

Agro-One Soil Analysis

with Cornell Nutrient Guidelines

Agro-One
730 Warren Road
Ithaca, NY 14850
Phone: (800) 344-2697
Fax: (607) 257-1350
www.dairyone.com



Also sent to:

GRIFFIN CORNERS LLC
PO BOX 124
OAK RIDGE, NJ 07438

Lab Sample ID: **71747520**
Field/Location: 1
Date Sampled: 10/26/2014
Date Tested: 11/10/2014
Statement ID: GRIFFIN CORNERS LLC
Description:
County: Delaware

F

Emails/Phones: GRIFFIN CORNERS LLC: griffincorners@gmail.com

Element	lbs/acre*	Very Low	Low	Optimum	High	Very High
Phosphorus (P)	2					
Potassium (K)	79					
Calcium (Ca)	222					
Magnesium (Mg)	29					

Element	Value	Element	Value	Element	Value
Soil pH	4.6	Manganese (Mn), lbs/acre	13	% OM	2.5
Buffer pH	5.6	Zinc (Zn), lbs/acre	1		
Iron (Fe), lbs/acre	23	Aluminum (Al), lbs/acre	293		

Sample Information Summary

Soil Name: Rockruff
Sample Depth: Subsurface
Ground Cover: No
Crop Code: IDL
Type: Maintenance

Soil Fertilizer Recommendations (1=current yr, 2=next yr, etc.)

Year	Crop	tons / acre		lbs / acre	
		Lime	N Range	P2O5 Range	K2O
1	Idle Land	0.00	0	0	0.00

Comments - Improve yield and plant quality as well as protect the environment with proper fertilization.

* Modified Morgan analysis results reported in pounds per acre.

For assistance interpreting your report, contact your local Cooperative Extension office at 607-865-6531 or <http://cce.cornell.edu/Pages/Default.aspx> for a complete list of Cornell Cooperative Extension offices.

Nutrient recommendations provided by Cornell University.

These are general comments. Always consult with your crop adviser for recommendations specific to your farm.

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OAK RIDGE, NJ 07438

Lab Sample ID: **71747530**
Field/Location: 2
Date Sampled: 10/26/2014
Date Tested: 11/10/2014
Statement ID: GRIFFIN CORNERS LLC
Description:
County: Delaware

F

Emails/Phones: GRIFFIN CORNERS LLC: griffincorners@gmail.com

Element	lbs/acre*	Very Low	Low	Optimum	High	Very High
Phosphorus (P)	5					
Potassium (K)	124					
Calcium (Ca)	523					
Magnesium (Mg)	78					

Element	Value	Element	Value	Element	Value
Soil pH	4.6	Manganese (Mn), lbs/acre	30	% OM	4.2
Buffer pH	5.3	Zinc (Zn), lbs/acre	4		
Iron (Fe), lbs/acre	61	Aluminum (Al), lbs/acre	375		

Sample Information Summary

Soil Name: Rockruff
Sample Depth: Subsurface
Ground Cover: No
Crop Code: IDL
Type: Maintenance

Soil Fertilizer Recommendations (1=current yr, 2=next yr, etc.)

Year	Crop	tons / acre		lbs / acre	
		Lime	N Range	P2O5 Range	K2O
1	Idle Land	0.00	0	0	0.00

Comments - Improve yield and plant quality as well as protect the environment with proper fertilization.

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Also sent to:

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PO BOX 124
OAK RIDGE, NJ 07438

Lab Sample ID: **71747540**
Field/Location: 3
Date Sampled: 10/26/2014
Date Tested: 11/10/2014
Statement ID: GRIFFIN CORNERS LLC
Description:
County: Delaware

F

Emails/Phones: GRIFFIN CORNERS LLC: griffincorners@gmail.com

Element	lbs/acre*	Very Low	Low	Optimum	High	Very High
Phosphorus (P)	4					
Potassium (K)	71					
Calcium (Ca)	166					
Magnesium (Mg)	26					

Element	Value	Element	Value	Element	Value
Soil pH	4.6	Manganese (Mn), lbs/acre	16	% OM	2.7
Buffer pH	5.5	Zinc (Zn), lbs/acre	1		
Iron (Fe), lbs/acre	23	Aluminum (Al), lbs/acre	356		

Sample Information Summary

Soil Name: Halcott
Sample Depth: Subsurface
Ground Cover: No
Crop Code: APP
Type: Pre-Plant

Soil Fertilizer Recommendations (1=current yr, 2=next yr, etc.)

Year	Crop	tons / acre		lbs / acre	
		Lime	N Range	P2O5 Range	K2O
1	Apples	12.00	0	75	590.00

Comments - Improve yield and plant quality as well as protect the environment with proper fertilization.

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These are general comments. Always consult with your crop adviser for recommendations specific to your farm.

The soil name for this sample has been changed from Rockrift to Halcott for recommendations.

- If old grass sod, straw, or cover crop is to be plowed down, apply 40 lbs/acre of N before plowing a year prior to planting.
- Apply starter solution at transplanting and 0.25 lbs/tree of calcium nitrate (0.6 oz N) after foliage begins to develop.
- Requirements for established orchards are best determined from leaf analyses in conjunction with soil analyses.

