

# Overview of Changes to Agricultural Vehicle Laws

**2016 SPRING  
BIOSOLIDS SYMPOSIUM**

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# To or from a farm-related destination

[S.348.01(2)(cm) Wis.Stats.]

2015 WI Act 232. Effective March 3, 2016

With respect to operating or transporting an implement of husbandry (IoH) or an agricultural commercial motor vehicle (Ag CMV), means movement between or among farms, fields, agricultural storage or processing facilities, locations where the IoH or Ag CMV is stored, or any combination of the foregoing.

# Is it an IoH or Ag CMV?

- A. Vehicle Definition
- B. Vehicle Requirements
  1. Size Dimensions and Weight
  2. Lighting and Marking
  3. Safety Inspections
- C. Routes-Permits



# What is an IoH?

IoH means Implement of Husbandry.  
State Law defines an IoH as:



A **SELF-PROPELLED**  
or **TOWED VEHICLE**  
manufactured,  
designed, or  
reconstructed to be  
used and that is  
**EXCLUSIVELY** used  
in the conduct of  
agriculture.

A **COMBINATION OF VEHICLES**  
in which each  
vehicle in  
the  
**COMBINATION**  
is an IoH

**OR**

in which an **IoH** farm  
wagon, farm trailer,  
manure trailer, is  
**TOWED** by a farm  
truck, farm truck  
tractor, or motor truck.

# IoH Categories



## Category A

Farm Tractors

## Category B

Self-Propelled

- Harvesters (e.g forage, combines, potato, pea)
- Chemical or fertilizer application equipment, not including manure
- Any other self-propelled vehicle that directly applies fertilizer, spray or seeds but not manure , or distributes feed to livestock

Towed and attached tillage, planting and cultivation equipment and it's power unit

## Category C

Farm wagon, grain cart, farm trailer, manure trailer, or trailer adapted to be towed by or to tow or pull, another IoH

# IoH Definition – cont.



IoH **does not include** any of the following:

1. An agricultural commercial motor vehicle.
2. A vehicle that is a commercial motor vehicle under 49 CFR 390.5\*:
  - Has a gross vehicle weight rating or
  - gross combination weight rating, or
  - gross vehicle weight or
  - gross combination weight, of
  - 10,001 pounds or more, whichever is greater

# Track Vehicles

An IoH equipped with rubber tracks or tracks made of equivalent material may be operated on a highway if such operation *will not injure* the highway.



**s. 347.45(5) Wis. Stats.**

Wisconsin law makes the operator of any vehicle liable for damage to the highway.

# IoH Width



- No width limit for IoH operated or towed/pulled on any highway, including Interstate (unless trailered).
- Additional lighting and marking requirements for “wide” IoH.

Effective- 11-01-15

# IoH Lighting and Marking



# Lamps and Markings



**Lamps** visible within 500 feet.

**Marking materials** – **Sized** and **maintained** to be visible during hours of darkness from all distances within 500 feet when directly in front of lawful upper beams of headlamps.

# IoH Marking and Lighting

Identification emblem on certain slow moving vehicles

- Must be displayed on any vehicles or equipment, including animal drawn, which usually travels less than 25 mph
- Displayed day or night



# IoH Marking and Lighting

## Self-Propelled IoH and Farm Tractors, not meeting wide IoH definition

During hours of darkness, operated upon or parked within the right-of-way, are required to have:

At least:

- **2 white head lights (lamps)** visible ahead and
- **1 red tail lamps** (if manufactured with 2 then both must be working)

or

- **2 red reflectors** displayed on the rear

**Work lights** should not be used when operating on roads.

# Marking and Lighting Standards

## Towed IoH – Not meeting wide IoH definition

During hours of darkness, operated on the highway are required to have:

At least:

- **1 red tail lamps** (if manufactured with 2 then both must be working)

or

- **2 red reflectors** displayed on the rear



# IoH Lighting and Marking

Hours of Darkness: 340.01(23)

During hours of darkness, any **IOH** that extends 4 feet or more to the left of the centerline of the power unit, requires

## **1 amber reflector**

mounted on the left side facing forward marking the extreme width



# “Wide” IoH

**Any** IoH exceeding **15 feet** in total width or **that extend over the center** of the roadway into a lane intended for the opposite direction of travel.



s. 347.24(3) Wis. Stats.  
Effective- 11-01-15

# Lighting -Self - Propelled



Self-propelled IoH (including farm tractors) exceeding **12 ft** in width must have:

- 360-degree yellow or amber rotating strobe or beacon light mounted at highest practical point, visible to front and rear

**or**

- 2 flashing amber lights visible to the front and rear

## **NOTE:**

- Lights activated at all times on the highway
- Any attachment to a self-propelled IoH or farm tractor is included in the vehicle's width.

s.347.25(2g) Wis. Stats.  
Effective- 11-01-15

# Wide loH – Lighting and Marking

- Any lamp or light required must be on and visible **at the time of operation** on a highway.
- At least **2 amber** flashing warning lamps visible to the front and rear.
- Mounted to indicate the extreme width-but not more than **16 inches** from extremities of the loH.

