Jarrell Cooper

Vice President - Sales



1976 Camilla, GA—2000 Owensboro, KY 2014 Warsaw, NC





Waters Agricultural Laboratories, Inc. Analytical and Microbiological Services

- Soil Testing
- Nematode Assays
- Plant Analysis
- Citrus, Peach, & Pecan NutrientProgram
- Pine/Hardwood Foliage Analysis
- Fertilizer Analysis
- Limestone and Gypsum Materials
- Feed Analysis
- Manure and Sludge Analysis
- Heavy Metal Analysis
- Microbiological Analysis
- Water Analysis

- Herbicide & Pesticide ResidueAnalysis
- Herbicide & Pesticide Analysis
- Aflatoxins and Mycotoxins
- Cotton Programs
- Onion Programs
- Golf Course Fertility Management
- Precision Agricultural MappingServices
- AgFleet, EnHanced Ag and Agrian
- Research Analysis

Water Quality for Irrigation

- * Water is now considered a commodity.
- Weather patterns changing creating multiple moisture condition in regions worldwide
- Proper irrigation programs being used to conserve water
- Water quality for irrigation more important today
- Timing is often more important than application amounts
- More data being collected allows for better decisions
- Irrigation suitability test being utilized more than ever
- Looking for more regulations to come sooner than later

High Analytical Standards

- Quality Control Program
- Qualified Personnel
- Modern Equipment
- Accepted Procedures (AOAC)
- Methods Suitable For Soils In Different Regions



WATERS AGRICULTURAL LABORATORIES, INC.

P.O. Box 382 • Newton Highway Camilla, Georgia 31730 (912) 336-7216 (912) 336-7967 FAX WATERS AGRICULTURAL LABORATORIES, INC.

Soil Analysis Report

Ship To: XYZ FARMS NEWTON HIGHWAY CAMILLA

, GA 31730

For:

Received: 10/22/97 Processed: 10/24/97 Acct#:

Test Method · Double Acid

Element	Lab I	₹esu
Phosphorus	62	1bs
Potassium	140	1bs
Magnesium	60	1bs
Calcium	854	lbs
Soil pH	5.9	
Buffer pH	7.75	
Sulfur	21	1bs
Boron	0.5	1bs
Zinc	2.6	1bs
Manganese	20	lbs
Iron	17	1bs
Copper	1.2	1bs
Aluminum		
Sodium		
Soluble Salts		
Organic Matter		
Nitrate Nitrogen		
Cation Exchange Capacity	4	6

- •Double Acid = Mehlich I
- •Mehlich III
- Ammonium Acetate

**=See Back

- •Bray I for P
- Others

*=Maintenance Recommendation

Crop : COTTON

Lime Toes/Acre	Gypsum Tons/Acre	N Nitrogen	P ₂ O ₅ Phosphate	Potash	Magnesium	Sulfur	Boron	Zinc	Manganese	Iron	Copper	
1.0		90	60	100	30	19	0.5	2	5			8

Comments:

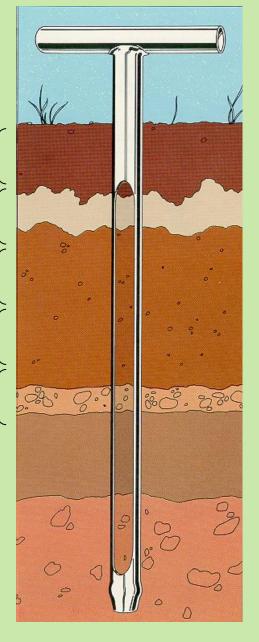
PREBLOOM NITROGEN RECOMMENDATIONS FOR COTTON CAN BE REDUCED BY 30 LBS PER ACRE IF PETIOLE ANALYSIS IS UTILIZED. IF SOIL BORON LEVEL IS BELOW 1.5 LBS PER ACRE AN APPLICATION OF 1-2 LBS OF BORON SHOULD BE CONSIDERED-1/2 APPLIED AT PLANTING AND 1/2 APPLIED DURING FRUITING STAGE. ACTUAL AMOUNT OF ALL NUTRIENTS SHOULD BE DETERMINED BY PLANT ANALYSIS OR PETIOLE ANALYSIS.

