

### Waters Agricultural Laboratories, Inc

257 Newton Hwy | Camilla, GA 31730- | Phone (229) 336-7216



Customer	: 20140			Sample	ID: 20V4	DT					
PHILIA FARI	Μ				PHILIA FAR PHILIA FAR					red: 10/13/202 red: 10/14/202	
134 MILLER	RD			FieldID:						per: 211547PT	
JOHNSTOW	'N, NY 12095	-		Crop:	CABBAGE				Layer	ID:	
UNITED STA	ATES			Stage:	HEADING				Rep. Na	me:	
Plant Tiss	sue Labora	atory Data	a: 211547F	Υ							
Element	N %	Р%	К%	Mg %	Ca %	S %	B (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)	Cu (ppm)
Result	2.53	0.22	2.07	0.38	3.62	0.28	26	20	75	46	4
Excessive High											
Sufficient Low											
									_	_	

Plant Rat	tios - Actua	al / Sufficie	nt							
Ratio	N / S	N/K	P/S	P / Zn	K / Mg	K / Mn	Ca / B	Fe / Mn	Ca / K	Ca / Mg
Actual	9.0	1.2	0.8	110.0	5.5	276.0	1392.3	0.6	1.8	9.5
Sufficient	7.4	1.2	0.8	37.8	6.8	293.5	365.4	1.0	0.7	4.8
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#### **Recommendation** Comments

The following Plant nutrient levels are low, deficient or borderline: Nitrogen-Phosphorus-Potassium-Sulfur-Boron-Zinc-Copper-

 $\sim$  Apply 20 pounds of nitrogen per acre.

 $\sim$  Apply 100 lbs. of 10-34-0 per acre or equivalent amount of another phosphate material.

~ Apply 30 lbs. of Potassium per acre.

~ Apply 3 lbs. of foliar sulfur per acre. Application should be applied as a foliar spray in a minimum of 25 gallons per acre of water or applied through irrigation.

~ Apply 2 lbs. of solubor per acre, application should be applied as a foliar spray in a minimum of 25 gallons per acre of water or applied through irrigation.

 $\sim$  Apply 1/2 gallon of zinc chelate (or comparable zinc material) per acre.

~ Apply 1 quart of copper chelate (or comparable copper material) per acre, application should be applied as a foliar spray in a minimum of 25 gallons per acre of water or applied through irrigation.

~Above applications should be made only if crop is NOT within 30 days of maturity. If more than one foliar application is made, suggest that 1/2 be applied now and 1/2 5-7 days later. Use only material approved for foliar application.



## Waters Agricultural Laboratories, Inc

257 Newton Hwy | Camilla, GA 31730- | Phone (229) 336-7216



Customer	: 20140			Sample	ID: 40V8	TC					
PHILIA FARM	M			Grower:	PHILIA FAR	M			Receiv	red: 10/13/202	0
					PHILIA FAR	M				ed: 10/14/202	
134 MILLER				FieldID:						per: 211548PT	•
JOHNSTOW		j-		-	CABBAGE				Layer		
UNITED STA				_	HEADING				Rep. Na	me:	
Plant Tiss	1							1	1		1
Element	N %	Р%	K %	Mg %	Ca %	S %	B (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)	Cu (ppm)
Result	2.50	0.24	2.43	0.34	2.82	0.42	25	17	61	43	2
Excessive High											
Sufficient	:			<b></b> _		<b></b> _			<b></b> _		
Low			_				_		_	_	
Deficient					_						
	Ν	Р	К	Mg	Са	S	В	Zn	Mn	Fe	Cu

Plant Rat	tios - Actua	al / Sufficier	nt							
Ratio	N/S	N / K	P/S	P / Zn	K / Mg	K / Mn	Ca / B	Fe / Mn	Ca / K	Ca / Mg
Actual	6.0	1.0	0.6	141.2	7.2	398.4	1128.0	0.7	1.2	8.3
Sufficient	7.4	1.2	0.8	37.8	6.8	293.5	365.4	1.0	0.7	4.8
Dooomm	andation (	ammonto								

#### Recommendation Comments

The following Plant nutrient levels are low, deficient or borderline: Nitrogen-Phosphorus-Potassium-Boron-Zinc-Copper-

~ Apply 20 pounds of nitrogen per acre.