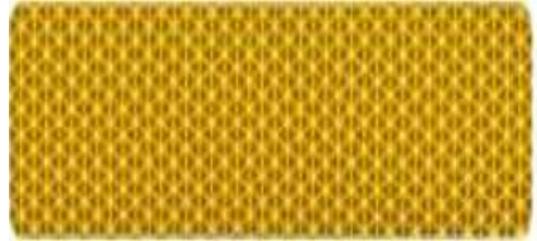


ss. 347.24(3b)  
Effective- 11-01-15

# Wide loH – Lighting and Marking

At least **2 strips of yellow** retroreflective material:

- Visible to the front of the implement of husbandry.
- Mounted within 16 inches of the extreme left and right of the loH.



Effective- 11-01-15

# Wide loH – Lighting/Marking

Red retroreflective material:

- visible to the rear
- mounted within 25 inches of the extreme left and extreme right of the loH and spaced as evenly as practicable.

Effective- 11-01-15



# Wide loH- Lighting/Marking



- At least **2 red tail lights** mounted symmetrically to the rear or as close to the rear as practicable.



- Tail lights are not required to be hardwired to headlights.

Effective- 11-01-15

In addition to all lighting and marking,  
**Wide IoH Exceeding 22 ft**

Must have an escort vehicle  
with hazard lights on:

- In front of IoH on two lane highway
- Behind IoH on highway with more than two lanes

Escorts are not needed for incidental travel  
(1/2 mile or less)



**Effective- 11-01-15**

# Wide IoH – Escort Exemption

During times other than hours of darkness extra lighting and marking are not required if:

- Accompanied by an escort vehicle operating with hazard lights on and;
- Two orange or red flags
  - not less than 12 inches square are attached to the rear of the wide IoH
  - to clearly mark extreme left and extreme right of the wide IoH



# Agricultural Commercial Motor Vehicle (Ag CMV)



s. 340.01(10) Wis. Stats.  
Effective 4-24-14

# Ag CMV Definition

An Ag CMV is a **commercial motor vehicle** to which all of the following apply:

- a. Substantially designed or equipped, or materially altered from its original construction, for the purpose of agricultural use.
- b. Designed and manufactured primarily for highway use
- c. Manufactured to meet federal motor vehicle safety standard certification label requirements 49 CFR 567, after 1970.
- d. Used exclusively in the conduct of agricultural operations

# Ag CMV Definition

- e. The vehicle is being used in any of the following ways:
  1. For directly distributing feed to livestock or for directly applying fertilizer (but not manure), lime, spray, or seeds to a farm field. (Category 1)

Remember – all of the previous parts of the definition must apply to vehicles described in (e).



# Ag CMV Definition

- e. The vehicle is being used in any of the following ways:
  - 2. For assisting another vehicle directly harvesting farm products by receiving farm products as they are harvested or for assisting another vehicle directly planting potatoes by delivering seed potatoes to the planter. (Category 2)



Remember – all of the previous parts of the definition must apply to vehicles described in (e).

# Ag CMV Definition

- e. The vehicle is being used in any of the following ways:
  - 3. For directly applying manure to a farm field or for off-loading manure if field conditions do not permit application by the vehicle directly to the field. (Category 3)

Remember – all of the previous parts of the definition must apply to vehicles described in (e).



# Ag CMV Definition



These are  
not Ag CMVs.



# Ag CMV

- Ag CMV self-certification form (MV 2580 7/2015) is available on WisDOT website [s.348.03 Wis. Stats.]
- Ag CMV and CMV must meet all State and Federal equipment and safety standards, and inspections.
- Ag CMVs are exempt from registration fees [s.341.05(17) Wis. Stats.].

# Ag CMV Dimensions

- Height: 13 feet 6 inches
- Width: 10 feet including all accessories or attachments **except:**
  - Ag CMVs spraying pesticides or spreading lime or fertilizer (not manure) may have tires, fenders or fender flares that extend up to 12 feet.

