



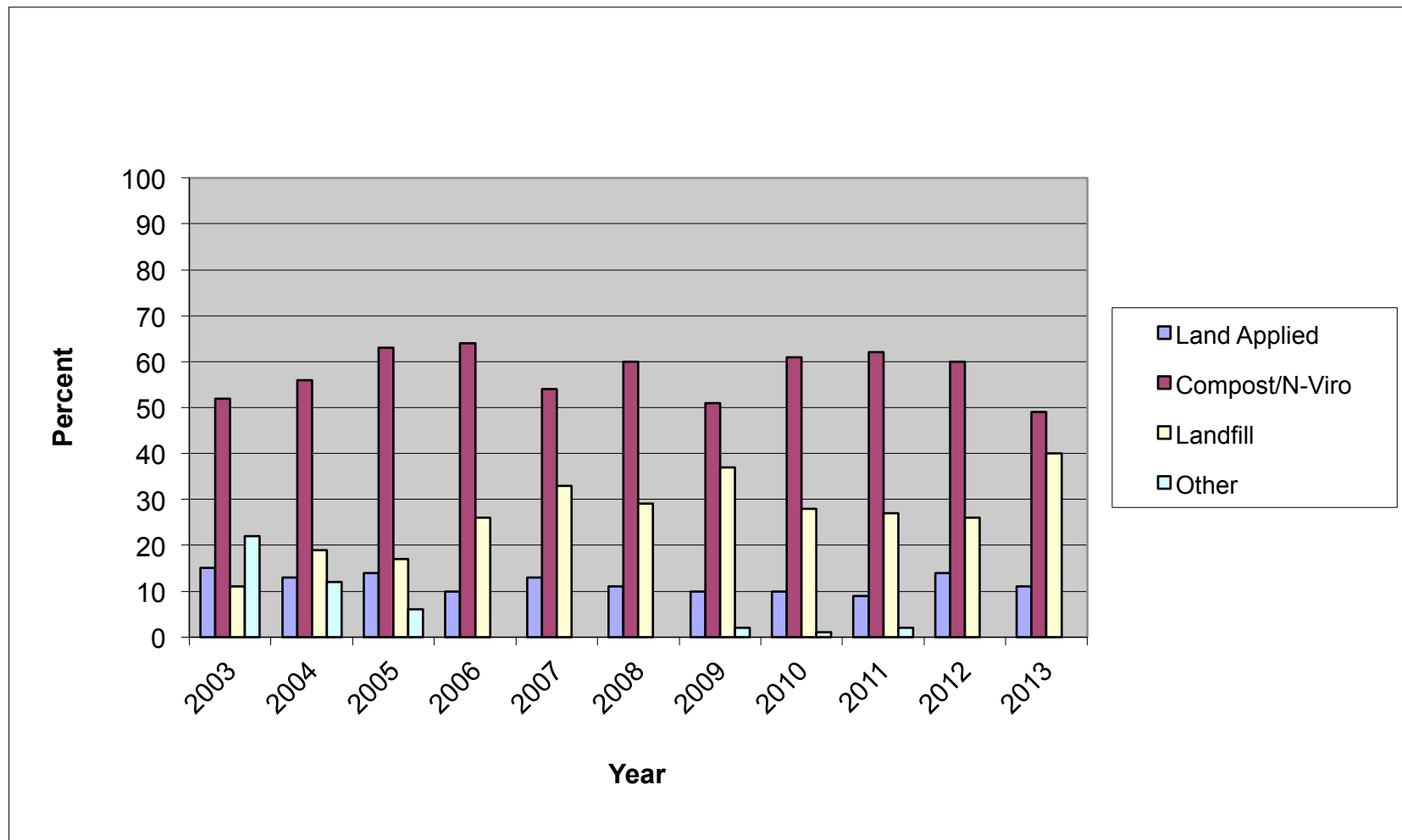
# North East Residuals & Biosolids Conference 2014

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MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION

*Protecting Maine's Air, Land and Water*

# Sludge Trends 2003-2013



# Rulemaking Update

- Completed:
  - Chapter 409, *Processing Facilities* – 2014 (Odor)
  - Chapter 410, *Composting Facilities* – 2014 (Odor)
- Under Development:
  - Chapter 418, *Beneficial Use of Solid Wastes*; Chapter 419, *Agronomic Utilization of Residuals* (418 Appendix A/RAGs)
  - Chapter 400, *General Provisions* (Hierarchy, Definitions)
  - Chapter 410 (Formatting)



# Chapters 409 & 410 – 2014

- Resolves 2013, Chapter 43: *Resolve, Directing the Department of Environmental Protection to Develop Quantitative Odor Management Standards*
- Resolve specific to facilities that “process wastewater treatment plant sludge from publicly owned treatment works and facilities that process septage”
- Included facilities that compost those materials



# Chapters 409 & 410 – 2014 (cont)

- Method to quantify nuisance odors:
  - Approach includes FIDO method – Frequency, Intensity, Duration and Offensiveness of odors
  - Intensity measured using modified n-butanol scale
  - Scale – 1 through 5 intensity measurement using n-butanol field kits (150 ppm, 300 ppm, 600 ppm, 1,200 ppm, 2,400 ppm)



# Chapters 409 & 410 – 2014 (cont)

- Intensity of 4 at or beyond facility boundary for any duration is nuisance
- Intensity of 3 for 60 minutes, at least 3 days in 30-day period; at least 3 odor assessments in the 60-minute period
- Intensity of 2 for 90 minutes, at least 4 days in 30-day period; at least 4 odor assessments in the 90-minute period
- Existing facilities must comply by March 1, 2015
- Rule effective July 27, 2014



# Chapters 418 & 419

- Chapter 418 (*Beneficial Use of Solid Wastes*), Appendix A values to be updated
- Chapter 419 relies on Chapter 418, Appendix A for substances **other than metals**
- Chapter 418, Appendix A developed during rulemaking in the mid-1990s
- Risk data outdated
- Use *Maine Remedial Action Guidelines for Sites Contaminated with Hazardous Substances* (May 8, 2013) or Maine RAGs
- Chapter 418 – public hearing on November 6, 2014
- Chapter 419 – public comment **only** until November 17, 2014



# Chapter 400

- Incorporate waste hierarchy into general licensing criteria as required by legislation
  - Reduction of waste generated, including amount and toxicity
  - Reuse
  - Recycling
  - Composting
  - Processing that reduces volume, including incineration
  - Land disposal
- Definitions
- Public hearing on November 6, 2014





# Chapter 410

- Minor formatting changes
- Public comment until November 17, 2014

<http://www.maine.gov/dep/rules/index.html>





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