



University of Arkansas Division of Agriculture

An Agricultural Law Research Project

Application Restrictions Statutes & Regulations

Iowa

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Application Restrictions

STATE OF IOWA

- 1) **Iowa Code § 459.313; 567 IAC 65.3**
- 2) **Iowa Code §§ 459.313A, 314; 567 IAC 65.3**
- 3) **567 IAC 65.201; Iowa Code § 459A.410**

The statutes and Constitution are current through the 2018 regular and special legislative sessions. The statutes are subject to changes by the Iowa Legislative Council.

1) **Iowa Code § 459.313; 567 IAC 65.3**

§ 459.313. Manure application – rules.

1. The department shall adopt rules governing the application of manure originating from an anaerobic lagoon or aerobic structure which is part of a confinement feeding operation. The rules shall establish application rates and practices to minimize groundwater or surface water pollution resulting from application, including pollution caused by runoff or other manure flow resulting from precipitation events. The rules shall establish different application rates and practices based on the water holding capacity of the soil at the time of application.
2. A person shall not apply manure by spray irrigation equipment, except as provided by rules adopted by the department pursuant to chapter 17A. However, a person shall not use restricted spray irrigation equipment to apply manure originating from a confinement feeding operation, unless the manure has been diluted as provided by rules adopted by the department, including diluted by use of an anaerobic lagoon.

567–65.3 (459,459B) Requirements and recommended practices for land application of manure.

65.3(1) *Application rate based on crop nitrogen use.* A confinement feeding operation that is required to submit a manure management plan to the department under rule 567–65.16(459,459B) shall not apply manure in excess of the nitrogen use levels necessary to obtain optimum crop yields. Calculations to determine the maximum manure application rate allowed under this subrule shall be performed pursuant to rule 567-65.17(459,459B).

65.3(2) *General requirements for application rates and practices.*

- a. For confinement feeding operations required to submit a manure management plan to the department under rule 567-65.16(459,459B), application rates and practices shall be determined pursuant to rule 567-65.17(459,459B).

b. For manure originating from an anaerobic lagoon or aerobic structure, application rates and practices shall be used to minimize groundwater or surface water pollution resulting from application, including pollution caused by runoff or other manure flow resulting from precipitation events. In determining appropriate application rates and practices, the person land-applying the manure shall consider the site conditions at the time of application including anticipated precipitation and other weather factors, field residue and tillage, site topography, the existence and depth of known or suspected tile lines in the application field, and crop and soil conditions, including a good-faith estimate of the available water holding capacity given precipitation events, the predominant soil types in the application field and planned manure application rate.

c. Spray irrigation equipment shall be operated in a manner and with an application rate and timing that does not cause runoff of the manure onto the property adjoining the property where the spray irrigation equipment is being operated.

d. For manure from an earthen waste slurry storage basin, earthen manure storage basin, or formed manure storage structure, restricted spray irrigation equipment shall not be used unless the manure has been diluted with surface water or groundwater to a ratio of at least 15 parts water to 1 part manure. Emergency use of spray irrigation equipment without dilution shall be allowed to minimize the impact of a release as approved by the department.

65.3(3) *Separation distance requirements for land application of manure.* Land application of manure shall be separated from objects and locations as specified in this subrule.

a. For liquid manure from a confinement feeding operation, the required separation distance from a residence not owned by the titleholder of the land, a business, a church, a school, or a public use area is 750 feet, as specified in Iowa Code section 459.204. The separation distance for application of manure by spray irrigation equipment shall be measured from the actual wetted perimeter and the closest point of the residence, business, church, school, or public use area.

b. The separation distance specified in paragraph 65.3(3)"a" shall not apply if any of the following apply:

(1) The liquid manure is injected into the soil or incorporated within the soil not later than 24 hours after the original application.

(2) The titleholder of the land benefitting from the separation distance requirement executes a written waiver with the titleholder of the land where the manure is applied.

(3) The liquid manure originates from a small animal feeding operation.