~ Apply 100 lbs. of 10-34-0 per acre or equivalent amount of another phosphate material.

~ Apply 30 lbs. of Potassium per acre.

~ Apply 2 lbs. of solubor per acre, application should be applied as a foliar spray in a minimum of 25 gallons per acre of water or applied through irrigation.

~ Apply 1/2 gallon of zinc chelate (or comparable zinc material) per acre.

~ Apply 1 quart of copper chelate (or comparable copper material) per acre, application should be applied as a foliar spray in a minimum of 25 gallons per acre of water or applied through irrigation.

~Above applications should be made only if crop is NOT within 30 days of maturity. If more than one foliar application is made, suggest that 1/2 be applied now and 1/2 5-7 days later. Use only material approved for foliar application.



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Customer	: 20140			Sample	e ID: 20V8	01					
PHILIA FARM	Л			Grower:	PHILIA FAF	RM			Receiv	ed: 10/13/202	0
				FarmID:	PHILIA FAF	RM			Process	ed: 10/14/202	0
134 MILLER				FieldID:						er: 211549PT	
JOHNSTOWI		-			CABBAGE				Layer		
UNITED STA				-	HEADING				Rep. Nar	ne:	
Plant Tiss	ue Labora	itory Data	: <b>211549</b>	PT	I	T	T				T
Element	N %	Ρ%	K %	Mg %	Ca %	S %	B (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)	Cu (ppm
Result	2.17	0.23	2.10	0.35	3.56	0.44	25	23	70	43	2
				i iai	nt Analy	515 Na	ungs				
Excessive High											
Excessive High Sufficient											
High											
High Sufficient											

Plant Rat	tios - Actua	al / Sufficie	nt							
Ratio	N/S	N / K	P/S	P / Zn	K/Mg	K / Mn	Ca / B	Fe / Mn	Ca / K	Ca / Mg
Actual	4.9	1.0	0.5	100.0	6.0	300.0	1424.0	0.6	1.7	10.2
Sufficient	7.4	1.2	0.8	37.8	6.8	293.5	365.4	1.0	0.7	4.8
Doomm	andation (	ammonto								

#### Recommendation Comments

The following Plant nutrient levels are low, deficient or borderline: Nitrogen-Phosphorus-Potassium-Boron-Zinc-Copper-

~ Apply 20 pounds of nitrogen per acre.

~ Apply 100 lbs. of 10-34-0 per acre or equivalent amount of another phosphate material.

~ Apply 30 lbs. of Potassium per acre.

~ Apply 2 lbs. of solubor per acre, application should be applied as a foliar spray in a minimum of 25 gallons per acre of water or applied through irrigation.

~ Apply 1/2 gallon of zinc chelate (or comparable zinc material) per acre.

~ Apply 1 quart of copper chelate (or comparable copper material) per acre, application should be applied as a foliar spray in a minimum of 25 gallons per acre of water or applied through irrigation.

~Above applications should be made only if crop is NOT within 30 days of maturity. If more than one foliar application is made, suggest that 1/2 be applied now and 1/2 5-7 days later. Use only material approved for foliar application.



