MAXIMUM LEGAL TRUCK LOADINGS AND DIMENSIONS

Regulations pertaining to the operation of trucks and trailers according to Act 300 P.A. 1949 as amended.

NOTE:

When restricted loadings are in effect, the normal maximum axle weights allowable on **rigid** pavements shall be reduced 25% and the maximum wheel load shall not exceed 525 pounds per inch width of tire. When restricted loadings are in effect, the normal maximum axle weights allowable on **flexible** pavements shall be reduced 35% and the maximum wheel load shall not exceed 450 pounds per inch width of tire.

MAXIMUM OVERALL DIMENSIONS

Width Width (designated highways)	96 inches
Height	
Length of semitrailer (including load)	53 feet
Length of a semitrailer (including load) NONDESIGNATED HIGHWAY	50 feet
Length of combination of truck-tractor and semitrailer with or without load	
Length of any other vehicle with or without load (excluding impact absorbing bumpers)	
Units permitted in trainTruck-tractor, semitrailer and trailer or truck- tractor and 2 semitrailers or truck and Length of a combination of truck-tractor, semitrailer, and trailer or truck-tractor and 2 semitrailers or truck and semitrailers.	trailer or trailer with or
without load or pickup truck, semitrailer designed for recreational living purposes, and additional trailer or semitra	
Semitrailers longer than 50 feet shall have a wheelbase of 37 feet to 41 feet (measured from the kingpin coupling to axles or to the center of the tandem axle assembly if equipped with 2 axles). Semitrailers longer than 50 feet are limited to 3 axles.	the center of the
Semitrailers longer than 50 feet shall operate on designated highways only.	
Semitrailers and trailers shall be measured from the front vertical plane of the foremost transverse load supporting structure.	ucture to the rearmost
Length shall not include safety and energy conservation devices including, but not limited to, impact absorbing bumper turn signal lamps, marker lamps, steps and hand holds for entry and egress, flexible fender extensions, mud suppressant devices, load induced tire bulge, refrigeration or heating units, or air compressors. A device shall determination of length only if it is not designed or used for the carrying of cargo.	I flaps or splash and I be excluded from a
Projection beyond front of vehicles	
Overhang beyond rear of vehicles Any amount is permissible if the legal length is not exceeded. Howev 4 feet or more, there shall be displayed on the extreme rear of such a load a 12 - inch red square flag in the dayti	
lantern at night.	

<u>WIDTH:</u> **Unprocessed Logs, Pulpwood, Wood Bolts, Agricultural Products, and Concrete Pipe**, (108 inches for load only), **Busses**, (102 inches), **Implements of Husbandry**: A person may only operate or tow an implement of husbandry of any width on a highway as required for normal farming operations.

<u>LENGTH:</u> Truck-Tractor, Semitrailer, and Trailer or Truck-Tractor and 2 Semitrailers: No overall length limitation providing the length of each semitrailer and trailer including load does not exceed 28 feet 6 inches or the overall length of the semitrailer and trailer or 2 semitrailers as measured from the front of the first towed unit to the rear of the second towed unit while the units are coupled together does not exceed an overall length of 58 feet, including load. Any such combination, except as herein described with regard to assembled motor vehicles or bodies, recreational vehicles or boats, may be operated only on such highways and routes as designated by the appropriate authorities.

Truck and Trailer or Semitrailer: Overall length not to exceed 65 feet. Any such combination may be operated only on such highways and routes as designated by the appropriate authorities.

Truck and Trailer or Semitrailer: Designed and used to transport saw logs, pulpwood, and tree length poles. Overall length is not to exceed 70 feet including load. Any such combination may be operated only on such highways and routes as designated by the appropriate authorities

Truck-Tractor, Semitrailer, and Trailer, or Truck Tractor and Semitrailer or Trailer designed and used exclusively to transport assembled motor vehicles or bodies, recreational vehicles, or boats: Any such combination not to exceed a total length of 65 feet, except a stinger-steered combination shall not exceed a total length of 75 feet. The load on any such combination of vehicles may extend an additional 3 feet beyond the front and 4 feet beyond the rear of the combination of vehicles.

Articulated Busses: Articulated busses operated by a local public transit system funded by Act No. 51 of the Public Acts of 1951, as amended, may operate with a maximum length of 65 feet.

MAXIMUM OVERALL DIMENSIONS CONTINUED......

Motor vehicles wholly or partially assembled transported by utilizing 1 tow bar or 3 saddle mounts with full mount mechanisms and using the motor power of 1 vehicle. Any such combination of vehicles may not exceed the maximum length of 75 feet. Any combination that exceeds 55 feet in length may be operated only on such highways and routes as designated by appropriate authorities. The total gross weight of any 65-foot combination of vehicles shall not exceed a ratio of 400 lbs. per engine net horsepower delivered to clutch or its equivalent specified in the SAE test code.