IF DOLOMITE LIME HAS BEEN APPLIED RECENTLY, MAGNESIUM RECOMMENDATION CAN BE CUT IN HALF.

Form No. 1L

Quality Soil Analysis

Begins With Accurate Sampling





Lime Requirement in 1000 lbs./Acre to Raise Soil pH to 6.5

Buffer pH

		7.95	7.90	7.85	7.80	7.75	7.70	7.65	7.60	7.55	7.50	7.45	7.40	7.35	7.30
	6.4	0	0	0	0	0	0	0	0	1	1	1	1	2	2
	6.3	0	0	0	0	0	1	1	1	1	1	2	2	2	2
	6.2	1	1	1	1	1	1	1	2	2	2	2	2	2	2
	6.1	1	1	1	1	1	1	1	2	2	2	2	2	2	3
He	6.0	1	1	1	1	1	1	2	2	2	2	2	2	3	3
er I	5.9	1	1	1	2	2	2	2	2	2	3	3	3	3	4
Vat	5.8	1	1	2	2	2	2	2	2	2	3	3	3	3	4
	5.7	1	1	2	2	2	2	2	2	2	3	3	3	4	4
	5.6	1	1	2	2	2	2	2	2	2	3	3	3	4	4
	5.5	1	1	2	2	2	2	2	3	3	3	4	4	4	5
	5.4	2	2	2	2	2	2	3	3	3	3	4	4	4	5
	5.3	2	2	2	2	2	2	3	3	3	3	4	4	5	5
	5.2	2	2	2	2	2	2	3	3	3	3	4	4	5	5



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"Improving Growth... With Science"

Soil Analysis

WATERS AGRICULTURAL LAB

Grower: JARRELL COOPER

LAKE NONA

Received: 02/23/2016

JARRELL COOPER

Area:

Processed: 02/25/2016

PO BOX 382

Sample ID: 9T

Account #: 158

CAMILLA GA 31730

Fertility Recommendations

Crop: BERMUDA TEES

lbs./1000 Sq. Ft.

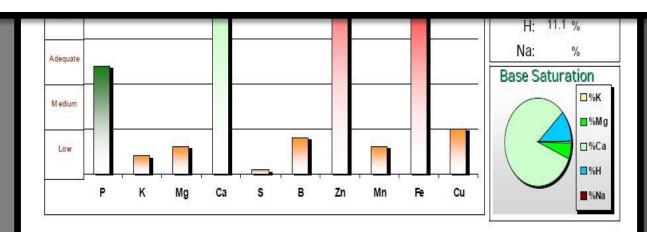
Yield: MAX

	Lime	Gypsum	N	P205	K20	Mg	S	B	Zn	Mn	Fe	Cu
	lbs/1000SqFt	lbs/1000SqFt	Nitrogen	Phosphate	Potash	Magnesium	Sulfur	Boron	Zinc	Manganese	Iron	Copper
339			6.90	1.15	5.75	0.80	0.74	0.016		0.21		0.01

Comments:

* = Maintenance Recommendation

NITROGEN AND POTASSIUM SHOULD BE APPLIED IN SPLIT APPLICATIONS - PREFERABLY 3 TO 5 TIMES -PREDICATED ON THE TYPE OF NITROGEN USED. PLANT SAMPLES (GRASS CLIPPINGS) SHOULD BE TAKEN DURING THE GROWING SEASON TO MONITOR ALL NUTRIENTS. ADDITIONAL NUTRIENTS MAY BE NEEDED ESPECIALLY NITROGEN AND POTASSIUM. If Dolomite Lime has been applied recently - Magnesium recommendation can be cut in half.





