



# **NPDES Phase II Small MS4 Permit Program – New Hampshire**

## **Annual reports summary Permit Year 8 (April 2010 – March 2011)**

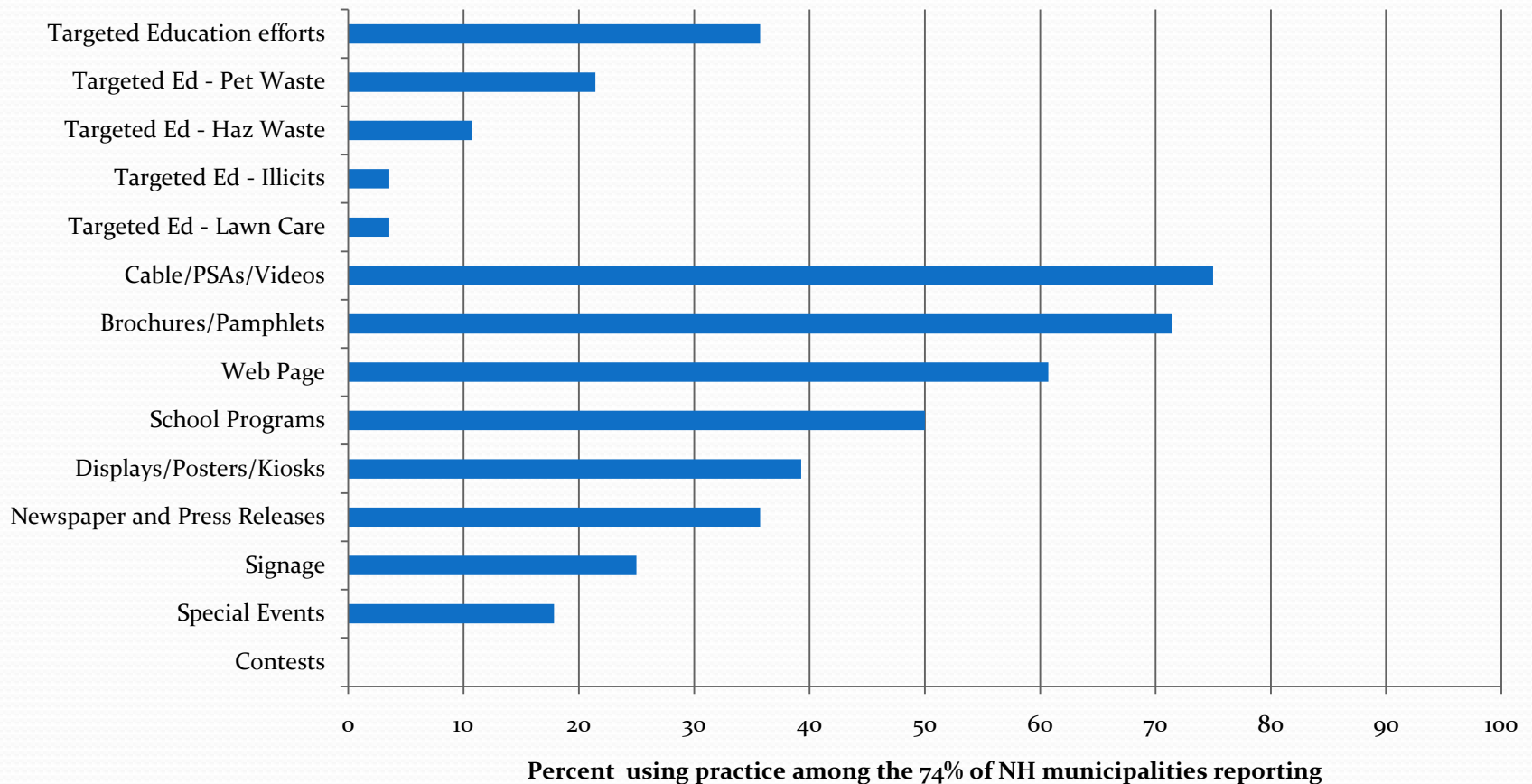
August 4, 2011

*74% of municipalities reporting*

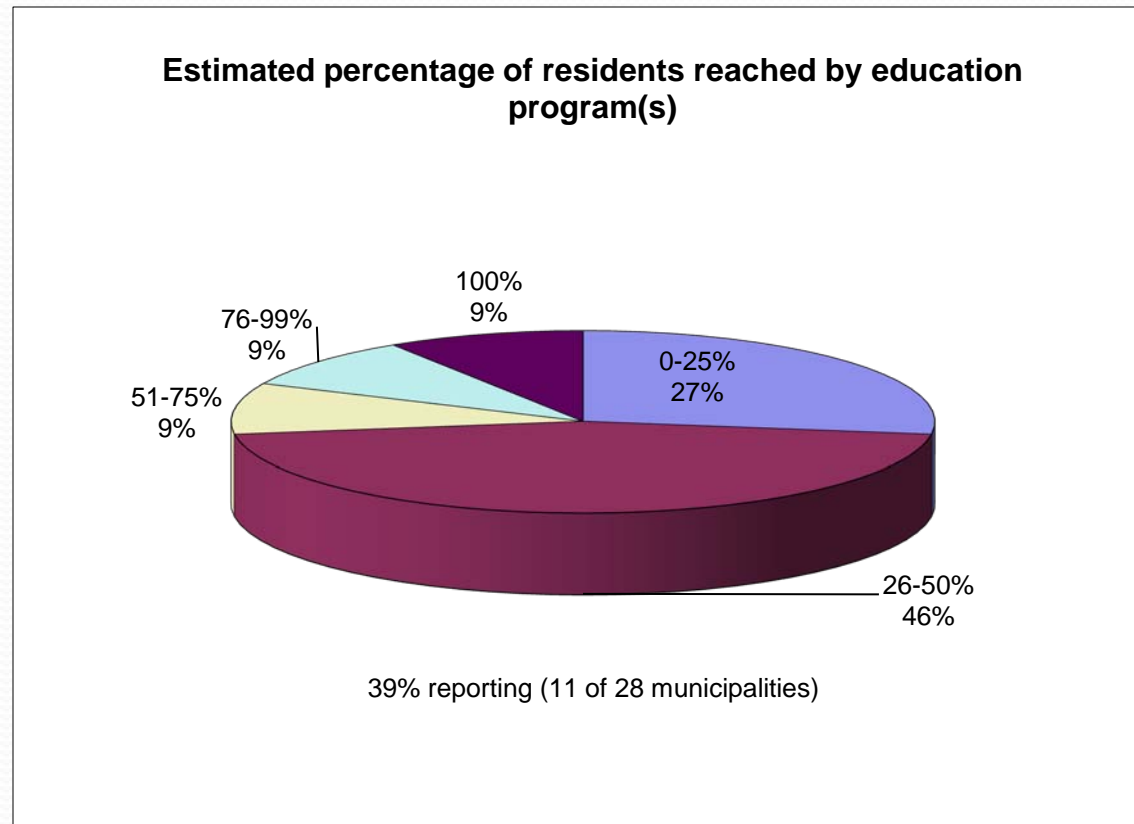
# Year 8 Annual Reports Summary

- Review of reports provides:
  - Best Management Practices (BMPs) reportedly employed by New Hampshire municipalities through Permit Year 8 to implement the six Minimum Control Measures (MCMs) required by the Small Municipal Separate Storm Sewer System (MS4) Permit
  - Progress toward implementing select BMPs as determined by voluntarily reported metrics
- Data provided in reports facilitate benchmarking, technical assistance, program evaluation and compliance
- Of 38 permitted municipalities
  - **28** municipalities (74%) submitted annual reports
  - **19** municipalities (50%) voluntarily provided performance metrics

