

Stockpiled Manure Application Rate Calculation Work Sheet

	Example:	Your numbers:
<p>1a Nutrient needs of crop (lbs/acre) Recommendations based on soil test results and a realistic yield goal</p>	<p>N = 200 P₂O₅ = 40 K₂O = 0</p>	<p>N = _____ P₂O₅ = _____ K₂O = _____</p>
<p>1b Nutrient carried over in last 2 years' applications (lbs/acre) 15% N from last year's application 6% N from year before last year's application</p>	<p>N = 20 P₂O₅ = 0 K₂O = 0</p>	<p>N = _____ P₂O₅ = _____ K₂O = _____</p>
<p>1c Nutrient needs to meet with manure Subtract line 1b from line 1a</p>	<p>N = 180 P₂O₅ = 40 K₂O = 0</p>	<p>N = _____ P₂O₅ = _____ K₂O = _____</p>
<p>2 Total nutrients available in manure (lb/ton) Based on manure analysis of representative sample collected close to time of application.</p>	<p>N = 24 P₂O₅ = 21 K₂O = 25</p>	<p>N = _____ P₂O₅ = _____ K₂O = _____</p>
<p>3 Determine available nutrients (lb/ton) Multiply the value in step 2a by availability, 50% for N and 90% for P and K.</p>	<p>N = 12 P₂O₅ = 19 K₂O = 23</p>	<p>N = _____ P₂O₅ = _____ K₂O = _____</p>
<p>4a Calculate application rates to supply N, and P₂O₅ needs (tons/acre) Divide values from Step 1C by values from Step 3.</p>	<p>N = 15 P₂O₅ = 2.1</p>	<p>N = _____ P₂O₅ = _____</p>
<p>4b Choose between N or P₂O₅ application rate (tons/acre) Select highest rate in Step 4a to use manure as complete fertilizer. Select lowest rate to maximize nutrient use from manure.</p>	<p>Rate = 2.1 (based on P)</p>	<p>Rate = _____</p>
<p>5a Determine amount nutrients applied at chosen rate (lbs/acre) Multiply the rate chosen in step 4b by available nutrients in Step 3.</p>	<p>N = 25 P₂O₅ = 40 K₂O = 48</p>	<p>N = _____ P₂O₅ = _____ K₂O = _____</p>
<p>5b Determine supplemental nutrients (lbs/acre) Subtract the nutrients applied, Step 5a from nutrients needed, Step 1c. If the difference is negative, enter 0.</p>	<p>N = 155 P₂O₅ = 0 K₂O = 0</p>	<p>N = _____ P₂O₅ = _____ K₂O = _____</p>