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Lab Sample ID:	71747540
Field/Location:	3
Date Sampled:	10/26/2014
Date Tested:	11/10/2014
Statement ID:	GRIFFIN CORNERS LLC
Description:	
County:	Delaware

F

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- Lime rate is for 100% ENV. To calculate actual rate: rate to use = recommended rate/ENV (of lime source) x 100.
- Apply dolomitic lime containing at least 10% Mg.
- Apply 90 lbs Mg/acre as sulfates of Mg.
- A subsoil sample for your orchard was not found.
- Lime should be applied and incorporated during the year before planting.
- Apply and plow down 2/3 of the recommended lime (up to 4 tons/acre). Then disk the remaining lime into the surface soil.

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OAK RIDGE, NJ 07438

Lab Sample ID: **71747550**
Field/Location: 4
Date Sampled: 10/26/2014
Date Tested: 11/10/2014
Statement ID: GRIFFIN CORNERS LLC
Description:
County: Delaware

F

Emails/Phones: GRIFFIN CORNERS LLC: griffincorners@gmail.com

Element	lbs/acre*	Very Low	Low	Optimum	High	Very High
Phosphorus (P)	3	████████████████████				
Potassium (K)	219	██				
Calcium (Ca)	416	██				
Magnesium (Mg)	63	████████████████				

Element	Value	Element	Value	Element	Value
Soil pH	4.6	Manganese (Mn), lbs/acre	39	% OM	5.9
Buffer pH	5.4	Zinc (Zn), lbs/acre	2		
Iron (Fe), lbs/acre	46	Aluminum (Al), lbs/acre	382		

Sample Information Summary

Soil Name: Halcott
Sample Depth: Subsurface
Ground Cover: No
Crop Code: GPF
Type: Pre-Plant

Soil Fertilizer Recommendations (1=current yr, 2=next yr, etc.)

Year	Crop	tons / acre		lbs / acre	
		Lime	N Range	P2O5 Range	K2O
1	Grapes, French-American	16.50	0	70	0.00

Comments - Improve yield and plant quality as well as protect the environment with proper fertilization.

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These are general comments. Always consult with your crop adviser for recommendations specific to your farm.

The soil name for this sample has been changed from Rockrift to Halcott for recommendations.

- If old grass sod, straw, or cover crop is to be plowed down, apply 40 lbs/acre of N before plowing a year prior to planting.
- Apply starter solution at transplanting and 0.25 lbs/tree of calcium nitrate (0.6 oz N) after foliage begins to develop.
- Requirements for established orchards are best determined from leaf analyses in conjunction with soil analyses.

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Lab Sample ID:	71747550
Field/Location:	4
Date Sampled:	10/26/2014
Date Tested:	11/10/2014
Statement ID:	GRIFFIN CORNERS LLC
Description:	
County:	Delaware

F

Emails/Phones: GRIFFIN CORNERS LLC: griffincorners@gmail.com

- Lime rate is for 100% ENV. To calculate actual rate: rate to use = recommended rate/ENV (of lime source) x 100.
- Apply 25 lbs Mg/acre as sulfates of Mg.
- A subsoil sample for your orchard was not found.
- No subsoil sample found. Assumed subsoil pH to be equal to surface pH (except for high lime status soils).
- Lime should be incorporated one year before planting.
- Split lime application - plow down half - disk in half.

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Lab Sample ID: **71747560**
Field/Location: 5
Date Sampled: 10/26/2014
Date Tested: 11/10/2014
Statement ID: GRIFFIN CORNERS LLC
Description:
County: Delaware

F

Emails/Phones: GRIFFIN CORNERS LLC: griffincorners@gmail.com

Element	lbs/acre*	Very Low	Low	Optimum	High	Very High
Phosphorus (P)	3					
Potassium (K)	141					
Calcium (Ca)	509					
Magnesium (Mg)	58					

Element	Value	Element	Value	Element	Value
Soil pH	4.8	Manganese (Mn), lbs/acre	39	% OM	4.4
Buffer pH	5.5	Zinc (Zn), lbs/acre	2		
Iron (Fe), lbs/acre	38	Aluminum (Al), lbs/acre	398		

Sample Information Summary

Soil Name: Halcott
Sample Depth: Subsurface
Ground Cover: No
Crop Code: CUR
Type: Pre-Plant

Soil Fertilizer Recommendations (1=current yr, 2=next yr, etc.)

Year	Crop	tons / acre		lbs / acre	
		Lime	N Range	P2O5 Range	K2O
1	Currants	6.50	0	55	0.00

Comments - Improve yield and plant quality as well as protect the environment with proper fertilization.

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- Incorporate K, P, Mg, or Ca into the top 8 inches of soil the year before planting.
- A small amount of N may be required to establish a cover crop the year prior to planting.
- No N is recommended the planting year except on sandy soils. On sandy soils apply 30 lbs/acre of N four weeks after transplanting.

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Field/Location:	5
Date Sampled:	10/26/2014
Date Tested:	11/10/2014
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Description:	
County:	Delaware

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- Consult Cornell recommendations for small fruit production for approximate N rates in future years.
- This small fruit is sensitive to high rates of chloride fertilizers, such as found in muriate of potash or balanced fertilizers.
- Use either potassium sulfate or potassium-magnesium sulfate as a source of potassium.
- Lime rate is for 100% ENV. To calculate actual rate: rate to use = recommended rate/ENV (of lime source) x 100.
- Apply dolomitic lime containing at least 3% Mg.
- Mix lime throughout the rooting zone.