NDLTAP Pavement Preservation Outreach Boots On The Ground

Gerard Feist NDLTAP

Tom Wood ASTECH Corp.

What Is Boots On The Ground?

- It is on site visits
- Open discussion on various topics
 - Discussion is tailored to wants and needs of attendees.
 - Can include pavement reviews
 - Discussions on equipment needs and operations
 - Safety
- Goals to share information on best practices for maintaining HMA pavements
- No Cost to you
- Current schedule western ND May 10th thru May 20th

Leaders of Discussion

- Gerard Feist NDLTAP
- Rodney Ness Swanston Equipment
- Thomas Wood ASTECH Corp

Gerard Feist NDLTAP Asphalt Consultant, Gerard worked for Burleigh County in various roles specializing in crack sealing, patching, and paving. He brings a broad background and expertise in equipment operations and pavements.





NDSU

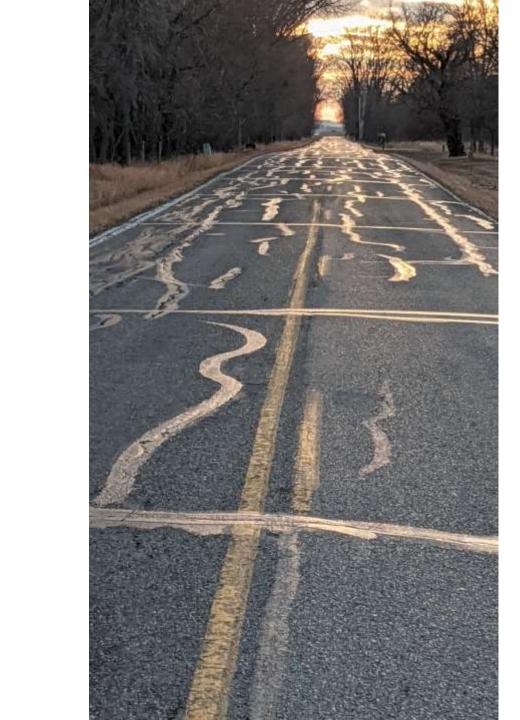




















Rodney Ness, Swanston Equipment Representative, 31 years at Burleigh County with various roles from equipment operator to road superintendent. Rodney is committed sharing his vast experience's so that attendees can safely and efficiently maintain their pavements.



Goals

- Encourage sharing of information from old timers and new workers
- Help eliminate having to recreating the wheel
- Build strong network between agencies to share information
- Help agencies with maintaining their pavement network using strategic program of pavement preservation methods

How To Take Part In Boots On The Ground?

- Contact Dale Heglund
 - dale.heglund@ndsu.edu
 - 701/318/6893

Pavement Preservation

- "a program employing a network level, long-term strategy that enhances pavement performance by using an integrated, costeffective set of practices that extend pavement life, improve safety and meet motorist expectations." Source: FHWA Pavement Preservation Expert Task Group. Sep 12, 2005
- It involve doing the right thing to the right road at the right time
- The goal is to keep good roads good longer
- Pavement Preservation is cost effective

CHAPTER 5: CONCLUSIONS AND RECOMMENDATIONS

The RSL- service life enhancement since intervention - for all treatments from two agencies (MnDOT and NDDOT) appear to be relatively close to each other, except for the BOC substrates overlaid with micro-surfacing (Table 5.1). However, this could be explained through the t-tests performed on BOC substrates overlaid with micro-surfacing data sets, in which results showed the observed difference between the sample is convincing enough to say that the two data sets (MnDOT and NDDOT) differ significantly.

Table 5.1 Weibull parameters obtained for various treatments overlaid on different substrates.

Type of Treatment	Type of Substrate	ThresholdTime to Fai ure, tn	Failure Mode,	Remaining Service Life,
UTBWC	BOB'	0	Wear-out failures	/n"\
	BOC'	2		8
Chip Seals	ВОВ	0	Wear-out failures	9
	BOC '	0		8
	BAB	0,2		8-10
Micro-surfacing	ВОВ	0,2	Wear-out failures	0 - 1
	BOC	0		9-6 ² J
	BAB	0		\ 8-9
INIDDOT				'-/

¹NDDOT does not have substrates that have been overlaid with this type of treatment.

The illimitations in performance data that lead to reduced accuracy in the estimation of remaining service life, etc.

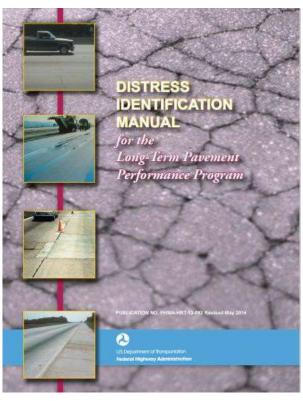
Regardless of substrate types, UTBWC has an RSLof 8 to 13 years; chip seals have an RSLof 8 to 10 years; micro-surfacing has an RSLof 8 to 11 years (excluding BOC data, which showed significant disparity between the means of the two data sets from t-test analysis). All treatments have a pattern of wear-out failures, which are an indication that the treatments are effective in providing life extensions as the cause of failures is not random.

