

Door County Spreading Setbacks (CAFO)

Silurian Setbacks

Setback	Silurian	Non-Silurian
Community Well (Municipal) Public well	1000 ft	1,000 ft
Non-community well (private, business, restaurant) Drinking well	250 ft	100 ft
Direct conduit to ground water (Upslope) County Defined Karst, Sinkhole, Fractured bedrock, Non-metallic mine, Other direct conduit, Wells	300 ft	100 ft
Direct conduit to ground water (Downslope)	100 ft	100 ft
Concentrated flow leading to conduit to ground water	100 ft	100 ft

SWQMA Setbacks SWQMA 1000FT CAFO SWQMA 300FT

Field Practices	Navigable Water Perennial Streams Intermittent Streams Waterbodies	Conduit to Navigable Water (tile inlet , sinkholes , agricultural wells , drainage ditches , and grassed waterways that drain to navigable water)	Wetland DNR Wetland
Surface application of manure	100 ft setback	100 ft setback	25 ft setback
Manure incorporated Immediately	25 ft setback	25 ft setback	25 ft setback
Surface application on no-till field *	25 ft setback	25 ft setback	25 ft setback
Vegetated Buffer **	35 ft buffer	35 ft buffer	35 ft buffer
Filter Strip (must meet NRCS standards) **	21 ft filter strip	21 ft filter strip	21 ft filter strip

*No-till fields must have 30% crop residue and follow Table 3 application rates

**Manure must be immediately incorporated or applied on a no-till field

Table 3

Surface Texture Class	Max Application Rate (gallons/acre)
Fine (clay, silty clay, silty clay loam, clay loam)	5,000
Medium (sandy clay, sandy clay loam, loam, silt loam, silt)	7,500
Coarse (loamy sand, sandy loam, sand)	10,000

Winter Setbacks

Solid Manure Application on Frozen and Snow-Covered Ground

Setback	0-6% slope	6-9% slope	>9% slope
Downslope of channelized flow , vegetated buffer , wetland	200 ft	400 ft	Not allowed
Direct conduit to ground water	300 ft	600 ft	Not allowed

Emergency Liquid Manure Application on Frozen and Snow-Covered Ground

Setback	0-2% slope	2-6% slope	>6% slope
Downslope of channelized flow , vegetated buffer , wetland	200 ft	200 ft	Not allowed
Direct conduit to ground water	300 ft	300 ft	Not allowed

* **This document is intended as a guide and is not a comprehensive list. This does not replace NMP Restriction Maps, Chapter 23, 590, NR 151, or NR 243. Please contact Door County SWCD with questions.**

2022 Door County Manure Application Rates (CAFO)

Silurian Bedrock Applications

Manure Type	Soil Texture	0-2 ft	2-3 ft (gal/ac/yr)	3-5 ft (gal/ac/wk)	5-20 ft (gal/ac/wk)
Solid	All Types	Not allowed	≤15 Tons/acre/year	≤15 Tons/acre/week	≤15 Tons/acre/week
Liquid	Sand, Clay	Not allowed	6,750 gal (surface or Incorporated)	6,750 gal (surface or Incorporated)	10,000 gal (surface) 13,500 gal (Incorporated)
Liquid	Clay Loam	Not allowed	6,750 gal (surface) 13,500 gal (Incorporated)	6,750 gal (surface) 13,500 gal (Incorporated)	10,000 gal (surface) 20,000 gal (Incorporated)
Liquid	Loam, Sandy Loam, Silt Loam	Not allowed	6,750 gal (surface) 13,500 gal (Incorporated)	6,750 gal (surface) 13,500 gal (Incorporated)	10,000 gal (surface) 27,000 gal (Incorporated)

Surface Water Quality Management Area (SWQMA) Applications

SWQMA 1000FT CAFO SWQMA 300FT

Maximum Rates of Unincorporated Liquid Manure and Process Wastewater Applied Within a SWQMA

Surface Texture Class	Max Application Rate (gallons/acre)
Fine (clay, silty clay, silty clay loam, clay loam)	5,000
Medium (sandy clay, sandy clay loam, loam, silt loam, silt)	7,500
Coarse (loamy sand, sandy loam, sand)	10,000

Late Summer/ Fall Applications

CAFO Manure Restriction (W) CAFO Manure Restriction (R)

Manure Type	Soil Type	Rate
Solid (>4% dry matter)	(W) Wet soil (<12 inches to apparent water table) W - Wet <12" to Watertable	120lbs N/acre
Solid	High permeability soils (P) or rock soils with less than 20 inches to bedrock P - High Permeability R - Bedrock <20"	90lbs N/acre on annual crops 120lbs N/acre on perennial crops
Liquid (<4% dry matter)	(W) Wet soil (<12 inches to apparent water table) W - Wet <12" to Watertable	90lbs N/acre or 120lbs N/acre with additional practice listed in 590 standards
Liquid	High permeability soils (P) or rock soils with less than 20 inches to bedrock P - High Permeability R - Bedrock <20"	90lbs N/acre and used nitrification inhibitor or surface apply

Winter Applications

CAFO Frozen and Snow-Covered Ground Application Rates for Solid Manure

0-9% slopes	Not to exceed 60lbs of P205 over the winter season taking in account nutrients already applied
>9% slopes	Not allowed

CAFO Emergency Frozen and Snow-Covered Ground Application Rates for Liquid Manure

0-6% slopes	Maximum 7,000 gallons per acre and does not to exceed 60lbs of P205 over the winter season taking in account nutrients already applied
>6% slopes	Not allowed

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Does Manure Need To Be Incorporated?

Is the field in a Silurian Bedrock Area?

- Silurian 0-2ft
- Silurian 2-5ft
- 5-20 ft to Silurian

Yes ★

No

Does it fall in a Surface Water Quality Management Area (SWQMA)?

- SWQMA 1000FT
- 590 SWQMA 300FT
- CAFO SWQMA 300FT

Yes

No

Is the operation a CAFO?

Incorporation is not required

Yes

No

Immediately inject, incorporate or select another practice from NR 243.14 (4)

Incorporate in 72 hours or select another practice from 590 standards IV.A.3 (a)

What type of manure is being spread?

Solid *

Liquid **

What is the depth to bedrock?

What is the depth to bedrock?

- 0-2 ft
- 2-3 ft
- 3-5 ft
- 5-20 ft

- 0-2 ft
- 2-3 ft
- 3-5 ft
- 5-20 ft

No manure application allowed

No manure application allowed

Incorporate in 72 hours up to 4"

Incorporate or inject in 24 hours up to 4"

Incorporate in 72 hours up to 6"

Incorporate or inject in 24 hours up to 6"

Incorporation not required unless it falls within a SWQMA (follow SWQMA rules)

Incorporate or inject in 24 hours up to 6"

No incorporation required in Silurian areas on long term no-till fields, ★ perennial crops, or established crops
 * When spreading solid manure in Silurian areas one additional practice is required in addition to incorporation (Ch 23 1.31 (9))
 ** When spreading liquid manure in Silurian areas pre-tillage and one additional practice is required in addition to incorporation (Ch 23 1.31 (9))

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