MOBILE HOMES: 45 feet in body length, 60 feet when in combination with a towing unit 8 feet 4 inches in width, 12 feet 6 inches in height. VEHICLES TRANSPORTING FLAMMABLE LIQUID, IN BULK, WHICH AS A FLASH POINT AT OR BELOW 70 DEGREES FAHRENHEIT: Vehicles shall meet safety standards as determined by the Department of State Police. Vehicles manufactured after July 27, 1978, are limited to 11 feet 8-1/2 inches maximum height.

Truck-Tractor, Semitrailer and Trailer or Truck-Tractor and 2 Semitrailers: Movement is not allowed within a county having a population of 600,000 or more except between the hours of midnight to 6:00 a.m. on routes and at times designated by the Department of State Police.

Truck, or a Truck and Trailer, or a Truck-Tractor and Semitrailer: Movement not allowed transporting a quantity of more than 9,000 gallons within a county having a population of 600,000 or more, except between the hours of midnight to 6:00 a.m. on routes and times designated by the Department of State Police.

TABLE OF MAXIMUM ALLOWABLE GROSS AXLE LOADINGS					
Spacings Between	Normal Loadings When Seasonal Load		Seasonal Load Limitations		
Axles	Limitations Are Not In Force		(Speed Limit 35 MPH)		
	(Speed Limit 55 MPH)				
	Vehicles Exceeding	† Vehicles 80,000 lbs.	Rigid	Flexible	
	80,000 lbs. Gross	Or Under Gross			
	Weight	Weight			
9 feet or over	18,000 lbs.	20,000 lbs.	13,500 lbs.	11,700 lbs.	
More than 3 ½ feet but, less than 9 feet	13,000 lbs.	13,000 lbs.	9,750 lbs.	8,450 lbs.	
When part of a tandem axle assembly	*16,000 lbs.	34,000 lbs. on tandem	**12,000 lbs.	***10,400 lbs.	
When less than 3 ½ feet	9,000 lbs.	9,000 lbs.	6,750 lbs.	5,850 lbs.	
Maximum load on any wheel shall not					
exceed: (lbs. per inch of tire width)	700 lbs.	700 lbs.	525 lbs.	450 lbs.	

†Gross vehicle weight may not exceed 80,000 lbs. and the following: An overall gross weight on a group of 2 or more consecutive axles equaling:

Where W = overall gross weight on a group of 2 or more consecutive axles to the nearest 500 pounds.

L = distance in feet between the extreme of a group of 2 or more consecutive axles, and

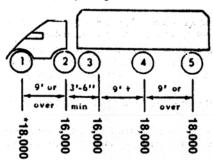
N = number of axles in the group under consideration; except that 2 consecutive sets of tandem axles may carry a gross load of 34,000 lbs. each if the first and last axles of the consecutive sets of tandem axles are not less than 36 feet apart, and the gross vehicle weight does not exceed 80,000 lbs. including all enforcement tolerances. Except for 5-axle truck tractor, semitrailer combinations having 2 consecutive sets of tandem axles, vehicles having a gross weight in excess of 80,000 lbs. or in excess of the vehicle gross weight determined by application of the formula in this subsection shall be subject to the maximum axle loads specified in column 2 (Normal Loadings When Seasonal Load Limitations Are Not In Force).

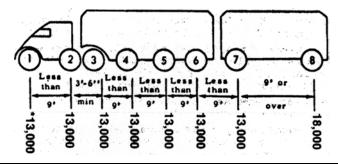
A vehicle or combination of vehicles, when utilizing an additional 5 miles from a "Special Designated Highway" for access to or from points of origin or destination, must reduce to the following weights when the route being traveled is under seasonal load limitations: Rigid route - 15,000 lbs. on a single axle, 12,750 lbs. per axle on a tandem axle assembly. Flexible route - 13,000 lbs. on a single axle, 11,050 lbs. per axle on a tandem axle assembly.

- * On any legal combination of vehicles, only one (1) tandem axle assembly shall be permitted at the gross weight of 16,000 lbs. per axle and no other tandem axle assembly in such combination of vehicles shall exceed a gross weight of 13,000 lbs. per axle. When the gross weight of a combination of vehicles with a load does not exceed 80,000 lbs., two (2) tandem axle assemblies shall be permitted at a gross weight of 16,000 lbs. per axle.
- ** On any legal combination of vehicles, only one (1) tandem axle assembly shall be permitted at the gross weight of 12,000 lbs. per axle and no other tandem axle assembly in such combination of vehicles shall exceed a gross weight of 9,750 lbs. per axle. When the gross weight of a combination of vehicles with a load does not exceed 80,000 lbs., two (2) tandem axle assemblies shall be permitted at a gross weight of 12,000 lbs. per axle.
- *** On any legal combination of vehicles, only one (1) tandem axle assembly shall be permitted at the gross weight of 10,400 lbs. per axle and no other tandem axle assembly in such combination of vehicles shall exceed a gross weight of 8,450 lbs. per axle. When the gross weight of a combination of vehicles with a load does not exceed 80,000 lbs., two (2) tandem axle assemblies shall be permitted at a gross weight of 10,400 lbs. per axle.