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"Improving Growth... With Science"

Soil Analysis

WATERS AGRICULTURAL LAB

Grower: JARRELL COOPER

Received: 02/23/2016

JARRELL COOPER

Area: LAKE NONA

Processed: 02/25/2016

PO BOX 382

Sample ID: 11A

Account #: 158

CAMILLA, GA 31730

Fertility Recommendations

Crop: GOLF-BERMUDA FAIRWAY

lbs./1000 Sq. Ft.

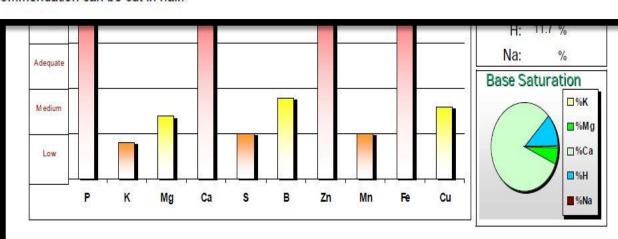
Yield: MAX

Lime	Gypsum	N	P205	K2O	Mg	S	B	Zn	Mn	Fe	Cu
lbs/1000SqFt	bs/1000SqFt	Nitrogen	Phosphate	Potash	Magnesium	Sulfur	Boron	Zinc	Manganese	Iron	
		4.02		4.60	0.23	0.28	0.003				0.00

^{* =} Maintenance Recommendation

Comments:

NITROGEN AND POTASSIUM SHOULD BE APPLIED IN SPLIT APPLICATIONS - PREFERABLY 3 TO 5 TIMES - PREDICATED ON THE TYPE OF NITROGEN USED. PLANT SAMPLES (GRASS CLIPPINGS) SHOULD BE TAKEN DURING THE GROWING SEASON TO MONITOR ALL NUTRIENTS. ADDITIONAL NUTRIENTS MAY BE NEEDED ESPECIALLY NITROGEN AND POTASSIUM. If Dolomite Lime has been applied recently - Magnesium recommendation can be cut in half.





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"Improving Growth... With Science"

Soil Analysis

WATERS AGRICULTURAL LAB

Grower: JARRELL COOPER

Received: 02/23/2016

JARRELL COOPER

Area:

LAKE NONA

Processed: 02/25/2016

PO BOX 382

17G Sample ID:

Account #: 158

Fertility Recommendations

Crop: GOLF-BERMUDA GREENS

lbs./1000 Sq. Ft.

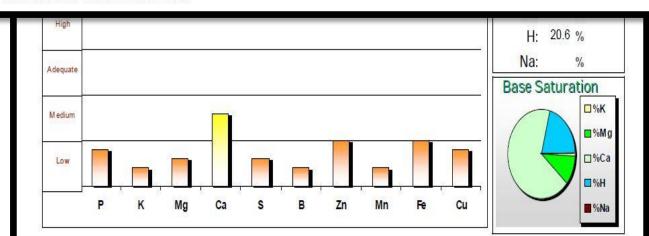
Yield: MAX

Lime lbs/1000SqFt	Gypsum lbs/1000SqFt	IN	P205 Phosphate	K2O Potash	Mg Magnesium	S Sulfur	B Boron	Zn Zinc	Mn Manganese	Fe Iron	Cu
3		8.62	2.41	7.82	0.80	0.55	0.018		0.23	0.07	0.01

^{* =} Maintenance Recommendation

Comments:

NITROGEN AND POTASSIUM SHOULD BE APPLIED IN SPLIT APPLICATIONS - PREFERABLY 3 TO 5 TIMES -PREDICATED ON THE TYPE OF NITROGEN USED. PLANT SAMPLES (GRASS CLIPPINGS) SHOULD BE TAKEN DURING THE GROWING SEASON TO MONITOR ALL NUTRIENTS. ADDITIONAL NUTRIENTS MAY BE NEEDED ESPECIALLY NITROGEN AND POTASSIUM. If Dolomite Lime has been applied recently - Magnesium recommendation can be cut in half.





WATERS AGRICULTURAL LAB

COOPER

Customer: 158

JARRELL

PO BOX 382

Waters Agricultural Laboratories, Inc.