(4) The liquid manure is applied by low-pressure spray irrigation equipment pursuant to paragraph 65.3(3)"d."

c. Separation distance for spray irrigation from property boundary line. Spray irrigation equipment shall be set up to provide for a minimum distance of 100 feet between the wetted perimeter as specified in the spray irrigation equipment manufacturer's specifications and the boundary line of the property where the equipment is being operated. The actual wetted perimeter, as determined by wind speed and direction and other operating conditions, shall not exceed the boundary line of the property where the equipment is being operated. For property which includes a road right-of-way, railroad right-of-way or an access easement, the property boundary line shall be the boundary line of the right-of-way or easement.

d. Distance from structures for low-pressure irrigation systems. Low-pressure irrigation systems shall have a minimum separation distance of 250 feet between the actual wetted perimeter and the closest point of a residence, a business, church, school or public use area.

e. Variances. Variances to paragraph "c" of this subrule may be granted by the department if sufficient and proposed alternative information is provided to substantiate the need and propriety for such action. Variances may be granted on a temporary or permanent basis. The request for a variance shall be in writing and include information regarding:

(1) The type of manure storage structure from which the manure will be applied by spray irrigation equipment.

(2) The spray irrigation equipment to be used in the application of manure.

(3) Other information as the department may request.

f. Agricultural drainage wells. Manure shall not be applied by spray irrigation equipment on land located within an agricultural drainage well area.

g. Designated areas. A person shall not apply manure on land within 200 feet from a designated area, or in the case of a high-quality water resource, within 800 feet, unless one of the following applies:

(1) The manure is land-applied by injection or incorporation on the same date as the manure was land-applied.

(2) An area of permanent vegetation cover, including filter strips and riparian forest buffers, exists for 50 feet surrounding the designated area other than an unplugged agricultural drainage well or surface intake to an

unplugged agricultural drainage well, and the area of permanent vegetation cover is not subject to manure application.

h. Setback requirements for confinement feeding operations with NPDES permits. For confinement feeding operations with NPDES permits, the following is adopted by reference: 40 CFR 412.4(a), (b) and (c)(5).

65.3(4) *Surface application of liquid manure on frozen or snow-covered ground.* A person who applies liquid manure on frozen or snow-covered ground shall comply with applicable NPDES requirements pursuant to the Act and also shall comply with the following requirements:

a. *Snow-covered ground.* During the period beginning December 21 and ending April 1, a person may apply liquid manure originating from a manure storage structure that is part of a confinement feeding operation on snow-covered ground only when there is an emergency.

b. *Frozen ground.* During the period beginning February 1 and ending April 1, a person may apply liquid manure originating from a manure storage structure that is part of a confinement feeding operation on frozen ground only when there is an emergency.

c. *What constitutes an emergency.* For the purposes of this subrule, an emergency application is only allowed when there is an immediate need to apply manure to comply with the manure retention requirement of subrule 65.2(3) due to unforeseen circumstances affecting the storage of the liquid manure. The unforeseen circumstances must be beyond the control of the owner of the confinement feeding operation, including but not limited to natural disaster, unusual weather conditions, or equipment or structural failure. The authorization to apply liquid manure pursuant to this subrule does not apply to either of the following:

(1) An immediate need to apply manure in order to comply with the manure retention requirement of subrule 65.2(3) caused by the improper design or management of the manure storage structure, including but not limited to a failure to properly account for the volume of the manure to be stored. Based on the restrictions described in paragraphs 65.3(4)"a" and "b" and the possibility that the ground could be snow-covered and frozen for the entire period of December 21 to April 1, an operation should not plan to apply liquid manure during that time period. Confinement feeding operations with manure storage structures constructed after May 26, 2009, and without alternatives to manure application must have sufficient storage capacity to retain manure generated from December 21 to April 1 under normal circumstances in order to properly account for the volume of manure to be stored. For confinement feeding operations that have no manure storage structures constructed after May 26, 2009, the department

will accept insufficient manure storage capacity as a reason for emergency application in the notification required in 65.3(4)"d"(1).

(2) Liquid manure originating from a confinement feeding operation constructed or expanded on or after July 1, 2009, if the confinement feeding operation has a capacity to store manure for less than 180 days.

d. *Procedure for emergency application.* A person who is authorized to apply liquid manure on snow-covered ground or frozen ground when there is an emergency shall comply with all of the following:

(1) The person must notify the appropriate department field office by telephone prior to the application. The department will not consider the notification complete unless the owner's name, facility name, facility ID number, reason for emergency application, application date, estimated number of gallons of manure to be applied, and the application fields as listed in the manure management plan are given. In cases where the emergency is not easily confirmed by weather reports, the owner must make documentation of the emergency available to the field office upon request.

