

## SOIL ANALYSIS

Client :  
Midsommar Farms  
Karen Gesa  
12093 Mountain Watch Ct  
Lovettsville VA 20180

Grower :  
Midsommar Farms  
  
Farm ID: Midsommar

Report No: 16-251-0728  
Cust No: 09485  
Date Printed: 09/09/2016  
Date Received: 09/07/2016  
PO:  
Page: 2 of 4

Lab Number : 15376

Field Id :

Sample Id : Peony

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	6.1						12.5 meq/100g
Buffer pH	SMP	6.76						%Saturation
Phosphorus (P)	M3	16 ppm						%sat meq
Potassium (K)	M3	108 ppm						K 2.2 0.3
Calcium (Ca)	M3	1709 ppm						Ca 68.4 8.5
Magnesium (Mg)	M3	217 ppm						Mg 14.5 1.8
Sulfur (S)	M3	21 ppm						H 13.6 1.7
Boron (B)	M3	0.9 ppm						Na 1.0 0.1
Copper (Cu)	M3	1.2 ppm						
Iron (Fe)	M3	111 ppm						K/Mg Ratio: 0.17
Manganese (Mn)	M3	117 ppm						Ca/Mg Ratio: 4.72
Zinc (Zn)	M3	3.7 ppm						
Sodium (Na)	M3	29 ppm						
Soluble Salts								
Organic Matter	LOI	12.3 % ENR 150						
Nitrate Nitrogen								

## SOIL FERTILITY GUIDELINES

Crop : Peonies

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
25			2.0	3.5	4.0	0	0.17	0	0.02	0	0	0
Crop :												
Rec Units:												

Comments :

### Peonies

Limestone application is targeted to bring soil pH to 6.2.

- Broadcast copper using copper sulfate and mix into the soil to raise copper level. Copper may be applied more efficiently 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.
- 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.
- Phosphate is more efficient if applied near the plant, apply all phosphate beside the row. Broadcast N and/or K<sub>2</sub>O then mix into the soil. If there is no fertilizer meets the ratio, you can use single element fertilizer such as Urea, Triplesuper Phosphate and Muriate of Potash to achieve the requirements. Consult the enclosed instruction sheet on lime and fertilizer application.
- 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".



## SOIL ANALYSIS

Client :  
Midsommar Farms  
Karen Gesa  
12093 Mountain Watch Ct  
Lovettsville VA 20180

Grower :  
Midsommar Farms  
  
Farm ID: Midsommar

Report No: 16-251-0728  
Cust No: 09485  
Date Printed: 09/09/2016  
Date Received: 09/07/2016  
PO:  
Page: 3 of 4

Lab Number : 15377

Field Id :

Sample Id : Back Yard

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity
			Very Low	Low	Medium	Optimum	Very High	
Soil pH	1:1	6.5						18.7 meq/100g
Buffer pH								%Saturation
Phosphorus (P)	M3	51 ppm						%sat meq
Potassium (K)	M3	170 ppm						K 2.3 0.4
Calcium (Ca)	M3	2695 ppm						Ca 72.1 13.5
Magnesium (Mg)	M3	395 ppm						Mg 17.6 3.3
Sulfur (S)	M3	15 ppm						H 7.5 1.4
Boron (B)	M3	1.1 ppm						Na 0.3 0.1
Copper (Cu)	M3	1.4 ppm						
Iron (Fe)	M3	200 ppm						K/Mg Ratio: 0.12
Manganese (Mn)	M3	56 ppm						Ca/Mg Ratio: 4.10
Zinc (Zn)	M3	6.6 ppm						
Sodium (Na)	M3	13 ppm						
Soluble Salts								
Organic Matter	LOI	10.3 % ENR 150						
Nitrate Nitrogen								

## SOIL FERTILITY GUIDELINES

Crop : Annual Flowers

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			2.5	1.0	2.0	0	0.32	0	0.01	0	0	0
Crop :												
Rec Units:												

Comments :

### Annual Flowers

- Broadcast copper using copper sulfate and mix into the soil to raise copper level. Copper may be applied more efficiently 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.
- Phosphate is more efficient if applied near the plant, apply all phosphate beside the row. Broadcast N and/or K<sub>2</sub>O then mix into the soil. If there is no fertilizer meets the ratio, you can use single element fertilizer such as Urea, Triplesuper Phosphate and Muriate of Potash to achieve the requirements. Consult the enclosed instruction sheet on lime and fertilizer application.
- 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".