



Michigan Department of Environment, Great Lakes, and Energy  
Materials Management Division

**SCRAP TIRE PROGRAM**  
**Calendar Year 2020 End Use Memo**

TO: Elizabeth Browne, Director  
Materials Management Division

FROM: Jeff Spencer, Supervisor  
Sustainable Materials Management Unit, Solid Waste Section

DATE: June 22, 2021

SUBJECT: Calendar Year 2020 Scrap Tire Estimated Usage and Capacity

The attached tables represent the best estimate of usage and capacity for existing and potential scrap tire material end-users for calendar year 2020. The information in these tables is based on current registrations issued, reported use for calendar year 2020, and staff knowledge of usage based on market contacts.

There remains a consistent decline in the demand for tire derived fuel (TDF). Most tire processors in Michigan built their business around TDF markets. In 2015, TDF usage was 10,797,719 passenger tire equivalents (PTE) or 121,323 tons. In 2020, TDF usage decreased to 4,717,189 PTE or 53,001 tons. The 2020 TDF usage is a 22.34 percent decrease from that used in 2019.

The Scrap Tire Program remains committed to the development of additional markets. Interest remains in molded and tire chip products. The growth of markets in Michigan remains difficult to predict and will depend on the ingenuity of scrap tire processors in finding or creating new markets as well as the EGLE Scrap Tire Market Development Grants being directed toward the most promising market sectors.

Attachments

cc: Rhonda Oyer, EGLE  
Kirsten Clemens, EGLE

**Current Usage and Capacity of Existing  
and Potential Scrap Tire End-Users  
CALENDAR YEAR 2020**

REUSE/RETREAD	WDS	REPORTED USE CY2020		NOTES
		TONS	PTE*	
Empire Iron Mine (reuse) <i>Marquette, MI mining tire wind barriers</i>	Empire Iron Mining Partnership (Marquette) & Tilden Mining Co. (Tilden)			No additional tires added during calendar year (CY) 2020.
Detroit Belle Isle (reuse) <i>1900 &amp; 1940 Woodbridge Detroit, MI</i>	482765			No additional tires added during calendar year (CY) 2020.
Alma Tire (retread) <i>1210 E Superior St Alma, MI</i>	409073			CY 2017: 21,866 SEMI TIRES CY 2018: 20,888 SEMI TIRES CY 2019: DID NOT REPORT
Belle Tire/Tredroc (retread) <i>3500 Enterprise Dr Allen Park, MI</i>	497615	2,749.10	244,670	CY 2017: 72,551 SEMI TIRES CY 2018: 76,048 SEMI TIRES CY 2019: 66,729 SEMI TIRES
BestDrive LLC (retread) <i>22100 Trolley Industrial Taylor, MI</i>	411858	1043.30	92,854	CY 2019 DID NOT REPORT
Belleroc/Tredroc (retread) <i>2505 Thornwood St SW Wyoming, MI</i>	470773			CY 2017: 38,092 SEMI TIRES CY 2018: 91,960 SEMI TIRES CY 2019: DID NOT REPORT
Conlan Tire LLC (retread) <i>30003 Van Born Rd Romulus, MI</i>	494266	1,935.94	172,299	CY 2017: 3,216 SEMI TIRES CY 2018: 68,951 SEMI TIRES CY 2019: 54,646 SEMI TIRES
Dependable Tire (retread) <i>12300 Stephens Rd Warren, MI</i>	418950			CY 2017: DID NOT REPORT CY 2018: 21,488 SEMI TIRES CY 2019: DID NOT REPORT
Ginman Tire (retread/used) <i>665 W Clay Ave Muskegon, MI</i>	497295			CY 2017: DID NOT REPORT CY18: 4,423 SEMI+25,480 LBS BUFF CY 2019: DID NOT REPORT
Jerry's Tire (retread) <i>2085 W Hill Rd Flint, MI</i>	470691			CY 2017: 110,330 PTE CY 2017: 22,066 SEMI TIRES CY 2018: 22,240 SEMI TIRES
Leslie Tire (retread) <i>144 NB Gratiot Ave Mt. Clemens, MI</i>	470951			CY 2017: DID NOT REPORT CY 2018: 15,089 SEMI TIRES CY 2019: DID NOT REPORT
Meekhof Tire (retread) <i>1640 Olson St NE Grand Rapids, MI</i>	444349			CY 2017: 274,080 PTE CY 2017: 54,816 SEMI TIRES CY 2018: 63,000 SEMI TIRES
Olson Tire (retread) <i>704 E Pickard Mt. Pleasant, MI</i>	471242			CY 2017 : 63,410 PTE CY 2017: 12,682 SEMI TIRES CY 2018: 13,487 SEMI TIRES
Shrader Tire & Oil (retread) <i>25445 Outer Dr Melvindale, MI</i>	398265	2,283.90	203,267	CY 2017: 3,855 SEMI TIRES CY 2018: 45,558 SEMI TIRES CY 2019: 40,988 SEMI TIRES
Wingfoot (Goodyear) <i>147 Morgan Dr Howell, MI</i>	443291			CY 2017: DID NOT REPORT CY 2018: 36,710 SEMI TIRES CY 2019 DID NOT REPORT
Wonderland Tire (retread) <i>1233 Cutting Industrial Moline, MI</i>	436529			CY 2017: 175,885 PTE CY 2017: 35,177 SEMI TIRES CY 2018: 34,337 SEMI TIRES
<b>TOTAL</b>		<b>8,012.24</b>	<b>713,090</b>	<b>*1 semi tire = 5 PTE; 89 PTE / T</b>

