

January 1, 2019

Manure Customer  
1527 1st Ave.  
Greeley, CO 60631

Laboratory No. E19456-78

Sample ID: Manure for South Pivot

	AR	DMB	AR (lbs/ton)	Available lbs/ton 1st year*
Moisture (%)	18.8	NA	376	NA
Total Solids (%)	81.2	NA	1624	NA
Nitrogen (%TKN)	1.14	1.40	23	11.38
Phosphorus (% P <sub>2</sub> O <sub>5</sub> )	2.30	2.83	46	36.75
Potassium (% K <sub>2</sub> O)	1.34	1.66	27	24.20
Organic Matter (%)	33.4	41.20	669	NA
pH (1:2 w/w) (SI)	7.51			
Salts (1:2 w/w) (mS/cm)	5.37			
C/N Ratio**	15.3			
C/N Ratio***	17.0			

\* Hernandez, Schmitt. University of Minnesota Extension. 2012. (Assumes dairy cow manure injected into soil).

Ammonia is generally plant-available in the 1st year but it evaporates quickly. After two days up to half of the ammonia is lost.

Nitrate is always considered plant-available in the 1st year.

Available Nitrogen (TKN) 1st year is 50% of AR, 2nd year is 25%

\*\*Larney, et al Can. J. Soil Sci. **2004**, 85, 261-264

\*\*\* van Bemmelen, Landwirtschaftliche Versuch Station. **1891**, 37, 279-290.

Other tests available: Sodium (Na), Calcium (Ca), Magnesium (Mg), Micronutrients (Cu, Zn, Mn, Fe), Sulfur

AR=As Received; DMB=Dry Matter Basis; NA=Not Applicable