

1. City Council Roads Work Session Agenda

Documents:

[9-29-15 WORK SESSION AGENDA.PDF](#)

2. City Council Roads Work Session Packet

Documents:

[9-29-15 COUNCIL WORK SESSION PACKET.PDF](#)



City of Ypsilanti
City Council Work Session Agenda
Tuesday, September 29, 2015
City Council Chambers, 1 S. Huron St., Ypsilanti, MI
WORK SESSION: 7:00 p.m.

I. CALL TO ORDER –

II. ROLL CALL –

Council Member Anne Brown	P A	Council Member Robb	P A
Council Member Nicole Brown	P A	Council Member Vogt	P A
Council Member Murdock	P A	Mayor Edmonds	P A
Mayor Pro-Tem Richardson	P A		

III. INVOCATION –

IV. PLEDGE OF ALLEGIANCE –

"I pledge allegiance to the flag, of the United States of America, and to the Republic for which it stands, one nation, under God, indivisible, with liberty and justice for all."

V. AGENDA APPROVAL –

VI. AUDIENCE PARTICIPATION –

VII. REMARKS FROM THE MAYOR –

VIII. WORK SESSION –

— Roads Maintenance – City Manager Ralph Lange, DPS Director Stan Kirton, and OHM Engineer Marcus McNamara

IX. COMMUNICATIONS –

— October 20th City Council Meeting will be held at EMU

X. AUDIENCE PARTICIPATION -

XI. REMARKS FROM THE MAYOR -

XII. ADJOURNMENT –



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City of Ypsilanti Road Maintenance Study Session

Condition Summary, Investment Analysis, & Project Selection

September 29, 2015

Ypsilanti's Road Program – Current Status

- ▶ Bond sale approved in 2001 for reconstruction of City Locals in conjunction with water main replacement
- ▶ Bond sale allowed City Locals to be repaved between 2001 and 2006
- ▶ Major Streets have been resurfaced with a variety of funding sources, included STP-U, TEDF, Jobs Today, ARRA, CMAQ, partnership with EMU, partnership with WCRC, etc.
- ▶ Typically one major road project is done per year. Some years have had more when multiple funding sources were available, e.g. STP-U, ARRA, PRIP
- ▶ DPS has maintained the local and major road investment over the years with an aggressive crack seal and patching program



Road Network Statistics

Centerline Miles	Surface Type
50.927	Asphalt
1.594	Concrete
0.061	Composite
52.582	Total

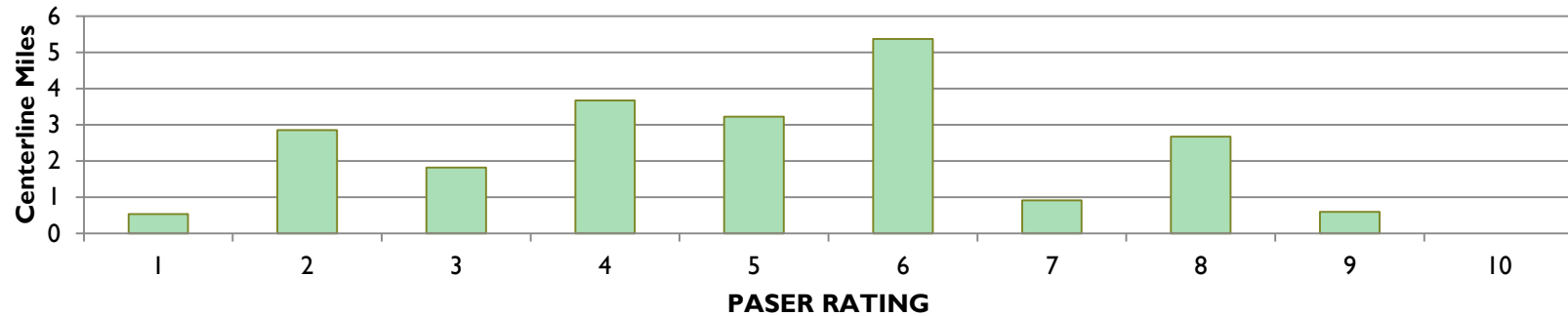
Centerline Miles	Jurisdiction
15.182	City Major – Federal Aid Eligible
6.458	City Major – Federal Aid Ineligible
30.942	City Local
52.582	Total