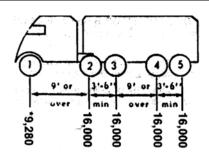
The following examples are shown as a guide for figuring the maximum allowable gross axle loads on all state trunk lines during all periods of the year.

* MINIMUM TIRE REQUIREMENTS: The maximum load on any wheel shall not exceed 700 lbs. per inch of tire width. Illustrations of Axle Spacings:





Public Act #300, 1949, Sec. 257.722, Paragraph 3

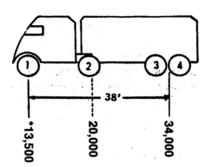


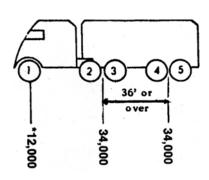
"When the maximum gross weight of a combination of vehicles with load does not exceed 80,000 lbs., 2 tandem axle assemblies shall be permitted at a gross permissible weight of 16,000 lbs. for any such individual axle."

Other Tandem Axles and Multi Axles

On any other combinations of vehicles exceeding a gross weight of 80,000 lbs., only one (1) tandem axle assembly shall be permitted at this weight (16,000 lbs. per axle). No other tandem axle assembly shall exceed 13,000 lbs. per axle.

Public Act #300, 1949 Sec. 257.722, Paragraph 8





W = 500
$$\frac{LN}{(N-1 + 12N + 36)}$$

W = 500 $\frac{38 \times 4}{(4-1 + 12 \times 4 + 36)}$
W = 500 x 134.6
W = 67,300 lbs., or rounded off to nearest 500 lbs. = 67,500

The state transportation commission, or a local authority with respect to highways under its jurisdiction, may designate a highway, or section of a highway, for the operation of vehicles having a gross vehicle weight of not more than 80,000 lbs. which do not exceed any of the following:

- (i.) Twenty thousand pounds on any 1 axle.
- (ii.) A tandem axle weight of 34,000 lbs. including all enforcement tolerances
- (iii.) An overall gross weight on a group of 2 or more consecutive axles equaling:W = 500 (LN + 12N + 36)

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Where W = overall gross weight on a group of 2 or more consecutive axles to the nearest 500 lbs.,
L = distance in feet between the extreme of a group of 2 or more consecutive axles, and
N = number of axles in the group under consideration; except that 2 consecutive sets of tandem axles may carry a gross load
of 34,000 lbs. each if the first and last axles of the consecutive sets of tandem axles are not less than 36 feet apart, and the
gross vehicle's weight does not exceed 80,000 lbs. including all enforcement tolerances. Except for 5-axle truck tractor, semitrailer combinations having 2 consecutive sets of tandem axles, vehicles having a gross weight in excess of 80,000 lbs. or in
excess of the vehicle gross weight determined by application of the formula in this subsection shall be subject to the maximum

SPECIAL PERMIT INFORMATION

axle loads specified in column 2 (normal loading when limitations are not in force) of the chart on the preceding page.

Vehicles or the loads thereon which exceed the legal dimensions or weights as listed, require a SPECIAL TRANSPORT PERMIT for travel. SPECIAL TRANSPORT PERMITS are issued only for the occasional movement of oversize or overweight vehicles or loads which cannot be dismantled, reduced, or otherwise rearranged to come within the legal limits. Application for permits are to be made through the Michigan Permit and Routing System (MiPARs) computer program, in person at one of MDOT's Transportation Service Centers (TSC's), or through a permit service. No overweight permits are issued when weight restrictions are in affect.

MAXIMUM TRUCK SPEED

No truck, tractor or tractor with trailer, or any combination of such vehicles with a gross weight, loaded or unloaded, in excess of 10,000 lbs., shall exceed the posted speed limit or the speed limit identified on the permit, which ever is less. Speed shall be reduced to 35 miles per hour where reduced loadings are being enforced during the period of seasonal weight restrictions.

SPECIAL DESIGNATED HIGHWAYS

These routes are highlighted in green and gold on MDOT's Truck Operators' Map. (Available at MDOT Transportation Service Centers and Michigan Weight Stations.)