(2) The liquid manure must be applied on land identified for such application in the current manure management plan maintained by the owner of the confinement feeding operation as required in subrule 65.17(12). The land must be identified in the current manure management plan prior to the application, and that change must also be reflected in the next annual update or complete manure management plan submitted to the department and county boards of supervisors following the application as required in paragraph 65.16(3)"b."

(3) The liquid manure must be applied on a field with a phosphorus index rating of 2 or less.

(4) Any surface water drain tile intake that is on land in the owner's manure management plan and located downgradient of the application must be temporarily blocked beginning not later than the time that the liquid manure is first applied and ending not earlier than two weeks after the completion of the application.

(5) Additional measures to contain runoff may be necessary in order to prevent violation of federal effluent standards in 567--subrule 62.4(12).

e. *Exceptions.* Paragraphs 65.3(4)"a" through "d" do not apply to any of the following:

(1) The application of liquid manure originating from a small animal feeding operation.

(2) The application of liquid manure injected or incorporated into the soil on the same date.

65.3(5) Recommended practices. Except as required by rule in this chapter, the following practices are recommended:

a. *Nitrogen application rates.* To minimize the potential for leaching to groundwater or runoff to surface waters, nitrogen application from all sources, including manure, legumes, and commercial fertilizers, should not be in excess of the nitrogen use levels necessary to obtain optimum crop yields for the crop being grown.

b. *Phosphorous application rates.* To minimize phosphorous movement to surface waters, manure should be applied at rates equivalent to crop uptake when soil tests indicate adequate phosphorous levels. Phosphorous application more than crop removal can be used to obtain maximum crop production when soil tests indicate very low or low phosphorous levels.

c. *Manure application on frozen or snow-covered cropland.* Application of dry or liquid manure on frozen or snow-covered cropland should be avoided where possible. If manure application must take place in the winter time, the following are guidelines to minimize runoff and subsequent loss of nutrients.

(1) Apply manure to areas where land slopes are 4 percent or less or where control practices are sufficient to prevent runoff from reaching surface water or groundwater during winter.

(2) If applying manure on a terraced field or sloping field, avoid application to areas that drain to tile intakes that directly discharge to surface water or groundwater.

(3) Do not apply manure in grassed waterways.

(4) Apply manure early in winter prior to significant snowfall.

(5) Avoid application near tile intakes, ditches, gullies, areas of concentrated flow, creeks, streams, lakes, and other surface water.

(6) Avoid application near water wells, sinkholes, losing streams, areas with shallow bedrock, agricultural drainage wells, or other pathways to groundwater.

(7) Do not apply manure on top of deeper snow cover, especially in late winter.

(8) Applying manure on soybean stubble where less snow is captured is preferable to applying manure on standing cornstalks.

(9) In late winter, wait until the snow has melted before applying manure.

(10) Avoid application during active runoff events or when rainfall, snow, or warming conditions are predicted that could cause snowmelt or runoff.

(11) Fields and tiles should be observed during snowmelt and runoff events to identify and remediate any runoff that may occur. If discolored or odorous water is being discharged, immediate efforts should be taken to prevent the water from reaching surface water or groundwater and changes should be made to prevent the discharge from recurring. Sampling and analysis of runoff for nitrogen and phosphorus may be used to better evaluate management practices in order to avoid wasting valuable nutrients or causing water quality violations.

d. *Manure application on cropland subject to flooding.* Manure application on cropland subject to flooding more than once every ten years should be injected during application or incorporated into the soil after application. Manure should not be spread on such areas during frozen or snow-covered conditions.

e. *Manure application on land adjacent to water bodies.* Unless adequate erosion controls exist on the land and manure is injected or incorporated into the soil, manure application should not be done on land areas located within 200 feet of and draining into a stream or surface intake for a tile line or other buried conduit. No manure should be spread on waterways except for the purpose of establishing seedings.

f. *Manure application on steeply sloping cropland.* Manure application on tilled cropland with greater than 10 percent slopes should be limited to areas where adequate soil erosion control practices exist. Injection or soil incorporation of manure is recommended where consistent with the established soil erosion control practices.

65.3(6) Certified manure applicator. A confinement feeding operation that is required to submit a manure management plan to the department pursuant to rule 567-65.16(459,459B) must use a certified commercial manure service for land application of manure as provided in rule 567-65.19(459,459B). An operation subject to this subrule that applies its own manure must comply with certification requirements in rule 567-65.19(459,459B) pertaining to confinement site manure applicators.

2) Iowa Code §§ 459.313A, 314; 567 IAC 65.3

§ 459.313A. Application of manure on land – snow covered ground and frozen ground.

