



College of Agricultural &
Environmental Sciences
UNIVERSITY OF GEORGIA

Backyard Blueberries

Josh Fuder-Cherokee County

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Growing Conditions

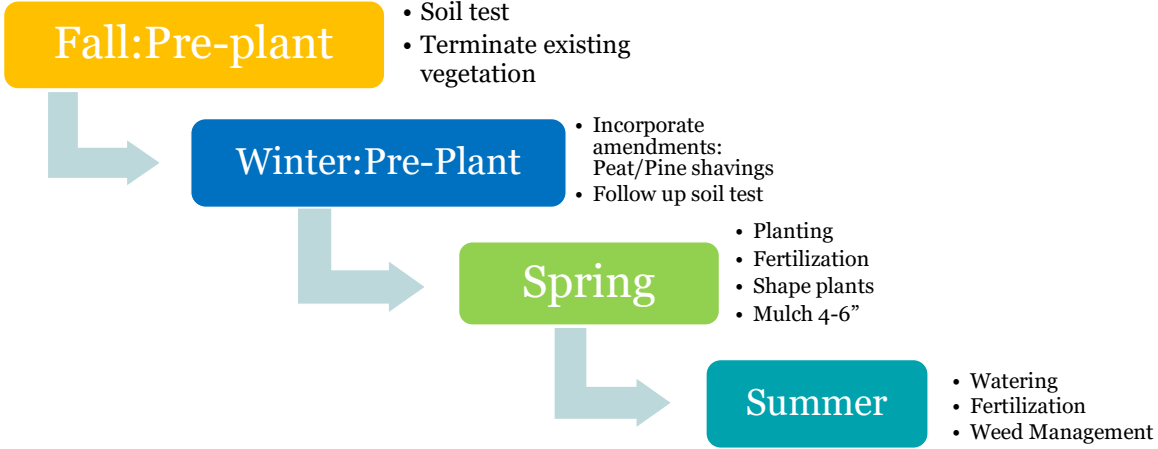
- FULL Sun
- Soil
 - pH 4.5-5.2
 - High Organic Matter >3%
 - Well-Drained
 - Raised Bed or Mounded Rows
 - Deep Mulch
 - LOW Nutrients-previous garden sites often not a good choice
- Water
 - Drip Irrigation Ideal



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Getting Started



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Compost... Stay away



Soil, Plant, and Water Laboratory
2400 College Station Road
Athens, Georgia 30602-9105
Website: <http://aesl.ces.uga.edu>

Soil Test Report

Sample ID: Woodstock, GA 30188
Client Information: Sample: MM, Crop: Home Vegetable Garden

Lab Information: Lab #36047, Received: Feb 14, 2022, Completed: Feb 15, 2022, Printed: Mar 10, 2022, Tests: S1

County Information: Cherokee County, 1130 Bluffs Parkway, Suite G-49, Canton, GA 30114, phone: 770-721-7803, e-mail: uge1057@uga.edu

Results: Mehlich I Extractant. No phosphate (P), potash (K), or lime needed if shaded bars are above this line.

Nutrient	Phosphorus (P)	Potassium (K)	Calcium (Ca)	Magnesium (Mg)	Zinc (Zn)
Soil Test Index	525 lbs/Acre	6722 lbs/Acre	8726 lbs/Acre	994 lbs/Acre	4 lbs/Acre

pH and Lime: pH 8.3, Lime not needed.

Recommendations: No Limestone recommended.



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Soil Test Report

Sample ID: Woodstock, GA 30188
Client Information: Sample: buck jones, Crop: Home Vegetable Garden

Lab Information: Lab #36046, Received: Feb 14, 2022, Completed: Feb 15, 2022, Printed: Mar 10, 2022, Tests: S1

County Information: Cherokee County, 1130 Bluffs Parkway, Suite G-49, Canton, GA 30114, phone: 770-721-7803, e-mail: uge1057@uga.edu

Results: Mehlich I Extractant. No phosphate (P), potash (K), or lime needed if shaded bars are above this line.

Nutrient	Phosphorus (P)	Potassium (K)	Calcium (Ca)	Magnesium (Mg)	Zinc (Zn)
Soil Test Index	1131 lbs/Acre	3545 lbs/Acre	2897 lbs/Acre	1427 lbs/Acre	35 lbs/Acre

pH and Lime: pH 7.7, Lime not needed.