Federal law does not allow for Ag CMVs exceeding 8 feet 6 inches in width to operate on the Interstate. Contact WisDOT for an oversize permit.

# Weight – IoH and Ag CMV

Weights GENERALLY increased by 15% for IoH and Ag CMV over the Federal Bridge Formula (FBF).

- Maximum GVW 92,000 lbs
- Maximum Axle weight 23,000 lbs
- IoH/Ag CMV Weight Table reflects necessary number of axles and axle spacing



**Effective- 04-23-14**

# Weight – IoH and Ag CMV

- In 348.15(3)(c) Single vehicles with 4, 5 and 6 axles are already set 15% over the FBF.

These vehicles do not get additional allowances in the IoH/Ag CMV Weight Table.

- IoH/Ag CMV weight allowances DO NOT apply on the Interstate Highway System.

**Exception:** I-41 Corridor.



Effective- 04-23-14

# Weight – IoH and Ag CMV

Implement of Husbandry/Ag CMV Maximum Weight Limitations Table

[\$348.15(3)(g)]

A - Distance in feet between foremost and rearmost axles of a group*	B - 2 axles of a vehicle or combination of vehicles	C - 3 axles of a vehicle or combination of vehicles	D - 4 axles of a vehicle or combination of vehicles	E - 5 axles of a vehicle or combination of vehicles	F - 6 axles of a vehicle or combination of vehicles	G - 7 Axles of a vehicle or combination of vehicles	H - 8 Axles of a vehicle or combination of vehicles
4	39,500						
5	40,500						
6	41,500						
7	43,000	47,500					
8	44,000	48,500					
9	45,000	49,500					
10	46,000	50,500	56,000				
11		51,000	57,000				
12		52,000	57,500				
13		53,000	58,500				
14		53,500	59,500	65,500			
15		54,500	60,000	66,000			
16		55,500	61,000	67,000			
17		56,500	61,500	67,500	74,000		
18		57,000	62,500	68,500	75,000		
19		58,000	63,000	69,000	75,500		
20		59,000	64,000	70,000	76,000		
21		60,000	64,500	70,500	77,000	83,500	
22		60,500	65,500	71,500	77,500	84,000	
23		61,500	66,000	72,000	78,000	84,500	
24		62,500	67,000	72,500	79,000	85,500	92,000

Axles must be at least 42 inches apart to qualify as a separate axle and must bear at least 8% of the GVW.



# Weight – Fines

Amount of overweight violation based on statutory limit in the 348.15(3)(c) table, not the IoH/AG CMV allowance 348.15(3)(g) **[including NFP violations]**

**Example:**

**IoH weighing 96,000 lbs. GVW – with no permit**

- Violation based on max. 80,000 lbs. GVW – not 92,000 GVW =16,000 lbs. over





**No-Fee Permit**  
**Effective January 1, 2015**

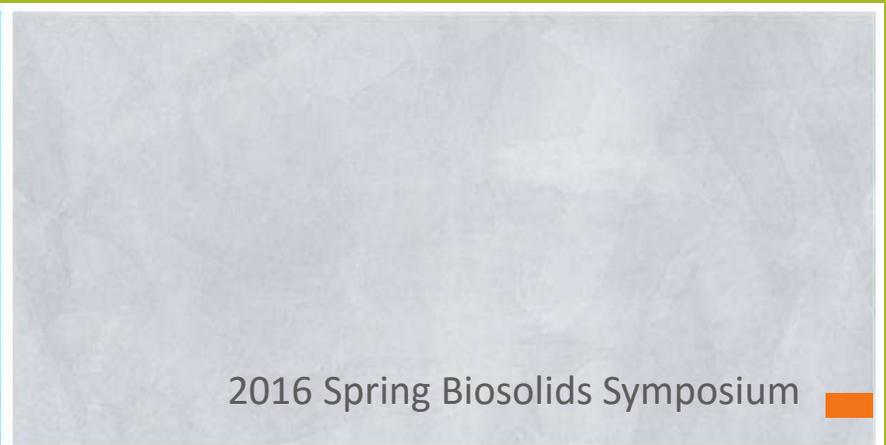
# No Fee Permits

MA may issue:

- for roads in their jurisdiction.
- with conditions of operation
- for posted roads but **not for posted bridges**

MA must receive permits in electronic format, postal mail or in-person.





2016 Spring Biosolids Symposium 



# Overview of IoH and Ag CMV laws