PASER Rating	Major Road (Centerline Miles)	Major Road Percentage	Local Roads (Centerline Miles)	Local Road Percentage	Total (Centerline Miles)	Total Percentage
Good (PASER 10-6)	9.545	44.11%	21.002	67.88%	30.547	58.09%
Fair (PASER 5-4)	6.889	31.83%	9.724	31.43%	16.613	31.59%
Poor (PASER 3-1)	5.206	24.06%	0.216	0.70%	5.422	10.31%
Total	21.64	100.00%	30.942	100.00%	52.582	100.00%

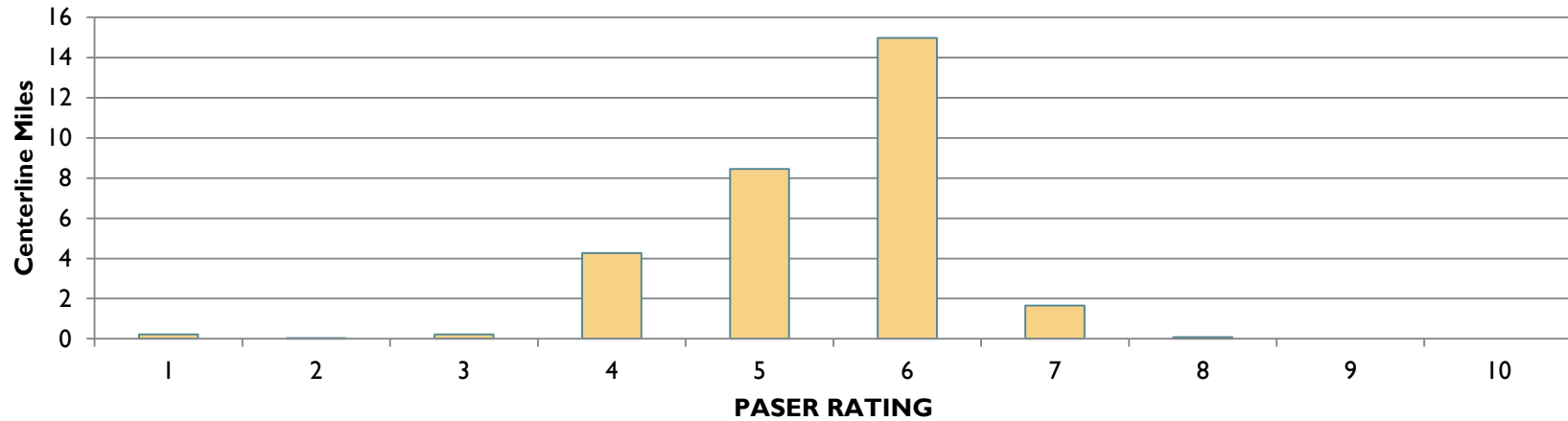


Condition Distribution

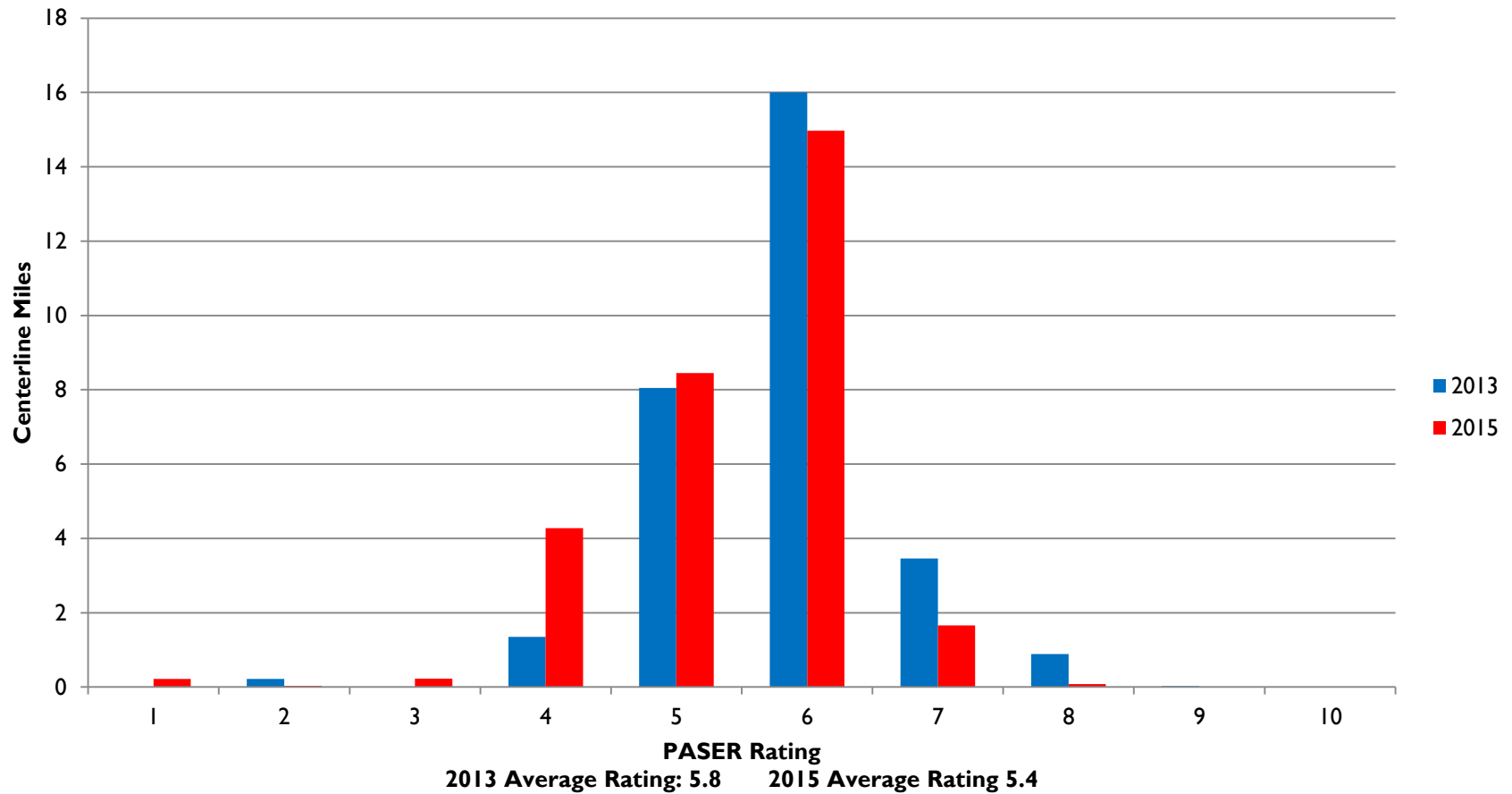
City Major



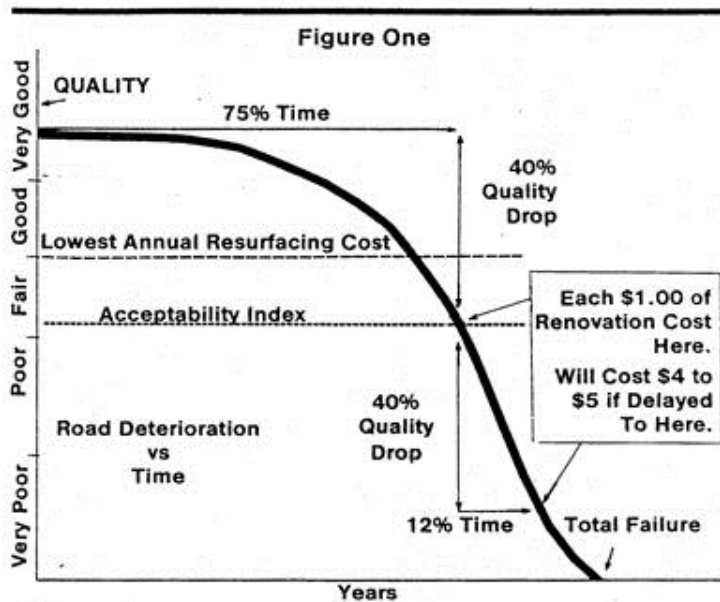
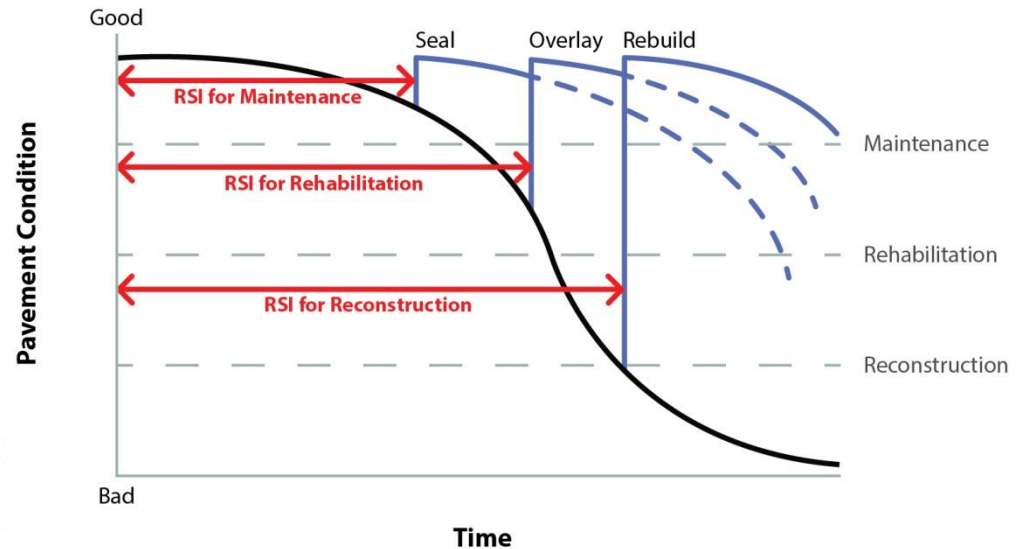
City Local



