



UW-Extension Forage Council Brat Fry

Requirements for
Farm Machinery on
Public Roads

Presented by:
Sergeant Mike Klingenberg
Wisconsin State Patrol

The background of the slide features a large, semi-transparent American flag that appears to be waving. The stars and stripes are clearly visible, with the blue field of stars on the left and the red and white stripes on the right. The flag is set against a light, hazy background.

What is an Implement of Husbandry?

- 340.01(24)(a) – General Definition
 - *A vehicle or piece of equipment or machinery*
 - **designed** *for agricultural purposes*
 - **used exclusively** *in the conduct of agricultural operations*
 - *and used principally **off the highway***
 - *or a trailer-mounted bulk liquid fertilizer container.*

The background of the slide features a stylized, semi-transparent American flag with its stars and stripes. The flag is oriented vertically, with the stars on the left and the stripes on the right. The colors are muted and blend into the white background of the slide.

What is an Implement of Husbandry?

- Does not include any:
 - *motor truck, farm truck, road tractor, truck tractor, or farm truck tractor or such a vehicle combined with a semitrailer, trailer or farm trailer, when the vehicle or combination*
 - *is a commercial motor vehicle operated on a highway.*
 - *A CMV is:*
 - *Over 26,000 lbs.*
 - *16 or more passengers*
 - *Carries a placardable amount of Hazardous Materials*

The background of the slide features a stylized, wavy American flag. The stars and stripes are rendered in a semi-transparent, artistic manner, creating a patriotic backdrop for the text.

What is an Implement of Husbandry?

- 341.01(2)(a) – Registration Definition
 - *A vehicle or piece of equipment or machinery*
 - **designed** *for agricultural purposes*
 - **used exclusively** *in the conduct of agricultural operations*
 - *and used principally **off the highway***
 - *or a trailer-mounted bulk liquid fertilizer container.*
- END OF DEFINITION- NOTHING ABOUT BEING A CMV

The background of the slide features a stylized, wavy American flag. The stars and stripes are rendered in a soft, semi-transparent manner, creating a patriotic backdrop for the text. The flag's colors are primarily red, white, and blue.

Further Clarification-

- ***designed*** for agricultural purposes
 - *Must have some modification so it is unique to agriculture operations.*
 - *Examples – walking floor, V-box, spreader*
 - *The modification should make it hard to be used for any other purpose*
- ***used exclusively*** in the conduct of agricultural operations
 - *If the vehicle is used for any purpose other than agriculture it is not an implement of husbandry*

The background of the slide features a stylized American flag with stars and stripes, overlaid on a light blue and white gradient. The flag is positioned behind the text, with the stars on the left and stripes on the right.

Further Clarification-

- and used principally ***off the highway***
 - *The State Patrol and DMV have agreed that the vehicle must have off-road tires*
 - tires that are designed for off-highway use
 - have an international speed symbol of A, B, C, D, E or F
 - or a speed rating not exceeding 50 miles per hour
 - equipped with special low-ratio gearing incapable of propelling the commercial motor vehicle at a speed exceeding 50 miles per hour
- *Motor trucks with on-road tires and gearing capable of freeway speeds should be registered as motor trucks or as farm trucks*

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Further Clarification-

- The State Patrol and DMV seek clarification on the registration exemption applicable to “implements of husbandry” to avoid frustrating farmers, truck owners, the public, courts, and themselves with possible inconsistent interpretations and actions.
- The procedures used to properly identify “implements of husbandry” is consistent with the **Okray Produce** decision, 132 Wis.2d 145 (1986)
- Hopefully statutory changes can be made to establish the procedures into law

The background of the slide features a large, semi-transparent American flag. The stars and stripes are clearly visible, with the stars in the upper left and the stripes extending across the bottom and right. The flag is set against a light blue and white background.

Use of registered farm trucks

- A motor truck registered as a farm truck under 38,000 lbs.
- may be used for personal and family purposes if
- the primary use of that motor truck is primarily for the **transportation of supplies, farm equipment and products on the owner's farm or between his or her farms**, the transportation of farm products from the **owner's farm to market**, and the transportation of **supplies to his or her farm**.
- A motor truck registered as a farm truck over 38,000 lbs can't be used for personal and family purposes.

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Use of registered farm trucks

- a registered farm truck may not be used
 - *in furtherance of any nonfarm occupation, trade, profession or other employment*
 - including *commuting to or from the place of such nonfarm occupation, trade, profession or employment.*
- This section does not apply to dual purpose registered farm trucks

The background of the slide features a stylized American flag with stars and stripes, appearing to wave. The flag is positioned behind the text, with the stars on the left and the stripes on the right.

