



IOWA COUNTY OFFICE OF PLANNING & DEVELOPMENT

Courthouse - 222 N. Iowa St. - Dodgeville, WI 53533
Telephone: (608) 935-0398 Fax: (608) 930-1205 Mobile: (608) 553-7575
e-mail: scott.godfrey@iowacounty.org

Informational Packet for Iowa County Animal Waste and Nutrient Utilization Ordinance

Packet Includes:

1. Application process checklist
2. Engineer checklist
3. Standard 313 summary sheet
4. Standard 590 summary sheet
5. Animal waste characteristics
6. Application

The purpose of this packet is to assist anyone interested in constructing or modifying a manure storage facility, which requires a permit under the county's ordinance. Please take the time to review the entire packet and don't hesitate to contact the Iowa County Office of Planning and Development at (608) 935-0398 with any questions.

Checklist for Iowa County Manure Storage Unit Application

- π Contact the **Iowa County Office of Planning and Development** at the Courthouse (935-0398) for an application and information packet.

Date of contact: _____

- π Before completing the application form, contact the **Iowa County Land Conservation Department** at 138 S Iowa St., Dodgeville 53533 (935-2791) for preliminary site determination and soils evaluation.

Date of contact: _____

- π Contact an engineering firm. Call the Land Conservation Department for a list of engineering firms that work with construction of manure storage units.

Date of contact: _____

- π Complete and submit application to the Iowa County Office of Planning and Development. Please read the materials provided to you. Incomplete applications will not be accepted. Applications must also include the \$100 non-refundable fee (check payable to **Office of Planning and Development**).

Date application was submitted: _____

Please contact the Iowa County Office of Planning and Development at (608) 935-0398 for any questions about the application procedure.

- A nutrient management plan for utilization of the animal waste, including:

The amount of land available for waste application.

Identification of the areas where the waste will be used, method and schedule. Soil types.

Any limitations on waste application, due to soil limitations or crop rotations. Type and proximity of bedrock or water table.

Slope of land.

Proximity to surface water.

Crops to be grown.

Written approval from the Iowa County Office of Planning and Development.

313 Waste Storage Facility Summary Sheet

1. Definition

A waste storage impoundment made by constructing an embankment and/or excavating a pit or dugout, or by fabricating a structure.

2. Purpose

To temporarily store wastes such as manure, wastewater, and contaminated runoff in a manner which safeguards the environment.

3. Conditions Where Practice Applies

This standard applies to:

- construction of a storage facility in areas where the soils, geography, and topography are suitable and where the construction, operation, and maintenance will protect the soil and water resources;
- areas that are part of a planned agriculture waste management system intended to reduce contaminated runoff and meet the facility management goals, regulatory requirements, or nutrient management plans by providing storage of wastes;
- waste storage facilities utilizing embankments with a maximum effective height of 25 feet and where damage resulting from failure would be limited;
- temporary unconfined manure stacks; and
- waste storage facility closure.

This standard does not apply to:

- facilities in which greater than 10% of the design storage volume or greater than 25,000 gallons is occupied by any combination of domestic waste, industrial wastewater, or sludge. These types of facilities are defined and regulated under various codes administered by the Wisconsin Department of Natural Resources (WDNR).

4. Federal, State and Local Laws

Waste storage facilities shall comply with all federal, state, and local laws, rules or regulations. The operator is responsible for securing required permits. This standard does not contain the text of the federal, state or local laws governing waste storage facilities.

5. Criteria

Establishes minimum allowable limits for design parameters, acceptable installation processes, or performance requirements.

590 NUTRIENT MANAGEMENT PLAN SUMMARY

(A Required Component of the Manure Storage Ordinance of Iowa County)

1. **Farm Aerial Photographs or Maps**
 - a. Photos indicate field boundaries and field ID numbers?
 - b. Fields with manure spreading restrictions are identified?
2. **Soil Survey Maps**
 - a. Area soil series and slope consistent with the plan?
3. **Soil Test Reports (conservation staff require hard copy with Nutrient Management Plan)**
 - a. Are all the soil test reports from an approved lab?
 - b. Have all fields been tested within the last four years?
 - c. Is soil sample size 5 acres or less per sample?
 - d. Does the soil test field ID correspond with the Nutrient Management plan field ID?
 - e. Are yield goals identified (for P₂O₅ and K₂O recommendations)?
 - f. Have the predominant soil series for each field been identified?
4. **Written Plan Components for individual field nutrient recommendations**
 - a. Crop to be grown and previous crop grown are indicated?
 - b. Fertilizer recommendations are indicated?
 - c. Legume and manure credits are indicated?
 - d. Manure application rates and spreading sites are indicated?
 - e. Additional fertilizer needs are indicated?
5. **Are fields receiving manure or organic by-products less than or equal to "T"?**
6. **Farm Information Sheet items for manure quantity and spreader capacity**
 - a. Animal numbers, average weight, confinement, consistency
 - b. Estimated annual manure production and amount collected
 - c. Type of manure spreading equipment

For a complete copy of Code 590, contact the Iowa County Land Conservation Department at (608) 935-2791.

