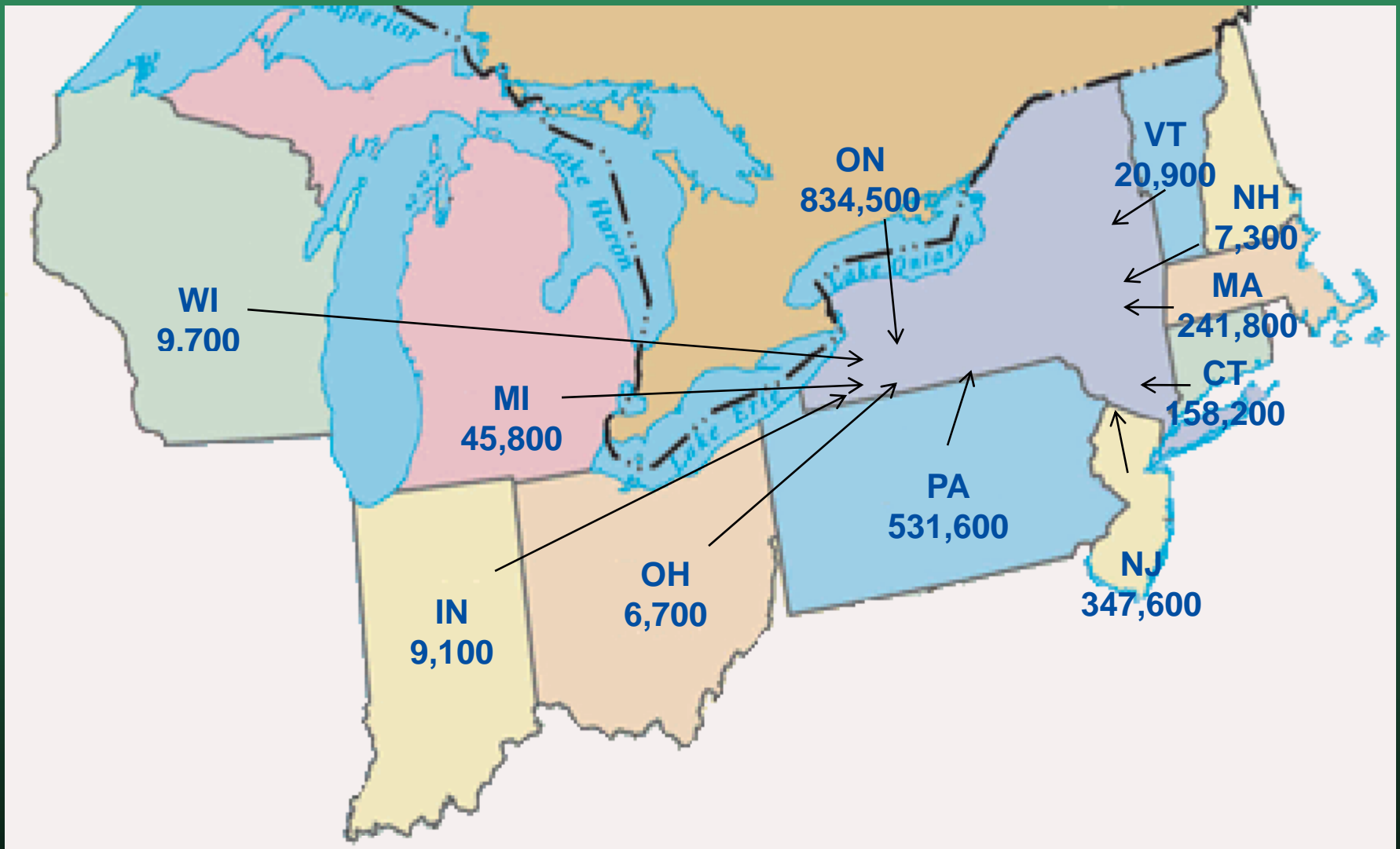
# Solid Waste Exports & Imports



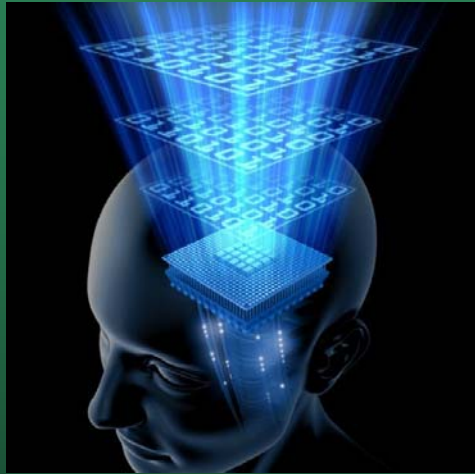
# 2010 Top Waste From New York State (Tons)



# 2010 Top Waste Imports Into New York State (Tons)



# Why a new approach for NY?



- Environmental impact of wasting
  - Upstream/Life Cycle Impacts
  - GHG & Energy Use
  - Land & Resources
- Jobs and economic opportunity in reuse and recovery of materials
- Recycling reached a plateau