Farm Truck Registration

- A motor truck that is owned or leased and operated by a farmer
- used primarily for the transportation of **supplies, farm equipment and products**
- on the **owner's** farm or between his or her farms,
- the transportation of farm products from the **owner's** farm to market,
- and the transportation of supplies to his or her farm.

When trucks are used in custom harvesting they are not being used on the owner's farm or used for transporting the farmer's products or supplies

REGULAR TRUCK PLATES MUST BE USED

The background of the slide features a stylized, wavy American flag with red and white stripes and a blue field with white stars. The flag is oriented vertically, with the top of the flag at the top of the slide.

Use of registered farm trailers

- 340.01(17)
 - *"Farm trailer" means a trailer or semitrailer*
 - *with a gross weight greater than 3,000 pounds*
 - *which is owned or leased and operated by a farmer*
 - *and is used exclusively for the transportation of farm products*
 - *from the owner's farm to market or for the transportation of supplies to the owner's farm.*

Transporting animals to fairs or competitions where the animal is not sold requires a regular trailer plate

Registration Exemptions

- 341.05(7)
 - *The vehicle is a **farm tractor** used exclusively in agricultural operations, including threshing,*
 - *or used exclusively to provide power to drive other machinery,*
 - *or to transport from job to job machinery driven by a farm tractor.*

"Farm tractor" means a motor vehicle designed and used primarily as a farm implement for drawing plows, mowing machines and other implements of husbandry.

The background of the slide features a stylized, wavy American flag. The stars and stripes are rendered in a semi-transparent, layered manner, creating a sense of movement and depth. The colors are vibrant, with the red and white stripes and the blue field with white stars being clearly visible.

Registration Exemptions

- 341.05(9)
 - *The vehicle is a trailer or semitrailer used exclusively for the transportation of farm machinery, implements, produce or supplies on a farm or between farms.*
- 341.05(13m)
 - *The vehicle is a trailer, semitrailer or camping trailer having a gross weight of 3,000 pounds or less and not used for hire or rental.*

The background of the slide features a stylized American flag with a wavy, flowing effect. The stars and stripes are visible, with the stars on the left and stripes on the right. A red horizontal line is positioned below the title.

Registration Exemptions

- 341.05(17)
 - *The vehicle is an implement of husbandry.*
- 341.05(28)
 - *the vehicle is a farm truck tractor being operated solely in intrastate transportation and*
 - *is transporting manure, grains, silage, haylage, or equipment*
 - *between fields or between a farm and a field at the time of operation or*
 - *is being operated from its point of purchase to the operator's farm.*
 - *This subsection does not apply to transportation by a common motor carrier or contract motor carrier.*

Regular Driver's License

- Exemptions:
- 343.05(4)(a)2.
 - *A person while temporarily operating or moving a farm tractor or implement of husbandry on a highway **between fields or between a farm and a field.***

Any other operation of an implement of husbandry requires a valid license

The background of the slide features a large, semi-transparent American flag that appears to be waving. The flag's stars and stripes are clearly visible, with the blue field of stars on the left and the red and white stripes on the right. The overall tone is patriotic and formal.

Operation of agricultural machinery by youthful operators

- 346.925(1)
- No person may direct or permit
- a child under the age of 16 years to operate a farm tractor or self-propelled implement of husbandry on the highway
- unless the child has been certified by successfully completing a safety training course.

The background of the slide features a stylized American flag with stars and stripes, overlaid on a light blue and white gradient. A thick red horizontal line is positioned below the title.

CDL Farmer Waiver

- 343.055(1)(c)
 - *The operator of the CMV is a farmer who is using the CMV*
 - *within 150 miles of the operator's farm to*
 - *transport agricultural products, farm machinery or farm supplies including transporting hazardous materials requiring placarding*
 - *to or from a farm*
 - *and the commercial motor vehicle is operated and controlled by a farmer*
 - *and not used in the operations of a common motor carrier or contract motor carrier*

