

Winnebago County Livestock Waste Management Ordinance

Livestock Waste Application Guidance Document

LIVESTOCK WASTE MANAGEMENT, APPLICATION AND PROHIBITION REQUIREMENTS.

All livestock waste shall be managed and applied in accordance with all current applicable technical standards. The following conditions, setbacks and separation distances are required for all sources of livestock waste applied within 1000 feet of lakes, or within 300 feet of surface water, sinkholes, cracked bedrock, or wells within the county.

PROHIBITIONS:

Application of livestock waste and organic by-products is prohibited in the following areas:

- (1.) On saturated soils, in waterways, non-cropped wetlands, terrace channels, ditches, non-harvested vegetated buffers or any other direct conveyance to surface water or groundwater.
Note: "Saturated soils" means soils where all pore spaces are occupied by water and where any additional inputs of water or liquid wastes cannot infiltrate into the soil.
- (2) Within 50 feet of a potable well or direct conduit to groundwater, unless directly deposited by gleaning or pasturing animals. **Note: Winnebago County LWCD and LCC highly recommend a minimum setback of 100 feet from a well or direct conduit to groundwater to preserve water quality.**
- (3) Within eight feet of irrigation wells.
- (4) Fields exceeding tolerable soil loss (T) (based on SnapPlus program)
- (5) Fields with ephemeral erosion (shallow channels which reoccur).
- (6) Within 1000 feet of a public water supply designated as a Community potable water well (i.e. town well).
- (7) Within 100 feet of a public water supply designated as a Non-community potable water well (i.e. church well). **Note:** However, treated manure may be mechanically applied in (6) & (7). (treatment or practice which removes pathogens)
- (8) The following practices are prohibited pursuant of this ordinance.
 - (a) Overflow of livestock waste storage facilities.
 - (b) Unconfined livestock waste stacking (piling) within a water quality management area.
 - (c) Direct runoff of livestock waste or process wastewater to waters of the state.
 - (d) Unlimited access by livestock to waters of the state in a location where high concentrations of livestock prevents the maintenance of adequate sod cover.

UNFROZEN SOIL:

Livestock waste and organic by-products shall not be applied on unfrozen soil within 1000 feet of lakes, or within 300 feet of surface water, sinkholes, cracked bedrock, or wells without using one or more of the following practices:

- (1) Install/maintain permanent vegetative buffers of 30 feet width or more.
- (2) Maintain greater than 30% crop residue or vegetative cover on the soil surface after nutrient application.
- (3) Effective incorporation of nutrients within 72 hours of application, leaving at least 30% crop residue or vegetative cover on the soil surface after nutrient incorporation.
- (4) Establish a crop or cover crop prior to, at, or promptly following application.
- (5) Must apply nutrients within seven days of planting on a long term (a minimum of three consecutive years) no-till field if it has less than 30% residue.

UNINCORPORATED LIQUID MANURE:

When applying unincorporated liquid manure or organic by-products with $\leq 11\%$ dry matter on unfrozen soil within 1000 feet of lakes, or within 300 feet of surface water, sinkholes, cracked bedrock, wells or where subsurface draining is present must comply with the listed conditions

- (1) Limit applications to 12,000 gallons per acre per application.
- (2) No applications are allowed on saturated soils.
- (3) No ponding is allowed at the application site.
- (4) Visually monitor accessible tile outlets before, during, and after applications for potential discharge of manure and/or organic by-products.
Sequential applications may be made to meet the desired crop nutrient requirements. Wait a minimum of 7 days between sequential applications.

FROZEN SOIL:

Livestock waste and organic by-products shall not be applied on frozen or snow-covered ground in the following areas, and must comply with the listed conditions.

Note: "Frozen ground" means soil that is frozen anywhere between the first $\frac{1}{2}$ " and 8" of soil as measured from the ground surface. Soil that is frozen to a depth of $\frac{1}{2}$ " or less as measured from the ground surface is not considered frozen ground.

- (1) Within 1000 feet of lakes, or within 300 feet of surface water, sinkholes, cracked bedrock, wells or direct conduits to groundwater.
- (2) Do not exceed the Phosphorus removal of next years planned crop to be grown or 60 pounds/acre Phosphorus when applying manure, whichever is less.
NOTE: Liquid manure and/or organic by-products applications are limited to 7,000 gallons per acre.
- (3) Do not apply manure and/or organic by-products to fields where concentrated flow channels (area in field where historically small gullies form) are present unless two or more of the following are implemented:
 - (a) Contour buffer strips or contour strip cropping.
 - (b) Leave all crop residue (this prohibits removal of silage or bedding) and no fall tillage.
 - (c) Apply in intermittent strips on no more than 50% of the field.
 - (d) Apply on no more than 25% of the field during each application waiting a minimum of 14 days between applications.
 - (e) Reduce application rate to 3,500 gallons or 30 pounds of Phosphorus, whichever is less;
 - (f) No application within 200 feet of all concentrated flow channels.
 - (g) Fall tillage is on the contour and slopes are less than 6%.
- (4) Do not apply manure and/or organic by-products on slopes greater than 6%, unless the nutrient management plan documents that no other accessible fields are available for winter spreading AND two or more of the following are implemented:
 - (a) Contour buffer strips or contour strip cropping.
 - (b) Leave all crop residue (this prohibits removal of silage or bedding) and no fall tillage.
 - (c) Apply in intermittent strips on no more than 50% of the field.
 - (d) Apply on no more than 25% of the field during each application waiting a minimum of 14 days between applications.
 - (e) Reduce application rate to 3,500 gallons or 30 pounds of P₂O₅, whichever is less.

If you have any questions or concerns please contact the
Winnebago County Land & Water Conservation Department (920) 232-1950 or (920) 727-8642