Local Municipal Forecast

OPAC Partners in Quality Road Tour
Sudbury
April 17, 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
What is your municipality's expected 2018 asphalt tonnages?

Northern Zone
90,300 T

All Respondents
2,087,822 T

x 0.29
x 4,105
x 6.77
x 94,901
Survey – Question 1

- Thunder Bay: 25,000 T
- Hearst, Ontario, Canada: 300 T
- Township of Sables-Spanish Rivers: 3,000 T
- Municipality of East Ferris: 1,000 T
- Sudbury: 61,000 T
How are your municipality’s pavement depths designed?

Northern Zone

All Respondents

Pavement Depths Designed

<table>
<thead>
<tr>
<th></th>
<th>Number of Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard / Template</td>
<td>5 (100%)</td>
</tr>
<tr>
<td>Consultant</td>
<td></td>
</tr>
<tr>
<td>Contractor</td>
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Pavement Depths Designed

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

Central Zone
- Marshall: 2 (40.0%)
- Superpave: 1 (20.0%), 2 (40.0%)

All Respondents
- Marshall: 27 (61.4%)
- Superpave: 5 (11.4%), 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?

**Northern Zone**

- **Staff**: 2 (40.0%)
- **Consultant**: 3 (60.0%)
- **Contractor**: -

**All Respondents**

- **Staff**: 1 (2.3%)
- **Consultant**: 3 (6.8%)
- **Contractor**: 16 (36.3%)
Survey – Question 5

As part of your municipality’s current budget how much money is allocated to each of the following?

**Northern Zone**

- **Asphalt resurfacing**: 74%
- **New construction**: 26%

**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.
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
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:
- Provincially significant wetlands on both sides of roadway with wetland sensitivity restrictions
- Heavily travelled corridor
- Access to numerous businesses was required to be successful
2017 Municipal Paving Award – Finalist #2
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
Quality Assurance Subcommittee

- Guidance for municipalities and contractors
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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