## Waters Agricultural Laboratories, Inc

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Customer	: 20140			Sample	D: 20V2	0T					
PHILIA FARM	Л			Grower:	PHILIA FAI	RM			Receiv	ed: 10/13/202	D
					PHILIA FAI	RM				ed: 10/14/202	
134 MILLER				FieldID:						per: 211550PT	
JOHNSTOW		-			CABBAGE				Layer		
				-	HEADING				Rep. Na	ne:	
Plant Tiss			1			<u> </u>	<u> </u>				
Element	N %	Р%	К%	Mg %	Ca %	S %	B (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)	Cu (ppm)
Result	2.66	0.25	2.35	0.46	4.01	0.44	25	22	86	52	2
Excessive											
Sufficient					-						
Low											
Deficient								, .	,		
					_	_					
	Ν	Р	K	Mg	Ca	S	В	Zn	Mn	Fe	Cu

Plant Rat	tios - Actua	al / Sufficie	nt							
Ratio	N/S	N / K	P/S	P / Zn	K/Mg	K / Mn	Ca / B	Fe / Mn	Ca / K	Ca / Mg
Actual	6.1	1.1	0.6	113.6	5.1	273.3	1604.0	0.6	1.7	8.7
Sufficient	7.4	1.2	0.8	37.8	6.8	293.5	365.4	1.0	0.7	4.8
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#### Recommendation Comments

The following Plant nutrient levels are low, deficient or borderline: Nitrogen-Phosphorus-Potassium-Boron-Zinc-Copper-

~ Apply 20 pounds of nitrogen per acre.

~ Apply 100 lbs. of 10-34-0 per acre or equivalent amount of another phosphate material.

~ Apply 30 lbs. of Potassium per acre.

~ Apply 2 lbs. of solubor per acre, application should be applied as a foliar spray in a minimum of 25 gallons per acre of water or applied through irrigation.

~ Apply 1/2 gallon of zinc chelate (or comparable zinc material) per acre.

~ Apply 1 quart of copper chelate (or comparable copper material) per acre, application should be applied as a foliar spray in a minimum of 25 gallons per acre of water or applied through irrigation.

~Above applications should be made only if crop is NOT within 30 days of maturity. If more than one foliar application is made, suggest that 1/2 be applied now and 1/2 5-7 days later. Use only material approved for foliar application.



### Waters Agricultural Laboratories, Inc

257 Newton Hwy | Camilla, GA 31730- | Phone (229) 336-7216



Customer	: 20140			Sample	e ID: 20V6						
PHILIA FARM	N				PHILIA FAR				Receiv	ed: 10/13/2020	0
					PHILIA FAR	RM				ed: 10/14/202	
134 MILLER				FieldID:						oer: 211551PT	
JOHNSTOW		-			CABBAGE				Layer		
UNITED STA	-			-	HEADING				Rep. Na	ne:	
Plant Tiss	ue Labora	atory Data	a: 2115511	PT	I	T	T				I
Element	N %	Р%	К %	Mg %	Ca %	S %	B (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)	Cu (ppm
Result	2.36	0.26	2.51	0.41	3.17	0.48	24	22	60	43	2
Excessive											
Excessive High											
High											
High Sufficient											
High Sufficient Low		P	- <b>K</b>	Mg	Ca	S	B	Zn	Mn	Fe	Cu

Plant Rat	tios - Actua	al / Sufficie	nt							
Ratio	N/S	N / K	P/S	P / Zn	K/Mg	K / Mn	Ca / B	Fe / Mn	Ca / K	Ca / Mg
Actual	4.9	0.9	0.5	118.2	6.1	418.3	1320.8	0.7	1.3	7.7
Sufficient	7.4	1.2	0.8	37.8	6.8	293.5	365.4	1.0	0.7	4.8
Pacamm	ondation (	ommonte			•					

#### Recommendation Comments

The following Plant nutrient levels are low, deficient or borderline: Nitrogen-Potassium-Boron-Zinc-Copper-

~ Apply 20 pounds of nitrogen per acre.

~ Apply 30 lbs. of Potassium per acre.

~ Apply 2 lbs. of solubor per acre, application should be applied as a foliar spray in a minimum of 25 gallons per acre of water or applied through irrigation.

~ Apply 1/2 gallon of zinc chelate (or comparable zinc material) per acre.

~ Apply 1 quart of copper chelate (or comparable copper material) per acre, application should be applied as a foliar spray in a minimum of 25 gallons per acre of water or applied through irrigation.

