

MEMORANDUM



DATE: March 2, 2020
TO: Representative Matt Maddock
FROM: William E. Hamilton
RE: Local Road Agency Pavement Condition Data

In response to your question on local road agency pavement conditions, I called Joanna Johnson, Manager of the Road Commission of Kalamazoo County, and Chair of the Transportation Asset Management Council (TAMC). Ms. Johnson directed me to the TAMC website for data on local road agency pavement conditions.

TAMC oversees road condition data collection, ensures data integrity, maintains data, and provides data reporting. In addition to an annual report which summarizes TAMC activities and reports statewide pavement condition, TAMC maintains a publicly accessible website with an interactive pavement condition dashboard/search tool. We used this tool to obtain the most current (2018) pavement condition information for each of the 83 counties.

This information is included in the attached spreadsheet/table. We have also enclosed a copy of the most recent (2018) TAMC annual report.

All counties report data to TAMC using the same pavement evaluation tool, the Pavement Surface Evaluation and Rating system (PASER). TAMC also has quality assurance/quality control procedures to ensure data consistency and integrity. For example, TAMC provides PASER training to evaluators; evaluators work in 3-person teams to minimize errors or subjective evaluations; TAMC uses an independent third-party contractor to validate data. Pavement condition data obtained from the TAMC dashboard appears to be highly reliable and provides a good “apples-to-apples” comparison across all 83 Michigan counties.

TAMC has been collecting and reporting on pavement condition for a number of years. The TAMC dashboard includes nine years of data (2010 through 2018). This allows users to observe trendlines in statewide pavement condition, as well as trends for specific jurisdictions.

It should be noted that since its creation in statute in 2002 (2002 PA 499), the focus of TAMC data collection and reporting is the federal-aid eligible system. Federal-aid eligible roads are roads that have certain functional classification, generally connecting roads and streets. Local subdivision streets or rural local roads are generally not within the federal-aid eligible system. As a result, the TAMC data is not complete; all counties report on federal-aid eligible roads but not all counties report on non-federal-aid eligible roads.

As an example, the Road Commission for Oakland County (RCOC) has jurisdiction over 2,813 centerline road miles, of which 960 miles are on the federal-aid system. Of the 960 federal aid miles, 865 are rated and reported on the TAMC dashboard. This represents 30.7% of centerline miles and 90.0% of federal-aid eligible road miles.

The term “lane miles” recognizes that some roads have multiple lanes. A four-lane boulevard has four times as many lane miles as centerline miles. Many federal-aid eligible roads have multiple lanes. There are 6,164 lane miles under RCOC jurisdiction, of which 2,433 are on the federal-aid system. Of

the 2,433 federal-aid system lane miles, 2,208 are rated and reported on the TAMC dashboard. This represents 35.8% of total lanes miles and 90.8% of federal-aid eligible roads.

In addition to TAMC reports, we have also enclosed a copy of an appendix to a 2019 publication of the County Road Association of Michigan, 2019 Michigan County Road Investment Plan. The appendix shows pavement condition for all 83 counties broken out by federal-aid miles and non-federal-aid miles. This report appears to use 2019 PASER ratings for federal-aid miles but uses centerline miles as the reporting unit. The report also uses centerline miles for non-federal-aid miles, but the reporting for the non-federal-aid system does not appear to be consistent across all counties. The report indicates that non-federal aid road data was not available for nine counties.

If you're interested in learning more about TAMC, it may be helpful to invite TAMC members and TAMC staff to present to the subcommittee on TAMC data collection activities, what the data represents, and pavement condition trends over the last eight years.