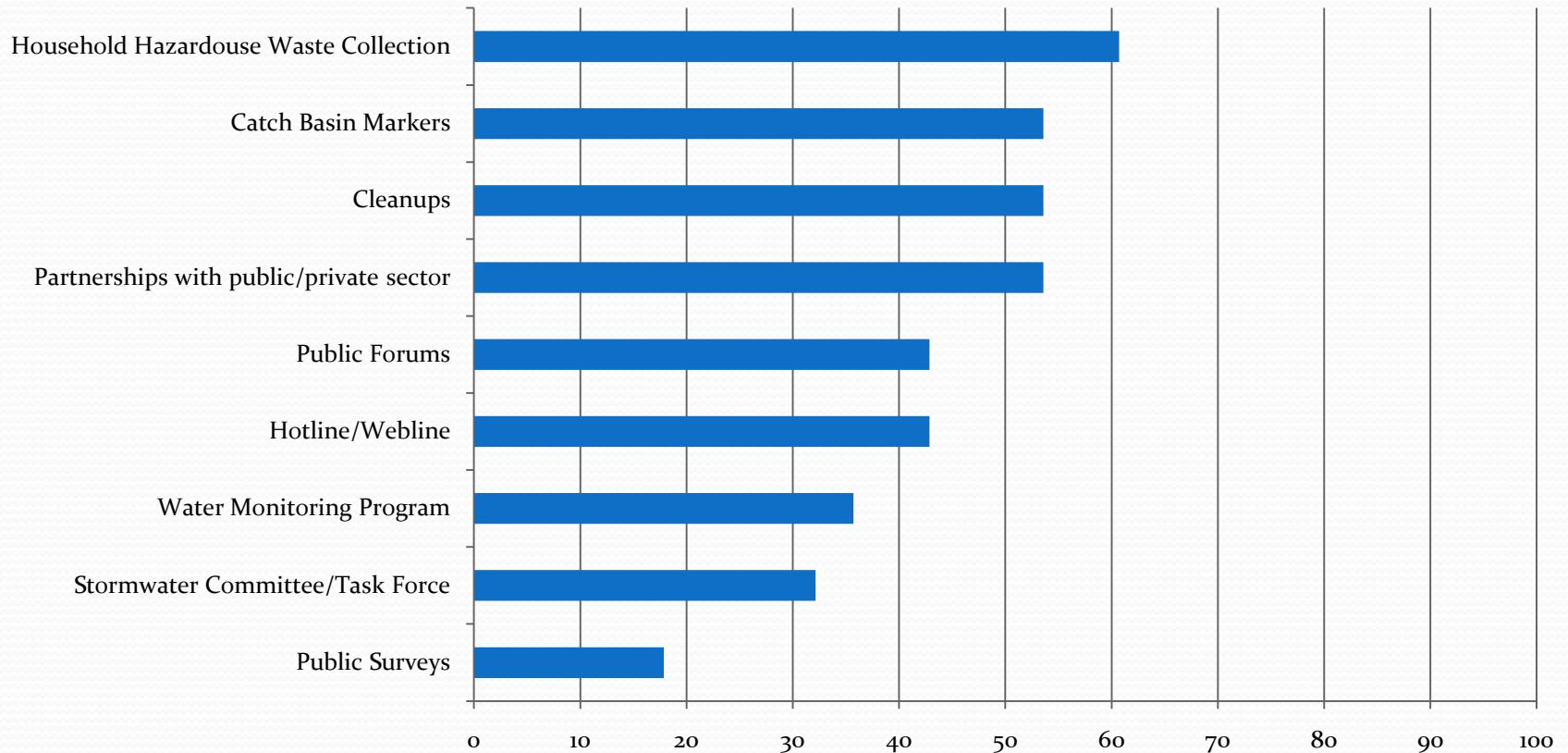
# Public Education and Outreach BMPs (MCM 1)



