

For general agriculture or horticulture questions please first try contacting your local county Extension office:

utextension.tennessee.edu

JANET MURPHY
927 BOND RD.
DUCK RIVER TN 38454

09/23/2022

Customer County: Hickman

Sample County: Hickman

Lab Number: 625798

Sample Name: LOWFIELD

Farm Name:

Soil Results

pH		Phosphorus	Potassium	Calcium	Magnesium	Zinc	Iron	Manganese	Boron	Sodium
Soil pH	Buffer Value	P	K	Ca	Mg	Zn	Fe	Mn	B	Na
		Pounds per acre - Mehlich 1								
5.67	7.47	37 H	228 H	1172 S	161 S	2.5 S	26 S	41 S	0.5	11

Crop/plant Interpretation ranges on last sheet

L = Low, M= Medium, H=High, V= Very High, S = Sufficient

Additional tests, if they were requested

Sulfur	Nitrogen			Carbon	C/N Ratio	Organic Matter	Soluble Salts	Particle Size Analysis - Hydrometer Method			
LBS/ACRE	NH4-N ppm	NO3-N ppm	Total N %	%	%	%	dS/m	% Sand	% Silt	% Clay	Soil Texture

Recommendations

Crop	Fertilizer				Lime	
	Nitrogen (as N)	Phosphate (as P2O5)	Potash (as K2O)	Rate	As 65% RNV	
Annual Flowers and Herbs	See	text	below	per 10 square feet	1	pounds per 10 square feet
Perennial Flowers and Herbs	See	text	below	per 10 square feet	1	pounds per 10 square feet
Spring Bulbs	See	text	below	per 10 square feet	1	pounds per 10 square feet
Summer Bulbs	See	text	below	per 10 square feet	1	pounds per 10 square feet

Please read any text below or on next sheet for additional suggestions and resources

Sample Number: LOWFIELD --- Crop: Annual Flowers and Herbs

Prior to planting, incorporate 1 level tablespoon of 33-0-0, 27-0-0 or similar nitrogen source per 10 square feet. Repeat at 6 week intervals throughout the growing season.

Sample Number: LOWFIELD --- Crop: Perennial Flowers and Herbs

Apply one level tablespoon full of 33-0-0, 27-0-0 or similar nitrogen source in March, June and August to each 10 square feet of bed area.

Sample Number: LOWFIELD --- Crop: Spring Bulbs

Incorporate 1 level tablespoon of 33-0-0, 27-0-0 or similar nitrogen source per 10 square feet of bed area. Topdress with same amount when plants are 1 to 2 inches tall.

Sample Number: LOWFIELD --- Crop: Summer Bulbs

Apply 1 level tablespoon full of 33-0-0, 27-0-0 or similar nitrogen source in March, June, and August to each 10 square feet of bed area.

Programs in agriculture and natural resources, 4-H youth development, family and consumer sciences, and resource development.

University of Tennessee Institute of Agriculture, U.S. Department of Agriculture and county governments cooperating.

UT Extension provides equal opportunities in programs and employment.

Interpretation Page

Soil pH interpretations

Lime Recommended when soil pH is less than:

5.6	Sweet Potatoes, brambles
6.1	Corn, wheat, soybeans, red/white clovers, Lawns, most vegetables
6.6	Alfalfa, Apples, Pears, Peaches

Buffer pH helps tell us how much resistant the soil has to being limed. The buffer starts at pH 7.9, the lower the buffer value is from 7.9 the more lime that is required.

Nutrient Interpretations

	Phosphorus (P)	Potassium (K) Lbs. / acre	Potassium Cotton	Yield response to fertilizer
Low	0 to 17	0 to 90	0 to 140	High probability
Medium	18 to 30	90 to 160	141 to 280	Probable
High	31 to 120	161 to 320	281 to 320	None
Very High	120+	320+	320+	None

Calcium is sufficient when greater than 500 pounds per acre.

Magnesium is sufficient when greater than 40 pounds per acre.

Zinc is recommended for: Corn or Snap Beans when Zn levels are less than 2 lbs per acre

Iron: Availability is controlled by soil pH. If the pH is greater than 7.3 one may begin to see iron deficiency symptoms.

Manganese is recommended for: Soybeans when the soil pH is greater than 7 and Mn levels are less than 16 lbs.per acre.

Boron is recommended for: Cotton when boron levels are less than 0.8 lbs per acre, or the soil pH is greater than 6, or when lime is used.

Tobacco when the B levels are less than 1.2 lbs per acre.

General low dose application recommended annually for Alfalfa, Cauliflower, and broccoli.

Soluble Salts

dS/m	approximate ppm	Rating
0.4	560	Low
0.8	1120	Very Slightly Saline
1.6	2240	Slightly Saline
2.4	3360	Moderately Saline
3.2	4480	Strongly Saline
3.2	4480+	Very Strongly Saline

Resources

Please visit:

soilLab.tennessee.edu