A person may apply manure originating from an animal feeding operation on snow covered ground or frozen ground, except to the extent otherwise provided by applicable requirements in this section, this chapter, or the national pollutant discharge elimination system pursuant to the federal Water Pollution Control Act, 33 U.S.C. ch. 26, as amended, and 40 C.F.R. pts. 122 and 412.

1. During the period beginning December 21 and ending April 1, the person may apply liquid manure originating from a manure storage structure, that is part of a confinement feeding operation, on snow covered ground only when there is an emergency. During the period beginning February 1 and ending April 1, the person may apply liquid manure originating from a manure storage structure, that is part of a confinement feeding operation, on frozen ground only when there is an emergency. An emergency occurs only when there is an immediate need to comply with section 459.311, subsection 1, due to unforeseen circumstances affecting the storage of the liquid manure. The unforeseen circumstances must be beyond the control of the owner of the confinement feeding operation, including but not limited to natural disaster, unusual weather conditions, or equipment or structural failure. A person who is authorized to apply liquid manure on snow covered ground or frozen ground when there is an emergency shall comply with all of the following:

a. The person must contact the department by telephone prior to the application.

b. The person must apply the liquid manure on land identified for such application in a manure management plan submitted by the owner of the confinement feeding operation to the department as provided in section 459.312. The owner of the confinement feeding operation must identify the land in the manure management plan prior to the application. The owner must identify the land in the original manure management plan or in the next updated manure management plan required to be submitted to the department following the application.

c. The liquid manure must be applied on a field with a phosphorus index rating of two or less.

d. Any surface water drain tile intake that is on land in the owner's manure management plan and located down gradient of the application must be temporarily blocked beginning not later than the time that the liquid

manure is first applied and ending not earlier than two weeks after the completion of the application.

2. The authorization to apply liquid manure in subsection 1 does not apply to any of the following:

a. An immediate need to comply with section 459.311, subsection 1, caused by the improper design or management of the manure storage structure, including but not limited to a failure to properly account for the volume of the manure to be stored.

b. Liquid manure originating from a manure storage structure constructed or expanded on or after July 1, 2009, if the manure storage structure has a capacity to store manure for less than one hundred eighty days.

3. Subsections 1 and 2 do not apply to any of the following:

a. The application of liquid manure originating from a small animal feeding operation.

b. The application of liquid manure and injection into the soil or incorporation within the soil on the same date.

§ 459.314. Application of manure near designated areas.

1. The department shall adopt rules relating to the application of manure in close proximity to a designated area.

2. Except as otherwise provided in this subsection, a person shall not apply manure on land located within two hundred feet from a designated area, unless one of the following applies:

a. The manure is land-applied by injection or incorporation on the same date as the manure was land-applied.

b. An area of permanent vegetation cover, including filter strips and riparian forest buffers, exists for fifty feet surrounding the designated area other than an unplugged agricultural drainage well or surface intake to an unplugged agricultural drainage well, and the area of permanent vegetation cover is not subject to manure application.

c. The department adopts rules requiring an increased separation distance for the application of manure located in proximity to a high-quality water resource in order to protect the integrity of the high-quality water resource. However, the department shall not provide for an increased separation distance requirement that

is more than four times the separation distance requirement otherwise applicable under this section.

567–65.3 (459,459B) Requirements and recommended practices for land application of manure.

65.3(1) *Application rate based on crop nitrogen use.* A confinement feeding operation that is required to submit a manure management plan to the department under rule 567–65.16(459,459B) shall not apply manure in excess of the nitrogen use levels necessary to obtain optimum crop yields. Calculations to determine the maximum manure application rate allowed under this subrule shall be performed pursuant to rule 567-65.17(459,459B).

65.3(2) *General requirements for application rates and practices.*

- a. For confinement feeding operations required to submit a manure management plan to the department under rule 567-65.16(459,459B), application rates and practices shall be determined pursuant to rule 567-65.17(459,459B).
- b. For manure originating from an anaerobic lagoon or aerobic structure, application rates and practices shall be used to minimize groundwater or surface water pollution resulting from application, including pollution caused by runoff or other manure flow resulting from precipitation events. In determining appropriate application rates and practices, the person land-applying the manure shall consider the site conditions at the time of application including anticipated precipitation and other weather factors, field residue and tillage, site topography, the existence and depth of known or suspected tile lines in the application field, and crop and soil conditions, including a good-faith estimate of the available water holding capacity given precipitation events, the predominant soil types in the application field and planned manure application rate.
- c. Spray irrigation equipment shall be operated in a manner and with an application rate and timing that does not cause runoff of the manure onto the property adjoining the property where the spray irrigation equipment is being operated.
- d. For manure from an earthen waste slurry storage basin, earthen manure storage basin, or formed manure storage structure, restricted spray irrigation equipment shall not be used unless the manure has been diluted with surface water or groundwater to a ratio of at least 15 parts water to 1 part manure. Emergency use of spray irrigation equipment without dilution shall be allowed to minimize the impact of a release as approved by the department.

