

Cheboygan County Road Commission
Nunda 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	\$ 29,000
	Ultra-thin Asphalt Overlay	\$ 63,000
5	Asphalt Wedging	\$ 47,000
	Asphalt Wedging and Sealcoat	\$ 75,000
	Asphalt Wedging and Ultra-thin Asphalt Overlay	\$ 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

Nunda Township Paved Local Road Ratings

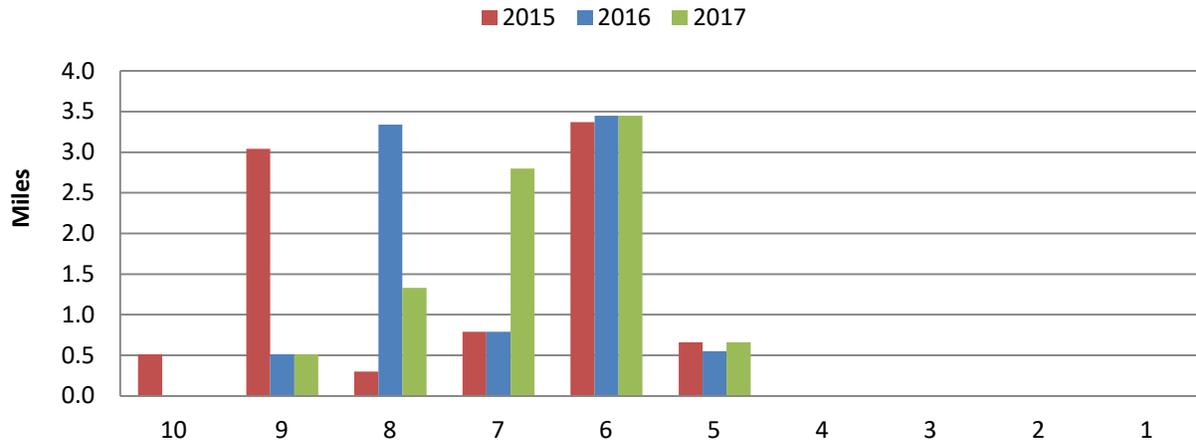
Current Road Ratings

PASER Rating	Road Name	Limits	Length (miles)
10			
9	Webb Road	Afton Road to Square Trail.	0.51
8	Lance Lake Road Molineaux Road	Molineaux Road to Cousins Trail. Lance Lake Road to Wurm Road.	0.30 1.03
7	Lance Lake Road Molineaux Road	Cousins Trail to Lakeview Drive. Wurm Road to Webb Road.	0.79 2.01
6	Lakeway Drive Lakeview Drive Northview Drive Valley Drive Wurm Road	Northview Drive to Valley Road. Lance Lake Road to Wurm Road. Lance Lake Road to Lakeway Drive. Lakeway Drive to Wurm Road. Valley Drive to Lakeview Drive.	0.52 1.44 0.32 0.87 0.30
5	Wurm Road	Molineaux Road to Valley Drive.	0.66
4			
3			
2			
1			

