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	Soil Tes	t Report	
Reported To	Sam	ple Information	
	Report Number	F17108-0586	
IIM CATRON	Report Date	4/20/2017	
50 W 250 S	Lab Number	13224	
EBANON, IN 46052	Sample ID	0001	
	To Be Grown	VEGETABLE GARDEN	

	Analysis Res	ults				
				Soil Test Ratin	g	
Analysis	Result	Very Low	Low	Medium	High	Very High
Organic Matter, %	4.2					
Phosphorus, ppm P (Bray-1 Equiv.)	28					
Potassium, ppm K	96					
Magnesium, ppm Mg	275					
Calcium, ppm Ca	1750					
Sodium, ppm Na	14					
Cation Exchange Capacity, meq/100g	12.5					
pH	6.5					
Buffer pH	6.9					
Soluble Salts, mmho/cm	0.1					
Sulfur, ppm S	6					
Zinc, ppm Zn	5.2					
Iron, ppm Fe	92					
Manganese, ppm Mn	27					
Copper, ppm Cu	2.2					
Boron, ppm B	0.5					

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				Annua	l Nutrier	nt Requ	irement				
		Pounds per 10	00 Square Feet			NV 1		Pounds per 1	,000 Square F	eet	
Lime	Nitrogen (N)	Phosphorus (P2O5)	Potassium (K2O)	Magnesium (Mg)	Sulfur (S)	Lime	Nitrogen (N)	Phosphorus (P2O5)	Potassium (K2O)	Magnesium (Mg)	Sulfur (S)
0	0.4	0.4	0.4	0.0	0.1	0	4	4	4	0	1

Service Servic	NPK		Annual Ap	plication Rate
	Fertilizer Grade	Description	lbs per 100 sq. ft.	lbs per 1,000 sq. ft
Product	12-12-12	Complete Fertilizer	3.3	or 33.0
			0.0	qr 0.0

Comments



3505 Conestoga Dr. Fort Wayne, IN 46808 260.483.4759 algreatlakes.com

Account Number: 99990

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		Account to the second s	
	Soil Test	t Report	
Reported To	Sam	ple Information	TREATE STANDONES
Reported 10	Report Number	F17108-0586	
JIM CATRON	Report Date	4/20/2017	
50 W 250 S	Lab Number	13224	
EBANON, IN 46052	Sample ID	0001	
	To Be Grown	VEGETABLE GARDEN	

Your plants will benefit from the addition of sulfur to the garden soil. Apply 1 pound of elemental sulfur per 1000 square feet, and incorporate into the soil. Water well after application.



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	Soil Tes	t Report	
Reported To	Sam	ple Information	
SUMPLE IN INC.	Report Number	F17108-0586	
JIM CATRON	Report Date	4/20/2017	
50 W 250 S	Lab Number	13225	
EBANON, IN 46052	Sample ID	0002	
	To Be Grown	VEGETABLE GARDEN	

	Analysis Res	sults
		Soil Test Rating
Analysis	Result	Very Low Low Medium High Very High
Organic Matter, %	4.0	
Phosphorus, ppm P (Bray-1 Equiv.)	89	
Potassium, ppm K	134	
Magnesium, ppm Mg	330	
Calcium, ppm Ca	2050	
Sodium, ppm Na	21	
Cation Exchange Capacity, meq/100g	14.6	
pH	6.5	
Buffer pH	6.9	
Soluble Salts, mmho/cm	0.6	
Sulfur, ppm S	127	
Zinc, ppm Zn	9.3	
Iron, ppm Fe	104	
Manganese, ppm Mn	30	
Copper, ppm Cu	2.2	
Boron, ppm B	0.7	

				Annua	l Nutrier	it Requ	irement				
BEE NAME	Pounds per 100 Square Feet							Pounds per 1	L,000 Square F	eet	
Lime	Nitrogen (N)	Phosphorus (P2O5)	Potassium (K2O)	Magnesium (Mg)	Sulfur (S)	Lime	Nitrogen (N)	Phosphorus (P2O5)	Potassium (K2O)	Magnesium (Mg)	Sulfur (S)
0	0.4	0.0	0.3	0.0	0.0	0	4	0	3	0	0

		Suggested Fertilizer Application	on
	NPK		Annual Application Rate
	Fertilizer Grade	Description	lbs per 100 sq. ft. lbs per 1,000 sq. ft.
Product 1	20-0-0	Ammonium Sulfate	2.0 or 20.0
Product 2	0-0-60	Potash	0.5 qr 5.0

