Local Municipal Forecast

OPAC Partners in Quality Road Tour
Ottawa
April 19, 2018
2018 Tonnage Survey
Survey - Background

• 2018 Municipal Asphalt Paving Tonnage Survey
  – Circulated to all Ontario municipalities (444)
  – 44 responses (9.9%)
    • North, 5
    • Southeast, 14
    • Central, 13
    • Southwest, 12
  – Survey was active for 16 days
    • 2018-03-26 to 2018-04-10
Survey – Question 1

What is your municipality's expected 2018 asphalt tonnages?

Southeast Zone
564,807 T

All Respondents
2,087,822 T

$401 \times 1.83 \times 25,673$

$401 \times 6.77 \times 94,901$
### Survey – Question 1

<table>
<thead>
<tr>
<th>County</th>
<th>Tons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renfrew</td>
<td>52,000</td>
</tr>
<tr>
<td>County of Peterborough</td>
<td>6,600</td>
</tr>
<tr>
<td>Smiths Falls</td>
<td>27,000</td>
</tr>
<tr>
<td>SDG</td>
<td>68,000</td>
</tr>
<tr>
<td>Ottawa</td>
<td>250,000</td>
</tr>
<tr>
<td>Lennox &amp; Addington</td>
<td>45,000</td>
</tr>
<tr>
<td>Northumberland County</td>
<td></td>
</tr>
<tr>
<td>Prescott &amp; Russell</td>
<td>64,000</td>
</tr>
</tbody>
</table>
Survey – Question 1

- Haliburton County: 24,400 T
- Township of Limerick: 11,650 T
- Lanark County: 15,000 T
Survey – Question 2

How are your municipality’s pavement depths designed?

Northern Zone

<table>
<thead>
<tr>
<th>Pavement Depths Designed</th>
<th>Number of Responses</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard / Template</td>
<td>6</td>
<td>42.9%</td>
</tr>
<tr>
<td>Consultant</td>
<td>7</td>
<td>50.0%</td>
</tr>
<tr>
<td>Contractor</td>
<td>1</td>
<td>7.1%</td>
</tr>
</tbody>
</table>

All Respondents

<table>
<thead>
<tr>
<th>Pavement Depths Designed</th>
<th>Number of Responses</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard / Template</td>
<td>31</td>
<td>70.5%</td>
</tr>
<tr>
<td>Consultant</td>
<td>12</td>
<td>27.3%</td>
</tr>
<tr>
<td>Contractor</td>
<td>1</td>
<td>2.2%</td>
</tr>
</tbody>
</table>
What type of mix design is your municipality using?

**Southeast Zone**

- Marshall: 10 (71.4%)
- Superpave: 2 (14.3%)

**All Respondents**

- Marshall: 27 (61.4%)
- Superpave: 12 (27.2%)
What type of asphalt cement (AC) grade is your municipality using?

Zone 1: PGAC 52-34
58-34 58-28
52-34

Zone 2: PGAC 58-34
58-34 58H-34
58-28

Zone 3: PGAC 58-28
64-28 58-34
58-28 MGAC 58-28

* The ABCs of PGAC
As part of your municipality’s asphalt paving program do you conduct material testing?

**Southeast Zone**
- Staff: 1 (7.1%)
- Consultant: 7 (50.0%)
- Contractor: 6 (42.9%)

**All Respondents**
- Staff: 1 (2.3%)
- Consultant: 20 (45.5%)
- Contractor: 16 (36.3%)
As part of your municipality’s current budget how much money is allocated to each of the following?

**Southeast Zone**
- Asphalt resurfacing: 66%
- New construction: 34%

**All Respondents**
- Asphalt resurfacing: 62%
- New construction: 38%
Origin

• The Municipal HMA Liaison Committee was established in 2010 as a partnership between Ontario Hot Mix Producers Association (OHMPA) and OGRA in response to requests from municipal staff for a committee to discuss municipal issues surrounding HMA.
Committee Makeup

 Associations:  

 Cities:  

Hamilton  

Oshawa
Municipal HMA Liaison

Counties:

- York Region
- Region of Waterloo
- Middlesex County
- County of Peterborough
- The Corporation of the County of Wellington
Municipal HMA Liaison

Industry: yellowline
asphalt products ltd.

- DBA Engineering Ltd.
- FERMAR Paving Limited
- CRH
- Miller The Miller Group
Municipal HMA Liaison

Committee Mandate

• Facilitate the development of Best Practice Guides.
• Provide/develop educational materials and program.
• Recommend updates to asphalt related Ontario Provincial Standard Specifications (OPSS) and Ontario Provincial Standard Drawings (OPSD).
2017 Highlights
2017 Municipal Paving Award

Purpose

• Promote and recognize the successful collaboration between municipalities and HMA producers for excellence and innovation in paving projects in Ontario

Judging Criteria

• Conformance to specifications based on testing
• Visual appearance
• Workmanship
• Innovation
• Other considerations (work window, night paving, traffic, interaction with public, etc.)
Municipality/Region: City of Hamilton
Contractor: Coco Paving
Project: Regional Road 56 – Southbrook Dr. to Twenty Mile Creek (Binbrook)
Project Description: the supply and installation of sewer, watermains, water valves, roadway, curb and sidewalk reconstruction
Hot mix Asphalt volumes:
- Binder: SP19.0 - Cat. D PG64-28XD: 11,602.50 Tonnes
- Surface: SP12.5FC2 - Cat. D PG64-28: 4,233.72 Tonnes
Project Highlights/Challenges:
- Heavy Traffic arterial corridor
- Signalized street intersections
- Operations forced to night time paving
- Use of warm mix asphalt
2017 Municipal Paving Award – Finalist #1
Municipality/Region: County of Peterborough
Contractor: Coco Paving
Project: County Road 19
Project Description: full road reconstruction to correct severe deformation and asphalt deterioration caused by saturated sub-base and base materials
Hot mix Asphalt volumes:
  • Binder: HL8 – PG58-34XD:  1910 Tonnes
  • Surface: HL4 – PG58-34XD:  1830 Tonnes
Project Highlights/Challenges:
  • Provincialy significant wetlands on both sides of roadway with wetland sensitivity restrictions
  • Heavily travelled corridor
  • Access to numerous businesses was required to be successful
Municipality/Region: Town of Hearst
Contractor: C. Villeneuve Construction
Project: Front Street (15th Street to 6th Street)
Project Description: full depth removal, frost heave treatment, curb and cutter replacement, road rehabilitation
Hot mix Asphalt volumes:
• Binder: SP19.0 - Cat. D PG52-34: 5700 Tonnes
• Surface: SP12.5 – PG58-34P: 3250 Tonnes
Project Highlights/Challenges:
• Completed in 42 of 50 working days
• Work was performed while directing traffic from Highway 11 through town and providing access to commercial entrances during all phases of construction
• Use of warm mix asphalt
• Asphalt compactor used with Intelligent Compaction feature
2017 Municipal Paving Award - Winner
2017 Municipal Paving Award - Winner
Quality Assurance Subcommittee

• Develop – Segregation Best Practices document.
• Guidance for municipalities and contractors
2018 Initiatives

Contractor Work Subcommittee

- Finalized - Contractor Prequalification Document.
- Develop - Project Evaluation/Performance Sheet.
2018 Initiatives

Education/Innovation Subcommittee

• Oversee – 2\textsuperscript{nd} Annual Municipal Paving Award.

• Develop – 2\textsuperscript{nd} Lunch and Learn Webinar Series.
  • Interpreting test results.
  • Pavement smoothness.
  • Pavement design.
  • Asphalt segregation.
Thank you

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