2017 Average PASER Rating for Paved Local Roads 6.98

2016 Average 6.98

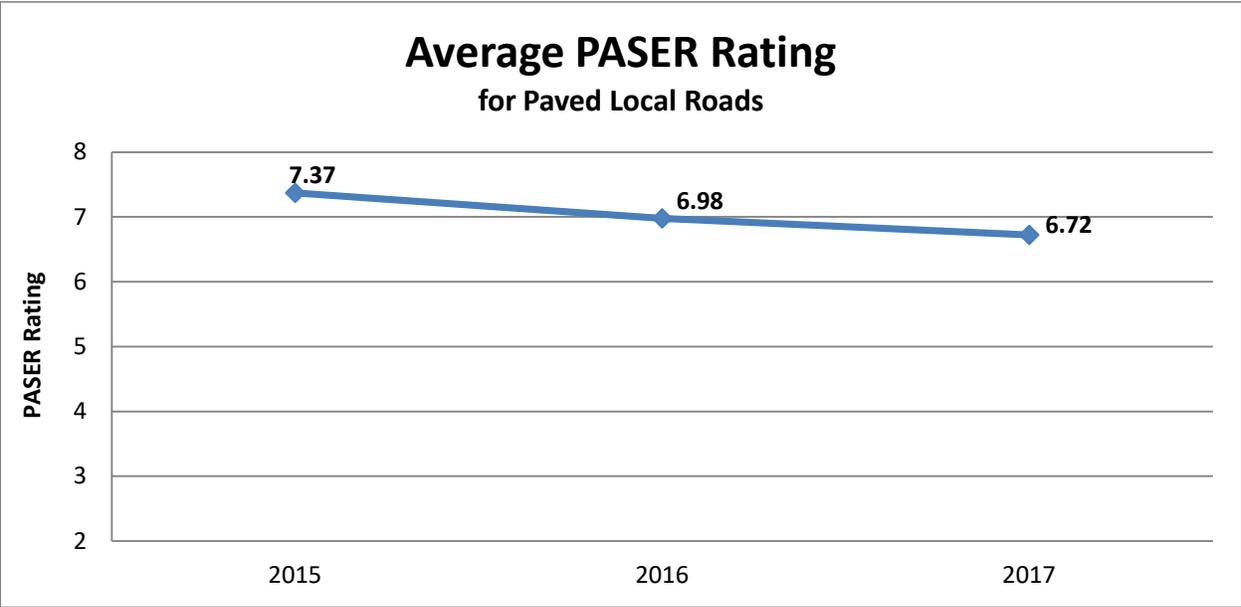
2015 - 2017 PASER Ratings for Paved Local Roads



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	0.51	\$ 0	\$ 0
8	1.33	\$ 600	\$ 798
7	2.80	\$ 3,200	\$ 8,960
6	3.45	\$ 63,000	\$ 217,350
5	0.66	\$ 47,000	\$ 31,020
4	0	\$ 142,000	\$ 0
3	0	\$ 240,000	\$ 0
2	0	\$ 350,000	\$ 0
1	0	\$ 350,000	\$ 0

