

Wisconsin Manure Application Prohibitions, Restrictions and Setbacks

Criteria	NRCS 590 - 2005	NRCS 590 - 2015	NR 243 - CAFO
<p>0-2 feet to bedrock</p>	<p>No manure prohibitions.</p> <p>Restrictions on manure application timing and rate for soils with less than 20 inches to bedrock:</p> <p>Soil Temp > 50 degrees and manure applied in late summer or fall, apply one of the following options:</p> <ul style="list-style-type: none"> -Use N inhibitor with liquid manure and limit N rate to 120 lbs N / acre. -Delay application until Sept 15 and limit N rate to 90 lbs N / acre -Apply to fields with perennial crops or fall seeded crops; N application limited to 120 / lbs N /acre or crop N requirement, whichever is less <p>Soil Temp < = 50 degrees and manure applied in late summer or fall, limit manure application to 120 lbs N / acre or crop N requirement, whichever is less</p>	<p>Prohibition for surface applied manure in winter (i.e., when frozen or snow covered soils prevent effective incorporation at time of application) on Silurian Dolomite soils (bedrock within 60 inches of surface) and areas where DNR Well Compensation funds provided replacement water supplies for wells contaminated with livestock manure.</p> <p>Restrictions on manure application timing and rate for soils with less than 20 inches to bedrock:</p> <p>For > 4% Dry Matter Manure</p> <ul style="list-style-type: none"> - When a crop is growing, such as perennial crops, double crops, overwintering annual crops or cover crops, use rates that will not smother these crops and limit N rate to UEX A2809 or 120 lbs N / acre, whichever is less - For annual crop that will not be planted until following spring or summer, delay application until soil temp is less than 50 degrees, or October 1, whichever occurs first; limit N rates to UEX A2809 or 90 lbs N / acre, whichever is less <p>For < = 4% Dry Matter Manure</p> <ul style="list-style-type: none"> - delay application until soil temp is < 50 degrees or Oct 1st, whichever occurs first and use a N inhibitor or surface apply and do not incorporate for 3 days; rates limited to UWEX A2809 or 90 lbs N / acre, whichever is less 	<p>Manure application prohibited</p>

Criteria	NRCS 590 - 2005	NRCS 590 - 2015	NR 243 - CAFO
2-5 feet to bedrock	No manure prohibitions or restrictions	<p>Prohibition for surface applied manure in winter (i.e., when frozen or snow covered soils prevent effective incorporation at time of application) on Silurian Dolomite soils* and areas where DNR Well Compensation funds provided replacement water supplies for wells contaminated with livestock manure</p> <p>* = areas where silurian dolomite bedrock is present within 60 inches of surface</p> <p>No manure prohibitions or restrictions for growing season (Spring, Summer and Fall)</p>	<p>Manure prohibited on fields with soils that are 60 inches or less to fractured bedrock <u>when ground is frozen or snow covered</u></p> <p>No manure prohibitions or restrictions for growing season (Spring, Summer and Fall); manure applications to NRCS 590 – 2005 criteria, except for manure irrigation applications</p> <p>Manure application prohibited on these soils when using manure irrigation equipment</p> <p>NR 243.14(10) authority to require additional restrictions on manure application based upon shallow soils over bedrock or other factors to prevent exceedances of WQS</p>
> 5 feet to bedrock	No manure prohibitions or restrictions	No manure prohibitions or restrictions	<p>Prohibition for surface application of manure between Feb1 – Mar 31 on frozen or snow covered fields.</p> <p>Multiple restrictions for manure application on frozen or snow covered fields outside of Feb-March:</p> <ul style="list-style-type: none"> - All winter spreading fields must be pre-approved by DNR - Table 4 solid manure restrictions - Table 5 liquid manure emergency restrictions <p>NR 243.14(10) authority to require additional restrictions based upon shallow soils over bedrock or other factors to prevent exceedances of WQS</p>

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Conduits to Groundwater	200 feet upslope, unless incorporated within 72 hours. If incorporated, no setback No application on locally identified areas within conservation plan that contribute nutrients to direct conduits to groundwater	50 feet - Growing Season (Spring, Summer, Fall) 300 feet - Frozen or Snow Covered Ground No application on locally identified areas delineated by LCC or within conservation plan that contribute runoff to direct conduits to groundwater, unless substantially buried in 24 hrs	100 feet - Growing Season 300-600 feet - Frozen or Snow Covered Ground - based upon slope and manure type Meet NRCS 590 – 2005 criteria
Potable Drinking Water Well	50 feet	50 feet - Growing Season (Spring, Summer, Fall) 300 feet - Frozen or Snow Covered Ground	100 feet - Growing Season 300-600 feet - Frozen or Snow Covered Ground - based upon slope and manure type
Non-Community Well	50 feet	100 feet for untreated manure; treated manure application allowed within 100 feet	100 feet – Growing Season 300-600 feet - Frozen or Snow Covered Ground - based upon slope % and manure type
Community Potable Water Well	50 feet	1000 feet or untreated manure; treated manure application allowed within 1000 feet	1000 feet
Irrigation Well	0 feet	8 feet	100 feet - Growing Season 300-600 feet - Frozen or Snow Covered Ground - based upon slope % and manure type

NRCS 590 – 2015 Recommendations:

- N. On Silurian dolomite (SD) soils in the spring, summer or fall and before crop planting or after crop harvest, implement at least one of the following if liquid manure is injected or surface applied:
1. Complete pre-tillage prior to application
 2. Immediately incorporate manure after application
 3. Reduce application rate to 7,000 gallons per application; complete sequential applications to meet desired nutrient additions consistent with this standard. Wait a minimum of three days between sequential applications.