Attachment

COUNTY ROAD COMMISSION PAVEMENT CONDITION DATA BY COUNTY

Paser Rating Year	County	Centerline Miles			Centerline Miles			Lane Miles			Federal-Aid Lane Miles Rated			Federal-Aid Lane Miles Rated %			Lane Miles	
		Total	Federal Aid	Total Rated Fed Aid	Total Good Federal Aid	Total Fair Federal Aid	Total Poor Federal Aid	Total Lane Miles (2014)	Total Fed Aid Lane Miles	Total Rated Fed Aid Lane Miles	Total Good Federal Aid Lane Miles	Total Fair Federal Aid Lane Miles	Total Poor Federal Aid Lane Miles	% Good Federal Aid Lane Miles	% Fair Federal Aid Lane Miles	% Poor Federal Aid Lane Miles	% of Total System Rated	% of Federal Aid System Rated
2018	Alcona	738.96	217.57	157.91	29.16	49.54	79.21	1457.389	435.92	316.61	59.10	99.09	158.42	18.67	31.3	50.04	21.7%	72.6%
2018	Alger	484.96	179.50	152.32	51.45	41.94	58.93	969.635	358.70	304.65	102.90	83.88	117.87	33.78	27.53	38.69	31.4%	84.9%
2018	Allegan	1,818.77	501.48	384.18	77.24	93.61	213.34	3638.996	984.70	774.97	156.65	187.85	430.47	20.21	24.24	55.55	21.3%	78.7%
2018	Alpena	667.47	220.01	187.53	65.62	75.29	46.63	1337.188	441.99	377.04	132.12	151.67	93.26	35.04	40.23	24.73	28.2%	85.3%
2018	Antrim	873.77	207.11	177.22	43.09	36.59	97.54	1747.728	414.21	354.44	86.18	73.19	195.07	24.31	20.65	55.04	20.3%	85.6%
2018	Arenac	641.63	182.33	136.35	36.99	37.56	61.81	1,290.76	364.19	272.71	73.98	75.11	123.61	27.13	27.54	45.33	21.1%	74.9%
2018	Baraga	486.76	118.54	118.47	27.90	39.20	51.37	973.60	237.16	237.02	55.86	78.42	102.73	23.57	33.09	43.34	24.3%	99.9%
2018	Barry	1,095.44	338.11	334.70	169.87	136.21	28.61	2,199.08	677.26	670.43	340.90	272.81	56.73	50.85	40.69	8.46	30.5%	99.0%
2018	Bay	1,061.93	344.82	284.09	36.65	73.13	174.32	2,149.45	713.17	593.17	77.36	158.33	357.49	13.04	26.69	60.27	27.6%	83.2%
2018	Benzie	632.39	174.20	148.02	44.70	43.11	60.21	1,262.15	346.17	296.03	89.40	86.21	120.42	30.2	29.12	40.68	23.5%	85.5%
2018	Berrien	1,481.46	468.82	356.95	33.53	59.40	264.01	3,024.25	1,011.71	787.40	70.77	128.01	588.61	8.99	16.26	74.75	26.0%	77.8%
2018	Branch	1,023.30	356.43	302.64	13.56	160.44	128.63	2,047.37	711.98	606.51	27.12	321.08	258.31	4.47	52.94	42.59	29.6%	85.2%
2018	Calhoun	1,327.22	462.22	320.19	59.99	93.12	167.07	2,672.00	835.06	658.05	125.07	194.36	338.63	19.01	29.54	51.46	24.6%	78.8%
2018	Cass	1,023.94	268.21	221.98	36.70	42.55	142.73	2,042.91	537.85	445.53	73.87	85.79	285.86	16.58	19.26	64.16	21.8%	82.8%
2018	Charlevoix	713.38	180.14	164.19	54.50	46.48	63.21	1,423.17	361.63	329.73	109.38	93.93	126.43	33.17	28.49	38.34	23.2%	91.2%
2018	Cheboygan	1,131.90	240.75	202.12	31.19	36.64	134.29	2,259.00	477.86	404.24	62.38	73.28	268.58	15.43	18.13	66.44	17.9%	84.6%
2018	Chippewa	1,279.50	361.56	344.51	40.00	169.62	134.89	2,556.33	720.06	689.42	80.01	339.63	269.78	11.61	49.26	39.13	27.0%	95.7%
2018	Clare	1,005.40	240.98	150.58	42.38	62.49	45.70	2,013.62	302.49	301.22	84.84	124.99	91.40	28.16	41.49	30.34	15.0%	99.6%
2018	Clinton	1,200.72	344.63	344.53	108.18	138.22	98.13	2,408.00	700.54	700.34	218.97	283.01	198.36	31.27	40.41	28.32	29.1%	100.0%