# Public Education and Outreach Metric (MCM1)

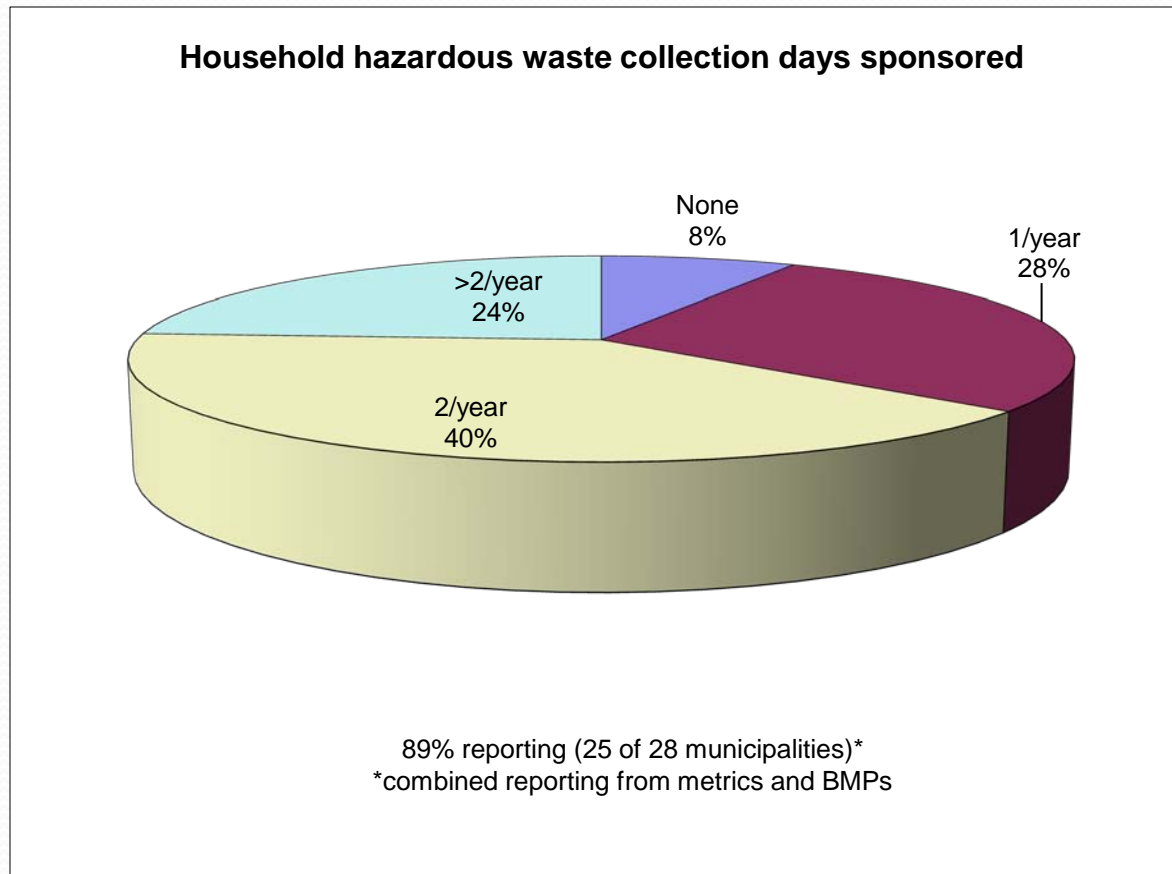


# Public Involvement and Participation BMPs (MCM 2)

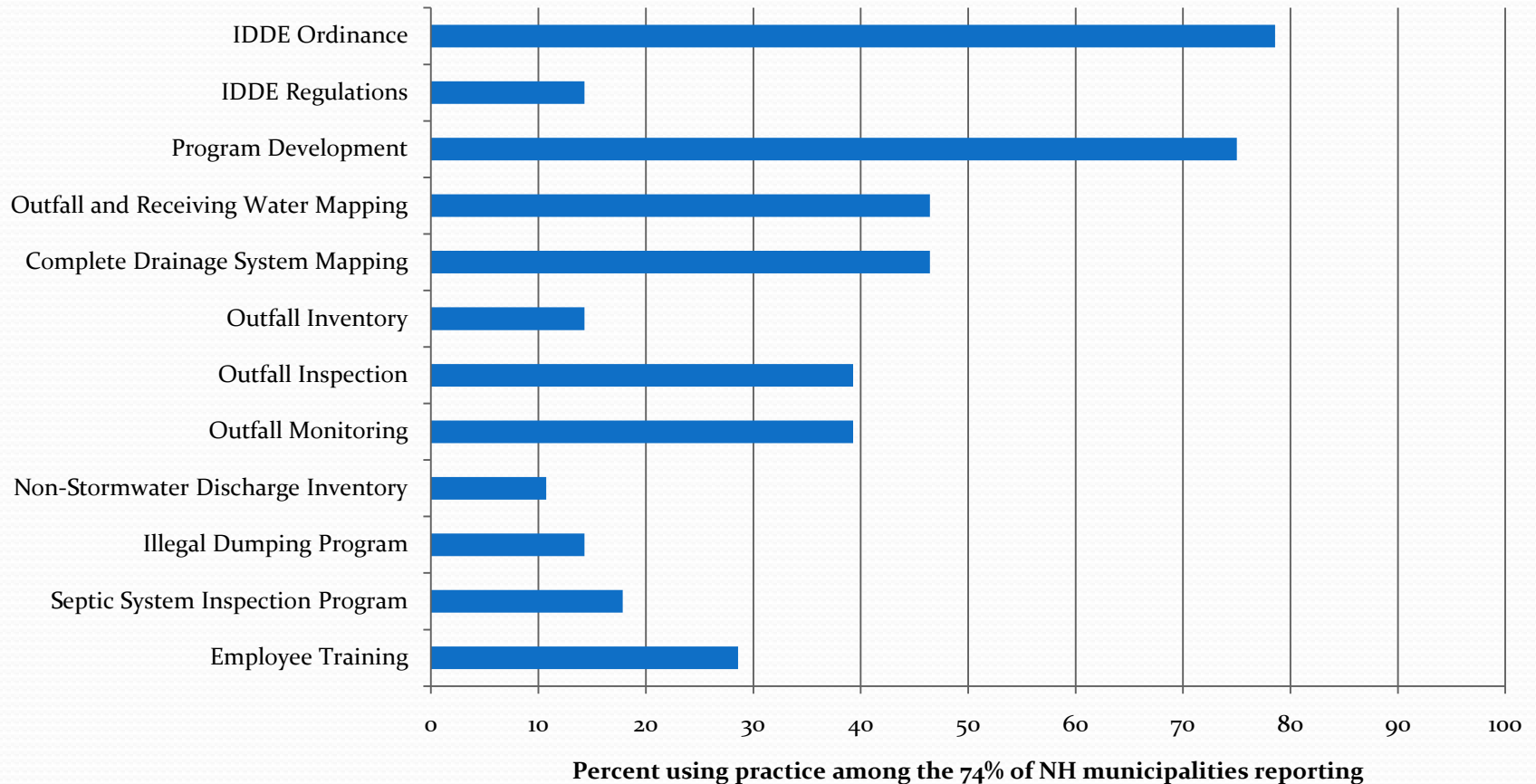


Percent using practice among the 74% of NH municipalities reporting

# Public Involvement and Participation Metric (MCM 2)

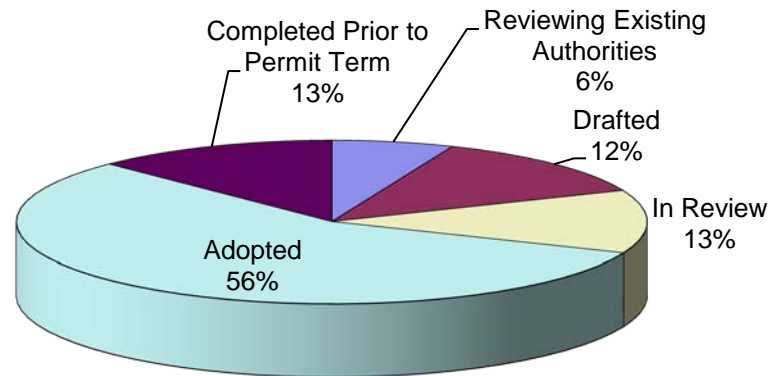


# Illicit Discharge Detection and Elimination (IDDE) BMPs (MCM 3)



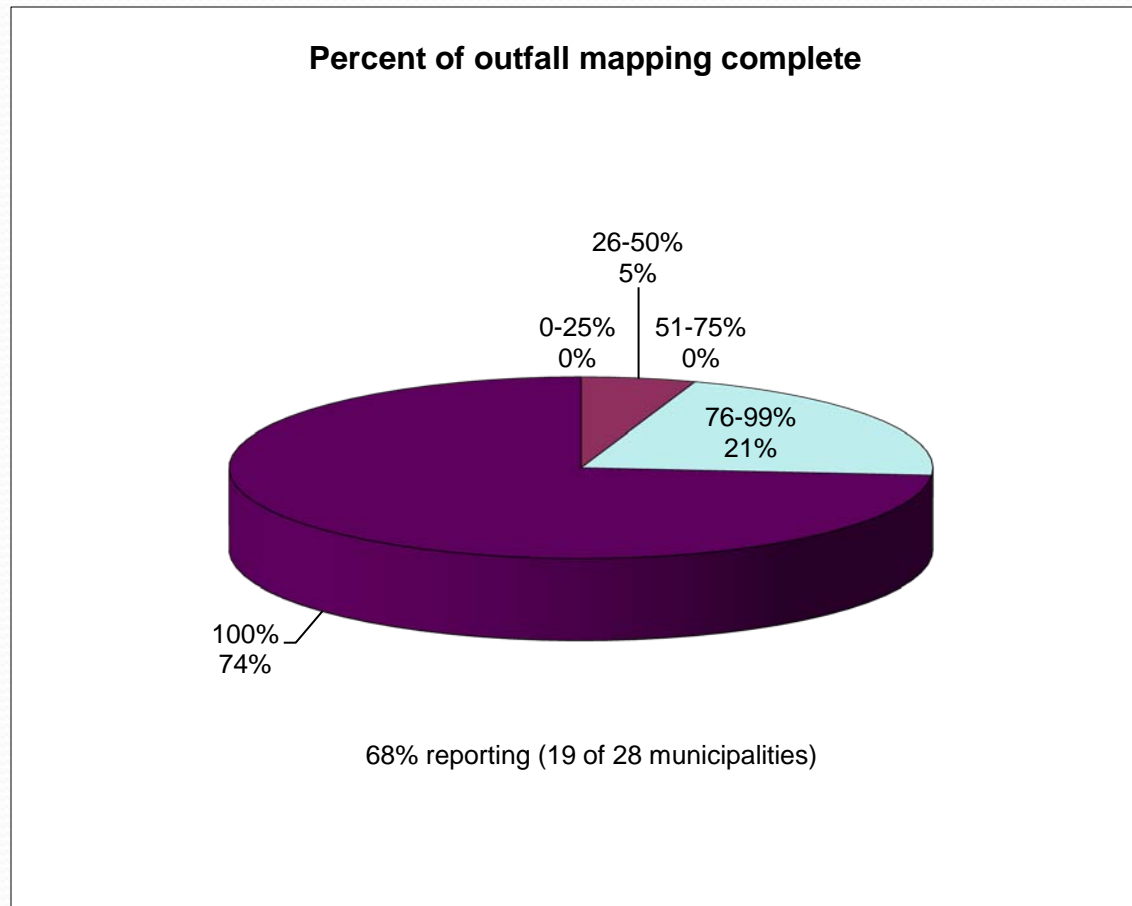
# Illicit Discharge Detection and Elimination Metric (MCM 3)

**IDDE Regulatory Mechanism Status**

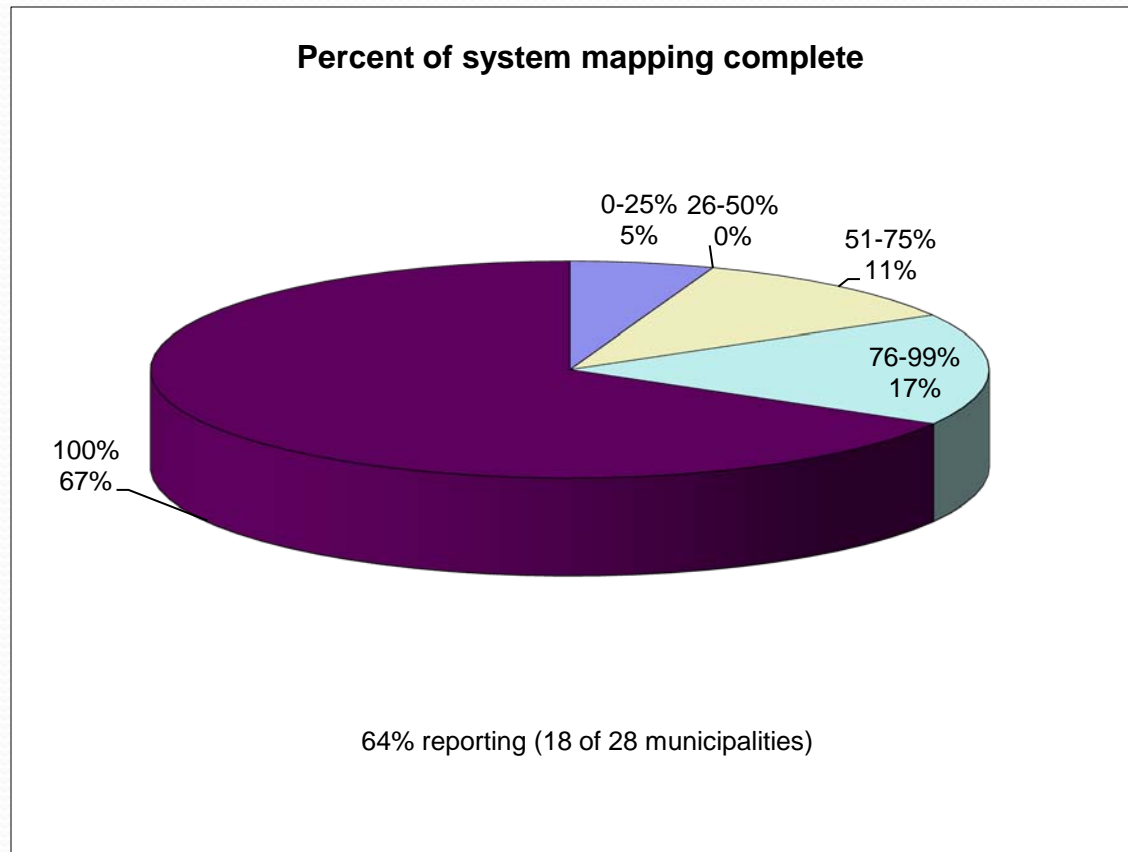


57% reporting (16 of 28 municipalities)

