



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Solid Manure Staging

Confined Feeding Operation (CFO) Compliance Section, Office of Land Quality

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Description:

- Manure staging is the temporary placement of solid manure in a pile at a site where the manure will be land applied.
- Solid manure staging described in this fact sheet is most commonly related to poultry animal waste, although it may apply to other animal species with wastes that are not liquid.
- Ensuring that staged manure is managed according to Indiana's manure staging requirements is the responsibility of: the land owner of the property where the manure is being staged; the person who owns the manure; the person who controls cropping practices of the field; and/or the person transporting or staging the manure.
- These rules apply to any person who uses or distributes ten (10) cubic yards or more of manure, confined feeding operations (CFOs), and federally-regulated concentrated animal feeding operations (CAFOs) located in Indiana, as well as manure that is generated in another state and staged in Indiana. (*Indiana's definitions for an AFO, CFO and CAFO are found in the Indiana Administrative Code under [327 IAC 19](#), [327 IAC 15-16](#), and [Indiana Code 13-11-2-38.3](#).)*
- If the source of the manure is a farm located in Indiana and is large enough to be considered a CFO or CAFO, the manure must be staged in compliance with:
 - requirements specified for confined feeding operations in the Indiana Administrative Code under [327 IAC 19-14-4 \(a\) & \(b\)](#) or
 - the provisions for Fertilizer Material Use, Distribution and Record Keeping found in the Indiana Administrative Code under [355 IAC 8-4-2](#).
- Even small Indiana farms that are not required by law to obtain approval from IDEM's CFO program for construction or operation must manage their manure/organic fertilizer so that it:
 - does not cause a discharge in violation of state statute for prohibited acts (*found in the [Indiana Code 13-30-2-1](#)*), and
 - meets the Fertilizer Material Use, Distribution and Record Keeping provisions found in the Indiana Administrative Code under [355 IAC 8](#).
- It is required that anyone who uses or distributes ten (10) cubic yards or more of manure not regulated under the state CFO program or the federal CAFO program follow manure staging requirements and best management practices (BMPs) to minimize the potential for accidental spills and water quality violations.

Manure Staging Requirements and Best Management Practices (BMPs):

[The Indiana Department of Environmental Management \(IDEM\)](#) and [Office of Indiana State Chemist \(OISC\)](#) regulate the staging of manure in the state of Indiana and have developed requirements for CFO/CAFOs that must be followed when manure is being staged.

- Manure that is staged must be placed in an area:
 - with a slope of less than six percent.
 - that does not have standing water or a waterway.
 - that is not within 300 feet of surface waters of the state (including water in intermittent waterways), drainage inlets, or water wells.
 - that is not a floodplain, if staged for more than 72 hours.
- Manure/organic fertilizer staged for more than 72 hours must be:
 - effectively covered or bermed to prevent storm water run-on and run-off.
 - land applied to the site within 90 days of staging.
 - set back 100 feet from property lines and public roads.
 - set back 400 feet from residential buildings.

- In addition to the requirements listed here, IDEM and OISC also require that anyone staging and land applying manure follow these best management practices (BMPs):
 - manure applied to the land must be applied at an agronomic rate for the crop that is being grown or is to be planted.
 - pay attention to weather forecasts prior to applying manure. Avoid applying prior to forecasted rainfall events; this will help prevent run-off.
- IDEM and OISC also recommend that anyone staging manure and/or land applying manure follow these best management practices (BMPs):
 - the use of insecticide to help control vectors such as flies and beetles may be beneficial at staged manure sites in populated areas.
 - apply manure at a time when the existing or planned crops can best use the nutrients.

Environmental Impacts:

Statutes and regulations for manure storage and the land application of manure are designed to protect water quality. Properly storing and staging manure is protective of water quality. Following the staging requirements and best management practices (BMPs) outlined in this fact sheet will limit environmental impacts to water.

IDEM's and OISC's Roles:

- IDEM is responsible for protecting Hoosiers and our environment while providing for safe industrial, agricultural, commercial and government activities vital to a prosperous economy.
- IDEM has jurisdiction over state rules for solid manure staging that are found in the Indiana Administrative Code at [327 IAC 19](#) and [327 IAC 15-16](#).
- OISC has jurisdiction over state rules for solid manure staging that are found in the Indiana Administrative Code at [355 IAC 8](#), and is responsible for certifying individuals who haul, apply, use and distribute organic fertilizer, and for overseeing their compliance with record keeping requirements.

Citizen's Role:

- The landowners and citizens of Indiana play an important role in the protection of water quality by taking proactive measures designed to prevent impacts.
- IDEM currently does not regulate odor from staged manure, however consideration should be given to nearby homes, and manure should be stored in a location and manner to minimize any nuisance conditions.
- Citizens should report concerns about pollution from manure to IDEM. To report improperly staged manure and emergency manure spills, contact IDEM's 24-hour, toll free spill line at (888) 233-7745.
- Citizens are also advised that law enforcement authorities enforce Indiana's leaky load law. Where a public road has been littered from manure that has leaked while in transport, citizens should report the problem to law enforcement for the city, county or state road where the problem is observed.

More Information:

- Direct questions to IDEM's Agricultural Liaison at (317) 232-8587 or (800) 451-6027 (toll free), IDEM's CFO Compliance Section Chief at (317) 234-6965 or (800) 451-6027 (toll free), or the Office of Indiana State Chemist at (800) 893-6637 (toll free).
- The Fertilizer Material Use, Distribution and Record Keeping rule, www.IN.gov/legislative/iac/T03550/A00080.pdf
- Purdue University Extension Service's publication *Control of Poultry Pests*, www.extension.entm.purdue.edu/publications/E-3.pdf
- Purdue University's website for CAFO topics, www.ansc.purdue.edu/cafo/.
- Website for IDEM, www.idem.IN.gov; website for OISC, www.isco.purdue.edu.
- Indiana's Confined Feeding Rule-www.in.gov/legislative/iac/T03270/A00190.PDF? and Indiana's Concentrated Animal Feeding Rule, 327 IAC 15-16, www.in.gov/legislative/iac/T03270/A00150.PDF?
- Indiana's statute on prohibited acts (IC 13-20), www.IN.gov/legislative/ic/code/title13/ar30/ch2.html
- For Indiana's Leaky load law (IC 9-21-8-48), www.IN.gov/legislative/ic/code/title9/ar21/ch8.html
- For the definition for CAFO in Indiana statute, www.in.gov/legislative/ic/code/title13/ar11/ch2.html#IC13-11-2-38.3