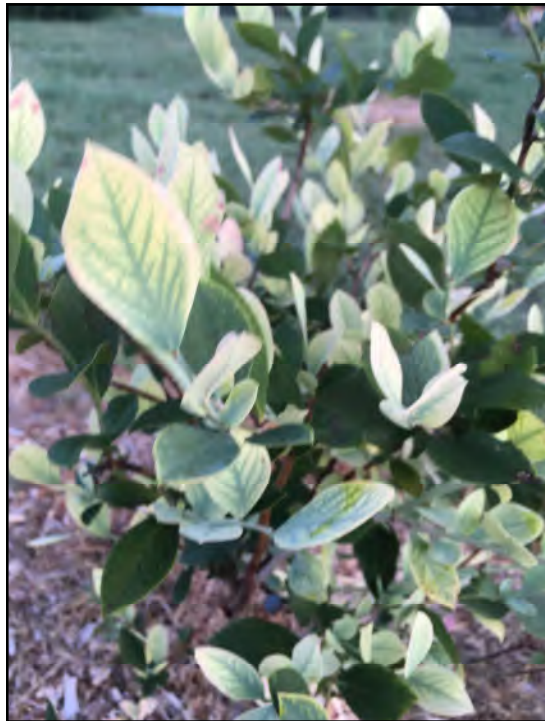
Recommendations: No Limestone recommended.



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Initial Diagnosis: Soil pH is off

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Ag & Environmental Services Labs



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Soil Test Report

Sample ID

Client Information
 Fuder, Josh
 137 Ellenwood Drive
 Canton, GA 30115
 Sample: 1
 Crop: Blueberries-Home Garden

Lab Information
 Lab #7830
 Completed: Sep 20, 2016
 Printed: Sep 22, 2016
 Tests: S1

County Information
 Cherokee County
 1130 Bluffs Parkway, Suite G-49
 Canton, GA 30114
 phone: 770-721-7803
 e-mail: uge1057@uga.edu

(CEC/CEA Signature)

Results — Mehlich I Extractant

Very High				
High				
Medium				
Low				
	Phosphorus (P)	Potassium (K)	Calcium (Ca)	Magnesium (Mg)
Soil Test Index	319 lbs/Acre	438 lbs/Acre	2253 lbs/Acre	225 lbs/Acre

— UGA Lime Buffer Capacity Method*

				High
				Sufficient
				Low
	Zinc (Zn)	Manganese (Mn)	pH *	Lime Buffer Capacity (LBC)
Soil Test Index	12 lbs/Acre	31 lbs/Acre	4.9	610

Recommendations

Can't find a specific grade of fertilizer? Try our Fertilizer Calculator: <http://aesl.ces.uga.edu/soil/fertcalc/>

No Limestone or Sulfur recommended.

Recommended pH: 4.2 to 5.2

pH is Perfect!

However soil Calcium is more than double what is recommended making N and Fe unavailable to the plant

I never limed this soil but prior to houses being built this area was in cotton production and then dairy pasture

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Blueberries-Home Garden Fact Sheet for Fuder, Josh

These recommendations are for rabbiteye blueberries. For southern highbush and highbush, see Commercial Southern Highbush Recommendations (Code #133).

If the soil test calcium (Ca) level exceeds **300 pounds per acre** or if the soil test phosphorus level is greater than **200 pounds per acre** the site is not well suited for blueberries. Try to find a better site.

If soil organic matter is less than 2%, use liberal quantities of peat moss or pine bark mixed with the soil when planting. Following planting mulch heavily with pine bark, rotted sawdust, or pine straw if practical.

Plant the blueberry bush the same depth it grew in the nursery and spread the roots apart if pot bound.

After the plant has been settled by rain, apply 2 tablespoons (1 ounce) 10-10-10 or 12-4-8 or 4 level tablespoons (2 ounces) of azalea special fertilizer (4-8-8) evenly over a circle of 18-inch diameter centered on the plant. Refertilize at the same rate in May and July if rainfall or overhead irrigation has been adequate (at least 4 inches since the previous fertilization). **Blueberries are sensitive to excess fertilizer salts. Do not pile fertilizer at base of the plant.** In March and July of the second year apply 2 ounces 10-10-10 or 12-4-8 or 4 ounces 4-8-8 evenly over a circle of 2-foot diameter centered on the plant. In later years each bush should receive 1 ounce 10-10-10 or 12-4-8 or 2 ounces 4-8-8 per foot of bush height to a maximum of 6 ounces per application for 10-10-10 or 12-4-8 and 12 ounces per application for 4-8-8. Increase the area the fertilizer is broadcast over also. If both phosphorus (P) and potassium (K) soil test levels are high or very high, ammonium sulfate (21-0-0) can be used at 1/2 the rate of 10-10-10 or 46-0-0 at 1/4 the rate of 10-10-10. Avoid use of nitrate nitrogen (sodium nitrate, calcium nitrate, etc.) on blueberries.

Soils vary in their natural ability to supply the plant available forms of nitrogen (N). The N fertilizer recommendations given here are based on soils with 1 to 2% organic matter (OM). Soils with higher OM (4 to 6% OM) generally supply more N; therefore, less N fertilizer is needed on high OM soils. Likewise, be aware of conditions that may increase the need for additional N. On new plantings to which pine bark has been added (especially pine bark with white wood), additional N fertilizer may be needed to overcome N tie-up by bacteria. Sufficient nitrogen should be applied to grow good lateral fruit wood 5 to 8 inches in length. However, do not add too much nitrogen because it may lead to growth of highly succulent shoots that are susceptible to Botryosphaeria stem blight. In general, N should not be applied after early September in South Georgia or mid-August in North Georgia. Nitrogen fertilizer is used more efficiently if added through drip irrigation systems; therefore, recommended N rates may be reduced by about 20%. Because of these many complex factors, we recommend plant tissue analysis and grower observations as the most reliable guide for adjusting the rate of N fertilizer to apply. For more information on plant analysis, go to <http://aesl.ces.uga.edu/publications/plant/>.