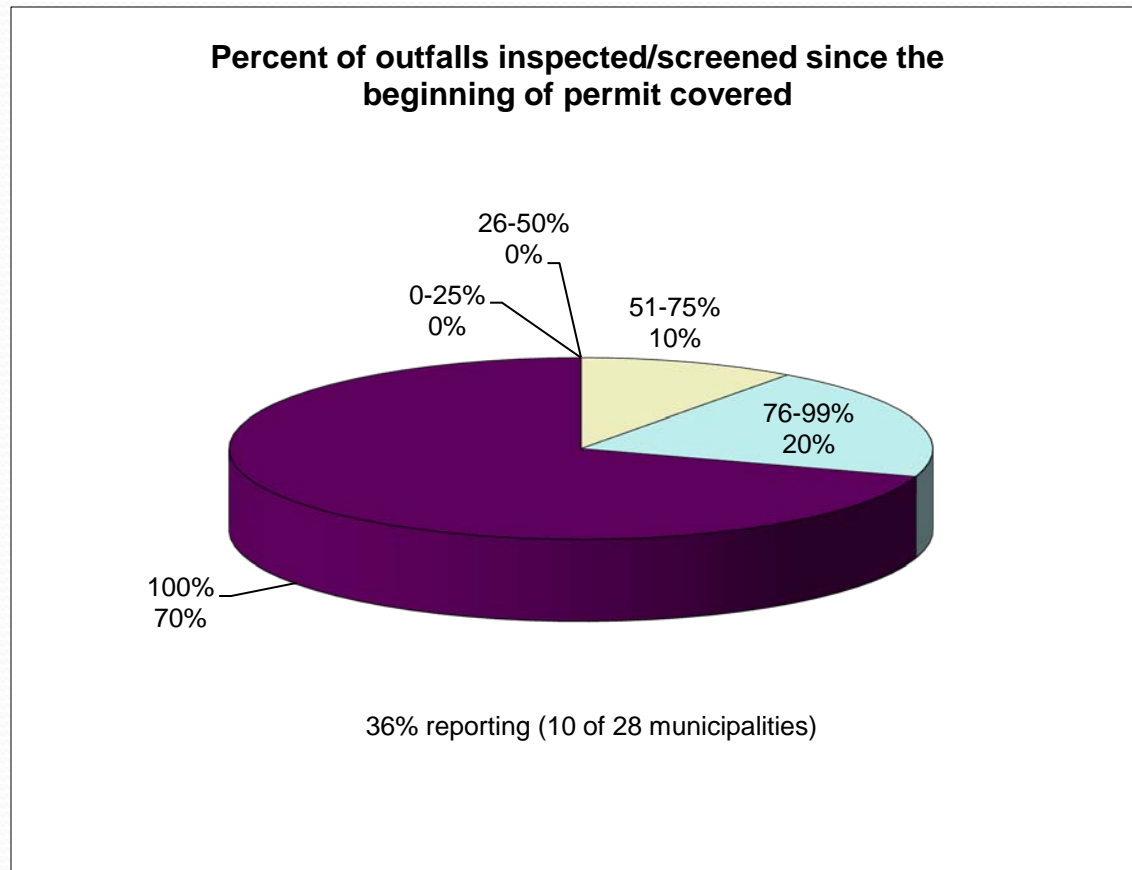
# Illicit Discharge Detection and Elimination Metric (MCM 3)



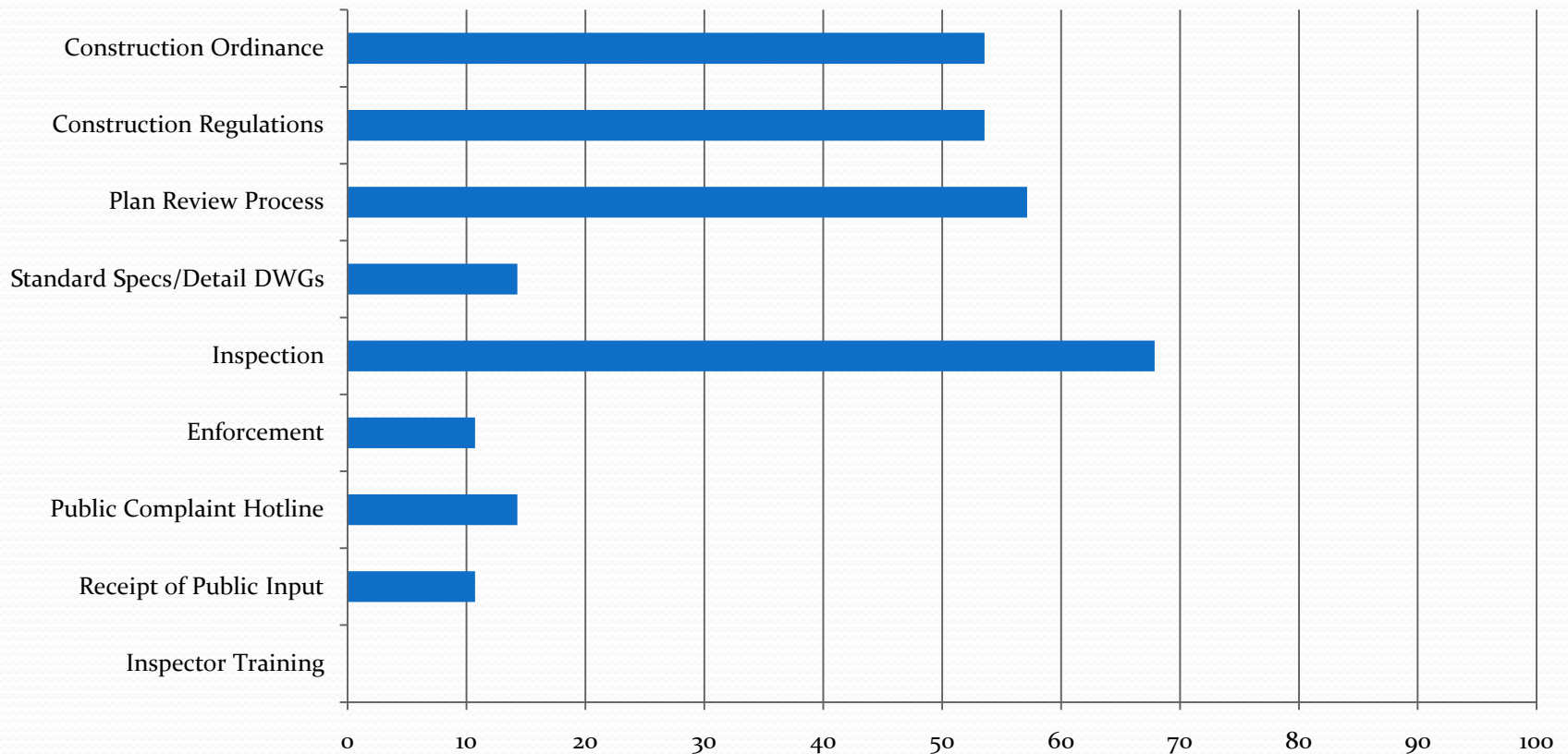
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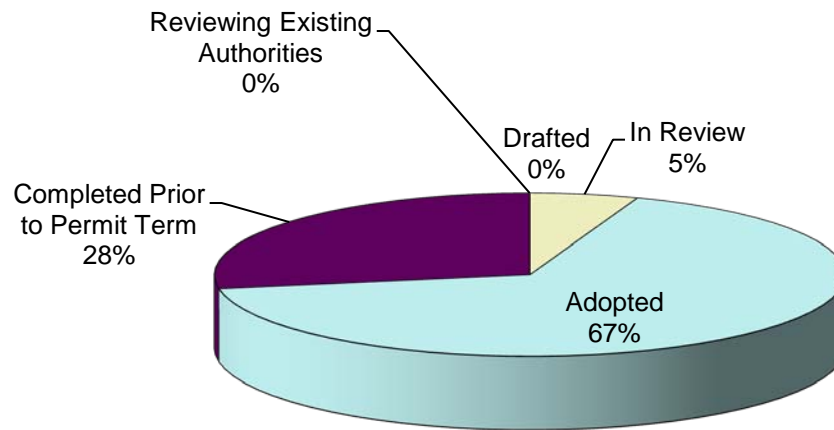
# Construction Site Stormwater Runoff Control BMPs (MCM 4)