2018	Crawford	718.27	193.50	147.07	12.13	35.18	99.76	1,436.19	387.00	294.13	24.27	70.35	199.52	8.25	23.92	67.83	20.5%	76.0%
2018	Delta	886.01	350.68	235.75	54.44	67.07	114.24	1,772.49	700.42	471.81	109.12	134.09	228.60	23.13	28.42	48.45	26.6%	67.4%
2018	Dickinson	525.21	183.05	155.45	18.56	33.77	103.12	1,080.18	359.35	311.44	37.11	67.54	206.78	11.92	21.69	66.4	28.8%	86.7%
2018	Eaton	1,201.20	382.36	382.36	16.49	57.33	308.54	2,446.44	833.67	833.67	43.00	135.25	655.41	5.16	16.22	78.62	34.1%	100.0%
2018	Emmet	829.20	226.49	199.79	30.44	79.85	89.50	1,660.99	451.27	401.50	62.42	160.07	179.01	15.55	39.87	44.58	24.2%	89.0%
2018	Genesee	1,621.92	486.81	486.42	28.97	250.34	207.11	3,497.41	1,212.43	1,212.43	93.66	666.90	451.87	7.72	55.00	37.27	34.7%	100.0%
2018	Gladwin	880.88	214.42	200.95	61.67	84.23	55.06	1,761.72	403.31	401.90	123.34	168.45	110.11	30.69	41.91	27.4	22.8%	99.7%
2018	Gogebic	593.19	233.79	186.81	33.10	80.08	73.63	1,181.86	463.14	373.99	66.20	160.52	147.27	17.7	42.92	39.38	31.6%	80.7%
2018	Grand Traverse	1,021.58	260.87	219.63	77.00	53.61	89.01	2,069.78	533.59	471.50	166.02	110.27	195.21	35.21	23.39	41.4	22.8%	88.4%
2018	Gratiot	1,226.27	364.95	322.14	93.22	154.74	74.19	2,458.23	650.88	650.88	186.95	309.48	154.45	28.72	47.55	23.73	26.5%	100.0%
2018	Hillsdale	1,204.70	367.14	279.87	37.47	71.63	170.77	2,425.18	725.21	559.74	74.94	143.25	341.55	13.39	25.59	61.02	23.1%	77.2%
2018	Houghton	829.05	310.55	207.66	33.54	52.05	122.07	1,655.49	620.32	415.77	67.08	101.05	247.64	16.13	24.3	59.56	25.1%	67.0%
2018	Huron	1,635.59	352.17	330.89	49.68	155.10	126.12	3,271.10	661.88	661.88	99.35	310.30	252.23	15.01	46.88	38.11	20.2%	100.0%
2018	Ingham	1,278.16	388.18	371.80	73.79	173.05	124.96	2,647.82	860.97	828.95	162.59	376.91	289.46	19.61	45.47	34.92	31.3%	96.3%
2018	Ionia	1,102.01	382.63	266.28	98.70	72.79	94.79	2,202.91	678.41	532.44	197.40	145.95	189.09	37.08	27.41	35.51	24.2%	78.5%
2018	Iosco	871.61	238.96	232.49	29.03	88.60	114.86	1,682.09	471.80	471.80	58.06	178.59	235.15	12.31	37.85	49.84	28.0%	100.0%
2018	Iron	628.05	263.98	152.09	33.04	52.71	66.34	1,251.65	518.79	306.25	66.08	105.42	134.75	21.58	34.42	44.00	24.5%	59.0%
2018	Isabella	1,192.29	371.04	216.88	48.53	61.96	106.39	2,403.69	447.03	447.03	98.62	130.76	217.65	22.06	29.25	48.69	18.6%	100.0%
2018	Jackson	1,607.02	550.28	381.16	83.38	152.05	145.72	3,225.95	1,135.51	798.45	167.89	321.50	309.06	21.03	40.27	38.71	24.8%	70.3%
2018	Kalamazoo	1,278.68	421.60	381.98	154.21	175.44	52.33	2,622.05	895.48	816.51	332.47	376.77	107.28	40.72	46.14	13.14	31.1%	91.2%
2018	Kalkaska	856.77	225.08	177.59	42.50	34.81	100.27	1,714.29	450.94	355.94	85.01	70.39	200.54	23.88	19.78	56.34	20.8%	78.9%
2018	Kent	1,997.50	650.24	649.72	159.83	288.48	201.41	4,189.19	1,512.44	1,511.04	389.62	675.21	446.22	25.78	44.69	29.53	36.1%	99.9%
2018	Keweenaw	172.73	91.16	67.51	14.55	30.51	22.45	341.62	182.31	135.02	29.10	61.03	44.90	21.55	45.20	33.25	39.5%	74.1%
2018	Lake	1,005.16	238.66	225.59	46.80	40.60	138.19	2,019.54	468.65	460.64	100.24	82.11	278.29	21.76	17.83	60.41	22.8%	98.3%