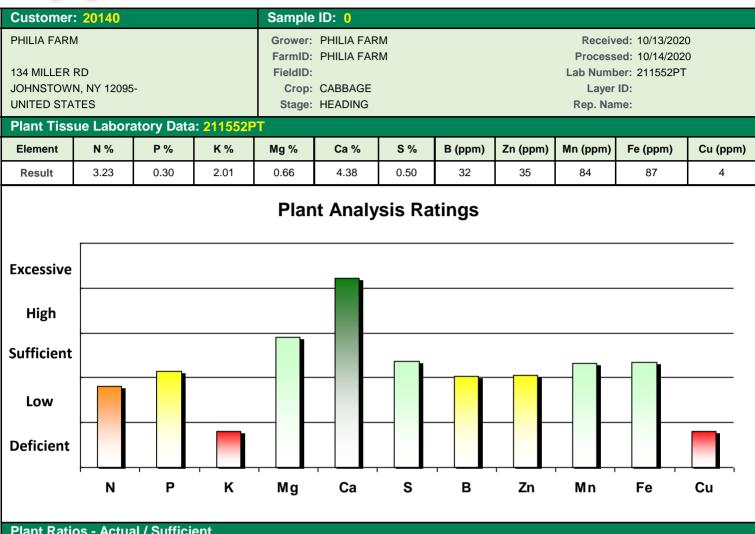
~Above applications should be made only if crop is NOT within 30 days of maturity. If more than one foliar application is made, suggest that 1/2 be applied now and 1/2 5-7 days later. Use only material approved for foliar application.



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"Improving Growth... With Science"

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Plant Ra	lios - Actua	ai / Sumclei	nt							
Ratio	N/S	N / K	P/S	P / Zn	K / Mg	K / Mn	Ca / B	Fe / Mn	Ca / K	Ca / Mg
Actual	6.5	1.6	0.6	85.7	3.1	239.3	1368.8	1.0	2.2	6.6
Sufficient	7.4	1.2	0.8	37.8	6.8	293.5	365.4	1.0	0.7	4.8
<b>D</b>	and the Channel of									

Recommendation Comments

The following Plant nutrient levels are low, deficient or borderline: Nitrogen-Potassium-Copper-

~ Apply 20 pounds of nitrogen per acre.

~ Apply 30 lbs. of Potassium per acre.

~ Apply 1 quart of copper chelate (or comparable copper material) per acre, application should be applied as a foliar spray in a minimum of 25 gallons per acre of water or applied through irrigation.

~Above applications should be made only if crop is NOT within 30 days of maturity. If more than one foliar application is made, suggest that 1/2 be applied now and 1/2 5-7 days later. Use only material approved for foliar application.



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Customer	: 20140			Sample	e ID: 40V2						
PHILIA FARM	Л				PHILIA FAR				Receiv	ed: 10/13/202	D
					PHILIA FAR	M				ed: 10/14/202	
134 MILLER				FieldID:						per: 211553PT	
JOHNSTOWI		-		-	CABBAGE				Layer		
		tom Dete	044550	-	HEADING				Rep. Na	me:	
Plant Tiss											
Element	N %	Р%	K %	Mg %	Ca %	S %	B (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)	Cu (ppm
Result	2.61	0.24	2.40	0.38	3.61	0.38	26	24	73	50	2
Freesive											
Excessive High											
High											
High Sufficient											
High Sufficient Low		P	К	Mg	Ca	S	B	Zn	Mn	Fe	Cu

Plant Ratios - Actual / Sufficient												
Ratio	N/S	N / K	P/S	P / Zn	K / Mg	K / Mn	Ca / B	Fe / Mn	Ca / K	Ca / Mg		
Actual	6.9	1.1	0.6	100.0	6.3	328.8	1388.5	0.7	1.5	9.5		
Sufficient	7.4	1.2	0.8	37.8	6.8	293.5	365.4	1.0	0.7	4.8		
Decembra	Becommendation Comments											

#### Recommendation Comments

The following Plant nutrient levels are low, deficient or borderline: Nitrogen-Phosphorus-Potassium-Boron-Zinc-Copper-

~ Apply 20 pounds of nitrogen per acre.

