

Door County Spreading Setbacks (Non-CAFO)

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	50 ft
Direct conduit to ground water (Downslope)	100 ft	50 ft
Direct conduit to ground water (Winter)  Direct Conduit to GW	No application allowed on less than 5 ft to bedrock	300 ft
Concentrated flow leading to conduit to ground water	100 ft	
Concentrated flow (Winter)  Channelized Flow	No application allowed on less than 5 ft to bedrock	200 ft

Do not spread on the following:

- Surface water
- Saturated soils
- Concentrated flow channels
- Non-harvested vegetative buffers
- Non-farmed wetland
- Fields exceeding tolerable soil loss (T)
- Fields with ephemeral erosion with no mitigation practices

*** 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 (Non-CAFO)

Silurian Bedrock Application Rates

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  590 SWQMA 300FT

For unincorporated manure in a SWQMA or *fields with tile drainage*, limit application to 12,000 gal/acre

Late Summer/ Fall Applications

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

- Winter applications restricted to **7,000** gallons/acre and less than **60lbs** of P205 per acre
- On fields with concentrated flow channels or slopes greater than 6%  limit application to **3,500** gallons/acre or choose two of the following practices:
 - a) contour buffer strips on contour strip cropping
 - b) leave all crop residue and no fall tillage (no silage or bedding removal)
 - c) Apply in intermittent strips on no more than 50% of the field
 - d) Apply no more than 25% of the field during each application waiting a minimum of 14 days between applications
 - e) reduce rate to 3,500 gallons or 30 pounds P205, whichever is less
 - f) no application within 200 ft of all concentrated flows
 - (g) fall tillage is on the contour and slopes are less than 6%

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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 No manure application allowed
- 2-3 ft Incorporate in 72 hours up to 4"
- 3-5 ft Incorporate in 72 hours up to 6"
- 5-20 ft Incorporation not required unless it falls within a SWQMA (follow SWQMA rules)

- 0-2 ft No manure application allowed
- 2-3 ft Incorporate or inject in 24 hours up to 4"
- 3-5 ft Incorporate or inject in 24 hours up to 6"
- 5-20 ft 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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