

Appendix F to rule 901:10-2-14 Most Limiting Manure Application Rates.

Table 1. Most Limiting Manure Application Rates for Tiled Fields.

Select the Most Limiting Application Rate Based on the Following Criteria					
Field Situation & Time of Year	Limiting Application Rate Criteria				
	Nitrogen	P2O5 _{4l}	K2O	Tons/Ac Gallons/Ac	AWC Table
Subsurface Drained (Tiled) Fields					
(April - June) Subsurface Drained or High N Leaching Potential	1/ Crop Needs factoring N losses	Crop Needs or Crop Removal < 250 Lbs/ac	Crop Needs or Crop Removal < 500 Lbs/ac	13,000 gal/ac	Upper 8"
(April - June) Pasture > 20% or Cropland > 15% Subsurfaced Drained or High N Leaching Potential	Crop Needs factoring N losses	Crop Needs or Crop Removal < 250 Lbs/ac	Crop Needs or Crop Removal < 500 Lbs/ac	5/ 10 wet tons 5,000 gal/ac - unless contoured strips or incorporated immediately	Upper 8"
(July - Sept.) No Growing Crop Subsurface Drained or High N Leaching Potential	2/ 50 lbs/ac as applied N	Crop Needs or Crop Removal < 250 Lbs/ac	Crop Needs or Crop Removal < 500 Lbs/ac	13,000 gal/ac	Upper 8"
(July - Sept.) With a Growing Cover Crop Subsurface Drained or High N Leaching Potential	3/ Next year's crop needs as applied N	Crop Needs or Crop Removal < 250 Lbs/ac	Crop Needs or Crop Removal < 500 Lbs/ac	13,000 gal/ac	Upper 8"
(July - Sept.) No Growing Crop Cropland > 15% Subsurfaced Drained or High N Leaching Potential	2/ 50 lbs/ac as applied N	Crop Needs or Crop Removal < 250 Lbs/ac	Crop Needs or Crop Removal < 500 Lbs/ac	13,000 gal/ac	Upper 8"
(Oct. - March) Subsurface Drained or High N Leaching Potential	3/ Next year's crop needs as applied N	Crop Needs or Crop Removal < 250 Lbs/ac	Crop Needs or Crop Removal < 500 Lbs/ac	13,000 gal/ac	Upper 8"
(Oct. - March) Pasture > 20% or Cropland > 15% Subsurfaced Drained or High N Leaching Potential	3/ Next year's crop needs as applied N	Crop Needs or Crop Removal < 250 Lbs/ac	Crop Needs or Crop Removal < 500 Lbs/ac	5/ 10 wet tons 5,000 gal/ac - unless contoured strips or incorporated immediately	Upper 8"
Frozen or Snow Cover Subsurface Drained or High N Leaching Potential	3/ Next year's crop needs as applied N	Crop Needs or Crop Removal < 250 Lbs/ac	Crop Needs or Crop Removal < 500 Lbs/ac	5/ 10 wet tons < 50% solids, 5 wet tons > 50% solids, liquid manure 5,000 gal/ac	

Note: Comments below Table 2 also pertain to this Table.

Table 2. Most Limiting Manure Application Rates for Non-Tiled Fields.

Select the Most Limiting Application Rate Based on the Following Criteria					
Field Situation & Time of Year	Limiting Application Rate Criteria				
	Nitrogen	P2O5 ^{4/}	K2O	Tons/Ac Gallons/Ac	AWC Table
Non Subsurface Drained (Tiled) Fields					
(July - Sept.) Not Subsurface Drained	1/ Crop Needs factoring N losses	Crop Needs or Crop Removal < 250 Lbs/ac	Crop Needs or Crop Removal < 500 Lbs/ac		Upper 8"
(Oct. - March) Not Subsurface Drained	1/ Crop Needs factoring N losses	Crop Needs or Crop Removal < 250 Lbs/ac	Crop Needs or Crop Removal < 500 Lbs/ac		Upper 8"
(April - June) Not Subsurfaced Drained Pasture > 20% or Cropland > 15%	1/ Crop Needs factoring N losses	Crop Needs or Crop Removal < 250 Lbs/ac	Crop Needs or Crop Removal < 500 Lbs/ac	5/ 10 wet tons 5,000 gal/ac - unless contoured strips or incorporate immediately	Upper 8"
(July - Sept.) Not Subsurfaced Drained Pasture > 20% or Cropland > 15%	1/ Crop Needs factoring N losses	Crop Needs or Crop Removal < 250 Lbs/ac	Crop Needs or Crop Removal < 500 Lbs/ac		Upper 8"
Frozen or Snow Cover Not Subsurface Drained	1/ Next year's crop needs factoring N losses	Crop Needs or Crop Removal < 250 Lbs/ac	Crop Needs or Crop Removal < 500 Lbs/ac	5/ 10 wet tons < 50% solids, 5 wet tons > 50% solids, liquid manure 5,000 gal/ac	
(Oct. - March) Not Subsurfaced Drained Pasture > 20% or Cropland > 15%	1/ Crop Needs factoring N losses	Crop Needs or Crop Removal < 250 Lbs/ac	Crop Needs or Crop Removal < 500 Lbs/ac	5/ 10 wet tons 5,000 gal/ac - unless contoured strips or incorporate immediately	Upper 8"
1/ Crop Needs factoring N losses - Maximum total nitrogen applied to meet the succeeding crop's recommended NITROGEN requirements for non-legume crops or 150 lbs/ac NITROGEN for the succeeding legume crop. Considers loss of N through application method and time of year.					
2/ 50 lbs/ac as applied N - Nitrogen application limited to 50 lbs/ac based on the addition of the NH ₄ or NH ₃ (ammonium/ammonia) content of the manure + 1/3 of the organic nitrogen content the manure as applied. Considers no losses due to application method or time of year.					
3/ Next year's crop needs as applied N - Maximum total nitrogen applied to meet the succeeding crop's recommended NITROGEN requirements for non-legume crops or 150 lbs/ac NITROGEN for the succeeding legume crop. Considers no losses due to application method or time of year.					
4/ Under special conditions and criteria the rate of P ₂ O ₅ application can be increased to 500 lbs./acre (See Appendix A or rule 901:10-2-14). Frozen or Snow covered ground and fields over 100 ppm Bray P1 soil test are exempt and are always limited to applications less than or equal to 250 lb/ac P₂O₅.					
5/ Wet tons refers to the weight of the manure as it is applied - include solids and moisture weight.					