



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

**SCRAP TIRE PROGRAM**  
**Calendar Year 2019 End Use Memo**

TO: Jack Schinderle, Director  
Materials Management Division

THROUGH: Elizabeth M. Browne, Assistant Director  
Materials Management Division

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

DATE: April 14, 2020

SUBJECT: Calendar Year 2019 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 2019. The information in these tables is based on current registrations issued, reported use for calendar year 2019, 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 2019, TDF usage decreased to 6,073,659 PTE or 68,243 tons. The 2019 TDF usage is a 43.75 percent decrease from that used in 2018.

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 2019**

REUSE/RETREAD	WDS	REPORTED USE		NOTES
		TONS	PTE*	
Empire Iron Mine (reuse) <i>Marquette, MI mining tire wind barriers</i>	Empire Iron Mining Partnership (Marquette) & Tilden Mining Co. (Tilden)	0.00	0	No additional tires added during calendar year (CY) 2019.
Detroit Belle Isle (reuse) <i>1900 &amp; 1940 Woodbridge Detroit, MI</i>	482765	154.00	13,706	No additional tires added during calendar year 2019.
Alma Tire (retread) <i>1210 E Superior St Alma, MI</i>	409073			CY 2017: 109,330 PTE CY 2017: 21,866 SEMI TIRES CY 2018: 20,888 SEMI TIRES
Belle Tire/Tredroc (retread) <i>3500 Enterprise Dr Allen Park, MI</i>	497615	3748.83	333,646	CY 2017: 362,755 PTE CY 2017: 72,551 SEMI TIRES CY 2018: 4,224.88 T COMMODITY
Belleroc/Tredroc (retread) <i>2505 Thornwood St SW Wyoming, MI</i>	470773			CY 2017: 190,460 PTE CY 2017: 38,092 SEMI TIRES CY 2018: 91,960 SEMI TIRES
Dependable Tire (retread) <i>12300 Stephens Rd Warren, MI</i>	418950			CY 2017: DID NOT REPORT CY 2018: 21,488 SEMI TIRES
Ginman Tire (retread/used) <i>665 W Clay Ave Muskegon, MI</i>	497295			CY 2017: DID NOT REPORT CY 2018: 4,423 SEMI + 25,480 LBS BUFFINGS
Conlin Tire LLC (retread) <i>30003 Van Born Rd Romulus, MI</i>	494266	3070.00	273230	CY 2017: 16,081 PTE CY 2017: 3,216 SEMI TIRES CY 2018: 3,830.62 T COMMODITY
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
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
Schrader Tire & Oil (retread) <i>25445 Outer Dr Melvindale, MI</i>	398265	2277.10	202662.00	CY 2017: 771 PTE CY 2017: 3,855 SEMI TIRES CY 2018: 2531 T COMMODITY
Union Tire (retread) <i>308 Jackson Plaza Ann Arbor, MI</i>	478987	X		No longer retreading
Wingfoot (Goodyear) <i>147 Morgan Dr Howell, MI</i>	443291			CY 2017: DID NOT REPORT CY 2018: 36,710 SEMI TIRES
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>9,249.93</b>	<b>823,244</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 2019**

LANDFILL	WDS	2019		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	179.78	16,000	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	180.11	16,030	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 2018 = NO USAGE REPORTED CY 2017: 12,782 T
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			
<b>TOTAL</b>		<b>359.89</b>	<b>32,030</b>	

