

COMPOST / AMENDMENT EVALUATION

Send To :	Project :	Report Number :
		Customer Number :
		Date printed : 09/06/2019
		Date received : 09/04/2019
		Page : 1 of 3
		Lab Number :

Sample Id : **Compost**

Nutrient	Total - Dry Weight	Extractable - Dry Weight	Saturation Extract	Sufficiency Factor
Nitrogen (N)	1.04 %	33 ppm		0.1
NH ₄ -N		31 ppm		
NO ₃ -N		2 ppm		
Phosphorus (P)	0.12 %	95 ppm		0.6
Phosphorus (P ₂ O ₅)	0.27 %	218 ppm		
Potassium (K)	0.48 %	5234 ppm	28.1 meq/L	8.5
Potassium (K ₂ O)	0.58 %	6333 ppm		
Calcium (Ca)	3.81 %	3129 ppm	10.2 meq/L	0.7
Magnesium (Mg)	0.17 %	662 ppm	5.5 meq/L	1.1
Sodium (Na)	0.15 %		15.7 meq/L	
Sulfur (S)	0.16 %			
Sulfate (SO ₄)			4.0 meq/L	1.3
Chloride (Cl)			41.4 meq/L	
Copper (Cu)	31.3 ppm	1.6 ppm		0.5
Zinc (Zn)	42.1 ppm	10 ppm		0.8
Manganese (Mn)	89.8 ppm	2 ppm		0.1
Iron (Fe)	2360 ppm	13 ppm		0.1
Dilute Acid Fe		0.20 %		
Boron (B)	17.1 ppm		0.20 ppm	0.7

Test	Result
pH (sat paste)	7.8 s.u.
% Half Sat.	125
TEC	256 meq/kg
Qualitative Lime	High
Salinity (EC of sat ext.)	4.4 dS/m
SAR (Sodium adsorption ratio)	5.63
Sodium as % of ECe	33 %
Bulk Density - Dry	469 lbs/yd ³
Bulk Density - As Received	843 lbs/yd ³
Moisture - As Received	44.4 %
Organic	45.4 %
Weight of organic / yd ³	213 lbs/yd ³
Weight of mineral / yd ³	256 lbs/yd ³
C/N Ratio	26.1

Gradation	
Wt Percent Retained 1"	0.0 %
Wt Percent Retained 1/2"	2.0 %
Fraction Passing 1/2 inch Screen - Dry Weight Basis	
Screen Opening	% Passing
Passing 9.5mm	91.9 %
Passing 6.4mm (1/4")	88.3 %
Passing 4.75mm	84.2 %
Passing 2.36mm	67.3 %
Passing 1.00mm	47.7 %
Passing 0.50mm	28.0 %

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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	4.88 lbs	0.02 lbs	11.56 lbs	0.04 lbs	0
Phosphorus (P)	0.55 lbs	0.04 lbs	1.31 lbs	0.11 lbs	8
Phosphorus (P ₂ O ₅)	1.26 lbs	0.1 lbs	2.99 lbs	0.24 lbs	8
Potassium (K)	2.27 lbs	2.45 lbs	5.38 lbs	5.82 lbs	108
Potassium (K ₂ O)	2.74 lbs	2.97 lbs	6.51 lbs	7.04 lbs	108
Calcium	17.85 lbs	1.47 lbs	42.33 lbs	3.48 lbs	8
Magnesium	0.8 lbs	0.31 lbs	1.91 lbs	0.74 lbs	39
Sulfur	0.73 lbs	0.08 lbs	1.74 lbs	0.18 lbs	10
Copper	0.23 ozs	0.01 ozs	0.56 ozs	0.03 ozs	5
Zinc	0.32 ozs	0.08 ozs	0.75 ozs	0.18 ozs	24
Manganese	0.67 ozs	0.02 ozs	1.6 ozs	0.04 ozs	3
Iron	17.71 ozs	0.1 ozs	41.99 ozs	0.23 ozs	1
Boron	0.13 ozs	0 ozs	0.3 ozs	0.01 ozs	3
Organic Matter	213 lbs		505 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.	53 %								
Sodium sol.	98 %								
Chloride sol.	37 %								
Boron sol.	No Limit								
NH ₄ -N	No Limit								
Available									
Nitrogen	No Limit								
PO ₄ 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 37 %	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%).