Farmer includes farm employees or family members

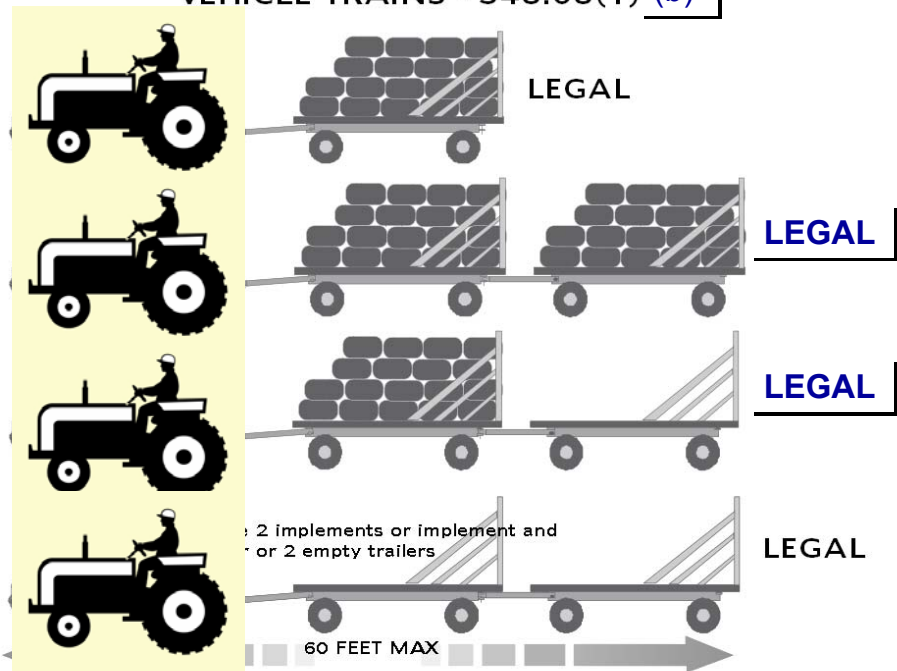
The background of the slide features a stylized American flag with stars and stripes, overlaid on a light blue and white gradient. The flag is positioned on the left and right sides, with the stars and stripes appearing to flow across the center.

Equipment Laws- Chapter 347

- 347.02 Applicability of chapter.
 - (1) *No provision of this chapter requiring vehicles to be equipped in a particular manner is applicable to any of the following vehicles unless the vehicle is expressly included within or made subject to the particular provision:*
 - (a) *Farm tractors and self-propelled farm implements.*
 - (b) *Implements of husbandry.*
 - (c) *Vehicles drawn by animals.*

Vehicle trains- Truck and Tractor usage

VEHICLE TRAINS - 348.08(1) (b)



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Lights on Ag trains- 347.21(1)

- No person shall operate on a highway **during hours of darkness** any train of vehicles
- unless there is mounted **on each side of every vehicle** in such train
 - *including farm tractors and implements of husbandry*
 - *at least one lamp emitting a red light visible from a distance of 500 feet to the side of the vehicle on which mounted*
 - *or at least one red reflector*
 - *or one slow moving vehicle emblem visible from all distances within 500 feet to 50 feet of the side of the vehicle when directly in front of lawful upper beams of headlamps.*

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Flags on Ag Trains - Daylight

- 347.21(2)
- No person shall operate on a highway
- At times other than hours of darkness
- Any train of agricultural vehicles authorized by s. 348.08 (1) (b)
- Unless there is displayed a **red flag** at least **12 inches square** on **each rear corner** of the **rearmost vehicle** in the train.

Lamps on farm tractors and self-propelled farm implements

- 347.22(1)
 - No person shall operate a farm tractor or self-propelled farm implement during hours of darkness unless it has:
 - 2 headlights to the front
 - And at least 1 red taillight to the rear
 - If made with 2 taillights then both must work

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Lamps and reflectors

- 347.24(1)(a)
- Implements of husbandry operating on the highway during hours of darkness
 - *2 white lamps or lanterns visible 500 feet to the front*
 - *2 red lamps or lanterns visible 500 feet to the rear or*
 - *2 red reflectors mounted between 16 to 60 inches above the ground and visible between 500 to 50 feet in highbeams*

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Wide machinery at night

- 347.24(1)(am)
- any implement of husbandry that extends 4 feet or more to the left of the center line of its towing vehicle
- Must be equipped with an **AMBER** reflector mounted on the left side, facing forward
- so as to mark the extreme width of the implement to drivers of oncoming vehicles.