~ Apply 100 lbs. of 10-34-0 per acre or equivalent amount of another phosphate material.

~ Apply 30 lbs. of Potassium per acre.

~ Apply 2 lbs. of solubor per acre, application should be applied as a foliar spray in a minimum of 25 gallons per acre of water or applied through irrigation.

~ Apply 1/2 gallon of zinc chelate (or comparable zinc material) per acre.

~ Apply 1 quart of copper chelate (or comparable copper material) per acre, application should be applied as a foliar spray in a minimum of 25 gallons per acre of water or applied through irrigation.

~Above applications should be made only if crop is NOT within 30 days of maturity. If more than one foliar application is made, suggest that 1/2 be applied now and 1/2 5-7 days later. Use only material approved for foliar application.



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7.4

4.8

Result       2.88       0.26       2.13       0.52       3.86       0.43       28       27       71       54       2         Plant Analysis Ratings         Excessive         High       Guide Colspan="6">Guide Colspan="6">Guide Colspan="6">Guide Colspan="6">Colspan="6"Colspan="6">Colspan="6"Colspan="	Custome	r: 20140			Sample II	D: 40V60T	•						
134 MILLER RD JOHNSTOWN, NY 1205- UNITED STATES	PHILIA FAR	М			FarmID: PHILIA FARM FieldID:				Processed: 10/14/2020 Lab Number: 211554PT				
Stage: HEADING       Rep. Name:         Plant Tissue Laboratory Data: 211554PT         Element       N %       P %       K %       Mg %       Ca %       S %       B (ppm)       Zn (ppm)       Mn (ppm)       Fe (ppm)       Cu (pp         Result       2.88       0.26       2.13       0.52       3.86       0.43       28       27       71       54       2         Plant Analysis Ratings         Excessive         High       Sufficient       Deficient       Mg / Ca / S       B       Zn / Mn       Fe / Cu         Deficient       N       P       K       Mg / Ca / S       B       Zn / Mn       Fe / Cu	134 MILLER	RD											
Plant Tissue Laboratory Data: 211554PT         Element       N %       P %       K %       Mg %       Ca %       S %       B (ppm)       Zn (ppm)       Mn (ppm)       Fe (ppm)       Cu (pp         Result       2.88       0.26       2.13       0.52       3.86       0.43       28       27       71       54       2         Plant Analysis Ratings         Excessive         High       Guide	JOHNSTOV	/N, NY 12095	5-										
Element       N %       P %       K %       Mg %       Ca %       S %       B (ppm)       Zn (ppm)       Mn (ppm)       Fe (ppm)       Cu (ppm)         Result       2.88       0.26       2.13       0.52       3.86       0.43       28       27       71       54       2         Plant Analysis Ratings         Excessive         High       Image: Ca S B Zn Mn Fe Cu         Deficient       N P K Mg Ca S B Zn Mn Fe Cu	UNITED ST	ATES			Stage: HEADING Rep. Name:								
Result 2.88 0.26 2.13 0.52 3.86 0.43 28 27 71 54 2 Plant Analysis Ratings Excessive High Sufficient Low Deficient N P K Mg Ca S B Zn Mn Fe Cu Plant Ratios - Actual / Sufficient	Plant Tis	sue Labora	atory Data	: 211554PT									
Plant Analysis Ratings	Element	N %	Р%	К%	Mg %	Ca %	S %	B (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)	Cu (ppm	
Excessive High Sufficient Low Deficient N P K Mg Ca S B Zn Mn Fe Cu	Result	2.88	0.26	2.13	0.52	3.86	0.43	28	27	71	54	2	
Low Deficient N P K Mg Ca S B Zn Mn Fe Cu Plant Ratios - Actual / Sufficient													
Deficient N P K Mg Ca S B Zn Mn Fe Cu Plant Ratios - Actual / Sufficient	Sufficien	t					 				<b></b> _		
N P K Mg Ca S B Zn Mn Fe Cu Plant Ratios - Actual / Sufficient	Low												
Plant Ratios - Actual / Sufficient	Deficient			, .									
		Ν	Ρ	К	Mg	Са	S	В	Zn	Mn	Fe	Cu	
Ratio         N/K         P/S         P/Zn         K/Mg         K/Mn         Ca/B         Fe/Mn         Ca/K         Ca/Mg	Plant Rat	ios - Actua	al / Sufficie	ent									
	Ratio	N / S	N / K	P/S	P / Zn	K/Mg	K	/ Mn	Ca / B	Fe / Mn	Ca / K	Ca / Mg	