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Blueberry Types and Varieties

- Rabbiteye
 - Not as sensitive to soil types
 - Better Heat/Drought tolerance
 - Deeper rooted
 - Adapted Statewide
- Northern Highbush
 - More Winter Hardy
 - Early Harvest window
 - Bigger Berries
 - Northernmost Counties Only



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Northern Highbush

Early	Mid	Late
Collins	Berkeley	Coville
Duke	Bluecrop	Elliot
Earliblue	Bluehaven	Jersey
Patriot	Blueray	Liberty
Spartan	Legacy	

Rabbiteye

Early	Mid	Late
Alapaha	Brightwell	Ochlockonee
Vernon	Powderblue	Centurion
Titan	Tifblue	Baldwin
Austin		
Climax		
Premier		
Krewer		

Varieties



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Pollinators



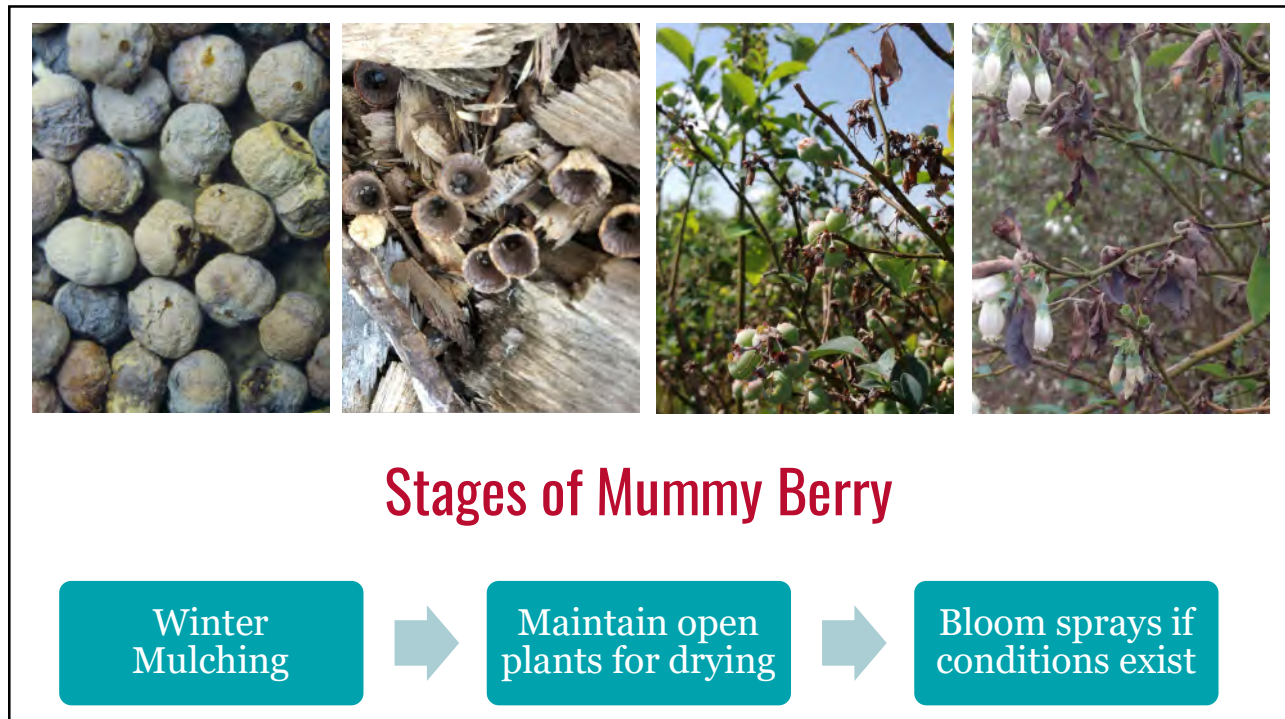
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Diseases – Mummy Berry

- Overwintered spores infect flowers and young shoots in spring
- Mild-Wet conditions at Bloom
 - Serenade
 - Captan



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Diseases – Exobasidium Leafspot

- Overwintered as an epiphyte on the surface of stems
- Fruit conditions cause sunken area without decay or leakage
- Lime-Sulfur spray in Late dormancy



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Exobasidium vs Mummy Berry



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Dieback

- Poor Cultural Conditions
 - pH
 - Wounding
 - Fertility
 - Water



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Rows with Scale



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Same Rows



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Unpruned



Pruned



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Nurseries

- Isons www.isons.com
 - Brooks – outside Griffin
- Bottoms www.bottoms-nursey.com
 - Concord -



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