**Current Usage and Capacity of Existing  
and Potential Scrap Tire End-Users  
CALENDAR YEAR 2020**

LANDFILL	WDS	CALENDAR YEAR 2020		NOTES
		TONS	PTE	
Brent Run Landfill Montrose, MI ADC	406671			Approved to use but not using tires.
Central Sanitary Landfill Cannonsville, MI ADC	416499			Approved in license but has not used tires.
City of Midland Sanitary Landfill, Midland, MI ADC	470453			Approved in license but has not used tires.
Dafter Sanitary Landfill Chippewa County, MI ADC	451470			Approved in license but has not used tires.
Granger: Wood St. & Grand River Lansing, MI Leachate/Gas Collection	470523	1078.65	145,094	CY 2019 = 179.79 T CY 2018 = 65.10 T CY 2017 = 654 T
K & W Landfill Ontonagon, MI ADC	408328			Approved in license but has not used tires
Marquette County Solid Waste Marquette, MI certified end-user; ADC	451188	551.62	49,094	CY 2019 = 180.11 T CY 2018 = 290.36 T CY 2017 = 138 T
Ottawa County Farms Landfill Coopersville, MI ADC	403061			Approved in license but has not used tires
Peoples Landfill Inc. Birch Run, MI ADC	437908			Approved in license but has not used tires
Pitsch Sanitary Landfill Belding, MI Leachate/Gas Collection/ADC	407345			
Riverview Landfill Riverview, MI ADC	399054			CY 2020 - DID NOT REPORT CY 2019 - DID NOT REPORT CY 2018 - DID NOT REPORT
Sauk Trail Hills Canton, MI ADC	410118			Approved in license but has not used tires.
Southeast Berrien County Landfill Buchanan, MI ADC	458632			
Tri-City Recycling & Disposal Carsonville, MI	417640			Approved in license but has not used tires
Venice Park Recycling & Disposal Lennon, MI ADC	399185			Approved in license but has not used tires
Westside Recycling and Disposal Three Rivers, MI Leachate/Gas Collection/ADC	406807			
Tires sent to landfill Reported in ReTrac by Registered Haulers		29,472.10	2,623,017	
<b>TOTAL USED REPORTED BY LANDFILLS</b>		<b>1,630.27</b>	<b>194,188</b>	<i>Alternative daily cover (ADC), piping protection</i>
<b>TOTAL LANDFILLED BY HAULERS</b>		<b>29,472.10</b>	<b>2,619,012</b>	<i>Tires disposed</i>