Slow Moving Vehicle Emblem

- 347.245(1)
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**SMV not needed if flashing
yellow or amber light
4 inches in diameter
is displayed on the left rear**

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Trans 305- Equipment Laws

- Trans 305.02 Applicability.
- This chapter does not apply to the following vehicles:
 - *Farm tractors and self-propelled farm implements.*
 - *Implements of husbandry as defined in s. 340.01 (24), Stats.*
 - *Vehicles drawn by animals.*

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Chapter 348- Size, Weight and Load

- No general exemptions for farmers and implements of husbandry.
- Some sections may allow larger sizes
- But there is no extra weight allowed for farmers
- Roads are destroyed by weight

Weight damage

2005-05
Synthesis Report

Impacts of Overweight
Implements of Husbandry on
Minnesota Roads and Bridges



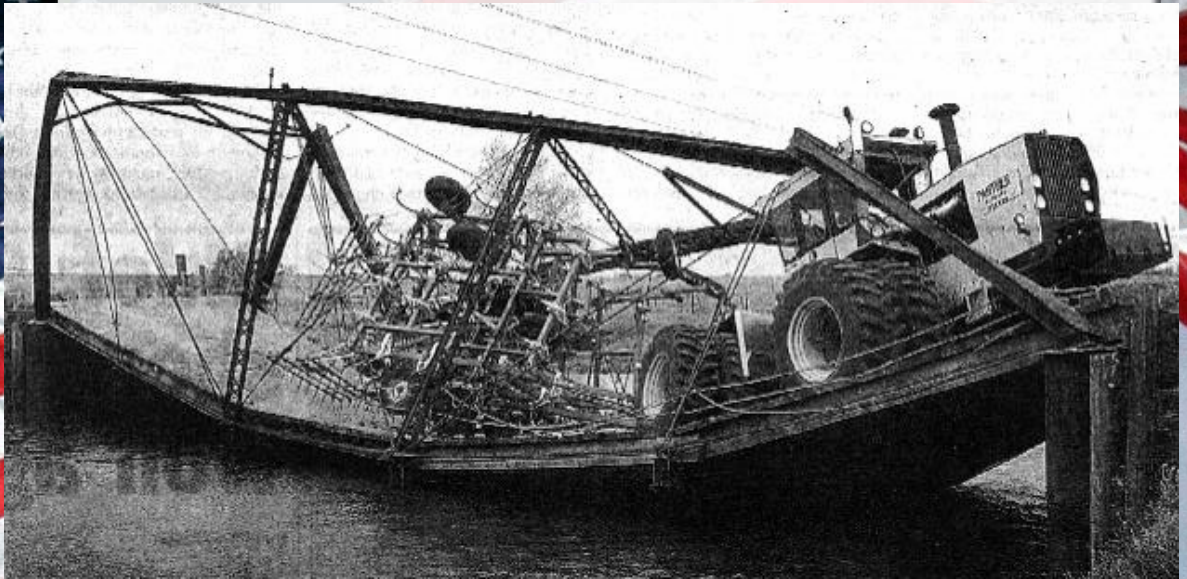
Synthesis



Weight damage



Weight damage



Width – 348.05

- Maximum legal width is 8 foot 6 inches
- 348.05(2)(a)
 - *No limitation for implements of husbandry temporarily operated upon a highway **in the course of performance of its work.***
- 348.05(2)(c)
 - *12 feet for farm tractors, except that the total outside width of a farm tractor shall not exceed 9 feet when operated on the Interstate.*

Width - continued

- 348.05(2)(L)
 - *12 feet for loads of hay if the total outside width of the loads do not exceed the width of a single traffic lane of any highway over which the loads are carried.*
 - *Not allowed on the Interstate.*

Width - continued

- 348.05(3)
 - *Farm tractors exceeding 12 feet in width and all other farm machinery and implements of husbandry exceeding 8 feet 6 inches in width*
 - *Not being operated in the course of performance of its work*
 - *May be moved, towed or hauled over the highways without a special permit*
 - *Between one-half hour before sunrise and sunset*
 - *Mondays to Thursdays*
 - *From one-half hour before sunrise to 2 p.m.*
 - *Fridays*
 - **Not allowed on Saturday and Sunday**
 - **Not allowed on the Interstate**

Height – 348.06

- Maximum height is 13 feet 6 inches
- 348.06(2)
 - *Implements of husbandry of any height may be temporarily operated upon a highway*
- 348.06(3)
 - *The limitations on total height stated in this section shall not be construed as requiring a clearance of such height or as relieving the owners of vehicles not exceeding such total height from liability for any damage.*

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Length – 348.07

- 348.07(1)
 - *Single vehicle = 40 feet*
 - *Combination of 2 vehicles = 65 feet*
- 348.07(2)(e)
 - *No length limitation for implements of husbandry temporarily operated upon a highway.*
- Except vehicle trains discussed earlier

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Projecting loads - Side

- 348.09(1)
 - *No person may operate any motor vehicle, trailer or semitrailer*
 - *carrying any load extending beyond the fender line on the left side*
 - *6 inches beyond the fender line on the right*
- 348.09(2)
 - *This section applies even though the total width of the vehicle and load does not exceed 8 foot 6 inches.*

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348.10 - Special limitations on load.

