Wisconsin Towns Association Update
Mike Koles, WTA Executive Director
Wisconsin Motorists and Businesses Deserve Better

![Wisconsin Taxpayers Alliance 2015 Report Card](image)

<table>
<thead>
<tr>
<th>Category</th>
<th>Evaluation 1</th>
<th>Evaluation 2</th>
<th>Evaluation 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infrastructure Availability</td>
<td>D</td>
<td></td>
<td>C+</td>
</tr>
<tr>
<td>Workforce Readiness</td>
<td>B-</td>
<td>B+</td>
<td>B+</td>
</tr>
<tr>
<td>Financial Security</td>
<td>D+</td>
<td>C+</td>
<td>B</td>
</tr>
<tr>
<td>Economic Strength</td>
<td>B+</td>
<td>C-</td>
<td>C</td>
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<tr>
<td>Economic Potential</td>
<td>B</td>
<td>C-</td>
<td>C</td>
</tr>
<tr>
<td>Fiscal Health</td>
<td>C+</td>
<td>C-</td>
<td>C</td>
</tr>
<tr>
<td>Social Stability</td>
<td>C+</td>
<td></td>
<td>B</td>
</tr>
</tbody>
</table>
System Composition

- Town Roads: 54%
- County Roads: 12%
- City and Village: 17%
- State, Connecting, Other: 17%

Source: LFB Informational Paper 2015 #40
System Composition

- Town Roads: 61,908 Miles
- County Roads
- City and Village
- State, Connecting, Other

Sources: LFB Informational Paper 2015 #40
WisDOT Paved Road Totals WTA Data Request 2016
2015 Town PASER Ratings

- Very Good to Excellent (8 - 10): 27%
- Good (6 - 7): 40%
- Fair (4 - 5): 24%
- Poor (3): 6%
- Very Poor (2): 3%
- Failed (1): 1%

Source: WisDOT Paved Road Totals WTA Data Request 2016
2015 Town PASER Ratings

54% of Town Paved Roads Require a Minimum of Seal Coating

Source: WisDOT Paved Road Totals WTA Data Request 2016
PASER Asphalt Roads Manual UW-Madison Transportation Information Center
73% of Town **PAVED** System Needs Maintenance

- **28%**: Reconstruction - Asphalt
- **26%**: Seal Coat
- **20%**: Crack Filling
- **27%**: Nothing

Source: WisDOT Paved Road Totals WTA Data Request 2016
PASER Asphalt Roads Manual UW-Madison Transportation Information Center
Maintenance & Replacement Schedules

Crack Filling

Mill & Overlay - Overlay

Sealed

GW’s Grandpa was 7 years old

Reconstruction
## Maintenance & Replacement Schedules

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Crack Filling</strong></td>
<td><strong>16.1 Years</strong></td>
</tr>
<tr>
<td><strong>Sealing</strong></td>
<td><strong>31.4 Years</strong></td>
</tr>
<tr>
<td><strong>Mill &amp; Overlay - Overlay</strong></td>
<td><strong>62.9 Years</strong></td>
</tr>
<tr>
<td><strong>Reconstruction</strong></td>
<td><strong>370.8 Years</strong></td>
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</tbody>
</table>

Source: 2016 Survey of Town Road Maintenance Procedures
Local Road Pavement Deterioration Curves

From: Wisconsin Information System for Local Roads - WISLR

Source: UW-Madison Transportation Information Center
One Semi = 1,928 Cars

At 50 ADT, One Semi = 10 semis is year of cars

Source: UW-Madison Transportation Information Center
John Deere 8230
1.2 ESALS
At 50 ADT – 11 tractors is a year of cars
## Maintenance & Replacement Schedules

<table>
<thead>
<tr>
<th></th>
<th>Most Efficient &amp; Productive</th>
<th>Current</th>
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</thead>
<tbody>
<tr>
<td>Crack Filling</td>
<td>3 years</td>
<td>16.1 Years</td>
</tr>
<tr>
<td>Sealing</td>
<td>5 – 7 Years</td>
<td>31.4 Years</td>
</tr>
<tr>
<td>Mill &amp; Overlay - Overlay</td>
<td>20 – 35 Years</td>
<td>62.9 Years</td>
</tr>
<tr>
<td>Reconstruction</td>
<td>40 – 70 Years</td>
<td>370.8 Years</td>
</tr>
</tbody>
</table>

Source: 2016 Survey of Town Road Maintenance Procedures
Cost???

Talk to me in a Week
• 1000 Animal Unit (CAFO) – 700 Cow Dairy (no calves, heifers)
• Each cow produces 10,000 gallons of manure per year
• Farm produces 7,000,000 gallons of manure
• Legally loaded for GVW but over slightly on axle weight = 3380 gallons
• 2071 Trips per Year
# Pavement Life Reduction (years) - Fatigue Model "Fair Soils" - AASHTO A2-4 Clayey Sand Soils

50 Year Design Life

<table>
<thead>
<tr>
<th></th>
<th>100 Trips Per Year</th>
<th>250 Trips Per Year</th>
<th>500 Trips Per Year</th>
<th>1000 Trips Per Year</th>
<th>2000 Trips Per Year</th>
<th>4000 Trips Per Year</th>
<th>5000 Trips Per Year</th>
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</thead>
<tbody>
<tr>
<td>3&quot; over 6&quot; pavement</td>
<td>0</td>
<td>0</td>
<td>8</td>
<td>20</td>
<td>30</td>
<td>38</td>
<td>40</td>
</tr>
<tr>
<td>5-1/2&quot; over 9&quot; pavement</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>Life maintained by heavier cross section (years)</td>
<td>0</td>
<td>0</td>
<td>8</td>
<td>20</td>
<td>30</td>
<td>31</td>
<td>26</td>
</tr>
</tbody>
</table>
Town of Star Prairie

- 61.5 miles of road
- 60% don’t meet current surface or width standards
- 0% Excellent or Very Good
- 12% good
- 28% fair
- 43% poor or very poor—engineers recommend no IOH permits
- 17% failing—engineers recommend no IOH permits
Town of Star Prairie

- Current reconstruction methods
  - $220,000 per mile
  - 15 – 30 year life expectancy

- Road budget - $300,000 annually
  - $70,000 for reconstruction (pending winter maintenance needs)
  - $149,000 for maintenance (pending winter maintenance needs)

- Road Replacement Schedule – 307 Years
Town of Star Prairie - Options

- 9.22% property tax increase via referendum
- $100 wheel tax
- Borrow
- Gravel and Increased Posting
WisDOT Budget Proposal

- $8.9 Million in Town LRIP and GTA
- $7.0 Million in GTA = $88/mile
- Typical Town with 50 miles of road = $4,400

- Town of Bradley Mill and Repave with Partial Base Work
  - $125,763 per mile
  - .03 miles additional work

- Town of Bristol Complete Reconstruct (5.5 over 9)
  - $442,081
  - 53 feet of additional road

- Governor has pledged an additional $14.6 million in GTA