**Current Usage and Capacity of Existing  
and Potential Scrap Tire End-Users  
CALENDAR YEAR 2020**

TIRE DERIVED FUEL (TDF)	ANNUAL PERMITTED CAPACITY (TONS)	CALENDAR YEAR 2020		NOTES
		TONS	PTE	
Genesee Power Station WDS: 463635 SRN: N3570 <a href="#">Title V Air Permit</a> Permit No. 259-06	7,300	4,566.66	406,433	CY 2019 = 2,801 T CY 2018 = 2,473 T CY 2017 = 5,610 T CY 2016 = 3,286 T CY 2015 = 2,025 T
Grayling Generating Station WDS: 447905 SRN: N2388 <a href="#">Title V Air Permit</a> Permit No. 882-89E	16,425	1,590.83	140,584	CY 2019 = 3986 T CY 2018 = 2,927 T CY 2017 = 3,952 T CY 2016 = 3,299 T CY 2015 = 2,343 T
Hillman Power, Hillman WDS: 429049 SRN: N1266 <a href="#">Title V Air Permit</a> Permit No. 687-86G	20,000	0.00	0	CY 2019 = 4,298 T CY 2018 = 6,873 T CY 2017 = 7,385 T CY 2016 = 9,126 T CY 2015 = 9,635 T
L'Anse Warden Electric Co. WDS: 482982 SRN: B4260 <a href="#">Title V Air Permit</a> Permit No. 168-07A-B		1,870.21	166,449	CY 2019 = 2,400 T CY 2018 = 4,075 T CY 2017 = 8,935 T CY 2016 = 7,386 T CY 2015 = 13,565 T
TES Filer City Station WDS: 450616 SRN: N1685 <a href="#">Title V Air Permit</a> Permit No. 519-87F	35,040	1,136.34	101,134	CY 2019 = 5,272 T CY 2018 = 14,615 T CY 2017 = 9,737 T CY 2016 = 19,391 T CY 2015 = 26,813 T
Verso Escanaba WDS: 395326 SRN: A0884 <a href="#">Title V Air Permit</a> Permit No. 259-06		20,792.99	1,850,576	CY 2019 = 26,277 T CY 2018 = 19,483 T CY 2017 = 15,744 T CY 2016 = 17,420 T CY 2015 = 23,366 T
Viking Energy, Lincoln WDS: 436693 SRN: N0890 <a href="#">Title V Air Permit</a> Permit No. 290-86C	16,060	12,099.00	1,076,811	CY 2019 = 12, 315 T CY 2018 = 11,918 T CY 2017 = 11,125 T CY 2016 = 11,524 T CY 2015 = 11,428 T
Viking Energy, McBain WDS: 391703 SRN: N1160 <a href="#">Title V Air Permit</a> Permit No. 261-86G	16,060	10,944.97	974,102	CY 2019 = 10,895 T CY 2018 = 11,886 T CY 2017 = 10,670 T CY 2016 = 11,989 T CY 2015 = 12,798 T
<b>TOTAL</b>		<b>53,001.00</b>	<b>4,717,089</b>	<b>TOTAL CY 2020 = T</b>

OUT OF STATE USERS	<i>*self reported data</i>	CALENDAR YEAR 2020		NOTES
		TONS	PTE	
Out of State (ReTrac, reported by registered haulers)		38,083.72	3,389,451	Material hauled out of state
<b>TOTAL</b>		<b>38,083.72</b>	<b>3,389,451</b>	

**Current Usage and Capacity of Existing  
and Potential Scrap Tire End-Users  
CALENDAR YEAR 2020**

<b>OTHER PRODUCTS</b>	<i>*self reported data</i>	<b>CALENDAR YEAR 2020</b>		<b>NOTES</b>
		<b>TONS</b>	<b>PTE</b>	
CM Rubber Technologies WDS: 477858		5,251.00	467,339	DRAINFIELD: 1,067 T USED/GRADE TIRES: 229 T SIDEWALLS/SILAGE: 169 T TDF: 3,784 T MULCH/GROUND COVER: 2 T
Cobalt Holding, LLC WDS: 488250		7,672.17	682,823	CRUMB: 1,955.61 T TDA: 265.39 T MULCH: 1,212.67 T STEEL/TIRE WIRE: 621.83 T SHREDS: 3,616.67 T (OOS)
Deerpath Recyclers WDS: 479633		7,326.62	652,069	CRUMB: 1,895.6 T STEEL/TIRE WIRE: 695.33 T TDF: 2627.65 T MULCH/ADC: 2,108.04 T
Environmental Rubber WDS: 427801		13,885.00	1,235,765	TDF: 13,885 T
First Class Tire Shredders WDS: 471626		8,581.30	763,736	TDF: 8,301.50 T LANDFILLED: 279.80 T
Great American Environmental Services WDS: 447424		1,053.26	93,740	LANDFILLED: 1,053.26 T
Great Lakes Tire Recycling & Recovery LLC WDS: 497821		447.06	39,788	LANDFILL ADC: 447.06 T
Huffman Rubber WDS: 471063		9,452.85	841,304	USED/GRADE TIRES: 206 T SIDEWALLS/SILAGE: 2,146 T FEEDSTOCK OOS: 6,189.22 T LANDFILLED: 911.63 T
Larrys Tire WDS: 497570		5,423.03	482,650	USED/GRADE TIRES: 1,716.49 T SHREDS: 1,423 (OOS) OTR OOS: 43.54 T LANDFILLED: 2,240 T
Mensch Manufacturing WDS: 471180		432.48	38,491	PRODUCT: 164.49 T LANDFILLED: 267.99 T
Silver Lining WDS: 393268		22,921.37	2,040,002	USED/GRADE TIRES: 1,059.24 T FEEDSTOCK OOS: 2800.96 T TDF: 2,922.53 T LANDFILL ADC: 16,138.64 T
258 Tire WDS: 496831		192.18	17,104	LANDFILLED: 192.18 T
<b>TOTAL PROCESSED</b>		<b>82,638.32</b>	<b>7,354,811</b>	
<b>TOTAL SENT TO LANDFILL BY PROCESSORS</b>		<b>23,638.60</b>	<b>2,103,835</b>	ADC: ALTERNATIVE DAILY COVER

