

Nutrient Application Restrictions in Sensitive Areas

Restrictions based on [state requirements of Minnesota 7020 Feedlot Rules](#) (blue text followed by a [state requirement statement](#)) and USDA-NRCS requirements (italicized) for individuals participating in cost-share programs).

Environmentally Sensitive Features	Non-Winter Applications	Winter Applications (When soil is frozen, snow-covered or actively thawing)
Surface Waters - Intermittent Streams, DNR Protected Wetlands, Drainage Ditches without Berms, <i>Bermed Drainage Ditches with Side Inlets, Lakes, Streams</i>	FIELDS WITHOUT A FILTER STRIP – Within 25 Feet of surface waters - Do Not Apply Manure Within 300 Feet of surface waters - Inject or incorporate manure within 24 hours If soil test phosphorous levels exceed 21 ppm Bray P1 or 16 ppm Olsen - Apply Manure at Phosphorous Removal Rates	Within 300 Feet - Do Not Apply Manure or commercial fertilizer
	FIELDS WITH A FILTER STRIP 100 Feet Wide around Lakes and Streams 50 Feet Wide around Intermittent Streams, DNR Protected Wetlands, Drainage Ditches without Berms Do not apply manure on the filter strip area	
	<i>Incorporate commercial P2O5 applications within a few days on fields draining to surface waters</i>	Outside of 300 feet - Do not apply solid manure if soil losses >4 tons/ac./yr. Do not apply liquid manure or commercial fertilizer if soil losses >2 tons/ac./yr
Open (Surface) Tile Intakes	Within 300 Feet – Inject or incorporate manure within 24 hours	Within 300 Feet - Do Not Apply Manure or commercial fertilizer
Water Supply Wells (Active or Inactive), Mines, Quarries	Within 50 Feet - Do Not Apply Manure	
	<i>Within 300 Feet – Inject or incorporate manure or commercial fertilizer applications within 24 hours</i>	<i>Within 300 Feet - Do Not Apply Manure or commercial fertilizer</i>
Sinkholes - receiving surface runoff (MPCA), and other direct conduits to ground water (NRCS)	Within 50 Feet - Do Not Apply Manure	
	Within 300 Feet - Inject or incorporate manure or commercial Nitrogen applications within 24 hours	<i>Within 300 Feet - Do Not Apply Manure or commercial fertilizer</i>
Road Ditches	Do Not Apply Directly Into	
Fields with sheet and rill losses greater than 6 tons/acre/year	<i>Do Not Apply Manure or commercial fertilizer</i>	
Fields with uncontrolled ephemeral erosion	<i>Do Not Apply Manure or commercial fertilizer</i>	
Established Waterways, Ditches and other water conveyance systems	<i>Do Not Apply Manure</i>	
Frequently Flooded Soils as classified by NRCS	<i>During usual peak flooding periods, do not apply manure and incorporate commercial fertilizer within 24 hours.</i>	<i>Do not apply manure or commercial fertilizer</i>
	<i>When the probability of flooding is low, incorporate manure within 2 days</i>	
Fractured Bedrock	<i>Apply manure in a manner that maintains at least 15 inches of soil separation between applied manure and fractured bedrock and do not fall apply commercial N on fields with less than 36 inches of soil covering bedrock</i>	
High Water Table Soils	<i>Apply manure in a manner that maintains at least 15 inches of soil separation between applied manure and the high water table</i>	
Coarse Textured Soils	<i>In Fall, Delay manure applications until daily average soil temperatures at a 6-inch depth are below 50 degrees F.</i>	
	<i>In Fall, Avoid liquid manure applications when possible</i>	
	<i>In Fall, Do not apply commercial nitrogen fertilizer</i>	
	<i>Use sidedress or split applications of commercial nitrogen fertilizer</i>	