

Cheboygan County Road Commission
Mullett Township Local Road Ratings Report for 2018

The goal of the Road Commission is to use Asset Management Strategies when planning projects for the roads under the jurisdiction of the Cheboygan County Road Commission. Asset management, as defined by Public Act 199 of 2007, is an “ongoing process of maintaining, upgrading and operating physical assets cost-effectively, based on a continuous physical inventory and condition assessment. Using asset management will allow the Road Commission and Township to invest the available road funds in a manner that will provide the greatest return.

PASER Road Rating System

All the local paved and gravel roads are rated each year using the PASER Road Rating system in the Township (seasonal roads are not included). PASER, or Pavement Surface Evaluation and Rating, is the rating system that is used in collecting data for RoadSoft. The roads are rated on a scale of 1 to 10 according to surface conditions of the pavement or a scale of 2 to 10 for gravel surfaces. The tables below show the rating and the suggested maintenance that would be required to preserve the road along with an estimated cost of repair.

PASER Rating and Treatments for Paved Roads

Road Rating	Recommended Repair	Estimated Cost per Mile
10	No maintenance necessary. New Road	\$ 0
9	No Maintenance necessary. Smooth Surface.	\$ 0
8	Minor Crack Sealing	\$ 600
7	General Crack Sealing and/or Minor Patching	\$ 3,200
6	Patching and Sealcoat Ultra-thin Asphalt Overlay	\$ 29,000 \$ 63,000
5	Asphalt Wedging Asphalt Wedging and Sealcoat Asphalt Wedging and Ultra-thin Asphalt Overlay	\$ 47,000 \$ 75,000 \$ 106,000
4	Asphalt Wedging and Overlay	\$ 142,000
3	Pulverize, gravel and pave	\$ 240,000
2	Reconstruction.	\$ 350,000
1	Reconstruction. Failed Road.	\$ 350,000

PASER Rating and Treatments for Gravel Roads

Road Rating	Existing Condition / Recommended Repair	Estimated Cost per Mile
10	No maintenance necessary. New Road	\$ 0
8	Good crown and drainage throughout. Adequate gravel for traffic. Maintain with grading and dust control.	\$ 500
6	Existing crown with drainage on 50% or more of roadway. Additional gravel needed in some areas along with ditching.	\$ 45,000
4	Little or no crown. Ditched on less than 50% of the road. Additional gravel needed on entire road along with ditching.	\$ 85,000
2	Failed road. Reconstruction.	\$ 250,000