Percent using practice among the 74% of NH municipalities reporting

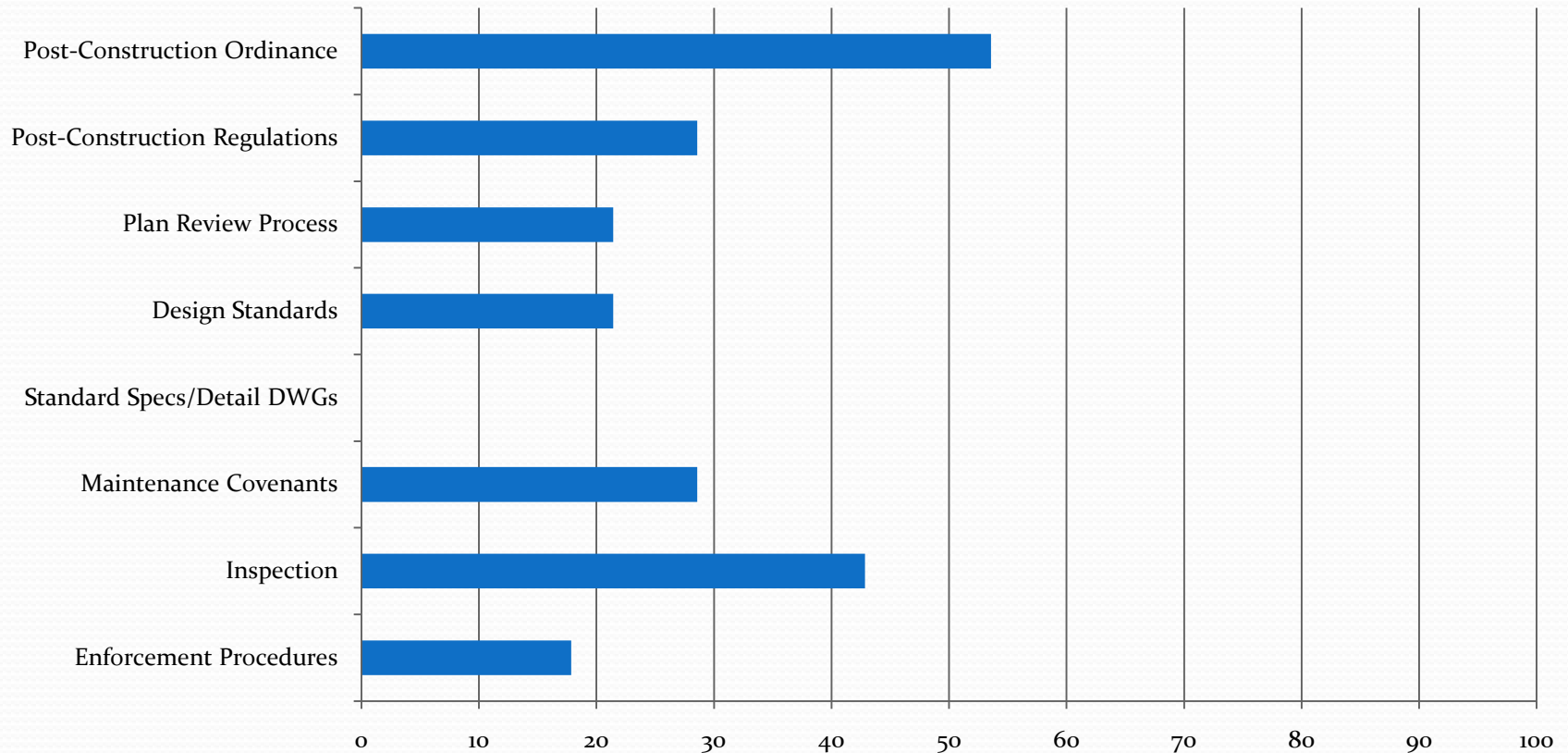
# Construction Site Stormwater Runoff Control Metric (MCM 4)

**Construction/Erosion and Sediment Control Regulatory Mechanism Status**



64% reporting (18 of 28 municipalities)

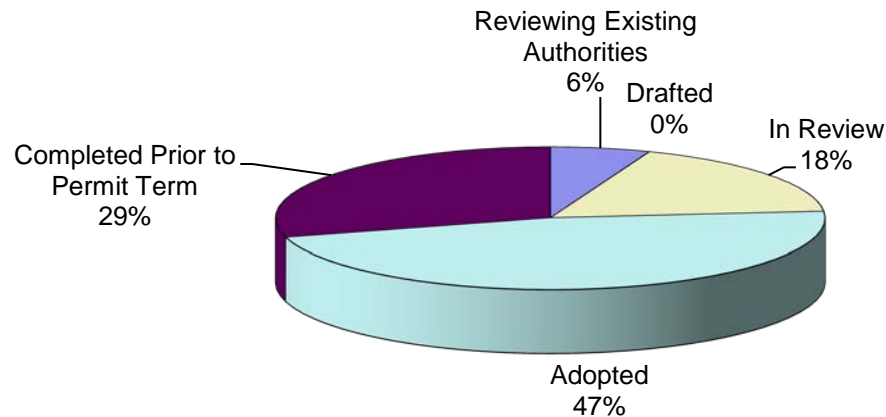
# Post-Construction Stormwater Management in New Development and Redevelopment BMPs (MCM 5)



Percent using practice among the 74% of NH municipalities reporting

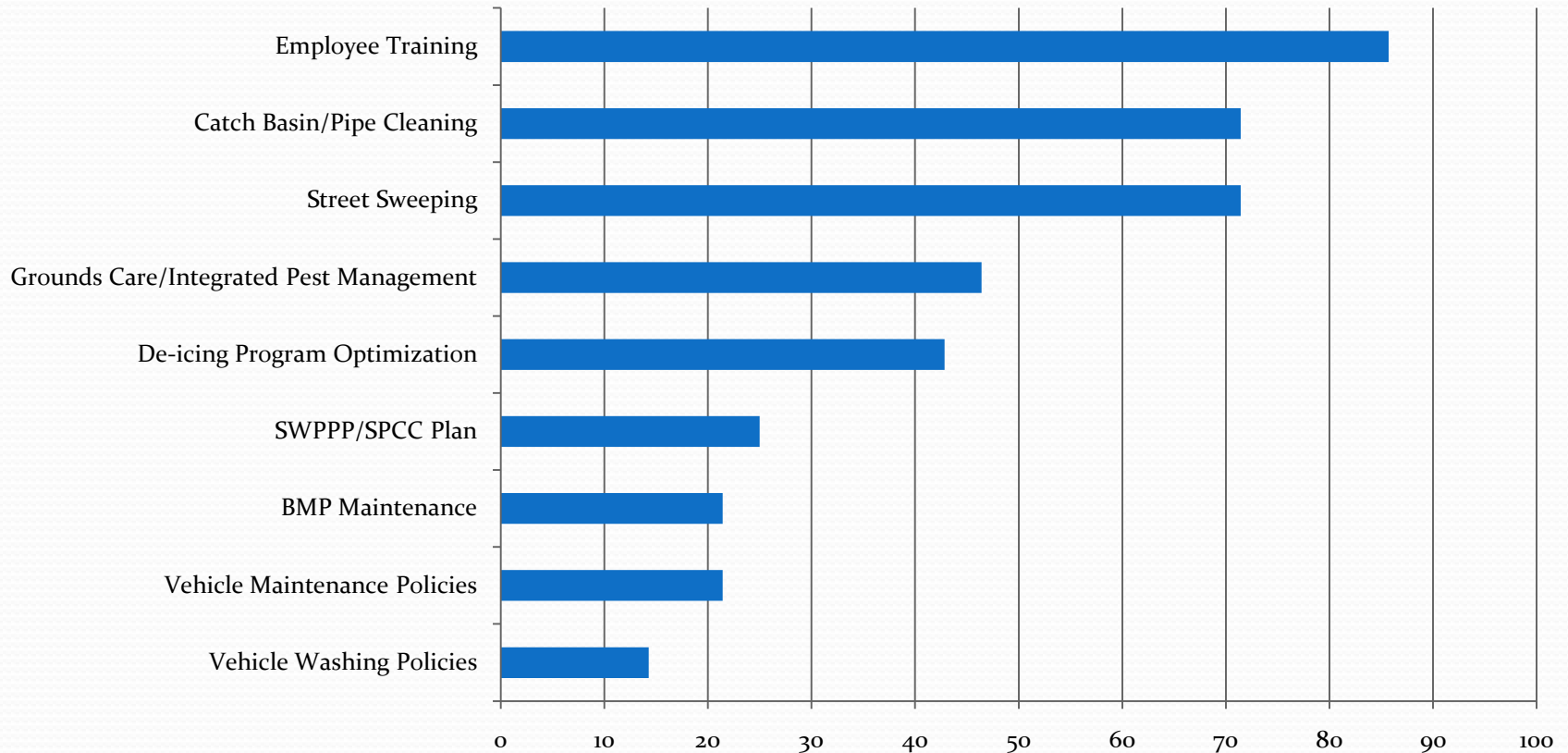
# Post-Construction Stormwater Management in New Development and Redevelopment Metric (MCM 5)