Local Road Condition Distribution

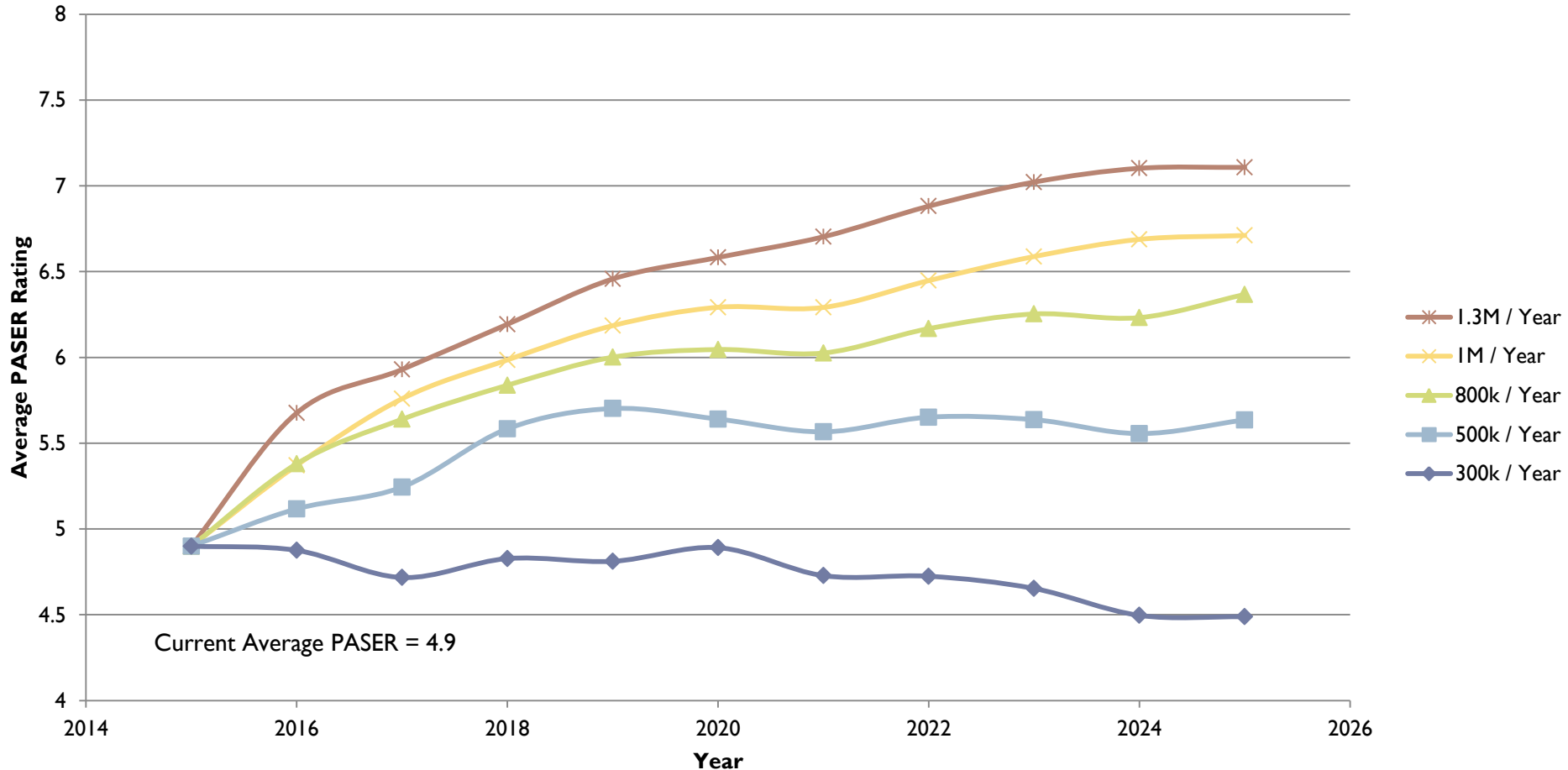


Pavement Deterioration Curves



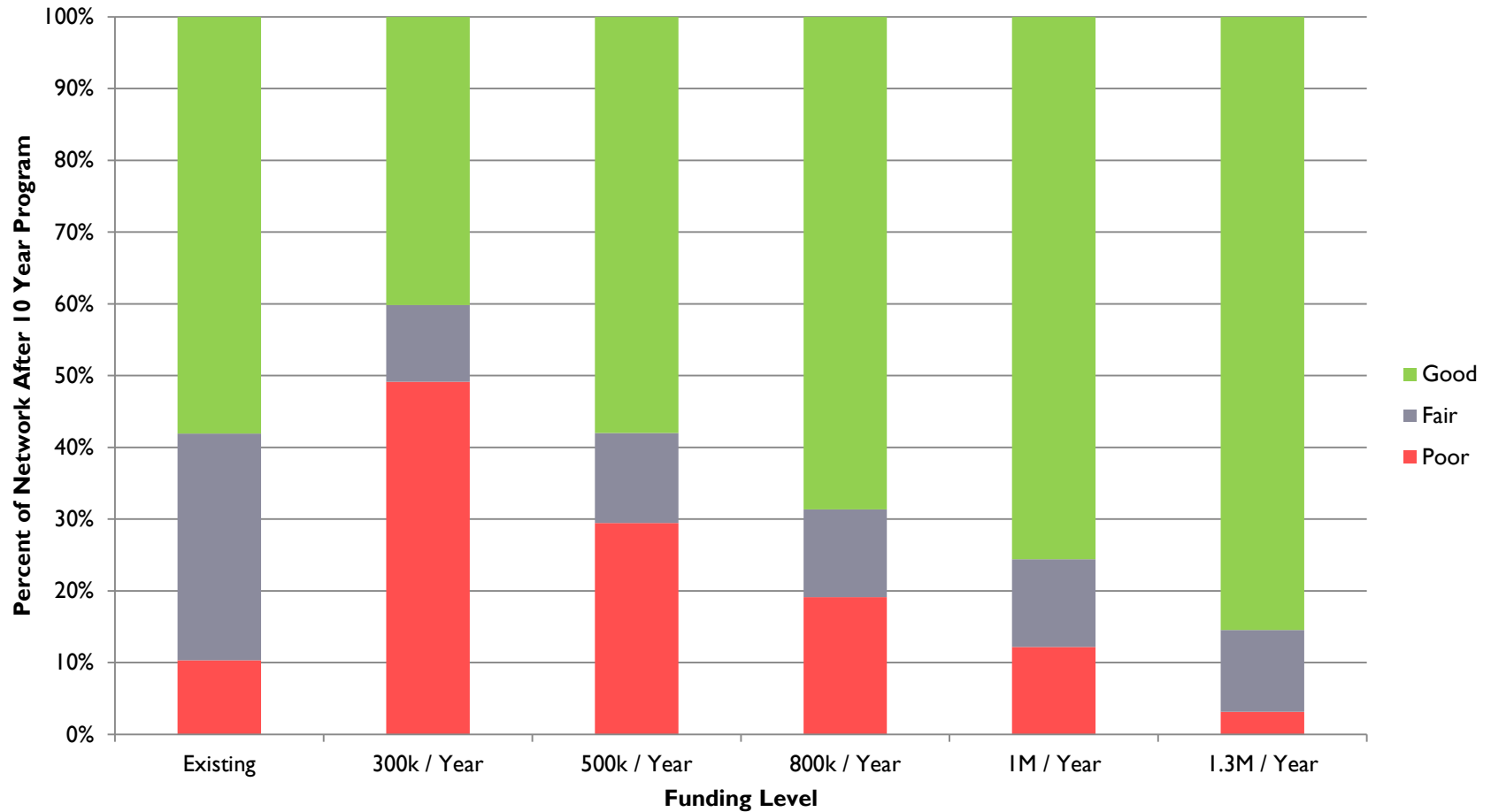
Investment Analysis

Projected Network Condition - Average PASER Rating



Investment Analysis

Projected Condition Distribution



Summary

- ▶ An investment level of approximately \$800k per year will result in an average good condition after 10 years, however, the percentage of roads in poor condition would increase at that funding level.
- ▶ An investment between \$1M and \$1.3M per year is required to maintain the previous investment, and keep up with capital reconstruction needs. This is the minimum level of funding to avoid an increase in roads in poor condition.
- ▶ The model results are based on a program with funding splits approximately as follows:
 - ▶ 15% PM – Crack Seal, Microsurfacing
 - ▶ 20% RH – Overlay, Mill and Overlay, Spot Patching
 - ▶ 65% RC – Reconstruction



Funding Mechanisms

- ▶ STP-U Allocation \$360,000 / Year