**Current Usage and Capacity of Existing  
and Potential Scrap Tire End-Users  
CALENDAR YEAR 2019**

TIRE DERIVED FUEL (TDF)	ANNUAL PERMITTED CAPACITY (TONS)	2019		NOTES
		TONS	PTE	
Genesee Power Station WDS: 463635 SRN: N3570 <a href="#">Title V Air Permit</a> Permit No. 259-06	7,300	2,800.61	249,254	CY 2018 = 2,473 T CY 2017 = 5,610 T CY 2016 = 3,286 T CY 2015 = 2,025 T CY 2014 = 3,247 T
Grayling Generating Station WDS: 447905 SRN: N2388 <a href="#">Title V Air Permit</a> Permit No. 882-89E	16,425	3,986.32	354,782	CY 2018 = 2,927 T CY 2017 = 3,952 T CY 2016 = 3,299 T CY 2015 = 2,343 T CY 2014 = 5,811 T
Hillman Power, Hillman WDS: 429049 SRN: N1266 <a href="#">Title V Air Permit</a> Permit No. 687-86G	20,000	4,297.60	382,486	CY 2018 = 6,873 T CY 2017 = 7,385 T CY 2016 = 9,126 T CY 2015 = 9,635 T CY 2014 = 7,936 T
L'Anse Warden Electric Co. WDS: 482982 SRN: B4260 <a href="#">Title V Air Permit</a> Permit No. 168-07A-B		2,399.83	213,585	CY 2018 = 4,075 T CY 2017 = 8,935 T CY 2016 = 7,386 T CY 2015 = 13,565 T CY 2014 = 10,861 T
TES Filer City Station WDS: 450616 SRN: N1685 <a href="#">Title V Air Permit</a> Permit No. 519-87F	35,040	5,271.90	469,199	CY 2018 = 14,615 T CY 2017 = 9,737 T CY 2016 = 19,391 T CY 2015 = 26,813 T CY 2014 = 26,415 T
Verso Escanaba WDS: 395326 SRN: A0884 <a href="#">Title V Air Permit</a> Permit No. 259-06		26,277.26	2,338,676	CY 2018 = 19,483 T CY 2017 = 15,744 T CY 2016 = 17,420 T CY 2015 = 23,366 T CY 2014 = 23,701 T
Viking Energy, Lincoln WDS: 436693 SRN: N0890 <a href="#">Title V Air Permit</a> Permit No. 290-86C	16,060	12,315.00	1,096,035	CY 2018 = 11,918 T CY 2017 = 11,125 T CY 2016 = 11,524 T CY 2015 = 11,428 T CY 2014 = 11,140 T
Viking Energy, McBain WDS: 391703 SRN: N1160 <a href="#">Title V Air Permit</a> Permit No. 261-86G	16,060	10,894.84	969,641	CY 2018 = 11,886 T CY 2017 = 10,670 T CY 2016 = 11,989 T CY 2015 = 12,798 T CY 2014 = 11,461 T
<b>TOTAL</b>		<b>68,243.36</b>	<b>6,073,659</b>	<b>TOTAL CY 2018 = 74,260.97 T</b>

OUT OF STATE USERS	<i>*self reported data</i>	2019		NOTES
		TONS	PTE	
Out of State		37,573.09	3,344,005	Material hauled out of state
<b>TOTAL</b>		<b>37,573.09</b>	<b>3,344,005</b>	