**Post-Development Regulatory Mechanism Status**



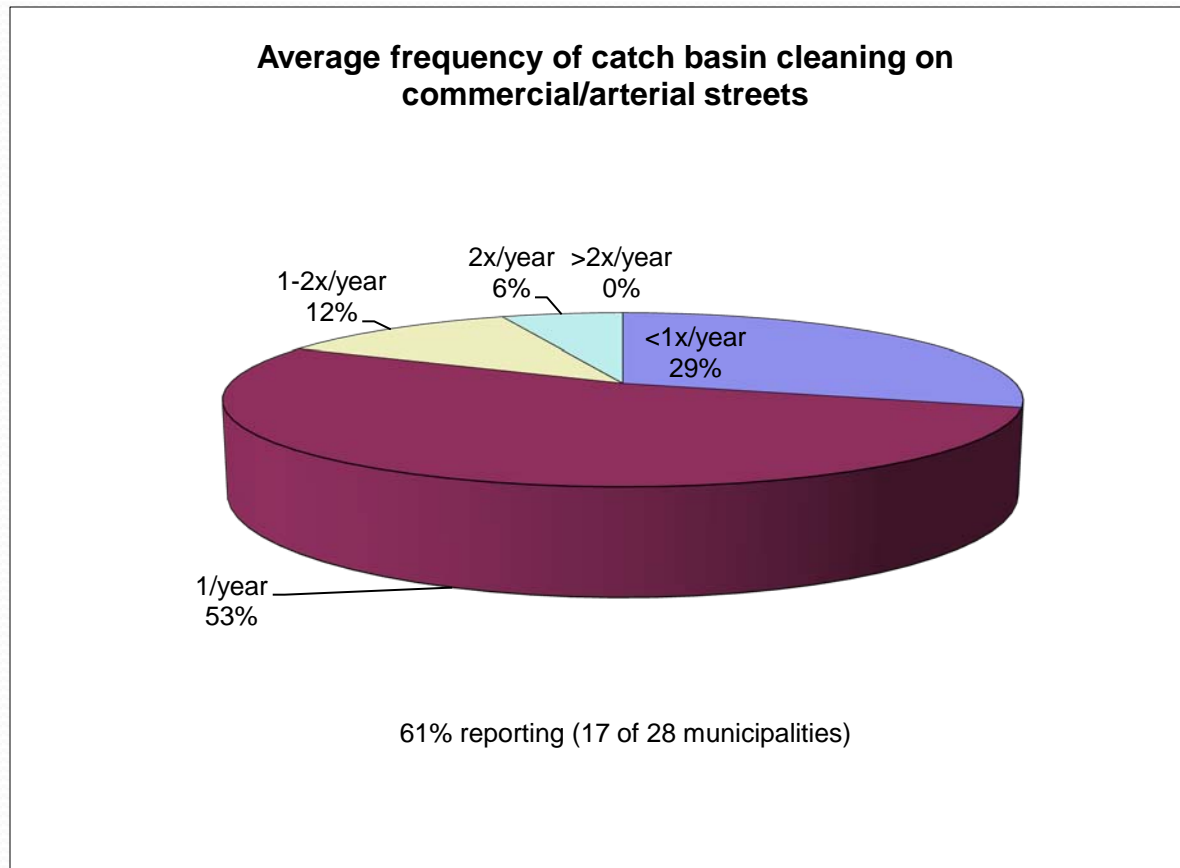
61% reporting (17 of 28 municipalities)

# Municipal Good Housekeeping BMPs (MCM 6)



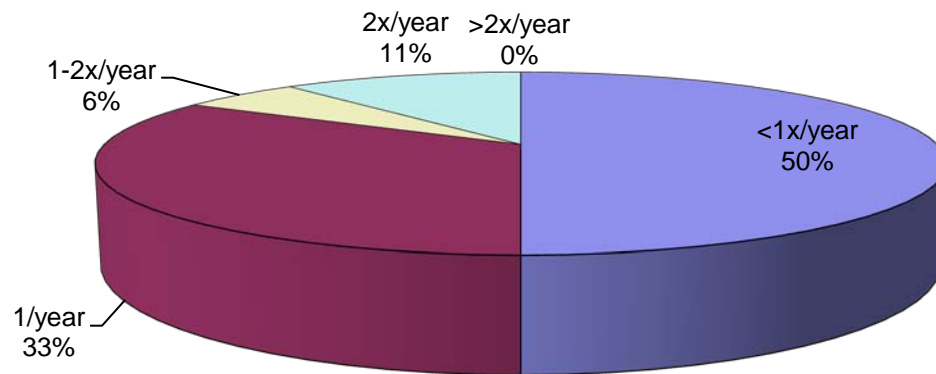
Percent using practice among the 74% of NH municipalities reporting

# Municipal Good Housekeeping Metric (MCM 6)



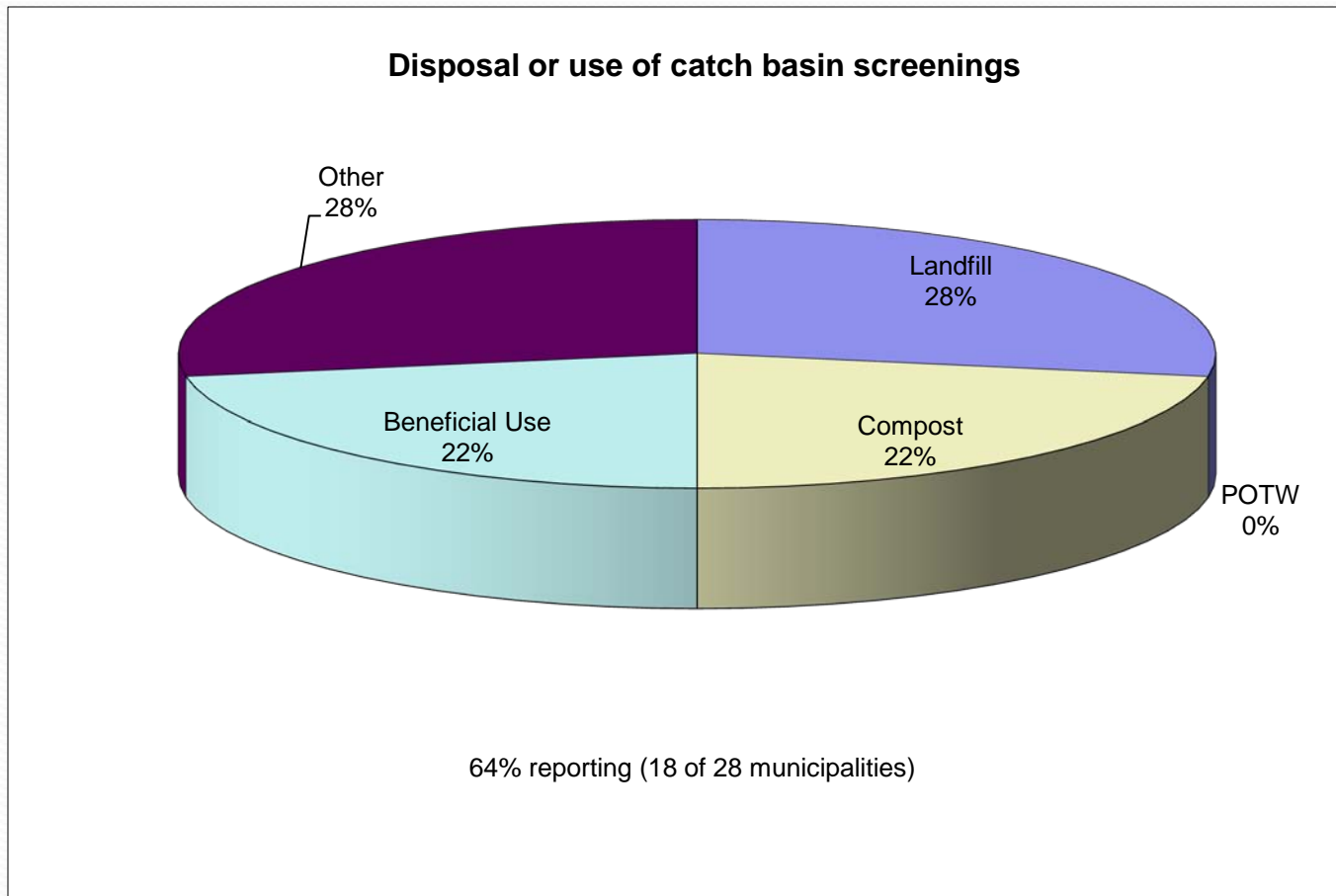
# Municipal Good Housekeeping Metric (MCM 6)

