



**CONFINED FEEDING OPERATION REQUEST
TO AMEND APPROVAL TO ALLOW SURFACE
APPLICATION OF MANURE TO FROZEN OR SNOW-
COVERED GROUND**

State Form 55162 (R2 / 3-16)

**INDIANA DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT**
Confined Feeding Section
Office of Land Quality
100 North Senate Avenue
MC 65-45, IGCN 1101
Indianapolis, Indiana 46204
(800) 451-6027 extension 2-4473

INSTRUCTIONS: *Surface application of manure to frozen or snow-covered ground is restricted in Indiana. A Confined Feeding Operation (CFO) that is not a large Concentrated Animal Feeding Operation (CAFO) and with one hundred twenty (120) days or less of approved storage capacity may use this form to request authorization to surface apply manure to frozen or snow-covered ground under the provisions of 327 IAC 19-14-4(i). Complete, sign, date, and return this request form to the address listed above. IDEM will notify you in writing whether your request is approved. Please note that injection or incorporation of manure into the soil on the same day it is spread is not prohibited and does not require approval. Please include an updated Farmstead Plan (see section VIII).*

I. GENERAL INFORMATION FOR CURRENT APPROVAL			
Farm ID Number <i>(Log Number):</i>		Approval Number:	AW-
Date of Last Approval <i>(month, day, year):</i>		County of Operation:	
Name of Operation:			
Location of Operation <i>(nearest crossroads or mailing address):</i>			
If any of the above information is unknown, contact IDEM at 317/232-4473.			
A. CURRENT PERMIT HOLDER (APPLICANT)			
The Current Permit Holder (Applicant) is the Owner/Operator that applies for or has received a CFO Approval under 327 IAC 19, including renewals and amendments. An Applicant may be an individual, a partnership, a co-partnership, a firm, a company or any other entity listed under IC 13-11-2-158(b). There may be more than one entity that constitutes an Owner/Operator. Each entity that meets the definition of Owner/Operator for the CFO must submit the requested information below.			
Name:*			
Mailing Address:			
City:			
State:		ZIP Code:	
Telephone:	()	E-mail Address:	
*A limited liability company (LLC) or corporation (Inc. or Corp.) or other entity required to be registered must have a current registration with the Indiana Secretary of State.			
B. PROPERTY OWNER			
<input type="checkbox"/> Same as Applicant			
Name:			
Mailing Address:			
City:			
State:		ZIP Code:	
Telephone:	()	E-mail Address:	
C. OPERATION MANAGER, OPERATOR, AND/OR LESSEE			
<i>(If Different than Applicant or manager and/or authorized agent for Entity)</i>			
<input type="checkbox"/> Same as Applicant OR Person listed below is: <input type="checkbox"/> Manager <input type="checkbox"/> Operator <input type="checkbox"/> Lessee			
Name:			
Mailing Address:			
City:			
State:		ZIP Code:	
Telephone:	()	E-mail Address:	

II. ELIGIBILITY FOR APPROVAL UNDER 327 IAC 19-14-4(i)

1. Is your CFO defined as a large CAFO?	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. Do all permitted structures or buildings have more than one hundred twenty (120) days manure storage capacity for a particular type of manure?	<input type="checkbox"/> Yes <input type="checkbox"/> No
3. Is your permitted structure with one hundred twenty (120) days or less manure storage capacity connected to another structure for additional storage capacity such that the total effective capacity of the structure is more than one hundred twenty (120) days?	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. In order to surface apply manure to frozen or snow-covered ground, you must comply with all land application requirements of the CFO Rules and the following restrictions found in 327 IAC 19-14-4(h)(3):	
<ul style="list-style-type: none"> No application to land with a slope greater than 2% unless there is 40% crop residue or vegetated crop cover on the land application site. No application in a flood plain. Application may not be closer than two hundred (200) feet from any surface water. The application rate can be no more than a total of 50% of the agronomic rate. 	