**Current Usage and Capacity of Existing  
and Potential Scrap Tire End-Users  
CALENDAR YEAR 2019**

OTHER PRODUCTS <i>*self reported data</i>	2019		NOTES
	TONS	PTE	
CM Rubber Technologies WDS: 477858	8,290.00	737,810	DRAINFIELD: 1312 T GRADE TIRES: 165 T SIDEWALL RINGS: 216 T TDF: 6597 T
Cobalt Holding, LLC WDS: 488250	9,097.25	809,655	CRUMB: 5555.84 T TDA: 2041.41 T MULCH: 1500 T
Deerpath Recyclers WDS: 479633	5,698.00	507,122	CRUMB: 2045 T TIRE WIRE: 622 T TDF/CHIPS: 3031 T
Entech WDS: 470882	<del>                    </del>	<del>                    </del>	Ceased operations in Michigan March, 2017
Environmental Rubber WDS: 427801	15,323.00	1,363,747	TDF: 15323 T
First Class Tire Shredders WDS: 471626	12,850.98	1,143,737	TDF: 12850.98 T
Great American Env. Serv. WDS: 447424	1,238.00	110,182	SHREDS: 1238 T
Huffman Rubber WDS: 471063	12,109.09	1,077,709	TDF: 668.80 T USED TIRES: 138.50 T SILAGE RINGS: 1481.04 T AGGREGATE: 1771.04 T FEED STOCK: 8049.71 T
Larrys Tire WDS: 471164 Blanchard	<del>                    </del>	<del>                    </del>	Relocated to Howard City
Larrys Tire WDS: 490879 Lakeview	<del>                    </del>	<del>                    </del>	Relocated to Howard City
Larrys Tire WDS: TBD Howard City	6,638.90	590,862	NEW LOCATION - CY 2019 LANDFILL: 4338.18 T USED TIRES: 2300.72 T
Silver Lining WDS: 393268	24,892.93	2,215,471	TDF: 23443.17 T STEEL: 58.05 T USED TIRES: 1391.71 T
258 Tire WDS: 496831	340.71	30,323	LANDFILL: 340.71 T
<b>TOTAL</b>	<b>96,478.86</b>	<b>8,586,618</b>	

# Current Usage and Capacity of Existing and Potential Scrap Tire End-Users CALENDAR YEAR 2019

TABLE 1 USE COMPARISON				
TOTALS	CALENDAR YEAR 2019		CALENDAR YEAR 2018	
	TONS	PTE	TONS	PTE
<b>END USES</b>				
Landfill Usage	359.89	32,030	355.46	31,642
TDF	68,243.36	6,073,659	74,260.97	6,609,206
TDF - Reported to AQD	<i>Not available at time of report</i>		73,892.60	6,576,441
<b>TOTAL</b>	<b>68,603.25</b>	<b>6,105,689</b>	<b>74,616</b>	<b>6,640,848</b>
<b>DIVERSION</b>				
Reuse/Retread	9,249.93	823,244	28,781.25	2,561,442
Out of State	37,573.09	3,344,005	70,653.38	6,288,150
<b>TOTAL</b>	<b>46,823.02</b>	<b>4,167,249</b>	<b>99,435</b>	<b>8,849,592</b>
<b>PRODUCTS - REPORTED BY SCRAP TIRE FACILITIES</b>				
AGGREGATE	3,812.45	339,308.05	5,573.99	496,085.11
BUFFINGS	0.00	0.00	0.00	0.00
CRUMB	7,600.84	676,474.76	3,757.00	334,373.00
DRAINFIELD	1,312.00	116,768.00	657.00	58,473.00
FEED STOCK	8,049.71	716,424.19	2,198.39	195,656.71
GRANULES	0.00	0.00	1,276.00	113,564.00
MULCH/GROUND COVER	1,500.00	133,500.00	2,552.26	227,151.14
SHREDS	5,916.89	526,603.21	6,556.00	583,484.00
SILAGE/SIDEWALL	1,697.04	151,036.56	1,506.11	134,043.79
STEEL/TIRE WIRE	680.05	60,524.45	1,450.09	129,058.01
TDF	61,913.95	5,510,341.55	62,465.82	5,559,457.98
USED/GRADE TIRES	3,995.93	355,637.77	9,664.04	860,099.56
OTHER	0.00	0.00	2,686.95	239,138.55
<b>TOTAL</b>	<b>96,478.86</b>	<b>8,586,619</b>	<b>100,344</b>	<b>8,930,585</b>
	<b>CY 2019 TON</b>	<b>CY 2019 PTE</b>	<b>CY 2018 TON</b>	<b>CY 2018 PTE</b>
<b>TOTAL USAGE</b>	<b>211,905.13</b>	<b>18,859,557</b>	<b>285,193</b>	<b>25,382,177</b>

\*This table represents the 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 only includes information voluntarily reported to the Department. Additionally, many of the processors report the creation of a commodity that is then reported as used by an end user.

## Glossary

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.

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.