Average frequency of catch basin cleaning on residential streets

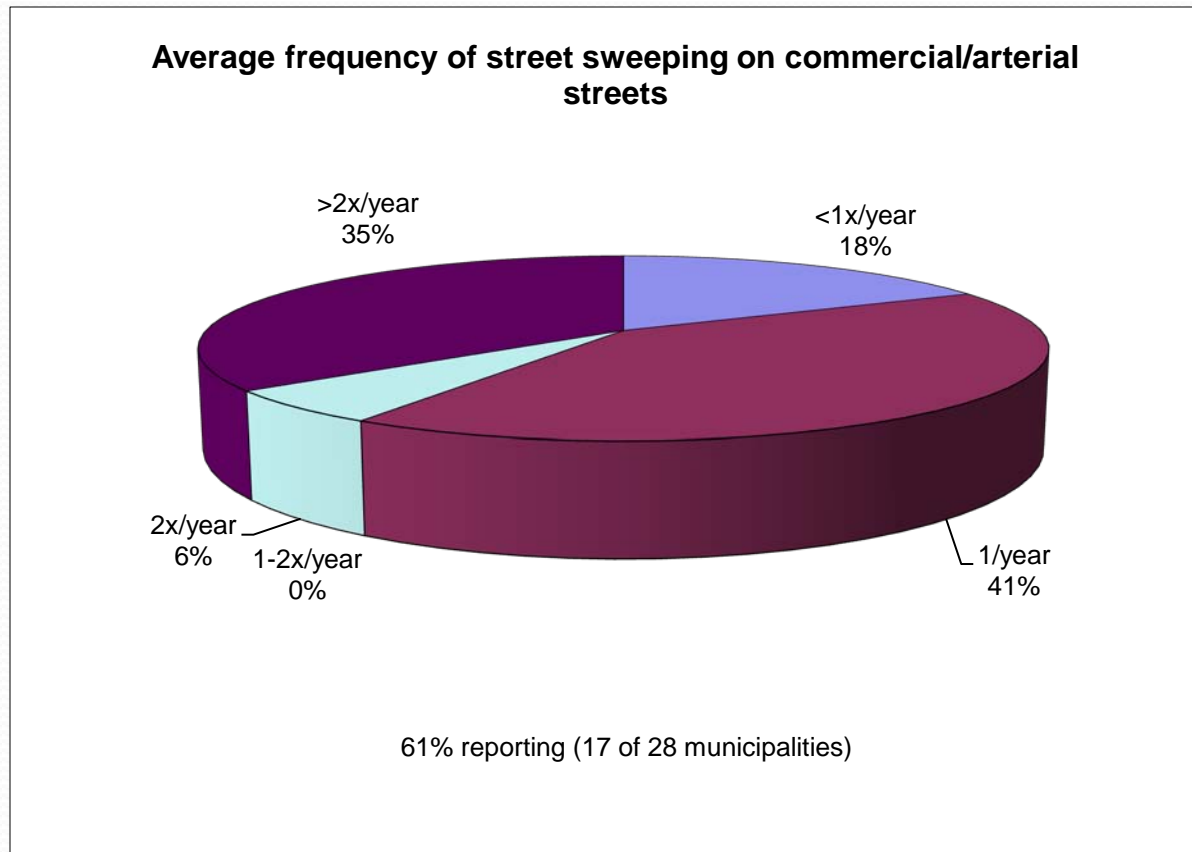


64% reporting (18 of 28 municipalities)

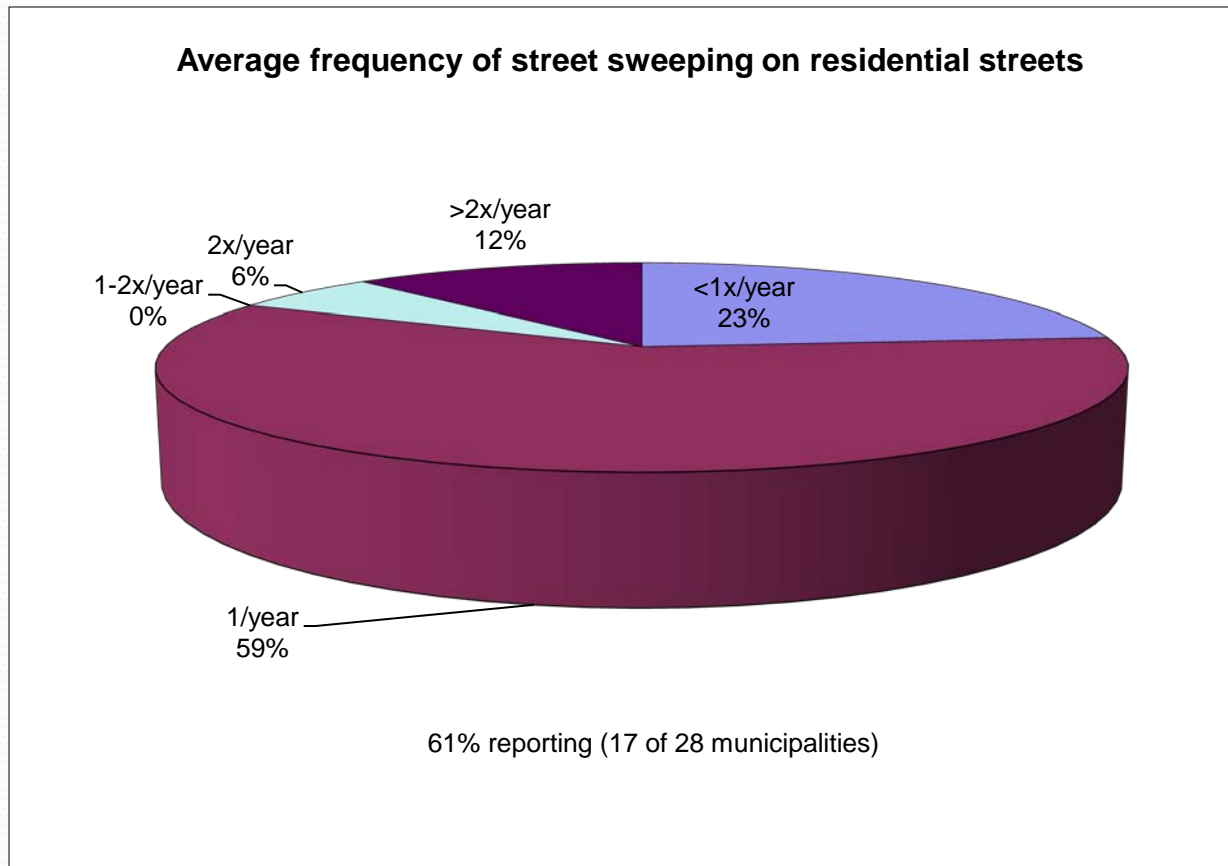
# Municipal Good Housekeeping Metric (MCM 6)