# ***Beyond Waste: Vision***

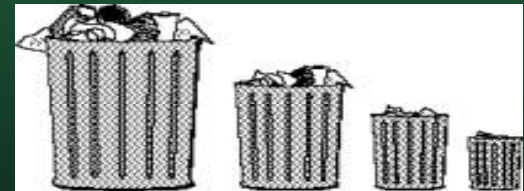
A materials management system that:

- Captures economic value of materials
- Minimizes greenhouse gas emissions
- Maximizes materials and energy efficiency
- Impacts the design of products and packaging
- Achieves ever-increasing levels of recovery



# *Beyond Waste:* Reduction Goals

- A progressive reduction in the amount of waste managed in combustors and disposed in landfills on a per capita basis
- Reduce from 4.1 lbs/person/day disposed to:
  - 3.4 lbs/person/day in 2014
  - 1.7 lbs/person/day in 2020
  - 0.6 lbs/person/day in 2030



# *Beyond Waste:* Major Areas of Focus

- Improve waste prevention, reuse, recycling
- Increase organics recycling – especially food waste
- Implement product and packaging stewardship



# *Beyond Waste:* Agenda For Action



- Legislative Initiatives
- Programmatic Initiatives
- Regulatory Initiatives



# *Beyond Waste:* Recommended Legislative Initiatives

- Update Solid Waste Management Act
- Product Stewardship
- Revenue Generating Programs
- Returnable Container Law
- Mercury Containing Products

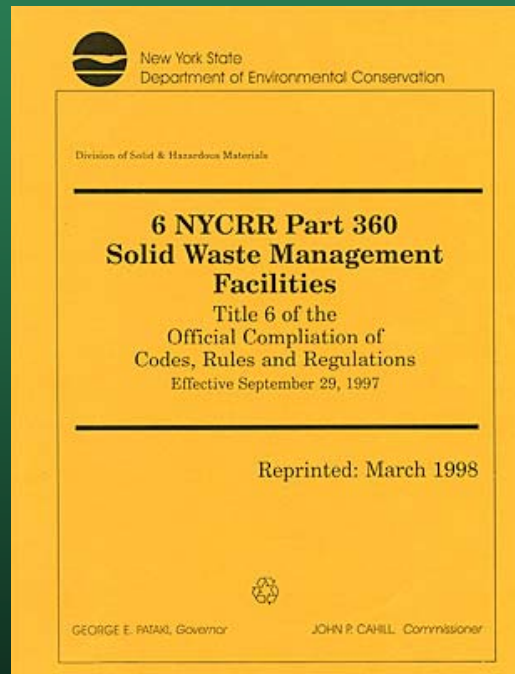


# *Beyond Waste:* Implement Product Stewardship

- Enact PS for:
  - Household Hazardous Waste
  - Pharmaceuticals
  - Paint
  - Carpets
  - Automobiles
  - Mercury Containing Products
  - Appliances
  - Packaging



# *Beyond Waste:* Regulatory Initiatives

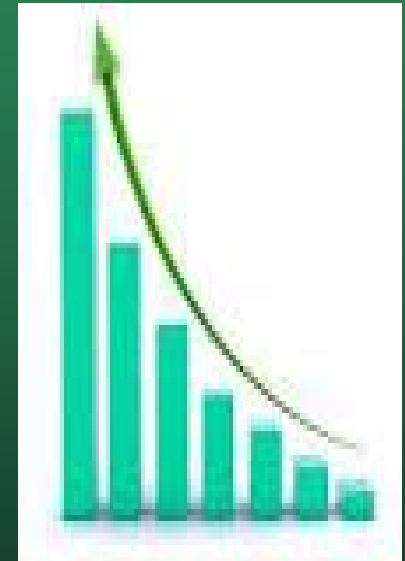


- Update Part 360 Solid Waste Management Facility Regulations



# *Beyond Waste:* Programmatic Initiatives

- State Agencies Lead By Example
- Comprehensive Local Materials Management Planning
- Outreach & Technical Assistance
- Educate the Public
- Combat Climate Change
- Develop Reuse & Recycling Infrastructure and End Use Markets





# Prime Focus Area: LSWMPs

- Planning units will be asked to:
  - Evaluate and propose methods to reduce waste, increase reuse, recycling and composting
  - Work as aggressively as possible to reduce waste destined for disposal



# Key Elements of LSWMPs

- Maximization of Reduction & Recovery in All Generating Sectors
- Organics Recovery Strategies
- PAYT/SMART Alternatives
- Education & Enforcement Opportunities
- Data Collection



# Status of LSWMPs

- Currently 68 Planning Units
- 50 LSWMPs currently expired

34 submitted for review

3 Approvable

31 In Various Review Phases



# LSWMPs : Commonly Expressed Areas of Concern

- Lack of Data/Information
- Fiscal Constraints
- Staffing Limitations
- Lack of Expertise
- Lack of Political Support



# Information & Contacts



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