Total Cost in 2018 = \$ 258,128



Nunda Township Gravel Local Road Ratings

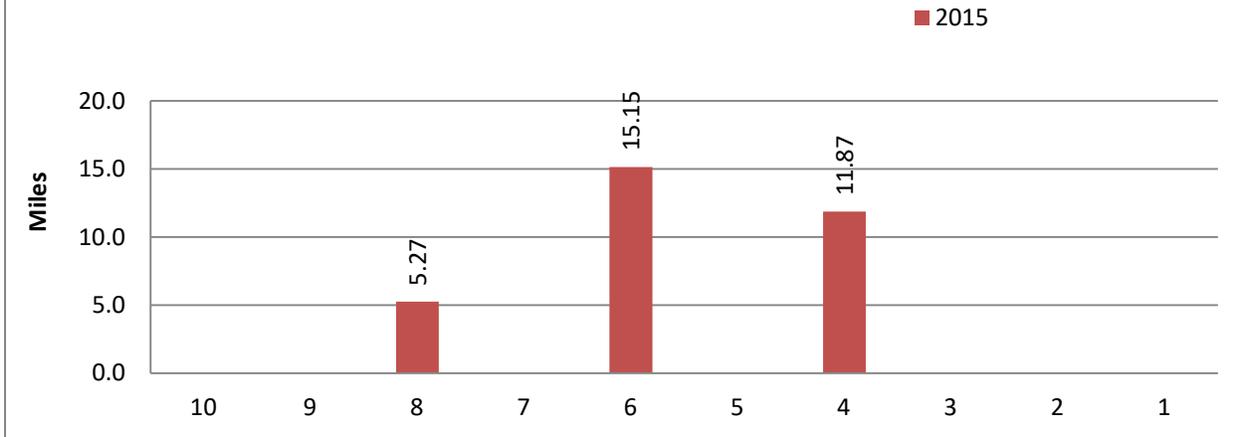
Current Road Ratings

PASER Rating	Road Name	Limits	Length (miles)
10			
8	Avenue-Du-Chalet	Mont Gabriel Road south to end of public road.	0.46
	Burrows Road	West end of road to Seasonal Road.	1.68
	Chemin-De-La-Montagne	Wurm Road to Avenue-Du-Chalet.	0.52
	Grange Hall Road	Molineaux Road to end of road.	0.50
	Lance Lake Road	Trowbridge Road to Molineaux Road.	0.80
	Lakeview Road	Lakeview Road to Ericson's Road.	0.59
	Pine Court	Lance Lake Road to Lance Lake Road.	0.22
	Webb Road	Square Trail to Congdon Road.	0.50
6	Ash Drive	Mont Gabriel to Aspen Drive.	0.28
	Aspen Drive	End of public road to Spruce Drive.	0.23
	Birch Drive	Lakeview Drive to Maple Glen Drive.	0.32
	Chalet Drive	Spruce Drive to Mont Gabriel Road.	0.30
	East Perry Road	Trowbridge Road change in road condition.	0.39
	Golfcrest Drive	Secord Road to end of road.	0.33
	Golfview Drive	Valley Drive to Wurm Road.	0.42
	Hester Lane	Molineaux Road to Elk Trail.	0.25
	Island Drive	Lakeview Drive to Island Drive.	0.75
	Lakeway Drive	Lakeway Drive to turn around.	0.08
		Valley Drive to Par Four Drive.	0.05
	Lance Lake Road	Ericson's Road to Sky Trail Drive.	0.50

	Maple Glen Drive	Hill Top Drive to Wurm Road.	0.13
	Mont Gabriel Road	Wurm Road to end of road.	1.13
	Munger Road	Webb Road to Township Line.	0.50
	Oak Drive	Chalet Drive to end of road.	0.04
	River Line Drive	Ridgeline Drive to Timber Line Drive.	0.94
	Riverview Drive	Shoreline Drive to end of road.	0.03
	Secord Road	Molineaux Road to Lakeway Drive.	0.60
	Shann Road	Webb Road to Township Line.	1.00
	Shoreline Drive	Entire road.	1.15
	Sky Trail Drive	Lance Lake Road to River Line Drive.	0.05
	Sloans Road	Afton Road to seasonal road.	0.21
	Timber Line Drive	Sky Trail Drive to end of road.	0.94
	Webb Road	Congdon Road to Goose Pond Road.	3.43
	Wurm Road	Lakeview Drive to T-Bar Drive	1.10
4	Clarks Bridge Road	Osmun Road to Township Line.	1.23
	Congdon Road	Woodchuck Road to Webb Road.	0.50
	Duby Road	Trowbridge Road to end of road.	0.15
	East Perry Road	Change if road condition westerly to Township Line	1.55
	Evergreen Drive	Ridgeline Drive to end of road.	0.21
	Freeway Trail	Trowbridge Road to end of road.	0.34
	Glen Rose Drive	River Line Drive to end of road.	0.14
	Hill Top Drive	Maple Glen Drive to end of road.	0.16
4	Maple Glen Drive	T-Bar Drive to Hill Top Drive.	0.30
	Secord Road	Molineaux Road west to seasonal road.	0.23
	Spruce Drive	Aspen Drive to Mont Gabriel Road.	0.28
	Square Trail	Webb Road then north 0.21 miles.	0.21
	Ridge Line Drive	Timber Line Drive to River Line Drive.	0.16
	T-Bar Drive	Lakeview Drive to end of public road.	0.41
	Webb Road	Goose Pond Road to Osmun Road.	3.87
	Webber Road	Webb Road north to Township line.	1.27
	Woodchuck Road	Congdon Road to Burrows Road.	0.86
2	Golfview Drive	Golfview Drive to turn around.	0.05
	Par Four Drive	Secord Road to Valley Drive.	0.24

Average PASER Rating for Gravel Local Roads 5.59

2015 PASER Ratings for Gravel Local Roads



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.