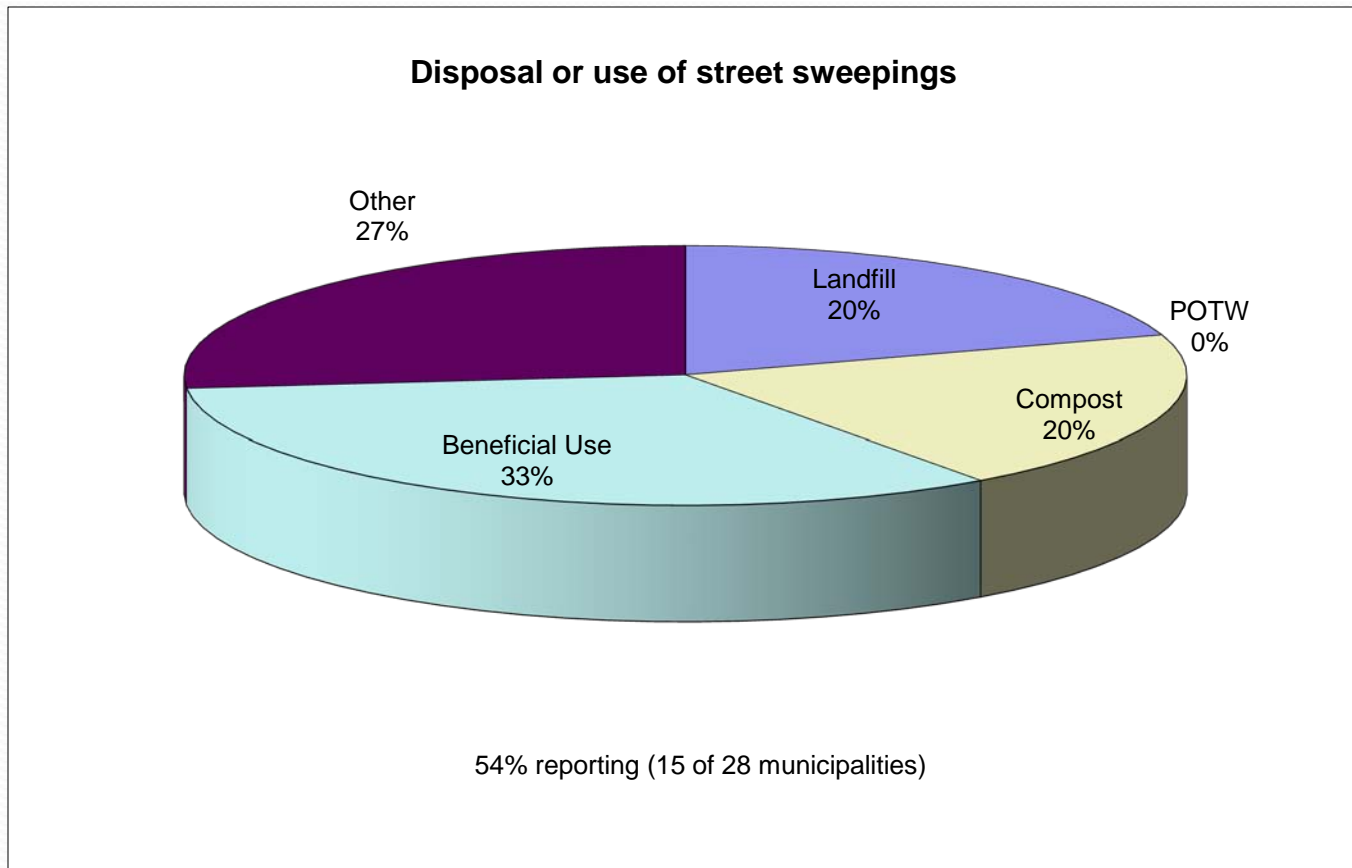
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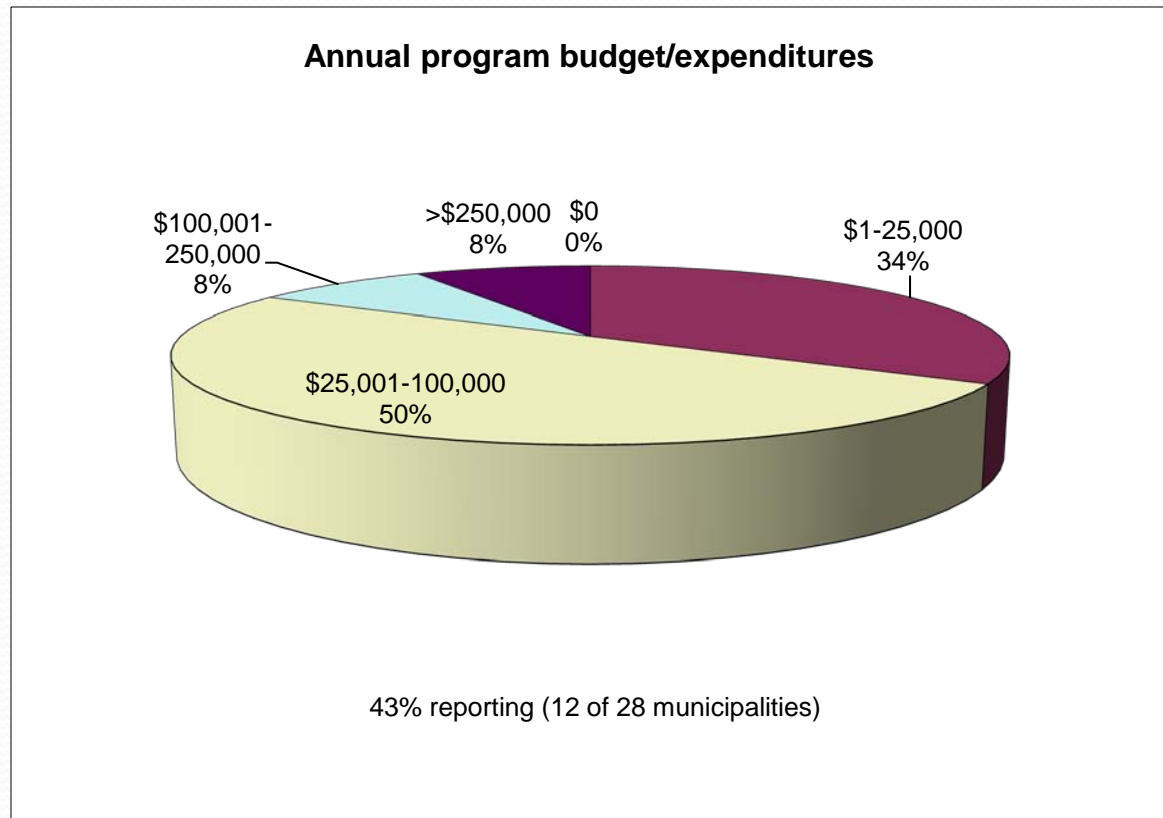
<b>De-icing equipment/techniques used</b>	
<b>Equipment/Technique</b>	<b>% of municipalities using this equipment/technique</b>
Automatic or Zero-Velocity Spreaders	47% of 17 municipalities reporting
Manual Control Spreaders	71% of 17 municipalities reporting
Pre-wetting Techniques	25% of 16 municipalities reporting
100% of salt pile(s) covered in storage shed(s)	100% of 19 municipalities reporting

# Municipal Good Housekeeping Metric (MCM 6)

<b>De-icing products used</b>	
<b>Product</b>	<b>Average reported % of all de-icing products represented by this product (considering only municipalities that reported on their use of the product)<sup>1</sup></b>
NaCl	60% (12 municipalities reported their NaCl use)
CaCl <sub>2</sub>	100% (1 municipality reported its CaCl <sub>2</sub> use)
MgCl <sub>2</sub>	No municipalities reported their MgCl <sub>2</sub> use
Sand	40% (12 municipalities reported their sand use)

<sup>1</sup> For example, of the 12 municipalities that reported using NaCl, on average, 60% of the mix of deicing products used by these municipalities is composed of NaCl

# Stormwater management program



## Select BMPs of interest implemented by municipalities in April 2010 – March 2011 reporting period

- Outfall monitoring – wet or dry weather (11)
- Snow & ice control optimization program (12)
- Low Impact Development (LID) practices permitted and encouraged (7)
- BMP maintenance required through escrow, covenants, deed restrictions, etc. (4)

*() denotes # of municipalities reporting this BMP*