Comments



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	Soil Tes	t Report	
Reported To	Sam	ple Information	
•	Report Number	F17108-0586	
IIM CATRON 50 W 250 S LEBANON, IN 46052	Report Date	4/20/2017	
	Lab Number	13226	
	Sample ID	0003	
	To Be Grown	VEGETABLE GARDEN	

	Analysis Res	ults
		Soil Test Rating
Analysis	Result	Very Low Low Medium High Very High
Organic Matter, %	3.8	
Phosphorus, ppm P (Bray-1 Equiv.)	30	
Potassium, ppm K	249	
Magnesium, ppm Mg	285	
Calcium, ppm Ca	1800	
Sodium, ppm Na	14	
Cation Exchange Capacity, meq/100g	12.4	
рН	6.8	
Soluble Salts, mmho/cm	0.1	
Sulfur, ppm S	9	
Zinc, ppm Zn	4.4	
Iron, ppm Fe	78	
Manganese, ppm Mn	32	
Copper, ppm Cu	2.3	
Boron, ppm B	0.7	

				Annua	l Nutrier	it Requ	irement				
Pounds per 100 Square Feet						MERITA		Pounds per 1	L,000 Square F	eet	
Lime	Nitrogen (N)	Phosphorus (P2O5)	Potassium (K2O)	Magnesium (Mg)	Sulfur (S)	Lime	Nitrogen (N)	Phosphorus (P2O5)	Potassium (K2O)	Magnesium (Mg)	Sulfur (S)
0	0.4	0.4	0.0	0.0	0.1	0	4	4	0	0	1

		Suggested Fertilizer Application			
	NPK		Annual Application		
	Fertilizer Grade	Description	lbs per 100 sq. ft.	lbs per 1,000 sq. ft.	
Product 1	20-0-0	Ammonium Sulfate	1.0	R 10.0	
Product 2	10-18-10	Lawn Starter	2.0	R 20.0	

Comments



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	Soil Tes	t Report	
Reported To	Sam	ple Information	
	Report Number	F17108-0586	
JIM CATRON	Report Date	4/20/2017	
50 W 250 S LEBANON, IN 46052	Lab Number	13227	
	Sample ID	0004	
	To Be Grown	VEGETABLE GARDEN	

	Analysis Res	ults					
		Soil Test Rating					
Analysis	Result	Very Low Low Medium High Very High					
Organic Matter, %	4.2						
Phosphorus, ppm P (Bray-1 Equiv.)	31						
Potassium, ppm K	146						
Magnesium, ppm Mg	365						
Calcium, ppm Ca	1900						
Sodium, ppm Na	13						
Cation Exchange Capacity, meq/100g	13.0						
рН	7.1						
Soluble Salts, mmho/cm	0.1						
Sulfur, ppm S	8						
Zinc, ppm Zn	6.9						
Iron, ppm Fe	75						
Manganese, ppm Mn	30						
Copper, ppm Cu	2.4						
Boron, ppm B	0.7						

				Annua	l Nutrier	nt Requ	irement				
	Pounds per 100 Square Feet							Pounds per 1	,000 Square F	eet	
Lime	Nitrogen (N)	Phosphorus (P2O5)	Potassium (K2O)	Magnesium (Mg)	Sulfur (S)	Lime	Nitrogen (N)	Phosphorus (P2O5)	Potassium (K2O)	Magnesium (Mg)	Sulfur (S)
0	0.4	0.4	0.2	0.0	0.1	0	4	4	2	0	1

		Suggested Fertilizer Application				
	NPK		Annual Application Rat			
	Fertilizer Grade	Description	lbs per 100 sq. ft.	lbs per 1,000 sq. ft.		
Product 1	20-0-0	Ammonium Sulfate	1.0	R 10.0		
Product 2	10-18-10	Lawn Starter	2.0	R 20.0		

Comments



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	Soil Tes	t Report	
Reported To	Sam	ple Information	
JIM CATRON 50 W 250 S LEBANON, IN 46052	Report Number	F17108-0586	
	Report Date	4/20/2017	
	Lab Number	13230	
	Sample ID	0005	
	To Be Grown	VEGETABLE GARDEN	