COUNTY ROAD COMMISSION PAVEMENT CONDITION DATA BY COUNTY

Paser Rating Year	County	Centerline Miles			Centerline Miles			Lane Miles			Federal-Aid Lane Miles Rated			Federal-Aid Lane Miles Rated %			Lane Miles	
		Total	Federal Aid	Total Rated Fed Aid	Total Good Federal Aid	Total Fair Federal Aid	Total Poor Federal Aid	Total Lane Miles (2014)	Total Fed Aid Lane Miles	Total Rated Fed Aid Lane Miles	Total Good Federal Aid Lane Miles	Total Fair Federal Aid Lane Miles	Total Poor Federal Aid Lane Miles	% Good Federal Aid Lane Miles	% Fair Federal Aid Lane Miles	% Poor Federal Aid Lane Miles	% of Total System Rated	% of Federal Aid System Rated
2018	Lapeer	1,339.28	359.12	294.69	35.52	28.21	230.97	2,680.89	716.44	591.43	72.13	56.74	462.56	12.2	9.59	78.21	22.1%	82.6%
2018	Leelanau	586.64	168.09	136.72	51.44	54.62	30.66	1,180.56	328.40	273.44	102.87	109.25	61.33	37.62	39.95	22.43	23.2%	83.3%
2018	Lenawee	1,547.80	495.68	340.42	121.86	101.11	117.44	3,100.64	963.48	677.67	241.10	202.30	234.27	35.58	29.85	34.57	21.9%	70.3%
2018	Livingston	1,363.83	421.74	347.43	87.53	97.72	162.17	2,764.83	883.40	738.91	191.65	211.45	335.81	25.94	28.62	45.45	26.7%	83.6%
2018	Luce	391.99	138.57	72.40	8.89	44.73	18.77	782.06	229.75	144.80	17.79	89.47	37.54	12.28	61.79	25.93	18.5%	63.0%
2018	Mackinac	645.24	244.43	205.98	38.68	130.86	36.43	1,289.72	488.86	411.95	77.37	261.72	72.86	18.78	63.53	17.69	31.9%	84.3%
2018	Macomb	1,772.38	563.25	526.51	84.78	120.83	320.91	3,896.73	1,528.49	1,454.85	275.47	393.91	785.47	18.93	27.08	53.99	37.3%	95.2%
2018	Manistee	1,059.77	266.78	265.46	24.36	60.21	180.90	2,057.26	533.31	530.72	48.71	120.42	361.59	9.18	22.69	68.13	25.8%	99.5%
2018	Marquette	1,245.86	261.20	227.41	46.76	74.98	105.67	2,500.43	504.59	461.58	96.93	151.22	213.43	21	32.76	46.24	18.5%	91.5%
2018	Mason	958.32	228.63	213.45	44.40	34.88	134.18	1,923.09	464.84	434.48	89.56	76.19	268.73	20.61	17.53	61.85	22.6%	93.5%
2018	Mecosta	1,143.08	274.82	246.10	55.35	66.15	124.61	2,293.19	544.24	495.54	111.86	132.30	251.38	22.57	26.7	50.73	21.6%	91.1%
2018	Menominee	1,114.75	431.30	312.22	36.37	94.78	181.07	2,232.86	821.91	624.70	73.00	189.56	362.14	11.68	30.34	57.97	28.0%	76.0%
2018	Midland	900.97	317.13	313.69	55.24	206.52	51.93	1,806.67	632.52	631.28	110.79	414.38	106.11	17.55	65.64	16.81	34.9%	99.8%
2018	Missaukee	875.29	222.00	213.66	66.69	77.31	69.66	1,748.93	444.02	428.61	133.37	155.77	139.47	31.12	36.34	32.54	24.5%	96.5%
2018	Monroe	1,346.46	384.32	378.45	159.96	97.97	120.52	2,726.00	796.04	784.31	328.43	204.88	251.00	41.87	26.12	32	28.8%	98.5%
2018	Montcalm	1,546.39	374.92	373.60	114.19	92.18	167.23	3,091.10	748.46	746.30	229.37	184.36	332.57	30.73	24.7	44.56	24.1%	99.7%
2018	Montmorency	650.42	174.13	111.27	22.33	44.37	44.57	1,302.67	350.12	224.41	44.66	90.61	89.14	19.9	40.38	39.72	17.2%	64.1%
2018	Muskegon	1,131.36	374.76	321.40	120.29	85.31	115.80	3,237.72	769.92	663.06	252.07	176.32	234.67	38.02	26.59	35.39	20.5%	86.1%