- 348.10(1)
 - *No more than 3 feet to the front*
- 348.10(2)
 - *No person shall operate a vehicle on a highway unless such vehicle is so constructed and loaded **as to prevent its contents from dropping, sifting, leaking or otherwise escaping therefrom.***

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348.10 - Special limitations on load.

- 348.10(5)
 - *The load imposed upon trailers or semitrailers shall be distributed in a manner that will **prevent side sway** under all conditions of operation*
- 348.10(5)(a)
 - *All items of load carried by any trailer, semitrailer or mobile home*
 - *Except bulk material such as sand, gravel, dirt not in containers*
 - *Shall be secured to, on or in the trailer*
 - *To prevent shifting of the load*

Gravity is not a securement method!

348.10 - Special limitations on load.

- 348.10(5)(c)
 - *The load carried by any trailer, semitrailer or mobile home*
 - *Shall be so positioned that a weight of not less than 35 pounds*
 - *Is imposed at the center of the point of attachment to the towing vehicle when parked on a level surface.*



Weight – 348.15

- No exemptions to weight laws for implements of husbandry
- General Weight laws
 - *Single axle = 20,000 lbs.*
 - *4 foot tandem = 34,000 lbs.*
 - *8 foot tandem = 38,000 lbs.*
 - *10 foot tandem = 40,000 lbs (MAX)*
 - *8 foot tri-axle = 42,000 lbs.*
 - *16 foot tri-axle = 48,000 lbs.*
 - *32 foot tri-axle = 60,000 lbs. (MAX)*

Weight – 348.15

- General weight laws
 - *12 foot quad-axle = 55,500 lbs*
 - *Maximum weight for straight truck*
 - *80,000 lbs*
 - *Must have 7 axles 34 feet between first and last axle*
 - *Maximum weight for truck and trailer*
 - *80,000 lbs*
 - *Must have 5 axles 51 feet between first and last axle*

**Overweight permits are issued for
non-divisible loads only**

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Class B Highways – 348.16

- Authority in charge of maintenance can declare a road Class B
 - *60% of normal weights allowed*
 - *Signs must be posted*
- Any motor vehicle whose operation is pickup or delivery, including operation for the purpose of moving or delivering supplies or commodities
- to or from any place of business or residence that has an entrance on a class "B" highway
- may pick up or deliver on a class "B" highway at normal weights.

Rules of the Road – Chapter 346

- You must follow all the rules of the road:
- Driving, meeting, overtaking and passing.
- Right-of-way
- Turning and stopping requirements
- Traffic signs, signals and markings.
- Required stops
- Speed restrictions
- Reckless and drunken driving
- Accidents and accident reports.
- Miscellaneous rules.



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Slow Moving Traffic

- Any vehicle proceeding upon a roadway at less than the normal speed of traffic,
- Shall be driven in the right-hand lane then available for traffic, or as close as practicable to the right-hand edge or curb of the roadway.

EXCEPT when overtaking and passing another vehicle, or when preparing to make a left turn.

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Right of Way

- The operator of a vehicle entering a highway from a non-highway access
- shall yield the right-of-way to all vehicles approaching on the highway the operator is entering.

Driveways, farm or field access, etc.

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Minimum speed - 346.59

- The operator of a vehicle moving at a speed so slow as to impede the normal and reasonable movement of traffic shall, if practicable,
- yield the roadway to an overtaking vehicle whenever the operator of the overtaking vehicle
- gives audible warning with a warning device
- and shall move at a reasonably increased speed or yield the roadway to overtaking vehicles when directed to do so by a traffic officer.

Prohibited Acts – 346.94

- (5) Placing injurious substance on highway.
 - ***No person shall place or cause to be placed upon a highway any foreign substance which is or may be injurious to any vehicle or part thereof.***
- (7) Spilling loads of waste or foreign matter.
 - ***The operator of every vehicle transporting waste or foreign matter on the highways of this state shall provide adequate facilities to prevent such waste from spilling on or along the highways.***