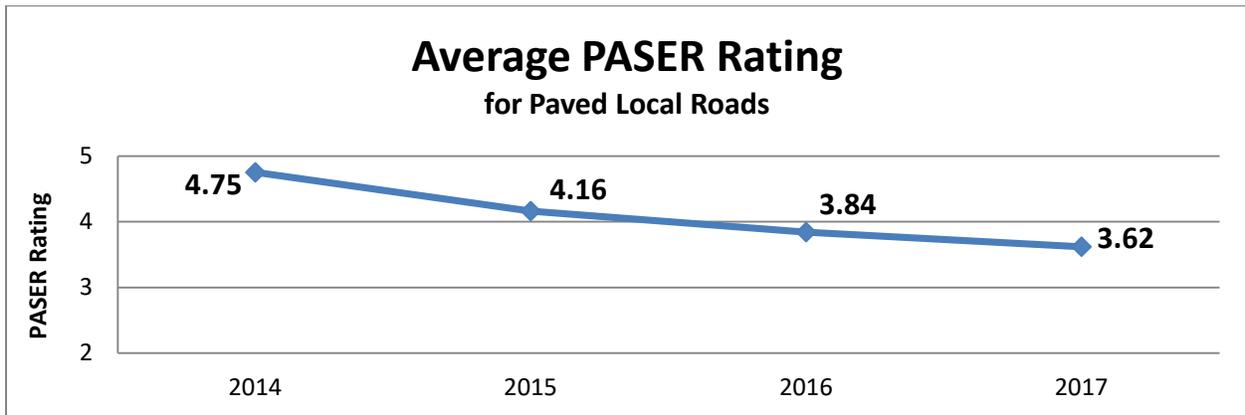
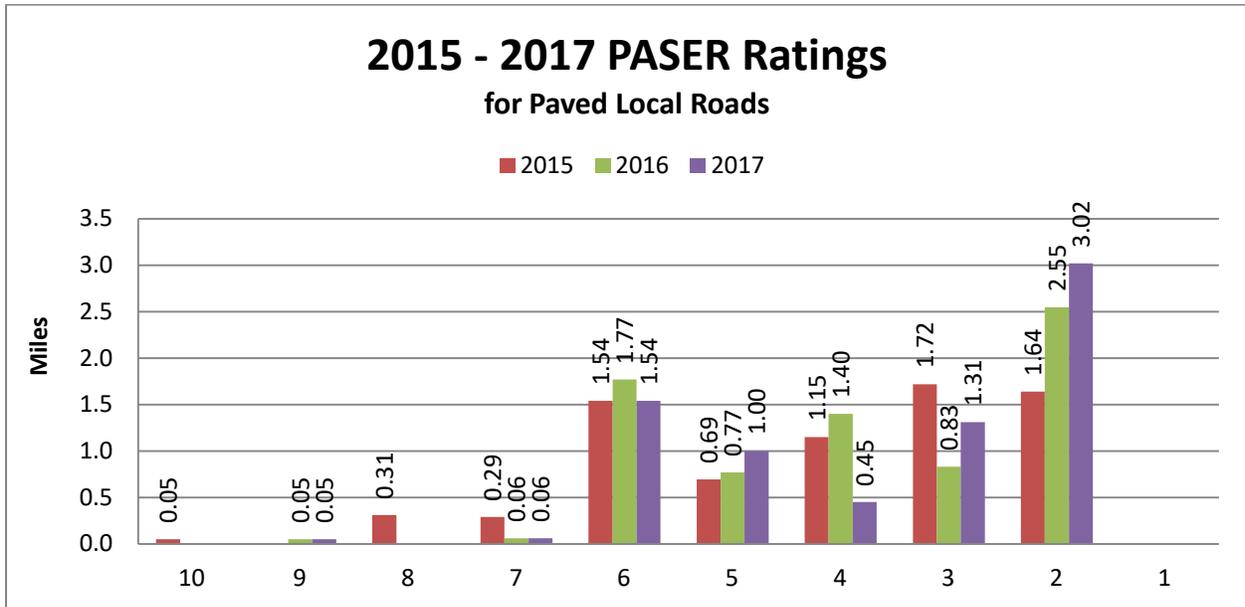
Mullett Township Paved Local Road Ratings

Current Road Ratings

PASER Rating	Road Name	Limits	Length (miles)
10			
9	Woodruff Street	M-27 to Mullett Lake.	0.05
8			
7	South Street	M-27 then southeast to end of road.	0.06
6	Bennett Road	Mullett Township Dump Road to Mullett Burt Road.	1.54
5	Chapman Street	Sutherland Street to Numbers Road.	0.08
	Columbus Street	Bennett Road to Newton Street.	0.06
	Liberty Point Drive	M-27(south) to trail.	0.02
	Newton Street	M-27 to Columbus Street.	0.17
	Patterson Avenue	Numbers Road then southwest to end of road.	0.17
	Sutherland Street	Chapman Street to Patterson Avenue.	0.06
	Wilder Street	Portage Street to Newton Street.	0.19
	Woodruff Street	Bennett Road to M-27.	0.25
4	Birchwood Road (northend)	M-27 to Trail.	0.02
	Lea Street	Topinabee Mail Route to Portage Street.	0.14
	Portage Street	Manchester Street to Woodruff Street.	0.16
	Woodruff Street	Portage Street to Bennett Road	0.13
3	Beeson Street (Bennett Rd)	M-27 to Mullett Township Dump Road.	0.90
	Crescent Street	Topinabee Mail Route to end of pavement.	0.05
	Numbers Road	The Trail to Topinabee Mail Route.	0.29
	Portage Street	M-27 to Manchester Street.	0.07
2	Birchwood Road (southend)	M-27 to Trail.	0.07
	Grandview Beach	Township Line then north to end of public road.	0.12
	Hiawatha Beach Drive	Long Point Drive to Long Point Road.	0.27
	Long Point Drive	M-27 to Hiawatha Beach Drive	0.04