**Current Usage and Capacity of Existing  
and Potential Scrap Tire End-Users  
CALENDAR YEAR 2020**

USE COMPARISON				
	CALENDAR YEAR 2020		CALENDAR YEAR 2019	
TOTALS	TONS	PTE	TONS	PTE
<b>END USES</b>				
Landfill Usage	1,630.27	194,188	359.89	32,030
TDF	53,001.00	4,717,089	68,243.36	6,073,659
TDF - Reported to AQD	<i>Not available at time of report</i>		68,179.23	6,067,951
<b>TOTAL</b>	<b>54,631.27</b>	<b>4,911,277</b>	<b>68,603.25</b>	<b>6,640,848</b>
<b>DIVERSION</b>				
Reuse/Retread	8,012.24	713,090	9,249.93	823,244
Out of State	38,083.72	3,389,451	37,573.09	3,344,005
<b>TOTAL</b>	<b>46,095.96</b>	<b>4,102,541</b>	<b>46,823.02</b>	<b>4,167,249</b>
<b>MATERIAL PROCESSED REPORTED BY SCRAP TIRE FACILITIES</b>				
AGGREGATE	265.39	23,620	3,812.45	339,308.05
BUFFINGS	0.00	0	0.00	0.00
CRUMB	3,851.21	342,758	7,600.84	676,474.76
DRAINFIELD	1,067.00	94,963	1,312.00	116,768.00
FEEDSTOCK/SHRED/OOS	14,073.39	1,252,532	8,049.71	716,424.19
GRANULES	0.00	0	0.00	0.00
LANDFILL/ADC	23,638.60	2,103,835	NA	NA
MULCH/GROUND COVER	1,214.67	108,106	1,500.00	133,500.00
SILAGE/SIDEWALL	2,315.00	206,035	1,697.04	151,036.56
STEEL/TIRE WIRE	1,317.16	117,227	680.05	60,524.45
TDF	31,520.68	2,805,341	61,913.95	5,510,341.55
USED/GRADE TIRES	3,210.73	285,755	3,995.93	355,637.77
OTHER PRODUCTS	164.49	14,640	0.00	0.00
<b>TOTAL</b>	<b>82,638.32</b>	<b>7,354,811</b>	<b>90,561.97</b>	<b>8,060,015</b>
	<b>CY 2020 TON</b>	<b>CY 2020 PTE</b>	<b>CY 2019 TON</b>	<b>CY 2019 PTE</b>
<b>TOTAL USAGE</b>	<b>183,365.55</b>	<b>16,368,629</b>	<b>205,988.24</b>	<b>18,859,557</b>

\*This table represents the EGLE Scrap Tire Program best estimate of the current usage and capacity of existing and potential scrap tire material end-users. Many end users are not mandated to report tire commodity usage; therefore this table

**Glossary**

OOS: Out of State User. Tires were generated in Michigan and taken outside the state for use/disposal.

PTE: Passenger Tire Equivalent based on 1 PTE = 22.5 lbs (Increased to 22.5 lbs in 2012 from 20 lbs)

PTI: Permit to Install. The permit required for new or modified equipment or a change in the method of operation of existing equipment which causes certain increases in emissions.

ROP = Renewable Operating Permit. Old PTIs are voided and the conditions are placed into the ROP. New PTIs are also eventually rolled into the ROP for a major source of air emissions.

SRN = State Registration Number, which does not change for a site even when names or numbers change. It is the most certain way to identify correct information for a facility. SRN are used by Air Quality Division as identifiers.

End-user means any of the following:

- (i) A person who possesses a permit to burn tires under part 55.
- (ii) The owner or operator of a landfill that is authorized under the landfill's operating license to use scrap tires.
- (iii) A person who uses a commodity to make a product that is sold in the market.
- (iv) A person who is authorized by this part to accumulate scrap tires, who acquires scrap tires, and who converts scrap tires into a product that is sold in the market or reused in a manner authorized by this part.