- ▶ Countywide Millage (if continued) \$145,000 / Year
- ▶ Assuming the total need of \$1,000,000 - \$1,300,000
- ▶ Remaining \$495,000 - \$795,000 to be funded from City sources
 - ▶ Major Road Fund
 - ▶ Local Road Fund
 - ▶ Metro Act
 - ▶ CDBG
 - ▶ Partner projects (EMU, AATA, WCRC, DDA)
 - ▶ Road Millage
 - ▶ Etc



Potential 'Short Term' Road Program

► 2016 Construction Season: Preventative Maintenance & Light Rehabilitation

Cornell	Washtenaw	Huron River Drive	Spot Repairs
Hamilton Street	Washtenaw	Forest	2.5" HMA Mill and Overlay
Ballard	Michigan Avenue	Forest	Microsurfacing
River	Forest	1200' North	Microsurfacing
First Ave	Harriet	Michigan	Microsurfacing
Forest	Prospect	Osband (City Limit)	Microsurfacing
Washtenaw	Hamilton	Huron	Microsurfacing
Lowell	Forest	Huron River Drive	Microsurfacing

► 2017 Construction Season (FY16/17 & 17/18)

- Major Road Project From List: City has 285k MDOT FY 16 and 360k MDOT FY 17. Total Fed Aid = 645k + 160k City Match = 800k construction project



