

Dare Farms**Recommended Application Rates**

<u>Crop</u>	<u>Yield</u>	<u>Crop Rotation</u>	<u>Application Method</u>	<u>Manure Source</u>	<u>N rate</u>		<u>P rate</u>	
					<u>gal/acre OR t/ac</u>		<u>gal/acre OR t/ac</u>	
Corn	175	Continuous Corn	Inject	Liquid	17,700	Gal/Acre	4,950	Gal/Acre
Corn	185	Continuous Corn	Inject	Liquid	18,800	Gal/Acre	5,230	Gal/Acre
Corn	195	Continuous Corn	Inject	Liquid	19,800	Gal/Acre	5,510	Gal/Acre
Corn	200	Continuous Corn	Inject	Liquid	20,300	Gal/Acre	5,650	Gal/Acre
Silage	32	Continuous Corn	Inject	Liquid	16,200	Gal/Acre	5,470	Gal/Acre
Silage	34	Continuous Corn	Inject	Liquid	17,200	Gal/Acre	5,810	Gal/Acre
Corn	175	Continuous Corn	Incorporate	Solid	17.3	Ton/Acre	4.2	Ton/Acre
Corn	185	Continuous Corn	Incorporate	Solid	18.3	Ton/Acre	4.4	Ton/Acre
Corn	195	Continuous Corn	Incorporate	Solid	19.3	Ton/Acre	4.7	Ton/Acre
Corn	200	Continuous Corn	Incorporate	Solid	19.8	Ton/Acre	4.8	Ton/Acre
Silage	32	Continuous Corn	Incorporate	Solid	15.8	Ton/Acre	4.6	Ton/Acre
Silage	34	Continuous Corn	Incorporate	Solid	16.8	Ton/Acre	4.9	Ton/Acre

These recommended rates are based on the stated yields and crops, and assumes fields have NO recent manure applications (no N credits from manure application). These are estimates only, and can be used as guides when climate or other factors exist that require deviations from planned manure applications. Previous applications would require that these application rates be decreased from present estimates.

Also, the recommendations for solid manure are based on ESTIMATED manure analysis. ACTUAL facility analysis is needed to determine real nutrient loading rates. However, until those numbers are available, these estimates can serve as guidelines.

*N available 1st year = (Am-N * App Method Efficiency) + (OrgN * .35)*

Previous manure applications should be given N credits =

*(App rate (in 1,000 gal) * Org N (per 1,000 gal) * Mineralization Factor) / 2*

Mineralization Factors: Year 1= .35, Year 2 = .175, Year 3 = .0875, Year 4 = 0.04

Efficiency of Application = Liquid, Broadcast = 0.80, Solid, Broadcast = 0.75, Aerway = 0.90, Liquid Inject = 0.98