Pavement Preservation

Town of Providence, NY
George Whitney
Highway Superintendent
Introduction

- George Whitney
  - Highway Superintendent
    - Started Jan, 2010
  - Town Board Member – 16 years
  - Town highway involvement – 20 years
  - Lifelong Town of Providence resident
Outline

- Existing conditions
- Need to change
- Changes made
- Expected results
Existing Conditions

- 90 Lane Miles – including 20 gravel
- Minimal road histories
- No Pavement Management System
- Worst first philosophy
- No condition ratings
- No traffic volumes
- System generally in fair condition
Staffing, Equipment & Budget

- 6 employees + Highway Superintendent
- 4 – 10 wheel dump trucks
- Grader, Gradall, loader, excavator, roller, tractor mower
- Total budget - $870,000
  - Pavement Projects - $240,000
  - Snow and Ice - $238,000
Highway System
Actions taken

- Met with employees
- Met with peers
- Met with Town Board
- Attended Pavement Preservation meeting
- Met with local vendors
  - Asked for advice
Adopt Pavement Preservation Policy

- Worst First has not worked
- Keep good roads good
- Concentrate on higher volume roads first
  - Chip away at poor roads over time
Inventory

- Search available records to establish road history
- Complete field inventory
  - Lengths
  - Widths
  - Physical features
  - Logical termini
Establish Rating System

- Keep it simple
  - Town Board
  - Town voters
- Rate roads
# Grading Scale

<table>
<thead>
<tr>
<th>Score</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Absolutely perfect, road done this year</td>
</tr>
<tr>
<td>9</td>
<td>Road needs nothing</td>
</tr>
<tr>
<td>8</td>
<td>Light to medium cracking – crack sealing needed</td>
</tr>
<tr>
<td>7</td>
<td>Moderate cracking, few bad spots – crack sealing – micropaving or other overlay possible</td>
</tr>
<tr>
<td>6</td>
<td>Heavy cracking, rutting beginning to take place – possible paving or reclaiming</td>
</tr>
<tr>
<td>5</td>
<td>Heavy cracking and rutting – reconstruction needed</td>
</tr>
<tr>
<td>4</td>
<td>Road beginning to break up, rocks coming through, rutting badly</td>
</tr>
<tr>
<td>3</td>
<td>Road broken up very badly</td>
</tr>
<tr>
<td>2</td>
<td>Road impassable by vehicle traffic</td>
</tr>
<tr>
<td>1</td>
<td>Road impassable by even 4 by 4</td>
</tr>
</tbody>
</table>
Inventory/Condition Rating Tool

- Example
Develop Highway Program

- Funding Constraints
  - Crack seal vs reconstruct
  - Concentrate on highest volume road
Summary

- Existing conditions
- Need to change
- Changes made
- Expected results
Questions