

## COMPOST / AMENDMENT EVALUATION

Send To : Jones Valley Teaching Farm 701 25th Street North Birmingham AL 35203	Project : Vermi Compost	Report Number : 25-183-0610 Customer Number : 13620 Date printed : 07/07/2025 Date received : 07/02/2025 Page : 1 of 3 Lab Number : 75707
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Sample Id : **Vermi Compost**

Nutrient	Total - Dry Weight	Extractable - Dry Weight	Saturation Extract	Sufficiency Factor
Nitrogen (N)	1.01 %	403 ppm		2.2
NH <sub>4</sub> -N		14 ppm		
NO <sub>3</sub> -N		389 ppm		
Phosphorus (P)	0.15 %	71 ppm		0.7
Phosphorus (P <sub>2</sub> O <sub>5</sub> )	0.34 %	163 ppm		
Potassium (K)	0.35 %	3000 ppm	15.1 meq/L	7.7
Potassium (K <sub>2</sub> O)	0.42 %	3630 ppm		
Calcium (Ca)	3.24 %	171 ppm	7.9 meq/L	0.1
Magnesium (Mg)	0.78 %	1168 ppm	4.3 meq/L	3.4
Sodium (Na)	0.02 %		1.6 meq/L	
Sulfur (S)	0.11 %			
Sulfate (SO <sub>4</sub> )			1.4 meq/L	0.5
Chloride (Cl)			4.2 meq/L	
Copper (Cu)	37.4 ppm	1.8 ppm		1.0
Zinc (Zn)	166 ppm	25 ppm		3.7
Manganese (Mn)	1030 ppm	13 ppm		0.8
Iron (Fe)	18000 ppm	96 ppm		1.5
Dilute Acid Fe		0.30 %		
Boron (B)	30.3 ppm		0.30 ppm	1.0

Test	Result
pH (sat paste)	7.4 s.u.
% Half Sat.	91
TEC	134 meq/kg
Qualitative Lime	Low
Salinity (EC of sat ext.)	2.7 dS/m
SAR (Sodium adsorption ratio)	0.63
Sodium as % of ECe	5 %
Bulk Density - Dry	519 lbs/yd <sup>3</sup>
Bulk Density - As Received	927 lbs/yd <sup>3</sup>
Moisture - As Received	44.0 %
Organic	37.0 %
Weight of organic / yd <sup>3</sup>	192 lbs/yd <sup>3</sup>
Weight of mineral / yd <sup>3</sup>	327 lbs/yd <sup>3</sup>
C/N Ratio	21.9

Gradation	
Wt Percent Retained 1"	0.0 %
Wt Percent Retained 1/2"	0.0 %
Fraction Passing 1/2 inch Screen - Dry Weight Basis	
Screen Opening	% Passing
Passing 9.5mm	100.0 %
Passing 6.4mm ( 1/4")	100.0 %
Passing 4.75mm	100.0 %
Passing 2.36mm	99.8 %
Passing 1.00mm	68.2 %
Passing 0.50mm	26.4 %

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**NUTRIENT SUMMARY**

Test	Amount Per Cubic Yard		Amount Per Ton, As Rec'd		Available as a % Of Total
	Total	Available	Total	Available	
Nitrogen	5.24 lbs	0.21 lbs	11.31 lbs	0.45 lbs	4
Phosphorus (P)	0.77 lbs	0.04 lbs	1.66 lbs	0.08 lbs	5
Phosphorus (P <sub>2</sub> O <sub>5</sub> )	1.76 lbs	0.08 lbs	3.8 lbs	0.18 lbs	5
Potassium (K)	1.8 lbs	1.56 lbs	3.88 lbs	3.36 lbs	87
Potassium (K <sub>2</sub> O)	2.18 lbs	1.88 lbs	4.7 lbs	4.07 lbs	87
Calcium	16.8 lbs	0.09 lbs	36.25 lbs	0.19 lbs	1
Magnesium	4.02 lbs	0.61 lbs	8.68 lbs	1.31 lbs	15
Sulfur	0.58 lbs	0.02 lbs	1.25 lbs	0.04 lbs	3
Copper	0.31 ozs	0.01 ozs	0.67 ozs	0.03 ozs	4
Zinc	1.38 ozs	0.2 ozs	2.97 ozs	0.44 ozs	15
Manganese	8.55 ozs	0.11 ozs	18.46 ozs	0.23 ozs	1
Iron	149.47 ozs	0.8 ozs	322.56 ozs	1.72 ozs	1
Boron	0.25 ozs	0 ozs	0.54 ozs	0.01 ozs	2
Organic Matter	192 lbs		414 lbs		

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### POTENTIAL RATE LIMIT FACTORS

Test	% Volume rate limit	Cubic yard amendment per 1000 sf to 6"							
		1	2	3	4	5	6	7	8
		Volume % amendment blend with sandy loam							
		5	11	16	22	27	32	38	43
EC sat. ext.	88 %								
Sodium sol.	No Limit								
Chloride sol.	No Limit								
Boron sol.	No Limit								
NH <sub>4</sub> -N	No Limit								
Available									
Nitrogen	No Limit								
PO <sub>4</sub> P	No Limit								
Copper	No Limit								
Zinc	No Limit								

Rate limit estimates based on amending a non-problematic sandy loam

### RELATIVE IMMEDIATE NUTRIENT AND ORGANIC VALUE

* Example Rate 43 %	Slight	Moderate	Abundant
Nitrogen			
Phosphorus			
Potassium			
Calcium			
Magnesium			
Copper			
Zinc			
Manganese			
Iron			
Sulfate			
Organic Matter			

\* If no chemical characteristics are rate limiting, the example rate is based on organic content of the amendment (up to a max of 43%).