### 7.4 **Recommendation Comments**

6.7

The following Plant nutrient levels are low, deficient or borderline: Nitrogen-Potassium-Boron-Copper-

1.4

1.2

0.6

0.8

~ Apply 20 pounds of nitrogen per acre.

Actual Sufficient

~ Apply 30 lbs. of Potassium per acre.

~ Apply 2 lbs. of solubor per acre, application should be applied as a foliar spray in a minimum of 25 gallons per acre of water or applied through irrigation.

96.3

37.8

~ Apply 1 quart of copper chelate (or comparable copper material) per acre, application should be applied as a foliar spray in a minimum of 25 gallons per acre of water or applied through irrigation.

4.1

6.8

300.0

293.5

1378.6

365.4

0.8

1.0

1.8

0.7

~Above applications should be made only if crop is NOT within 30 days of maturity. If more than one foliar application is made, suggest that 1/2 be applied now and 1/2 5-7 days later. Use only material approved for foliar application.



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Customer	20140			Sample	ID: 40V4	0T						
PHILIA FARM				Grower: PHILIA FARM				Received: 10/13/2020				
					FarmID: PHILIA FARM				Processed: 10/14/2020			
134 MILLER RD					FieldID:				Lab Number: 211555PT			
JOHNSTOW		-			Crop: CABBAGE				Layer ID:			
UNITED STA	-			-	Stage: HEADING				Rep. Name:			
Plant Tiss	ue Labora		: 211555	1		1	1				1	
Element	N %	Р%	K %	Mg %	Ca %	S %	B (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)	Cu (ppm	
Result	2.44	0.23	2.31	0.45	4.02	0.49	28	23	68	46	2	
	·			Fiai	nt Analy	313 1\a	tings					
				Fidi								
Excessive High						313 1/4						
Excessive High Sufficient												
High												
High Sufficient												

Plant Ratios - Actual / Sufficient											
Ratio	N/S	N / K	P/S	P / Zn	K/Mg	K / Mn	Ca / B	Fe / Mn	Ca / K	Ca / Mg	
Actual	5.0	1.1	0.5	100.0	5.1	339.7	1435.7	0.7	1.7	8.9	
Sufficient	7.4	1.2	0.8	37.8	6.8	293.5	365.4	1.0	0.7	4.8	
Pacomm	ondation (	ommonte									

#### **Recommendation** Comments

The following Plant nutrient levels are low, deficient or borderline: Nitrogen-Phosphorus-Potassium-Boron-Zinc-Copper-

 $\sim$  Apply 20 pounds of nitrogen per acre.

 $\sim$  Apply 100 lbs. of 10-34-0 per acre or equivalent amount of another phosphate material.

~ Apply 30 lbs. of Potassium per acre.

~ Apply 2 lbs. of solubor per acre, application should be applied as a foliar spray in a minimum of 25 gallons per acre of water or applied through irrigation.

 $\sim$  Apply 1/2 gallon of zinc chelate (or comparable zinc material) per acre.

~ Apply 1 quart of copper chelate (or comparable copper material) per acre, application should be applied as a foliar spray in a minimum of 25 gallons per acre of water or applied through irrigation.

~Above applications should be made only if crop is NOT within 30 days of maturity. If more than one foliar application is made, suggest that 1/2 be applied now and 1/2 5-7 days later. Use only material approved for foliar application.