P.O. Box 382 257 Newton Hwy Camilla, GA 31730 (229) 336-7216 FAX (229) 336-7967

Plant Tissue Analysis

Grower: WATERS LANDING

FieldID:

SampleID: NG B

Crop: BERMUDA FWY

"Improving Growth... With Science"

Received: 10/22/2015

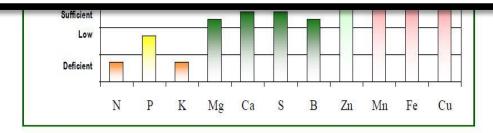
Processed: 10/23/2015

Lab Number: 212875PT

Comments

- ~ Apply 1- 1.5 lbs. per 1000 Sq/Ft of nitrogen.
- ~ Apply 1- 1.5lbs per 1000 Sq/Ft of phosphate material.
- ~ Apply 1/2- 1 lbs. of Potassium per 1000 Sq/Ft.
- ~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.

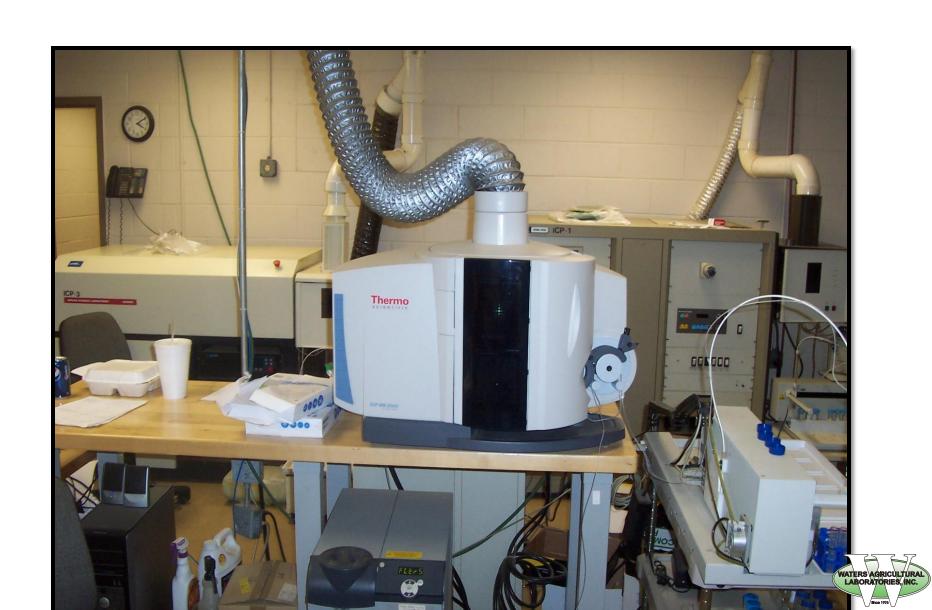
Note: A soil sample was not submitted with plant tissue sample, therefore a thorough analysis is not possible. The results and recommendations are based only on the plant analysis.



The following Plant nutrient levels are low, deficient or borderline:

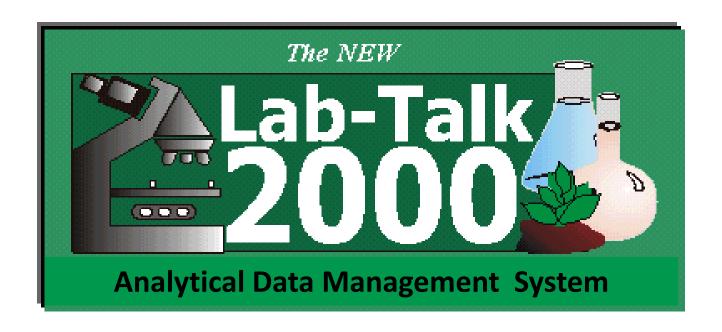
Nitrogen-Phosphorus-Potassium-

ICAP



LabTalk

A Complete Analytical Data Management System



Results Returned in 48 Hours or Less



Thank You



Improving Growth with Science since 1976

Jarrell Cooper—jarrell@watersag.com Vice President, Sales

www.watersag.com