65.3(3) *Separation distance requirements for land application of manure.* Land application of manure shall be separated from objects and locations as specified in this subrule.

a. For liquid manure from a confinement feeding operation, the required separation distance from a residence not owned by the titleholder of the land, a business, a church, a school, or a public use area is 750 feet, as specified in Iowa Code section 459.204. The separation distance for application of manure by spray irrigation equipment shall be measured from the actual wetted perimeter and the closest point of the residence, business, church, school, or public use area.

b. The separation distance specified in paragraph 65.3(3)"a" shall not apply if any of the following apply:

(1) The liquid manure is injected into the soil or incorporated within the soil not later than 24 hours after the original application.

(2) The titleholder of the land benefitting from the separation distance requirement executes a written waiver with the titleholder of the land where the manure is applied.

(3) The liquid manure originates from a small animal feeding operation.

(4) The liquid manure is applied by low-pressure spray irrigation equipment pursuant to paragraph 65.3(3)"d."

c. Separation distance for spray irrigation from property boundary line. Spray irrigation equipment shall be set up to provide for a minimum distance of 100 feet between the wetted perimeter as specified in the spray irrigation equipment manufacturer's specifications and the boundary line of the property where the equipment is being operated. The actual wetted perimeter, as determined by wind speed and direction and other operating conditions, shall not exceed the boundary line of the property where the equipment is being operated. For property which includes a road right-of-way, railroad right-of-way or an access easement, the property boundary line shall be the boundary line of the right-of-way or easement.

d. Distance from structures for low-pressure irrigation systems. Low-pressure irrigation systems shall have a minimum separation distance of 250 feet between the actual wetted perimeter and the closest point of a residence, a business, church, school or public use area.

e. Variances. Variances to paragraph "c" of this subrule may be granted by the department if sufficient and proposed alternative information is provided to substantiate the need and propriety for such action. Variances may be granted on a temporary or permanent basis. The request for a variance shall be in writing and include information regarding:

(1) The type of manure storage structure from which the manure will be applied by spray irrigation equipment.

(2) The spray irrigation equipment to be used in the application of manure.

(3) Other information as the department may request.

f. Agricultural drainage wells. Manure shall not be applied by spray irrigation equipment on land located within an agricultural drainage well area.

g. Designated areas. A person shall not apply manure on land within 200 feet from a designated area, or in the case of a high-quality water resource, within 800 feet, unless one of the following applies:

(1) The manure is land-applied by injection or incorporation on the same date as the manure was land-applied.

(2) An area of permanent vegetation cover, including filter strips and riparian forest buffers, exists for 50 feet surrounding the designated area other than an unplugged agricultural drainage well or surface intake to an unplugged agricultural drainage well, and the area of permanent vegetation cover is not subject to manure application.

h. Setback requirements for confinement feeding operations with NPDES permits. For confinement feeding operations with NPDES permits, the following is adopted by reference: 40 CFR 412.4(a), (b) and (c)(5).

65.3(4) *Surface application of liquid manure on frozen or snow-covered ground.* A person who applies liquid manure on frozen or snow-covered ground shall comply with applicable NPDES requirements pursuant to the Act and also shall comply with the following requirements:

a. *Snow-covered ground.* During the period beginning December 21 and ending April 1, a person may apply liquid manure originating from a manure storage structure that is part of a confinement feeding operation on snow-covered ground only when there is an emergency.

b. *Frozen ground.* During the period beginning February 1 and ending April 1, a person may apply liquid manure originating from a manure storage structure that is part of a confinement feeding operation on frozen ground only when there is an emergency.