2018	Newaygo	1,449.29	346.18	332.21	64.16	65.21	202.84	2,814.38	676.08	665.46	128.31	130.45	406.69	19.28	19.6	61.11	23.6%	98.4%
2018	Oakland	2,813.09	960.52	864.68	130.17	219.45	515.06	6,164.98	2,433.05	2,207.86	316.86	577.35	1,313.64	14.35	26.15	59.5	35.8%	90.7%
2018	Oceana	1,106.83	277.40	247.12	48.47	40.01	158.64	2,211.41	495.35	495.35	97.76	80.02	317.57	19.74	16.15	64.11	22.4%	100.0%
2018	Ogemaw	849.62	223.31	169.68	31.29	70.36	68.03	1,513.54	351.53	339.54	62.76	140.73	136.05	18.48	41.45	40.07	22.4%	96.6%
2018	Ononagon	590.11	215.11	160.71	51.98	17.34	91.39	1,179.24	429.30	320.49	102.51	35.21	182.77	31.98	10.99	57.03	27.2%	74.7%
2018	Osceola	947.68	257.62	241.54	55.85	99.81	85.88	1,895.18	513.55	483.13	111.69	199.66	171.78	23.12	41.33	35.56	25.5%	94.1%
2018	Oscoda	733.47	176.97	163.31	27.48	62.25	73.59	1,465.33	353.95	326.63	54.97	124.49	147.17	16.83	38.11	45.06	22.3%	92.3%
2018	Otsego	833.54	226.15	211.55	29.43	46.08	136.05	1,648.28	456.44	427.24	58.83	93.18	275.23	13.77	21.81	64.42	25.9%	93.6%
2018	Ottawa	1,697.04	427.81	393.90	83.19	196.88	113.83	3,520.97	953.98	909.99	204.04	442.45	263.50	22.42	48.62	28.96	25.8%	95.4%
2018	Presque Isle	798.10	235.99	212.13	32.43	53.10	126.59	1,582.89	471.72	423.99	64.86	106.08	253.06	15.3	25.02	59.68	26.8%	89.9%
2018	Roscommon	868.48	184.87	166.66	18.55	73.81	74.30	1,738.00	336.77	336.77	37.10	149.53	150.14	11.02	44.4	44.58	19.4%	100.0%
2018	Saginaw	1,885.37	527.42	520.99	33.66	150.63	336.71	3,858.85	1,133.17	1,133.15	72.53	317.24	743.37	6.4	28	65.6	29.4%	100.0%
2018	Sanilac	1,837.88	375.31	307.23	58.61	114.81	133.81	3,674.69	613.45	613.45	116.22	229.63	267.60	18.95	37.43	43.62	16.7%	100.0%
2018	Schoolcraft	439.40	220.71	103.18	20.00	35.85	47.34	878.72	382.84	206.36	39.99	71.69	94.67	19.38	34.74	45.88	23.5%	53.9%
2018	Shiawassee	1,112.85	343.47	269.18	36.42	121.84	110.93	2,225.54	687.95	539.37	72.83	244.08	222.46	13.5	45.25	41.24	24.2%	78.4%
2018	St. Clair	1,552.61	492.78	375.82	54.30	89.53	231.99	3,110.43	1,006.79	772.83	116.91	182.63	473.29	15.13	23.63	61.24	24.8%	76.8%
2018	St. Joseph	1,023.63	315.08	255.19	32.08	97.67	125.43	2,051.89	633.32	513.53	64.66	196.38	252.49	12.59	38.24	49.17	25.0%	81.1%
2018	Tuscola	1,654.92	363.47	268.97	20.30	68.32	180.35	3,309.25	539.88	538.00	40.61	136.70	360.69	7.55	25.41	67.04	16.3%	99.7%
2018	Van Buren	1,355.90	359.67	258.49	19.60	44.12	194.77	2,700.71	723.78	521.37	39.62	90.24	391.51	7.6	17.31	75.09	19.3%	72.0%
2018	Washtenaw	1,687.52	624.45	531.64	191.16	139.51	200.97	3,450.16	1,326.50	1,139.74	408.34	305.06	426.34	35.83	26.77	37.41	33.0%	85.9%
2018	Wayne	1,671.87	846.10	822.35	76.46	278.81	467.08	4,190.37	2,518.46	2,465.32	223.23	865.91	1,376.18	9.05	35.12	55.82	58.8%	97.9%
2018	Wexford	1,028.18	189.83	185.81	87.62	66.00	32.20	2,053.80	386.29	378.47	175.23	135.41	67.83	46.3	35.78	17.92	18.4%	98.0%
Totals		91,409.09	27,047.03	22,929.55	4,711.61	7,445.22	10,772.71	186,344.39	55,430.35	48,920.21	9,974.35	16,047.71	22,898.15	1,765.56	2,714.34	3,820.07		

Source: Transportation Asset Management Council Dashboard