Keys to Successful PPP

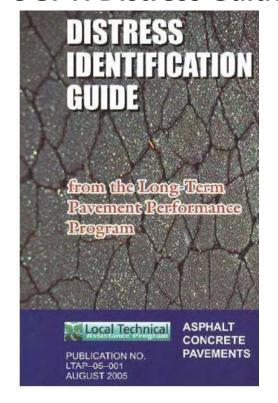
- Understand what's going on your pavements
- Have a pavement management program
 - Rates pavements
 - Predicts future conditions
 - Help with development of budgets
 - Can answer what it options
- If you don't measure it, you can't manage it!
- Keeping update on latest developments and methods
- Training of current and new employees
- Paying attention to small details and the big issues will not happen

Available Tools

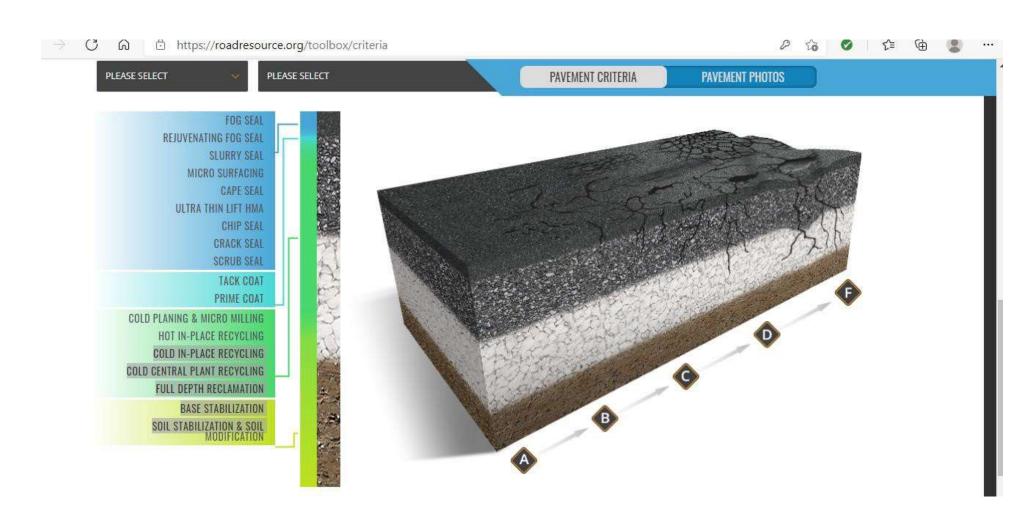
FHWA Distress Manual



UGPTI Distress Guide



Pavement Road Resource Association (PRRA)



What is PRRA?

 The Pavement Preservation & Recycling Alliance provides a collective space to bring industry and agency together for the advancement of sustainable, eco-efficient, and innovative pavement applications.

Dan Wegman



Questions?





Rodney Ness





More "Beef"

Not fel, mind you, but "bod" where it counts transmission, and fined drives. Give this chain of heavy-muscied parts the starting gun and you've get youtpower to whip hig tools through tough jobs.

More "Cream"

The kind that comes to the top between in-come and expense-PROFIT. That's be-cause John Durre Tractors with more performance from every drop of faul. Opersting exets come down - leaving more cream on top for you.

More "Self-Religance"

These John Deere Tractors have built-in "watchdags." Engine ventilator to reduce "ocid indigestion" in the crapkcase; force-feed labs system; safety chitch on the PTO. to name a feet With a "self-protecting" New Genera-tion Tractor, you work confidently.

OK, so you take up a little more room, front to back, too - makes no difference on a John Deere with its twodirection adjustable seat. As easy to fit to your dimensions as the belt in your truceers.

More "Ebow-Roam" More "Get Up 'n' Go"

With a John Doors, a fullow can barce through a let of work offer school and fivial in time to root the "date" on time. Spir record governor a tion ready puts t spura to bersepewhen it's neether.



JOHN DEERE design.

More "Manageable"

It's a "lody's treatm", just right for the farm wife who given hathly a bolying hand naw and then. With its light-touch brakes and power stoering, a larly makes been anny on putting up a corl.

More "in the Bonk"

Nice to know that when a New Genera-tion Tractor does need servicing or parts, both ore on deposit and hetantly avoilable at a searby John Doore designs. To a leasy farmer, that's as good as money in the book.

Pick the Power Size You Prefer

Yes, sir, the "choice pickin's" are in the New Generation lineup . . . from the new 117 h.p. "5010" Tractor (left) right on through the 80 h.p. "4010," 55 h.p. "3010," 45 h.p. "2010," and the 35 h.p. "1010." Test one on your farm soon; ask about the John Deere Credit Plan.

125 YEAR

A voteron former can

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it comes along . . . like

this New Government Tractor, Heally takes the chore out of driv-ing, you don't feel the "years" even after a long day's work.

dependability and dealers MAKE THE DIFFERENCE | Town

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Row-Crop Utility Standard: 30	F		
Sperial: Hi-C	Trip: ☐ Greece and Orchand Utility: ☐ 1010		
Name	R.R.		
	Student		
Toine	Wante		

Thanks

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