

City of Show Low Pavement Management

UPDATE October 25, 2016

Pavement Condition Inventory

- Starting in 2008 staff implemented a City wide pavement evaluation program following the guidelines in the Asphalt Roads– **PASER** Manual.
- **PA**vement **S**urface **E**valuation and **R**ating
- Manual provides procedures to evaluate pavement condition from 1 to 10 – Worst to Best.
- Subsequent evaluations in 2013 and 2016

Pavement Surface Evaluation and Rating

PASER Asphalt Roads Manual



 **Transportation
Information Center**
University of Wisconsin–Madison

PASER Surface Ratings Classifications

Surface Rating

10- Excellent

9-Excellent

8-Very Good

7-Good

6-Good

5-Fair

4-Fair

3-Poor

2-Very Poor

1-Failed

Treatment Measures

New Construction

Recent Overlay

Little or no maintenance required

Maintain with crack filling

Crack fill, slurry seal

Crack fill, slurry seal

Remove damage and repair / slurry seal

Remove damage and repair / structural overlay / base repair

Mill / Reshape/ Structural Overlay Some base repair

Mill / Reshape/ Structural Overlay Extensive base repair

Rating Show Low Streets

- Keep consistent staff. Same employees have performed PASER in 2008, 2013, and 2016.
- Review PASER manual training every year.
- Perform multiple reviews of ratings.
- Moving to annual evaluations to better track pavement issues.

Samples of Show Low Ratings: 10 at Show Low Heights



Samples of Show Low Ratings: 8 at Woolford Road



Samples of Show Low Ratings: 7 at Sierra Park Trail



Samples of Show Low Ratings: 4 at S 30th Dr. and W Whipple



Samples of Show Low Ratings: 3 at E Savage



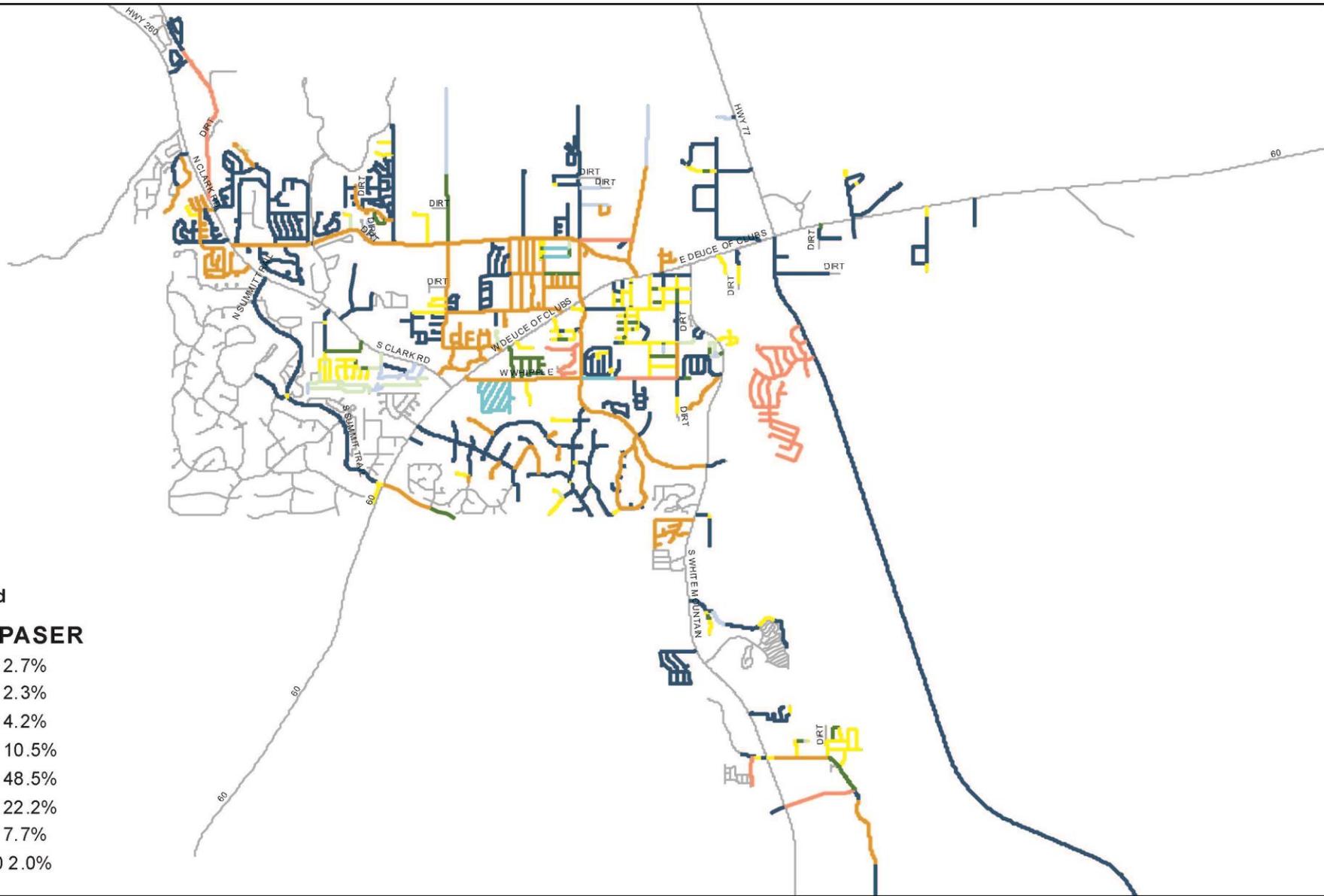
2016 PASER Rating

<u>Surface Rating</u>	<u>Roadway Footage</u>
10	11,365
9	43,411
8	124,399
7	272,146
6	58,816
5	23,481
4	12,776
3	15,186

Legend

2016 PASER

- 3 2.7%
- 4 2.3%
- 5 4.2%
- 6 10.5%
- 7 48.5%
- 8 22.2%
- 9 7.7%
- 10 2.0%



2008, 2013, 2016 Comparison

	Year		
	2008	2013	2016
Rating			
1	1.3%	1.8%	0.0%
2	0.9%	1.0%	0.0%
3	6.1%	1.8%	2.7%
4	12.4%	5.2%	2.3%
5	17.3%	11.5%	3.3%
6	11.4%	21.6%	11.1%
7	10.4%	18.6%	57.3%
8	20.5%	25.5%	20.3%
9	8.3%	9.7%	1.1%
10	11.4%	3.3%	1.8%
% Above Avg.(6+)	62.0%	78.7%	91.6%

Improvement Over Past 8 years

- R & R program about \$450,000 in CIP every year.
- Improvement in spite of HURF reductions
- Improvement is probably better than averages show because 2008 we had many new streets (11.4% were rated 10).
- Improved average even though streets have aged 8 years.

Improvement Over Past 8 years

- Drainage improvements made the year before slurry.
- Purchase of Asphalt Zipper has allowed us to do 8 to 10 times more patching ahead of slurry.
- Purchase of Asphalt Zipper has also given us the ability to do larger mill and overlay projects.
- Crack filling operations are more effective due to training and experience.

QUESTIONS?