

**Current Usage and Capacity of Existing
and Potential Scrap Tire End-Users
CALENDAR YEAR 2018**

REUSE/RETREAD	WDS	REPORTED USE		NOTES
		TONS	PTE*	
Empire Iron Mine <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 2018.
Alma Tire (retread) <i>1210 E Superior St Alma, MI</i>	409073	1173.48	104,440	CY 2017: 109,330 PTE CY 2017: 21,866 SEMI TIRES CY 2018: 20,888 SEMI TIRES
Belle Tire/Tredroc (retread) <i>1000 Enterprise Dr Allen Park, MI</i>	398265	4224.88	376,014	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	5166.29	459,800	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	1207.19	107,440	CY 2017: DID NOT REPORT CY 2018: 21,488 SEMI TIRES
Ginman Tire (retread/used) <i>665 W Clay Ave Muskegon, MI</i>	497295	261.22	23,249	CY 2017: DID NOT REPORT CY 2018: 4,423 SEMI + 25,480 LBS BUFFINGS
Great Lakes Tire & Treading/Conlin <i>30003 Van Born Rd Romulus, MI</i>	494266	3,830.62	340,925	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	1,249.44	111,200	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	847.70	75,445	CY 2017: DID NOT REPORT CY 2018: 15,089 SEMI TIRES
Meekhof Tire (retread) <i>1640 Olson St NE Grand Rapids, MI</i>	444349	3,539.33	315,000	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	757.70	67,435	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	2,531.00	225,259	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	2,063.36	183,550	CY 2017: DID NOT REPORT CY 2018: 36,710 SEMI TIRES
Wonderland Tire (retread) <i>1233 Cutting Industrial Moline, MI</i>	436529	1,929.04	171,685	CY 2017: 175,885 PTE CY 2017: 35,177 SEMI TIRES CY 2018: 34,337 SEMI TIRES
TOTAL		28,781.25	2,561,442	*1 semi tire = 5 PTE; 89 PTE / T

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LANDFILL	WDS	2018		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	65.10	5,800	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	290.36	25,842	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 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			
TOTAL		355.46	31,642	

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TIRE DERIVED FUEL (TDF)	ANNUAL PERMITTED CAPACITY (TONS)	2018		NOTES
		TONS	PTE	
Genesee Power Station WDS: 463635 SRN: N3570 Title V Air Permit Permit No. 259-06	7,300	2,473.45	220,137.00	CY 2017 = 5,610 T
Grayling Generating Station WDS: 447905 SRN: N2388 Title V Air Permit Permit No. 882-89E	16,425	2,926.93	260,503.00	CY 2017 = 3,952 T
Hillman Power, Hillman WDS: 429049 SRN: N1266 Title V Air Permit Permit No. 687-86G	20,000	6,873.00	611,697.00	CY 2017 = 7,385 T
Lanse Warden Electric Co. WDS: 482982 SRN: B4260 Title V Air Permit Permit No. 168-07A-B		4,075.28	362,700.00	CY 2017 = 8,935 T
TES Filer City Station WDS: 450616 SRN: N1685 Title V Air Permit Permit No. 519-87F	35,040	14,615.30	1,300,735.00	CY 2017 = 9,737 T
Verso Escanaba WDS: 395326 SRN: A0884 Title V Air Permit Permit No. 259-06		19,493.00	1,734,877.00	CY 2017 = 15,744 T
Viking Energy, Lincoln WDS: 436693 SRN: N0890 Title V Air Permit Permit No. 290-86C	16,060	11,918.00	1,060,702.00	CY 2017 = 11,125 T
Viking Energy, McBain WDS: 391703 SRN: N1160 Title V Air Permit Permit No. 261-86G	16,060	11,886.01	1,057,855.00	CY 2017 = 10,670 T
TOTAL		74,260.97	6,609,206.00	TOTAL CY 2017 = 73,158 T

OUT OF STATE USERS	<i>*self reported data</i>	2018		NOTES
		TONS	PTE	
Out of State		70,653.38	6,288,150	material hauled out of state
TOTAL		70,653.38	6,288,150	