If you answered No to the three (3) questions above, and can meet the restrictions listed above in number four (4), you are eligible to apply to receive approval for manure originating from the buildings or structures that have one hundred twenty (120) days or less manure storage capacity. Complete the rest of this form to provide proof of available storage capacity as required in 327 IAC 19-14-4(i)(1).

If you answered Yes to any of the three questions above, you are not eligible for approval using this form. CAFOs can seek approval through an NPDES Permit. Smaller farms can request approval of an alternative compliance approach under 327 IAC 19-5-1 through an Approval Amendment. Please contact IDEM at (317) 232-4473 for further guidance.

III. OVERALL DESIGN STORAGE CAPACITY INFORMATION

Type of animal	Permitted animal capacity
Type of manure and Total design storage capacity*: days (Solid)	days (Liquid)
* Attach calculations and any pertinent supporting documentation. You should include storage structure dimensions and any factors considered in the calculations. If you have multiple manure types, please list the total designed capacities for each type stored on site.	

IV. INDIVIDUAL STRUCTURE CAPACITY INFORMATION

If your overall facility has over one hundred twenty (120) days total calculated storage but there are individual structures with less than one hundred twenty (120) days, and animal health or proper management concerns restrict transfer of waste to a larger structure, complete section V. and attach a current facility farmstead plan (see section VIII).

Manure Storage Capacity Calculations:

Step 1: (Number of Animals) X (Total Manure**) + (Water Uses***) = Number ft³/day

Step 2: (Calculated Volume of Structure) / (Number ft³/day from Step 1) = Storage Capacity in days

** Total Manure value is from Section VII. "Manure Production Values for Calculating Storage Requirement Volumes" found in Section VII and the CFO Guidance Manual. These values are adapted from ASAE Manure Productions and Characteristics Standard D384.2 (2005). Pit depth should reduce total depth by the following factors: reduce depth by 6" for freeboard in tanks; reduce storage depth by 6" for accumulated solids. For example a concrete pit with total depth of 4 ft would have a calculated depth of 3 ft.

*** Converting gallons to cubic feet: divide "Water Uses" in gallons by 7.48 gal/ft³.

The NRCS Conservation Practice Standard 313 titled, "Waste Storage Facility," allows for giving credit for six (6) inches of pit space to be dedicated for solids accumulation and six (6) inches for freeboard. The above examples did not need the allowance included in the calculations to meet the maximum capacity (120 days) eligibility criteria.

Example:

Pit Dimensions & Calculated Volume	Water Uses (gal/unit of time)	Calculated Storage Capacity:
50' x 150' x 3' = 22,500 ft ³	5,000 gal/3 times a year	1,200 x 0.166 ft ³ /day + (5,000 gal / 7.48 gal/ft ³ / 365 days) = 205 ft ³ /day 22,500 ft ³ / 205 ft ³ /day = 110 days

Show calculations and any pertinent supporting documentation along with facility farmstead plan (see section VIII). Use multiple forms if you have additional structures which have less than 120 days designed storage capacity. Example calculations are shown in section IV.

V. CALCULATED STORAGE CAPACITY – DETAIL SHEET

Structure (from farmstead plan)	Type of animal	Structure animal capacity
Type of manure <input type="checkbox"/> Liquid <input type="checkbox"/> Solid	Type of Storage Structure:	Structure calculated storage capacity* days
Reason why manure cannot be transferred to other on-site storage:		

Pit Dimensions & Calculated Volume	Water Uses (gal/unit of time)	Calculated Storage Capacity:
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Structure (from farmstead plan)	Type of animal	Structure animal capacity
Type of manure <input type="checkbox"/> Liquid <input type="checkbox"/> Solid	Type of Storage Structure:	Structure calculated storage capacity* days
Reason why manure cannot be transferred to other on-site storage:		

Pit Dimensions & Calculated Volume	Water Uses (gal/unit of time)	Calculated Storage Capacity:
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Structure (from farmstead plan)	Type of animal	Structure animal capacity
Type of manure <input type="checkbox"/> Liquid <input type="checkbox"/> Solid	Type of Storage Structure:	Structure calculated storage capacity* days
Reason why manure cannot be transferred to other on-site storage:		