2	Long Point Road Numbers Road Old 27 Highway Ranch Road	Old 27 to trail. South Extension Road to The Trail M-27 to Long Point Drive. Learning Lane to M-27.	0.02 0.47 0.66 1.37
1			

2017 Average PASER Rating for Paved Local Roads 3.62
Average Rating for 2016 3.84



Estimate Cost to Repair Local Paved Roads Based on 2017 PASER Ratings

Road Rating	Miles	Estimated Cost per Mile	Total Cost
10	0	\$ 0	\$ 0
9	0.05	\$ 0	\$ 0
8	0	\$ 600	\$ 0
7	0.06	\$ 3,200	\$ 192
6	1.54	\$ 29,000	\$ 44,660
5	1.00	\$ 47,000	\$ 47,000
4	0.45	\$ 142,000	\$ 63,900
3	1.31	\$ 240,000	\$ 314,400
2	3.02	\$ 350,000	\$ 1,057,000
1	0	\$ 350,000	\$ 0

Total Cost in 2018 = \$ 1,527,152

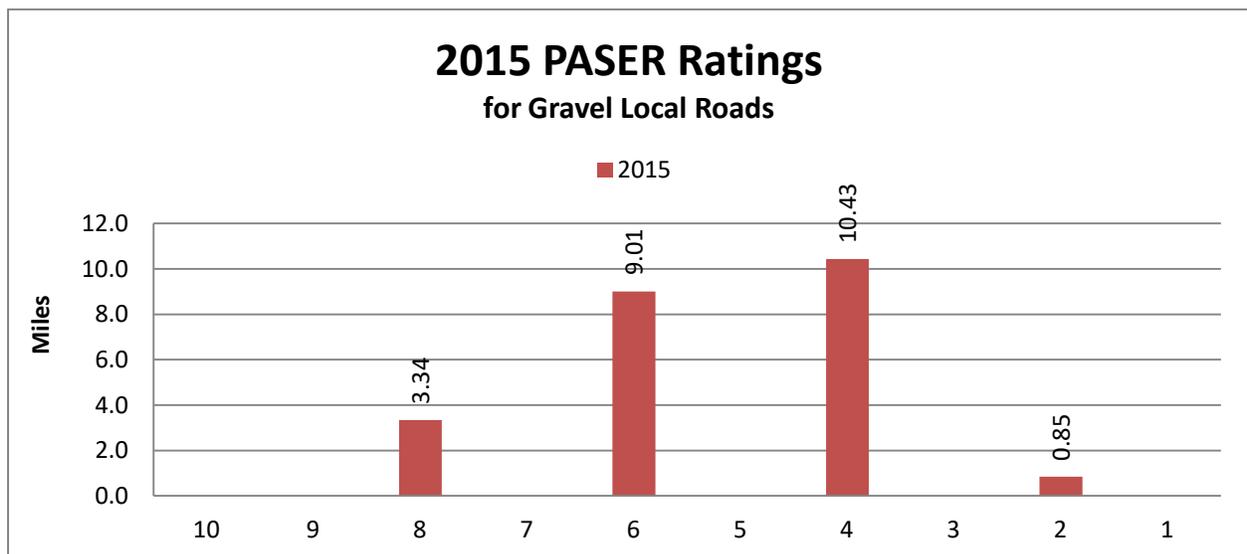
Mullett Township Gravel Local Road Ratings

Current Road Ratings

PASER Rating	Road Name	Limits	Length (miles)
10			
8	Boy Scout Road Jewell Road Old School Road Quail Trail	Devereaux Lake Road to Jewell Road. Devereaux Lake Road then north to end of road. Quail Trail to Derby Road. Cook Road to East Mullett Lake Road.	1.74 0.71 0.75 0.14
6	Birchwood Road Blue Water Drive Cook Road Derby Road Devereaux Lake Road Giauque Beach Drive Hiawatha Beach Drive Lea Street Old School Road South Extension Road Quail Trail Richardson Road Round Bay Drive Tryban Road Woodmansee Road Woodside Park	Richardson Road to Stempky Road. East Mullett Lake Road down the hill and to the north. Quail Trail to Derby Road. Old School Road to Devereaux Lake Road. East Mullet Lake Road to Mullett Lake. M-27 to end pf public road. Long Point Drive to end of public road. Numbers Road to Topinabee Mail Route. East Mullett Lake Road to Quail Trail. Numbers Road then south to seasonal road. Ranch Road then north to seasonal road. ½ miles north of Schramm Road to Cook Road. Tryban Road to Township Line. Boy Scout Road to end of road. M-27 then west to Seasonal Road. Bennett Road to M-27. M-27 then east to end of road.	1.00 0.30 0.75 1.01 0.13 0.22 0.22 0.11 0.65 0.30 0.30 1.06 1.01 0.07 0.50 1.18 0.20
4	Birchwood Drive Birchwood Road	Trail to Trail. South Extension Road to Seasonal Road. Sierra Leone to Richardson Road. Stempky Road to M-27	0.91 0.41 0.54 0.42