c. *What constitutes an emergency.* For the purposes of this subrule, an emergency application is only allowed when there is an immediate need to apply manure to comply with the manure retention requirement of subrule 65.2(3) due to unforeseen circumstances affecting the storage of the liquid manure. The unforeseen circumstances must be beyond the control of the owner of the confinement feeding operation, including but not limited to natural disaster,

unusual weather conditions, or equipment or structural failure. The authorization to apply liquid manure pursuant to this subrule does not apply to either of the following:

(1) An immediate need to apply manure in order to comply with the manure retention requirement of subrule 65.2(3) caused by the improper design or management of the manure storage structure, including but not limited to a failure to properly account for the volume of the manure to be stored. Based on the restrictions described in paragraphs 65.3(4)"a" and "b" and the possibility that the ground could be snow-covered and frozen for the entire period of December 21 to April 1, an operation should not plan to apply liquid manure during that time period. Confinement feeding operations with manure storage structures constructed after May 26, 2009, and without alternatives to manure application must have sufficient storage capacity to retain manure generated from December 21 to April 1 under normal circumstances in order to properly account for the volume of manure to be stored. For confinement feeding operations that have no manure storage structures constructed after May 26, 2009, the department will accept insufficient manure storage capacity as a reason for emergency application in the notification required in 65.3(4)"d"(1).

(2) Liquid manure originating from a confinement feeding operation constructed or expanded on or after July 1, 2009, if the confinement feeding operation has a capacity to store manure for less than 180 days.

d. *Procedure for emergency application.* A person who is authorized to apply liquid manure on snow-covered ground or frozen ground when there is an emergency shall comply with all of the following:

(1) The person must notify the appropriate department field office by telephone prior to the application. The department will not consider the notification complete unless the owner's name, facility name, facility ID number, reason for emergency application, application date, estimated number of gallons of manure to be applied, and the application fields as listed in the manure management plan are given. In cases where the emergency is not easily confirmed by weather reports, the owner must make documentation of the emergency available to the field office upon request.

(2) The liquid manure must be applied on land identified for such application in the current manure management plan maintained by the owner of the confinement feeding operation as required in subrule 65.17(12). The land must be identified in the current manure management plan prior to the application, and that change must also be reflected in the next annual update or complete manure management plan submitted to the

department and county boards of supervisors following the application as required in paragraph 65.16(3)"b."

(3) The liquid manure must be applied on a field with a phosphorus index rating of 2 or less.

(4) Any surface water drain tile intake that is on land in the owner's manure management plan and located downgradient of the application must be temporarily blocked beginning not later than the time that the liquid manure is first applied and ending not earlier than two weeks after the completion of the application.

(5) Additional measures to contain runoff may be necessary in order to prevent violation of federal effluent standards in 567--subrule 62.4(12).

e. *Exceptions.* Paragraphs 65.3(4)"a" through "d" do not apply to any of the following:

(1) The application of liquid manure originating from a small animal feeding operation.

(2) The application of liquid manure injected or incorporated into the soil on the same date.

65.3(5) Recommended practices. Except as required by rule in this chapter, the following practices are recommended:

a. *Nitrogen application rates.* To minimize the potential for leaching to groundwater or runoff to surface waters, nitrogen application from all sources, including manure, legumes, and commercial fertilizers, should not be in excess of the nitrogen use levels necessary to obtain optimum crop yields for the crop being grown.

b. *Phosphorous application rates.* To minimize phosphorous movement to surface waters, manure should be applied at rates equivalent to crop uptake when soil tests indicate adequate phosphorous levels. Phosphorous application more than crop removal can be used to obtain maximum crop production when soil tests indicate very low or low phosphorous levels.

c. *Manure application on frozen or snow-covered cropland.* Application of dry or liquid manure on frozen or snow-covered cropland should be avoided where possible. If manure application must take place in the winter time, the following are guidelines to minimize runoff and subsequent loss of nutrients.