Pit Dimensions & Calculated Volume	Water Uses (gal/unit of time)	Calculated Storage Capacity:
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Structure (from farmstead plan)	Type of animal	Structure animal capacity
Type of manure <input type="checkbox"/> Liquid <input type="checkbox"/> Solid	Type of Storage Structure:	Structure calculated storage capacity* days
Reason why manure cannot be transferred to other on-site storage:		

Pit Dimensions & Calculated Volume	Water Uses (gal/unit of time)	Calculated Storage Capacity:
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VI. SIGNATURE

I have reviewed all components and information contained within this form. To the best of my knowledge and belief, such information is true, complete, and accurate. I am aware of the penalties for submitting false information under IC 13-30-10-1.5.

Signature of Owner/Operator:	Date (month, day, year):
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Printed Name of Owner/Operator:

VII. Manure Production Values for Calculating Storage Requirement Volumes

System	Units	Total Manure ^{1,2}	Moisture, %
Swine			
Nursery Pig	cubic ft/day	.038	90
Grow/Finish	cubic ft/day	.166	90
Farrow (S&L)	cubic ft/day	.41	90
Breed/Gestation	cubic ft/day	.18	90
Dairy			
Calf	cubic ft/day	.30	83
Heifer	cubic ft/day	.78	83
Cow (90 lb milk/day)	cubic ft/day	2.4	87
Dry cow	cubic ft/day	1.3	87
Veal calf	cubic ft/day	.12	96
Beef			
Feeder calf	cubic ft/day	.81	88
Fattening cattle	cubic ft/day	1.04	92
Mature cow	cubic ft/day	1.3	88
Poultry			
Broiler	cubic ft/day	.0035	74
Pullet	cubic ft/day	.001	75
Layer	cubic ft/day	.0031	75
Turkey (toms)	cubic ft/day	.009	74
Turkey (hens)	cubic ft/day	.006	74
Turkey brooder poults ³	cubic ft/day	.00225	74
Duck	cubic ft/day	.0063	74
Sheep			
Ewes	cubic ft/day	.11	
Lambs	cubic ft/day	.04	
Horse	cubic ft/day	.91	85

¹Except for turkey brooder poults, these values were adapted from ASAE Manure Productions and Characteristics Standard D384.2 (2005).

²Prior to any changes due to dilution water addition, drying, volatilization or other physical, chemical or biological processes.

³The value for turkey brooder poults comes from a study at Farbest Farms in January 2013.

INSTRUCTIONS FOR PREPARING A FARMSTEAD PLAN:

Prepare a Farmstead Plan that meets the requirements noted in the Section VII of the Farmstead Plan Checklist and attach the Farmstead Plan to this form. Check the boxes next to each item in Section VII as you verify that the Farmstead Plan is complete.

VIII. FARMSTEAD PLAN CHECKLIST

<input type="checkbox"/>	A.	The farmstead plan must be on a sheet no less than 8 ¹ / ₂ inches by 11 inches in size.
<input type="checkbox"/>	B.	The farmstead plan must show all existing and proposed waste management systems, and all of the following features within 500 feet of the waste management systems (<i>label each feature</i>): <ol style="list-style-type: none"> 1. Residences 2. Surface waters of the state 3. Public and private roads 4. Water well locations 5. Characteristics of karst terrain as identified in 327 IAC 19-2-24 6. Drainage patterns 7. Property boundary line 8. All outlets of known tile drains or any other type of subsurface or surface drainage outlet 9. Drainage inlets, including water and sediment control basins showing their outlets, and ponds with outlets 10. Mortality management sites
<input type="checkbox"/>	C.	The farmstead plan must be legible and either: <ol style="list-style-type: none"> 1. Drawn to approximate scale; or 2. Show specific distances between the waste management systems and the features listed immediately above in section B that are within 500 feet of the existing or proposed waste management system.