4	Blue Water Drive	Bottom of hill to the south.	0.17
	Blue Water Road	East Mullett Lake Road to end of road.	0.25
	Brown Road	Devereaux Lake Road then north to end of road.	0.17
	Clifford Street	East Grand Street to end of road.	0.14
	Columbine Street	West Street to Topinabee Mail Route.	0.11
	Columbus Street	Newton Street to end of road.	0.08
	Crescent Street	End of pavement to Portage Street.	0.12
	Dick Street	East Grand Street to end of road.	0.14
	East Grand Boulevard	Numbers Road to Thompson Drive	0.30
	Liberty Point Drive	M-27 to M-27.	0.43
	Long Point Road	North Straits to end of road.	0.62
	Mullett Township Dump Road	Bennett Road then west to end of road.	0.52
	Newton Street	Columbus Street then north to end of road.	0.06
	Orwin Street	The Trail Road to East Grand Blvd.	0.20
	Phelps Street	Pruym Street to Woodruff Street.	0.13
	Pruym Street	Portage Street to Phelps Street.	0.06
	Quail Trail	Schramm Road then ½ mile north.	0.50
	Richardson Road	Mullett-Burt Road to Tryban Road.	1.07
	Round Point Drive	Boy Scout Road to Boy Scout Road.	0.23
	Schramm Road	East Mullett Lake Road to Quail Trail	0.75
	Sierra Leone	Birchwood Road then north to end of road.	0.31
	The Trail Road	Orwin Street to Numbers Road.	0.53
	Stempky Road	Tryban Road north to Township Line.	1.00
West Street	Numbers Road to Columbine Street.	0.09	
Woodruff Street	Topinabee Mail Route to Portage Street.	0.17	
2	East Grand Boulevard	Thompson Drive to end of road.	0.29
	Manchester Drive	Topinabee Mail Route to Portage Street.	0.12
	The Trail Road	South Extension Road to Orwin Street.	0.44

Average PASER Rating for Gravel Local Roads 5.26



Service Life of Treatments

Service life is the expected time that a treatment will last before needing complete reconstruction. In the table below, an expected service life for a particular treatment is listed. Before a treatment reaches the expected service life, preventative maintenance should be performed. Preventative maintenance will extend the expected service life of the pavement and treatment.

Service Life of Treatments for Paved Roads

Road Rating	Recommended Repair	Expected Service Life (years)
8	Minor Crack Sealing	5
7	General Crack Sealing and/or Minor Patching	5
6	Patching and Sealcoat	7
	Ultra-thin Asphalt Overlay	7 – 10
5	Asphalt Wedging	7
	Asphalt Wedging and Sealcoat	7 – 10
	Asphalt Wedging and Ultra-thin Asphalt Overlay	10
4	Asphalt Wedging and Overlay	12 – 15
3	Pulverize, gravel and pave	15 – 25
2	Reconstruction.	25 - 30
1	Reconstruction. Failed Road.	25 - 30

For example, if a road has a PASER rating of 6, a treatment of a ultra-thin asphalt overlay is recommended (see the Table titled PASER Ratings and Treatment on page 1). The expected service life for an ultra-thin asphalt overlay is 7-10 years. Preventative maintenance in the form of crack sealing may be required after 2 years.

Expected service life may be shorter if the road is on poor soils that are not addressed as part of the treatment. If a project is selected that is not the recommended treatment, the service life listed in the table above will be shorter and preventative maintenance will need to be performed sooner.

Service Life for a gravel road is difficult to predict. Gravel road conditions can change rapidly based on weather, grading and traffic effects on the roads.