

**Michigan Manure Haulers Certification and Performance Standards**  
**Checklist for Equipment Certification**  
**Bronze Level of Performance**

Current as of August 7, 2020

This is information you will need to have and the standards you will need to meet for your inspection. Several areas require additional documentation (for example, calibration of tankers, flow meters, etc.). For flow meters, attach a copy of the form provided by the firm doing the calibration. For tankers, a written record of the required information is sufficient. Forms should be submitted once every calendar year.

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**Equipment Operated**

- Liquid tankers (includes, but not limited to: tractor pulled, straight trucks, semis)
    - Method of manure application
      - Top dress
      - Deep injection
      - Shallow injection
      - Incorporation (rolling tines or coulters)
    - Description \_\_\_\_\_
    - Equipment serial number/VIN/other ID \_\_\_\_\_
  
  - Method of manure application
    - Top dress
    - Deep injection
    - Shallow injection
    - Incorporation (rolling tines or coulters)
  - Description \_\_\_\_\_
  - Equipment serial number/VIN/other ID \_\_\_\_\_
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- Draglines (includes, but not limited to transfer pumps, agitators, hoses, (including hard hose and pipe systems))
  - Description \_\_\_\_\_
  - Equipment serial number/VIN/other ID \_\_\_\_\_
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- Description \_\_\_\_\_
- Equipment serial number/VIN/other ID \_\_\_\_\_

(Duplicate requested information for each piece of equipment)

## **BRONZE LEVEL OF PERFORMANCE**

### **General Requirements**

- All equipment is maintained so that manure does not leak during transportation.
- All equipment is calibrated and documentation (including the date, driver name, equipment serial number/VIN/other ID, calibration method, and result) is attached to this form.
- In the event of a spill, one person is designated to stay at the spill site until cleanup is complete. This person will be the primary contact for the farmer, agencies, and employees if questions arise or decisions need to be made.
- The goal is no spillage on public roads. Any manure that is spilled on the public roads must be dealt with immediately.
- Anyone on a farm who applies manure or who supervises anyone who applies manure, or anyone employed by a commercial manure application firm who applies manure or supervises anyone who applies manure, has completed the Michigan State University Extension online course, or if completed the course, is currently certified.
- The farm or firm has a spill response plan.
- Spill response plan is reviewed with all staff/employees annually.
- Conduct daily equipment inspection.

### **Liquid tankers**

- A small amount of drippage may occur from manure that is between the valve and the end of the splash pan, but the valve is tight when not applying in the field.
- Tank and running gear structurally sound, including tires, suspension, and hitch points.
- All guards, shields, and safety equipment are in place.
- Safety chains and draw pins or capturing device/transport locks are in place and sized properly.

### **Drag hose systems**

- System is in good working order, hoses and fittings are free of leaks.
- At least one properly installed, maintained, and working flow meter for each drag line system in use.
- Wear ring, impeller, and/or mechanical seal on back of lead and booster pumps worn or damaged.
- Method of shutting off/idling down the pump within 30 seconds of leak detection is:
  - Operator at manure storage
  - Electronic/Remote
- Safety chains and draw pins or capturing device/transport locks are in place and sized properly.