- (1) Apply manure to areas where land slopes are 4 percent or less or where control practices are sufficient to prevent runoff from reaching surface water or groundwater during winter.
- (2) If applying manure on a terraced field or sloping field, avoid application to areas that drain to tile intakes that directly discharge to surface water or groundwater.
- (3) Do not apply manure in grassed waterways.
- (4) Apply manure early in winter prior to significant snowfall.
- (5) Avoid application near tile intakes, ditches, gullies, areas of concentrated flow, creeks, streams, lakes, and other surface water.
- (6) Avoid application near water wells, sinkholes, losing streams, areas with shallow bedrock, agricultural drainage wells, or other pathways to groundwater.
- (7) Do not apply manure on top of deeper snow cover, especially in late winter.
- (8) Applying manure on soybean stubble where less snow is captured is preferable to applying manure on standing cornstalks.
- (9) In late winter, wait until the snow has melted before applying manure.
- (10) Avoid application during active runoff events or when rainfall, snow, or warming conditions are predicted that could cause snowmelt or runoff.
- (11) Fields and tiles should be observed during snowmelt and runoff events to identify and remediate any runoff that may occur. If discolored or odorous water is being discharged, immediate efforts should be taken to prevent the water from reaching surface water or groundwater and changes should be made to prevent the discharge from recurring. Sampling and analysis of runoff for nitrogen and phosphorus may be used to better evaluate management practices in order to avoid wasting valuable nutrients or causing water quality violations.

d. *Manure application on cropland subject to flooding.* Manure application on cropland subject to flooding more than once every ten years should be injected during application or incorporated into the soil after application. Manure should not be spread on such areas during frozen or snow-covered conditions.

e. *Manure application on land adjacent to water bodies.* Unless adequate erosion controls exist on the land and manure is injected or incorporated into the soil,

manure application should not be done on land areas located within 200 feet of and draining into a stream or surface intake for a tile line or other buried conduit. No manure should be spread on waterways except for the purpose of establishing seedings.

f. *Manure application on steeply sloping cropland.* Manure application on tilled cropland with greater than 10 percent slopes should be limited to areas where adequate soil erosion control practices exist. Injection or soil incorporation of manure is recommended where consistent with the established soil erosion control practices.

65.3(6) Certified manure applicator. A confinement feeding operation that is required to submit a manure management plan to the department pursuant to rule 567-65.16(459,459B) must use a certified commercial manure service for land application of manure as provided in rule 567-65.19(459,459B). An operation subject to this subrule that applies its own manure must comply with certification requirements in rule 567-65.19(459,459B) pertaining to confinement site manure applicators.

3) 567 IAC 65.201; Iowa Code § 459A.410

567–65.201 (459A) Minimum animal truck wash effluent control requirements and reporting of releases.

An animal truck wash facility shall provide for the management of manure, process wastewater, settleable solids, scraped solids, and animal truck wash effluent by using the control method as provided in subrules 65.201(1) to 65.201(4). A release shall be reported to the department as provided in subrule 65.201(5).

65.201(1) No direct discharge of animal truck wash effluent shall be allowed from an animal truck wash facility into a publicly owned lake, a known sinkhole, or an agricultural drainage well.

65.201(2) Land application.

a. *General requirements.* Animal truck wash effluent shall be land-applied in a manner which will not cause pollution of surface water or groundwater. Land application of animal truck wash effluent shall not exceed one inch per hour, and land application shall cease immediately if runoff occurs. Land application of animal truck wash effluent shall be conducted on days when weather and soil conditions are suitable. Weather and soil conditions are normally considered suitable for animal truck wash effluent application if: (1) land application areas are not frozen or snow-covered; (2) temperatures during application are greater than 32 degrees Fahrenheit; and (3) precipitation has not exceeded the water

holding capacity of the soil to accept the effluent application without the possibility of runoff. Application in accordance with the provisions of state law and the rules in this chapter shall be deemed as compliance with this requirement.

b. *Separation distances.* A person shall not apply animal truck wash effluent on land located within 750 feet from a residence not owned by the titleholder of the land, unless one of the following apply:

(1) The animal truck wash effluent is land-applied by injection or incorporation on the same date as the animal truck wash effluent was land-applied.

(2) The titleholder of the land benefiting from the separation distance requirement executes a written waiver with the titleholder of the land where the animal truck wash effluent is applied.

(3) The animal truck wash effluent is from a small animal truck wash facility or an animal truck wash facility that is part of a small animal feeding operation.

65.201(3) The owner of an animal truck wash facility who discontinues the use of the facility shall remove and land-apply in accordance with state law all manure, process wastewater and animal truck wash effluent from the animal truck wash effluent structures as soon as practical but not later than six months following the date the animal truck wash facility is discontinued.

