Sources Near MANE-VU
Class I Areas

Emissions in Counties Containing Class I Areas

Prepared March 3, 2006
Pat Davis, MARAMA
Counties with Class I Areas

• Acadia – Hancock County, ME
• Moosehorn & Roosevelt Campobello–Washington County, ME
• Great Gulf & Presidential Range/Dry River – Coos County, NH
• Brigantine – Atlantic County, NJ
• Lye Brook – Bennington County, VT
Emission Source Categories

- Electric Generating Units
- Non-EGU Fuel Combustion*
- Industrial Processes*
- Off-Highway Vehicles
- Highway Vehicles
- Open/Biomass Burning*
- Crustal/Fugitive Dust/Other Area Sources*

*See lists of SCCs included
Non-EGU Fuel Combustion SCC Titles

• All Stationary Source Fuel Combustion – Industrial, Commercial & Institutional, others
• Other Combustion
• All External Combustion Boiler – Industrial, Commercial and Institutional
• All Internal Combustion Boiler – Industrial, Commercial and Institutional
• Industrial Process – In process fuel use
Industrial Process SCC Titles

- All Industrial Process
- Solvent Utilization
- Storage & Transport
- Industrial Process in Point source
- Petroleum & solvent evaporation
- MACT source categories
Open/Biomass Burning SCCs

- Waste Disposal, Treatment, and recovery – Area Source
- Natural Sources
- Waste Disposal – Point Source
- Residential Wood
Crustal/Fugitive Dust/Other

- Paved Roads
- Unpaved Roads
- Industrial Construction
- Mining and Quarrying
- Miscellaneous Area Sources
- Agricultural
What’s next?

- Is this type of information useful/needed?
- Should MARAMA develop similar charts for sources within some specific distance of the Class 1 areas?
- What other information do the Class 1 states plan to develop about emissions sources near their Class 1 areas?
SO₂ Source Distribution in MANE-VU Class 1 Area Counties
Prepared March 3, 2006 (MANE-VU Emissions Inventory Version 2)

Acadia (Tons/Yr)  Moosehorn & Roosevelt (Tons/Yr)  Great Gulf & Presidential (Tons/Yr)  Brigantine (Tons/Yr)  Lye Brook (Tons/Yr)
EGU  7.8  0.1  8.8  2.1  0.0
Other Fuel Combustion  1148.5  776.1  977.8  502.0  130.8
Industrial Process  0.0  186.2  3.4  3.3  0.0
Off-Highway Vehicles  38.9  30.6  9.5  241.0  17.8
Highway Vehicles  85.4  50.5  30.4  152.9  55.1
Open/Biomass Burning  20.4  12.1  7.6  18.7  4.7
Crustal/Fugitive Dust  0.0  1.6  6.4  0.0  0.0
PM$_{2.5}$ Source Distribution in MANE-VU Class 1 Area Counties
Prepared March 3, 2006 (MANE-VU Emissions Inventory Version 2)

<table>
<thead>
<tr>
<th>Source Type</th>
<th>Acadia (Tons/Yr)</th>
<th>Moosehorn &amp; Roosevelt (Tons/Yr)</th>
<th>Great Gulf &amp; Presidential (Tons/Yr)</th>
<th>Brigantine (Tons/Yr)</th>
<th>Lye Brook (Tons/Yr)</th>
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<tbody>
<tr>
<td>EGU</td>
<td>134.4</td>
<td>0.1</td>
<td>3.3</td>
<td>1.8</td>
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<td>1058.3</td>
<td>603.8</td>
<td>73.9</td>
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<td>274.0</td>
<td>23.8</td>
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<td>110.0</td>
<td>67.8</td>
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<td>24.8</td>
<td>16.6</td>
<td>75.1</td>
<td>28.1</td>
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<td>Open/Biomass Burning</td>
<td>2030.7</td>
<td>675.8</td>
<td>438.7</td>
<td>1262.9</td>
<td>289.3</td>
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<td>Crustal/Fugitive Dust</td>
<td>72.6</td>
<td>58.3</td>
<td>157.8</td>
<td>108.8</td>
<td>83.0</td>
</tr>
</tbody>
</table>
NOx Source Distribution in MANE-VU Class 1 Area Counties
Prepared March 3, 2006 (MANE-VU Emissions Inventory Version 2)