

Client :  
Lilian Bruch  
6205 Singleton Place  
Betesde MD 20817

Grower :  
Derwood Demo Garden

Report No: 16-195-0516  
Cust No: 09290  
Date Printed: 07/14/2016  
Date Received : 07/13/2016  
PO:  
Page : 1 of 2

Lab Number : 03065

Field Id :

Sample Id : Veg Garden

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	6.7						15.6 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	250 ppm						%sat meq
Potassium (K)	M3	131 ppm						K 2.2 0.3
Calcium (Ca)	M3	2299 ppm						Ca 73.7 11.5
Magnesium (Mg)	M3	352 ppm						Mg 18.8 2.9
Sulfur (S)	M3	15 ppm						H 4.5 0.7
Boron (B)	M3	1.7 ppm						Na 0.9 0.1
Copper (Cu)	M3	4.6 ppm						
Iron (Fe)	M3	464 ppm						K/Mg Ratio: 0.10
Manganese (Mn)	M3	32 ppm						Ca/Mg Ratio: 3.92
Zinc (Zn)	M3	16.2 ppm						
Sodium (Na)	M3	33 ppm						
Soluble Salts								
Organic Matter	LOI	9.5 % ENR 150						
Nitrate Nitrogen								

## SOIL FERTILITY GUIDELINES

Crop : Garden-Home

Yield Goal : 0

Rec Units: LB/1000 SF

(lbs)	LIME	(tons)	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Mg	S	B	Cu	Mn	Zn	Fe
0			1.5	0	1.0	0	0.46	0.02	0	0	0	0
Crop :												
Rec Units:												

Comments :

### Garden-Home

- Broadcast boron using Borax and mix into the soil to raise boron level. Note boron should not be applied in the band near the plant.
- All recommended fertilizers are on actual elemental basis. To convert to product basis, divide the recommended quantity in the first page by the percentage of the active ingredient then multiply by 100.
- Use Ammonium Sulfate as N source to supply sulfur.
- For a more in depth explanation of the soil test and recommendations, go to our website [www.aleastern.com](http://www.aleastern.com) and select the "Lawn and Garden" tab at the top of home page. Under the "How to Understand a Soil Test Report" header you will find the link to the article "Soil Test Report & Fertilizer Recommendation Explained".
- Most vegetable crops need additional N about one month after emergence or transplanting. Sidedress 1.5-2.5 pounds of N per1000 square feet for green leafy vegetables, tomatoes, peppers, sweet corn, etc., and 0.5-1.5 pounds of N per1000 square feet for peas, beans, melons, cucumbers, carrots, root crops, etc. On tomatoes do not apply additional N until first fruit set are the size of a half dollar, two applications may be needed for long season varieties.

Client :  
Lilian Bruch  
6205 Singleton Place  
Betesde MD 20817

Grower :  
Derwood Demo Garden

Report No: 16-195-0516  
Cust No: 09290  
Date Printed: 07/14/2016  
Date Received : 07/13/2016  
PO:  
Page : 2 of 2

Lab Number : 03066

Field Id :

Sample Id : Shade

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	5.3						14.2 meq/100g
Buffer pH	SMP	6.49						%Saturation
Phosphorus (P)	M3	140 ppm						%sat meq
Potassium (K)	M3	140 ppm						K 2.5 0.4
Calcium (Ca)	M3	1513 ppm						Ca 53.3 7.6
Magnesium (Mg)	M3	218 ppm						Mg 12.8 1.8
Sulfur (S)	M3	22 ppm						H 31.0 4.4
Boron (B)	M3	1.0 ppm						Na 0.6 0.1
Copper (Cu)	M3	3.3 ppm						
Iron (Fe)	M3	386 ppm						K/Mg Ratio: 0.22
Manganese (Mn)	M3	38 ppm						Ca/Mg Ratio: 4.16
Zinc (Zn)	M3	14.2 ppm						
Sodium (Na)	M3	20 ppm						
Soluble Salts								
Organic Matter	LOI	9.1 % ENR 150						
Nitrate Nitrogen								

## SOIL FERTILITY GUIDELINES

Crop : Perennials

Yield Goal : 0

Rec Units: LB/1000 SF

(lbs)	LIME	(tons)	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Mg	S	B	Cu	Mn	Zn	Fe
120			2.5	0	3.0	0	0.14	0	0	0	0	0
Crop :												
Rec Units:												

Comments :

### Perennials

Limestone application is targeted to bring soil pH to 6.2.

- All recommended fertilizers are on actual elemental basis. To convert to product basis, divide the recommended quantity in the first page by the percentage of the active ingredient then multiply by 100.

- For best result, if there are no existing plants, broadcast all lime then till and mix 6 inches into the soil. Limit the lime application to 50 pounds per 1000 sq. ft. for existing plants, apply every 4-6 months until the recommended amount is fulfilled.

- Use Ammonium Sulfate as N source to supply sulfur.

- Apply the amount of lime recommended in first page to raise pH

- For a more in depth explanation of the soil test and recommendations, go to our website [www.aleastern.com](http://www.aleastern.com) and select the "Lawn and Garden" tab at the top of home page. Under the "How to Understand a Soil Test Report" header you will find the link to the article "Soil Test Report & Fertilizer Recommendation Explained".