Report on Soil Test

Auburn University Soil Testing Laboratory

Auburn University, AL 36849-5411

Cameron Johnson

1805 Autumn Ct W

Prattville, AL 36066

County:Autauga

District:3

Test Date:12/11/14

					SOIL TEST RESULTS				RECOMMENDATIONS			
LAB No.	Sample Designation	Crop	Soil Group*	pH**	Phosphorus P***	Potassium K***	Magnesium Mg***	Calcium Ca***	LIME-STONE	N	P_2O_5	K_2O
					Pounds/Acre				Tons/Acre	Pounds/Acre		
03996	Camerons garden See Comment 1 See Comment 2	Organic Garden	3	7.1	EH 320	H 415	H 315	H 5356	0.0	- -	0	0
	Camerons garden See Comments 3,4,5,6	Vegetables	3	7.1	EH 320	H 415	H 315	H 5356	0.0	120	0	60

Comment No.1: Soil analyses indicate very high or excessive P. Additional organic amendments will add more P. Use materials high in N but low in P such as cottonseed meal (6-3-1), fish meal (10-6-1), or blood meal (13-2-1). Legume cover crops can also provide some N to subsequent crops.

Comment No.2: Final comment. Most organic materials contain low levels of available nutrients. However, because large quantities are often used to build soil organic matter and improve soil physical characteristics, soil nutrients (i.e. P) often build to excessive levels. Nutrient availability (especially N) depends upon how fast the organic matter breaks down in the soil. Following are typical analyses (percent N-P2O5-K2O) of some common materials used as soil amendments in organically grown gardens:

fresh broiler litter (3-3-2) composted broiler litter (2-3-1)

blood meal (13-2-1) composted cow manure (1-2-1)

bone meal (1-15-0) cottonseed meal (6-3-1)

fish meal (10-6-1) wheat/oat straw (0-0-1)

legume hay (2-1-2) composted yard waste (1-2-1)

Comment No.3: Per 1,000 sq. ft. broadcast 2.3 pounds muriate of potash (1 quarts 0-0-60). Per 100 square feet (10'x10') apply 0.14 pound actual N (0.42 pound 33-0-0 or about 1 cup) at planting and repeat the application later as a sidedress when the crop is up and growing well. Nitrogen (N) will stimulate green, leafy growth. Excess N could reduce yield of beans, peas, and fruiting crops.

Comment No.4: For strawberries apply about 1/3 of the fertilizer in September, 1/3 about 90 days before ripening and 1/3 after harvest.

Comment No.5: Final remark - For small areas, comments give examples of ways to meet the fertilizer recommendations. Other fertilizer grades or materials that supply equivalent amounts of plant nutrients may be used with equal results. If you need assistance in calculating amounts of other materials to use, contact your county agent or fertilizer supplier. A pint of dry fertilizer is approximately 1 pound.

* 1. Sandy soil (CEC ‹ 4.6 $cmol_c kg^{-1}$)

* 2. Loams and Light clays (CEC = 4.6-9.0 $cmol_c kg^{-1}$)

* 3. Clays and soils high in organic matter (CEC > 9.0 $cmol_c kg^{-1}$)

* 4. Clays of the Blackbelt (CEC > 9.0 $cmol_c kg^{-1}$)

** 7.4 or higher - Alkaline - - - - - - - - - - - - - - 6.6-7.3 - Neutral - - - - - - - - - - - - - 6.5 or lower - Acid - - - - - - - - - - - - -5.5 or lower - Strong Acid

*** Extractable nutrients in pounds per acre

If soil group = 1, 2 or 3, Method of Analysis = Mehlich-1. If soil group = 4, Method of Analysis = Miss/Lancaster.

Approved by: Joseph Huluka

Print Date: December 11, 2014

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Comment No.6: For cauliflower, broccoli and root crops on sandy soils apply 1 pound boron (B) per acre. (For home gardens, one tablespoon borax per 100 ft. of row.) For corn in home gardens on sandy soils apply 1 tablespoon zinc sulfate per 100 ft. of row.

The number of samples processed in this report is: 1

For further information call your county agent: (334) 361-7273

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