What’s the condition of our network?

Its 28% Good, 42% Fair and 30% Poor.
That’s not what was in the report I just read.

What report? Where did the numbers come from, Internal or Federal?
## Federal Pavement Condition Thresholds

<table>
<thead>
<tr>
<th>Metric</th>
<th>Good</th>
<th>Fair</th>
<th>Poor</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRI (inches/mile)</td>
<td>&lt; 95</td>
<td>95 - 170</td>
<td>&gt; 170</td>
</tr>
<tr>
<td>Rutting (inches)</td>
<td>&lt; 0.2</td>
<td>0.2 - 0.4</td>
<td>&gt; 0.4</td>
</tr>
<tr>
<td>Cracking (%)</td>
<td>&lt; 5</td>
<td>5 - 20</td>
<td>&gt; 20</td>
</tr>
<tr>
<td>Condition</td>
<td>Good</td>
<td>Fair</td>
<td>Poor</td>
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# Federal Pavement Condition Thresholds

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<tr>
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<th>Good (Value)</th>
<th>Fair (Range)</th>
<th>Poor (Value)</th>
</tr>
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<tbody>
<tr>
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<td>95 - 170</td>
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<td>&lt; 5</td>
<td>5 - 20</td>
<td>&gt; 20</td>
</tr>
</tbody>
</table>

- The IRI value is within the acceptable range, indicating good condition.
- The rutting value is within the acceptable range, indicating good condition.
- The cracking percentage is above the threshold, indicating poor condition.
FEDERAL PAVEMENT CONDITION THRESHOLDS
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• Good, Good, Good = Good
• Poor, Poor, Poor/Fair/Good = Poor
• All Other Combinations = Fair
FEDERAL PAVEMENT CONDITION THRESHOLDS
FEDERAL VS DOT

IRI

Rutting

Cracking
FEDERAL VS DOT

Federal PC
ARDOT PC

0 2.6 4.6 7.0 8.4 12.0

Federal PC
ARDOT PC

D C A B F

Fair Fair Good Fair Poor
FEDERAL VS DOT

PAVEMENT CONDITION NHS - ARKANSAS

<table>
<thead>
<tr>
<th></th>
<th>IRI</th>
<th>FEDERAL</th>
<th>ARDOT</th>
</tr>
</thead>
<tbody>
<tr>
<td>7%</td>
<td>62%</td>
<td>40%</td>
<td>20%</td>
</tr>
<tr>
<td>5%</td>
<td>32%</td>
<td>55%</td>
<td>21%</td>
</tr>
<tr>
<td>14%</td>
<td>19%</td>
<td>27%</td>
<td>20%</td>
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</tbody>
</table>
FEDERAL
• HPMS
• Reports Other Entities Produce
• Preservation Agreement
• TAMP
• Target Setting

ARDOT
• dTIMs
• Project Scoping
• Anytime Anyone Asks What The Condition Of Our Network Or A Section Of Roadway Is
• TAMP
FEDERAL VS DOT

• How We Are Handling The Two Sets Of Numbers
  • Federal = Good, Fair, Poor
  • DOT = A, B, C, D, F
• Problem
  • TAMP
• Target Setting – Federal Measures
THE CROSSWALK
THE CROSSWALK – FUTURE PLAN

• Deterioration Models in dTIMs
  • IRI
  • Rutting
  • Structural cracking
    • Still Not Equal to Federal Cracking
IN CLOSING

• Determining Pavement Condition Has Changed
  • IRI
    • Was Great, But It Didn’t Provide Enough Information
  • Federal Metrics
    • Is Better Then IRI and
    • Makes Comparing States Pavement Data Possible
    • Cannot Be Used For Pavement Management
  • DOT PCI
    • Can Be Used For Pavement Management
    • Cannot Be Used To Compare States
• Education Will Be Needed
• Life Would Be Easier If We Didn’t Have To Model Federal Good, Fair, Poor
QUESTIONS
SARAH.TAMAYO@ARDOT.GOV