	Analysis Res	ults							
			Soil Test Rating						
Analysis	Result	Very Low	Low	Medium	High	Very High			
Organic Matter, %	4.2								
Phosphorus, ppm P (Bray-1 Equiv.)	40								
Potassium, ppm K	303								
Magnesium, ppm Mg	315								
Calcium, ppm Ca	1650								
Sodium, ppm Na	14								
Cation Exchange Capacity, meq/100g	11.9								
рН	6.9	豆 養 婦 星 野 章							
Soluble Salts, mmho/cm	0.1								
Sulfur, ppm S	8								
Zinc, ppm Zn	5.0								
Iron, ppm Fe	109								
Manganese, ppm Mn	34								
Copper, ppm Cu	2.6								
Boron, ppm B	0.6								

				Annua	l Nutrier	it Requ	irement				
	Pounds per 100 Square Feet							Pounds per 1	,000 Square F	eet	
Lime	Nitrogen (N)	Phosphorus (P2O5)	Potassium (K2O)	Magnesium (Mg)	Sulfur (S)	Lime	Nitrogen (N)	Phosphorus (P2O5)	Potassium (K2O)	Magnesium (Mg)	Sulfur (S)
0	0.4	0.3	0.0	0.0	0.1	0	4	3	0	0	1

		Suggested Fertilizer Application	n	
	NPK		Annual App	lication Rate
	Fertilizer Grade	Description	lbs per 100 sq. ft.	lbs per 1,000 sq. ft.
Product 1	20-0-0	Ammonium Sulfate	1.2	r 12.0
Product 2	10-18-10	Lawn Starter	1.6	R 16.0

Comments



INTERPRETIVE GUIDE FOR LAWN AND GARDEN SAMPLES



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Fact Sheet No. 10 Revised 05/2016 The Lawn & Garden Soil Test Report lists the results of analyzing a soil sample for it's general fertility status. A graphic display shows the rating for each of the results related to optimum plant growth. Along with this are general fertilizer application rates suggested to either improve the fertility of the soil or maintain it. Finally, some comments are made specific to your planting requirements as listed on the submittal form. This Fact Sheet contains additional information about each of the sections in the report.

ANALYSIS RESULTS

<u>Organic Matter</u> measures the amount of plant and animal residues in the soil. Usually the darker the color of the soil the more organic matter is present. Organic matter is beneficial because it helps soil tilth and also adds plant nutrients as it breaks down. Organic matter levels in the soil may be increased by adding amendments such as leaf litter, grass clippings, manure, peat or muck. Where practical, strive for a level of at least 3 to 5 percent.

<u>Phosphorus</u>, <u>Potassium</u>, <u>Calcium and Magnesium</u> are essential nutrients for plants. Generally, when these nutrient tests are rated very low, low or medium, sufficient fertilizer or lime must be added to build up the soil. When ratings are high or very high, either no fertilizer is needed or just enough to maintain the current nutrient level is necessary. The source of phosphorus and potassium is usually commercial fertilizer or manure. Lime is most often the source of calcium and magnesium.

<u>Cation Exchange Capacity (CEC)</u> measures the capacity of the soil to hold nutrients. The higher the CEC reading the greater the capacity. Muck or peat soils may have CEC's far in excess of 25; heavy clay soils have CEC's from 15 to 25; loamy soils from 5 to 15; and sandy soils below 5. Although high CEC soils can hold more nutrients, they are not necessarily more productive. Much depends on good management. Soil CEC's may be lowered by adding sands or gravels and increased by adding clay, muck or peat.

<u>Soil pH</u> determines the level of active soil acidity or alkalinity. A pH of 7.0 is neutral. Values lower than 7.0 are acid (sour). Higher values are alkaline (sweet). Soils commonly range in pH from 5.0 to 8.0. Most plants grow best when the soil pH is between 6.0 and 7.0. When the soil pH is greater than 7.0, phosphorus and some trace minerals may be less available to plants. There are some acid loving plants such as blueberries, azaleas and rhododendrons which prefer more acid soils (less than 6.0). When the soil pH is too low (acidic), lime should be applied. When the soil pH is too high (alkaline), sulfur may be applied to help lower the pH.

<u>Buffer pH</u> is used to determine the amount of lime to apply on acid soils. A value is not given when the soil pH is greater than 6.8, since no lime is needed. The buffer pH starts at 7.0 and goes downward as more lime is necessary.