65.201(4) Stockpiling of scraped solids and settleable solids. Stockpiles of solids scraped from animal truck wash facilities and stockpiles of settleable solids shall comply with the following requirements:

a. Stockpiles must be land-applied in accordance with subrule 65.201(2) as soon as possible but not later than six months after they are established.

b. Stockpiles shall not be located within 400 feet from a designated area or, in the case of a high-quality water resource, within 800 feet.

c. Stockpiles shall not be located in grassed waterways or areas where water ponds or has concentrated flow.

d. Stockpiles shall not be located within 200 feet of a terrace tile inlet or surface tile inlet or known sinkhole unless the stockpile is located so that any runoff from the stockpile will not reach the inlet or sinkhole.

e. Stockpiles shall not be located on land having a slope of more than 3 percent unless methods, structures or practices are implemented to contain the stockpiled solids, including but not limited to hay bales, silt fences, temporary earthen

berms, or other effective measures, and to prevent or diminish precipitation-induced runoff from the stockpiled solids.

65.201(5) A release, as defined in rule 567-65.200(459,459A), shall be reported to the department as provided in this subrule. This subrule does not apply to the land application of manure, process wastewater, animal truck wash effluent, scraped solids, or settleable solids in compliance with these rules.

a. *Notification.* A person storing, handling, transporting, or land-applying manure, process wastewater, animal truck wash effluent, scraped solids, or settleable solids from an animal truck wash facility who becomes aware of a release shall notify the department of the occurrence of release as soon as possible but not later than six hours after the onset or discovery of the release by contacting the department's spill line. The local police department or the office of the sheriff of the affected county shall also be contacted within the same time period if the release involves a public roadway and public safety could be threatened. Reports made pursuant to this rule shall be confirmed in writing as provided in 65.201(5)"c."

b. *Verbal report.* The verbal report of such a release should provide information on as many items listed in 65.201(5)"c" as available information will allow.

c. *Written report.* The written report of a release shall be submitted at the request of the department within 30 days after the verbal report of the release and contain at a minimum the following information:

- (1) The approximate location of the alleged release (including at a minimum the quarter-quarter section, township and county in which the release occurred or was discovered).
- (2) The time and date of onset of the alleged release, if known, and the time and date of the discovery of the alleged release.
- (3) The time and date of the verbal report to the department of the release.
- (4) The name, mailing address and telephone number of the person reporting the release.
- (5) The name, mailing address and telephone number of any other person with knowledge of the event who can be contacted for further information.
- (6) The source of the manure, process wastewater, animal truck wash effluent, scraped solids, or settleable solids allegedly released.

(7) The estimated or known volume of manure, process wastewater, animal truck wash effluent, scraped solids, or settleable solids allegedly released.

(8) The weather conditions at the time of the onset or discovery of the release.

(9) If known, the circumstances under which the alleged release occurred or exists (e.g., overflow, storage structure breach, equipment malfunction or breakdown, land runoff).

(10) The approximate location of the nearest stream or other water body which is or could be impacted by the alleged release, and the approximate location to the alleged release of any known tile intakes or tile lines which could be a direct conveyance to a surface water or groundwater.

(11) A description of any containment or remedial measures taken to minimize the impact of the release.

(12) Any information that may assist the department in evaluating the release.

d. *Reporting of subsequent findings.* All subsequent findings and laboratory results should be reported and submitted in writing to the department as soon as they become available.

e. *Waiver of notification requirement.* A waiver from the notification requirement of paragraph "a" of this subrule may be granted by the department for a release to a specific drainage tile line or intake if sufficient information is provided to demonstrate that the drainage tile line or intake will not result in a discharge to a water of the state.

§ 459A.410 Effluent application requirements.

1. Open feedlot effluent or animal truck wash effluent shall be applied in a manner which does not cause surface water or groundwater pollution. Application in accordance with the provisions of state law, including this chapter, rules adopted pursuant to the provisions of state law, including this chapter, and guidelines adopted pursuant to this chapter, shall be deemed as compliance with this section.

2. A separation distance in section 459.314 that applies to the land application of liquid manure from a confinement feeding operation shall also apply to animal truck wash effluent from an animal truck wash effluent structure in accordance with rules adopted by the commission.

3. A person shall not apply animal truck wash effluent on land located within seven hundred fifty feet from a residence not owned by the titleholder of the land in accordance with rules adopted by the commission. This separation distance does not apply to the following:

a. The animal truck wash effluent is injected into the soil or incorporated within the soil not later than twenty-four hours from the original application, as provided by rules adopted by the commission.

b. The titleholder of the land benefiting from the separation distance requirement executes a written waiver with the titleholder of the land where the animal truck wash effluent is applied.

c. The animal truck wash effluent is from a small animal truck wash facility or an animal truck wash facility that is part of a small animal feeding operation.