Major Road Selection List

- ▶ See Handout



Questions / Discussion



City of Ypsilanti - Major Road Summary
Updated September 12, 2015

Federal Aid Eligible Road Summary

PASER*	SEMCOG LRP ID #	PROJECT NAME	LIMITS		Construction Description	Estimated Paving Costs	Estimated Design And Construction Engineering	Total Project Cost	If Done As LAP Job***	
			South / West FROM	North / East TO					Federal Share	City Share
2.5	2308	Cornell	Washtenaw	Huron River Drive	Total Reconstruction - HMA	\$1,797,000	\$522,000	\$2,319,000	\$1,438,000	\$882,000
3	2034	Adams	Pearl	Cross	Total Reconstruction - Concrete	\$453,000	\$132,000	\$585,000	\$363,000	\$223,000
3	2202	Huron	Cross	Lowell	Total Reconstruction - HMA	\$1,342,000	\$390,000	\$1,732,000	\$1,074,000	\$659,000
3	2202	Huron River Drive	Cornell	Lowell	Total Reconstruction - HMA	\$2,453,000	\$712,000	\$3,165,000	\$1,963,000	\$1,203,000
3	4333	Cross W	Courtland	Mansfield	Total Reconstruction - HMA	\$795,000	\$231,000	\$1,026,000	\$636,000	\$390,000
3	4333	Cross W**	Mansfield	Wallace	Total Reconstruction - HMA	\$641,000	\$186,000	\$827,000	\$449,000	\$379,000
3.5	2206	River	Michigan	Forest	Total Reconstruction - HMA	\$1,133,000	\$329,000	\$1,462,000	\$907,000	\$556,000
4	2473	Spring Street	Huron St	Chidester	2.5" HMA Mill and Overlay	\$220,000	\$64,000	\$284,000	\$176,000	\$108,000
4	2468	Cross E	Prospect	East City Limit	2.5" HMA Mill and Overlay	\$228,000	\$67,000	\$295,000	\$183,000	\$113,000
4	2473	Factory	Stewart	Grove	2.5" HMA Mill and Overlay	\$200,000	\$58,000	\$258,000	\$160,000	\$98,000
4	2473	Factory	Grove	Prospect	Total Reconstruction - Concrete	\$351,000	\$102,000	\$453,000	\$281,000	\$173,000
4		Harriett**	First	Hamilton	Total Reconstruction - HMA	\$1,079,000	\$313,000	\$1,392,000	\$756,000	\$637,000
4	2473	Spring Street	Chidester	Catherine	2.5" HMA Mill and Overlay	\$142,000	\$42,000	\$184,000	\$114,000	\$71,000
4	2312	Maus**	Prospect	Emerick	2.5" HMA Mill and Overlay	\$274,000	\$80,000	\$354,000	\$192,000	\$163,000
5	2431	Congress	S. Congress	Ballard	2.5" HMA Mill and Overlay	\$512,000	\$149,000	\$661,000	\$410,000	\$252,000
5		Hamilton Street	Washtenaw	Forest	2.5" HMA Mill and Overlay	\$238,000	\$70,000	\$308,000	\$191,000	\$118,000
5	2431	S. Congress	Mansfield	Congress	2.5" HMA Mill and Overlay	\$194,000	\$57,000	\$251,000	\$156,000	\$96,000
5	2433	Forest	Huron St	Prospect	2.5" HMA Mill and Overlay	\$537,000	\$156,000	\$693,000	\$430,000	\$264,000
5		Ballard	Michigan Avenue	Forest	Microsurfacing	\$57,000	\$17,000	\$74,000	\$46,000	\$29,000
6		River	Forest	1200' North	Microsurfacing	\$35,000	\$11,000	\$46,000	\$28,000	\$18,000
6		First Ave	Harriet	Michigan	Microsurfacing	\$33,000	\$10,000	\$43,000	\$27,000	\$17,000
6		Forest	Prospect	Osband (City Limit)	Microsurfacing	\$30,000	\$9,000	\$39,000	\$24,000	\$15,000
6		Summit	Michigan Avenue	Washtenaw	Microsurfacing	\$51,000	\$15,000	\$66,000	\$41,000	\$26,000
6		Washtenaw	Hamilton	Huron	Microsurfacing	\$23,000	\$7,000	\$30,000	\$19,000	\$12,000
7		Lowell	Forest	Huron River Drive	Microsurfacing	\$44,000	\$13,000	\$57,000	\$36,000	\$22,000

* PASER Rating is a road condition rating from one to ten, with ten being new pavement
** Parking lanes are 100% local responsibility
*** Federal Share is 80% of Construction Cost. City Share is 20% of Construction Cost plus Engineering Cost

Potential 2016 Construction Season Project List

2.5		Cornell	Washtenaw	Huron River Drive	Spot Repairs	\$25,000	\$8,000	\$33,000	\$20,000	\$13,000
5		Hamilton Street	Washtenaw	Forest	2.5" HMA Mill and Overlay	\$238,000	\$70,000	\$308,000	\$191,000	\$118,000
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