Animal Waste Characteristics

The quantity and composition of wastes produced influence livestock waste facility design. The properties of manure depend on several factors: animal species; ration digestibility, protein and fiber content; and animal age, environment, and productivity. The waste system also handles added bedding, soil, water, hair, etc.

Waste with 20-25% solids content (75-80% moisture content) can usually be handled as a solid, i.e. it can be stacked and can be picked up with a fork loader. Liquids need to be drained and the waste dried or bedding added to get solid waste. In the 10-20% solids content range, handling characteristics vary depending on the type of solids present. In this range, the percent solids content does not necessarily define handling characteristics.

Waste with 4-10% solids content can usually be handled as a liquid, but may need special pumps. Waste with 0-4% solids content is handled as a liquid with irrigation or flushing consistency. Liquids which have had the larger solids settled or filtered out or wastes with dilution water added may have 4% or less solids.

This table lists the estimate of manure produced daily by specific animal units per weight.

Values are approximate. The actual characteristics of a manure can easily have values 20% or more above or below the table values. The volume of waste that a waste handling system has to handle can be much larger than the table values due to the addition of water, bedding, etc. For example, liquid waste systems for swine farrowing and gestation units may have to handle twice as much waste volume as indicated; swine nurseries 3 to 4 times as much, because of large amounts of wash and wasted water.

Animal	Size	Total Manure Production			Water
	lb	lb/day	ft ³ /day	gal/day	%
Dairy Cattle	150	12	0.19	1.5	87.3
	250	20	0.32	2.4	87.3
	500	41	0.66	5.0	87.3
	1,000	82	1.32	9.9	87.3
	1,400	115	1.85	13.9	87.3
Beef Cattle	500	30	0.50	3.8	88.4
	750	45	0.75	5.6	88.4
	1,000	60	1.00	7.5	88.4
	1,250	75	1.20	9.4	88.4
Cow		63	1.05	7.9	88.4
Swine					
Nursery pig	35	2.3	0.038	0.27	90.8
Growing pig	65	4.2	0.070	0.48	90.8
Finishing pig	150	9.8	0.16	1.13	90.8
	200	13.0	0.22	1.5	90.8
Gestating sow	275	8.9	0.15	1.1	90.8
Sow and litter	375	33.0	0.54	4.0	90.8
Boar	350	11.0	0.19	1.4	90.8
Sheep	100	4.0	0.062	0.46	75.0
Poultry					
Layers	4	0.21	0.0035	0.027	74.8
Broilers	2	0.14	0.0024	0.018	74.8
Horse	1,000	45	0.75	5.63	79.5

**Animal Waste Storage Facility Permit Application
Iowa County Office of Planning and Development**

Applicant Name: _____

Mailing Address: _____

City, Zip: _____

Phone Number: _____ Email: _____ Please contact by: ___email ___postal mail

FEE: \$100.00
Payable to **Office of Planning & Development**
(must be submitted with application)

Legal Description Of Storage Facility:

_____ 1/4 _____ 1/4, Sec. _____ T _____ N, R _____ E

Town of _____ Site address: _____

Distance To Nearest:

Well _____ ft.
Building _____ ft.
House _____ ft.
River, Lake, Stream _____ ft.
Lot Line _____ ft.
Road _____ ft.
Utility _____ ft.

Storage Unit Designed For:

Dairy: Number _____ Wt. _____
Beef: Number _____ Wt. _____
Hogs: Number _____ Wt. _____
Chickens Number _____ Wt. _____
Other Number _____ Wt. _____

Planned Storage Days _____

I hereby certify the information provided is correct.

Signature of Applicant _____ Date _____

Signature of Owner if different than Applicant _____ Date _____

Return Application and Fee to: Iowa County Office of Planning & Development, Courthouse, Dodgeville, WI 53533
phone (608) 935-0398.

=====

FOR COUNTY USE ONLY

Application and Plans Received by _____ Date _____

review result: ___approved as submitted; ___pending additional information
___denied due to _____

Fee Received: Amount _____ Date _____

Paid by: Check o Cash o Permit Issued ___yes ___no because _____