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OTHER PRODUCTS	*self reported data	2018		NOTES
		TONS	PTE	
CM Rubber Technologies WDS: 477858		7,381.83	656,983	CRUMB: 1 T DRAINFIELD: 657 T GRADE TIRES: 184.88T SIDEWALL RINGS: 158.03 T TDF: 6380.92 T
Cobalt Holding, LLC WDS: 488250		5,054.77	449,875	CRUMB: 1628 T GRANULES: 1276 T MULCH: 1102.26 T STEEL: 678.93 T TDA: 80.11 T TDF: 289.47 T
Deerpath Recyclers WDS: 479633		7,363.00	655,307	CRUMB: 2128 T GROUND COVER: 1450 T TIRE WIRE: 695 T TDF/CHIPS: 3090 T
Entech WDS: 470882		 	 	Ceased operations in Michigan March, 2017
Environmental Rubber WDS: 427801		19,049.00	1,695,361	TDF: 19049 T
First Class Tire Shredders WDS: 471626		14,220.10	1,265,589	TDF: 11797.80 T USED TIRES: 106.45 T LANDFILL: 2315.85 T
Great American Env. Serv. WDS: 447424		1,677.00	149,253	LANDFILL: 1677 T
Huffman Rubber WDS: 471063		9,382.96	835,083	AGGREGATE: 5548.99 T FEED STOCK: 2198.39 T SILAGE RINGS: 1348.08 T TDF: 0 T USED TIRES: 287.50 T
Larrys Tire WDS: 471164 Blanchard		4,903.87	436,444	LANDFILL: 4878.87 T TDA: 25 T
Larrys Tire WDS: 490879 Lakeview		8,188.00	728,732	USED TIRES: 728,736 PTE
Larrys Tire WDS: TBD Howard City		0.00	0	NEW LOCATION - 2019
Silver Lining WDS: 393268		22,938.50	2,041,527	STEEL: 76.16 T TDF: 21858.63 USED TIRES: 1003.66 T
258 Tire WDS: 496831		184.62	16,431	LANDFILL: 184.62 T
	TOTAL	100,343.65	8,930,585	

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TABLE 1 USE COMPARISON				
TOTALS	CALENDAR YEAR 2018		CALENDAR YEAR 2017	
	TONS	PTE	TONS	PTE
END USES				
Landfill Usage	355.46	31,642	13,574	1,208,086
TDF	74,260.97	6,609,206	73,158	6,511,062
TDF - Reported to AQD	Not available at time of report		74,133	6,597,837
TOTAL	74,616.43	6,640,848	86,732	7,719,148
DIVERSION				
Reuse/Retread	28,781.25	2,561,442	17,822	1,586,247
Out of State	70,653.38	6,288,150	65,850	5,860,650
TOTAL	99,434.63	8,849,592	83,672	7,446,808
PRODUCTS - REPORTED BY SCRAP TIRE FACILITIES				
AGGREGATE	5,573.99	496,085.11	6,488	577,432
BUFFINGS	0.00	0.00	480	42,720
CRUMB	3,757.00	334,373.00	2,571	228,819
DRAINFIELD	657.00	58,473.00	768	68,352
FEED STOCK	2,198.39	195,656.71	736	65,504
GRANULES	1,276.00	113,564.00	271	24,119
MULCH/GROUND COVER	2,552.26	227,151.14	2,520	224,280
SHREDS	6,556.00	583,484.00	1,081	96,189
SILAGE/SIDEWALL	1,506.11	134,043.79	1,331	118,459
STEEL/TIRE WIRE	1,450.09	129,058.01	1,571	139,819
TDF	62,465.82	5,559,457.98	73,158	6,511,062
USED/GRADE TIRES	9,664.04	860,099.56	4,536	403,704
OTHER	2,686.95	239,138.55	19,279	1,715,831
TOTAL	100,343.65	8,930,584.85	114,789	10,216,221
	CY 2018 TON	CY 2018 PTE	CY 2017 TON	CY 2017 PTE
TOTAL USAGE	274,394.71	24,421,025	285,193	25,382,177

*This table represents the Waste Management and Radiological Protection Division staff's 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.