Collecting and Interpreting Lawn and Garden Soil Samples





Why Soil Test?

- Identify limiting factors & deficiencies
- Determine how much nutrient to apply
- Help identify the correct form of nutrient to apply
- Track progress



How Often Should You Sample

- For normal maintenance, every 4 years
- For tracking progress of aggressive soil improvement, every 2 years
- Only reason to sample every year would be to track pH changes when aggressively management of soil pH



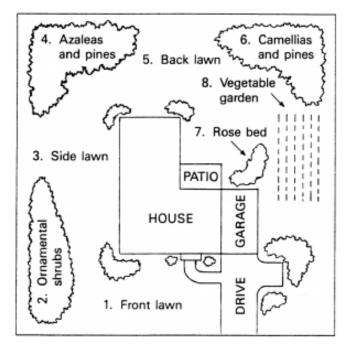
Number of Samples

- How large is the area?
- Are there defined regions/sections?

How small of an area are you willing/able to fertilize

separately?

- Past management
- Different uses



Alabama Cooperate Extension



Different Types of Sampling Devices



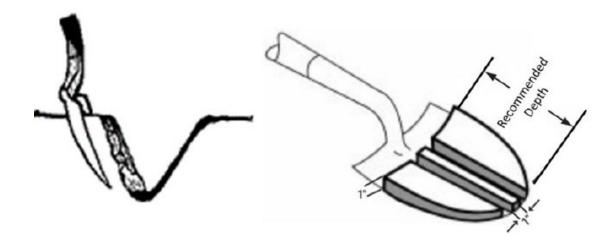
Tube (probe)



Auger



Spade or shovel





Collecting the Cores

- Remove plant residue or plant material from the soil surface. Often best to do this before collecting the core.
- Keep sampling depth consistent.
 - 0-4" turf
 - 0-6" garden





Bucket for Mixing Samples

- Plastic or stainless steel –
 galvanized steel or aluminum can
 contaminate soil samples
- Use a new bucket avoid reusing buckets that have been used for mixing sprays, strong cleaning products, paints etc.

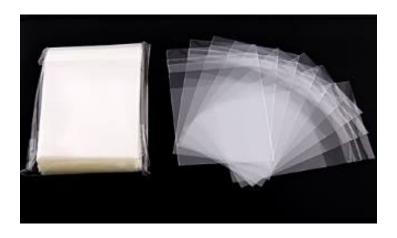






Lab Provided Bags

Sample Bags



Ziploc™ Bags

Labeling your sample bags prior to collection will help you keep to your sampling plan and save you a lot of hassle in the field.





SUBMITTED BY





3505 Conestoga Drive Fort Wayne, IN 46808 260.483.4759 algreatlakes.com

SOIL SAMPLE SUBMITTAL FORM

REFERENCE INFORMATI

Grower / Project
Farm / Location

Field / Site

E-mail Address

AL FORM	Scientists who don't mind getting dirty.™
ON	REPORT OPTIONS
	Standard Report (10 samples per page)
	Graphic Report (1 sample per page)
	Field Summary Report (field average)
	Other report styles available, please inquire
COMPLETE	THIS SECTION FOR RECOMMENDATIONS
- Control of the Cont	26-14 04 26-14 THE 26-14

SAMPLETEST PACK/											7		W. D. W. W. C. T. W. W. C. T. W.				Acres de la constante de la co	
SAMPLE	LAB NUMBER			TES	T PA	CKA	GES			OTHER TESTS	COMPLETE THIS SECTION FOR RE STS ** Previous First Vield Seco							
ID* (max 10 char)	LAB NUMBER (lab use only)	S1	S1A	S1B	S2	S3	S 5	S6	S7	OTHER TESTS	R	Previous Crop	First Crop	Yield Goal	Second Crop	Yield Goal	Third Crop	Yie Go
																		7
						-												
											Н							

*PLEASE LIST EACH SOIL SAMPLE SEPARATELY

**MARK (X) IF CROPS ARE IN A MULTI-YEAR ROTATION

EXPLANATION OF SOIL TEST PACKA	IGES	ADDITIONAL TESTS OR INFORMATION
S1 - Organic matter, P, K, Mg, Ca, soil pH, buffer pH, CEC	S3 - S, Zn, Mn, Fe, Cu, B	
S1A - S1 plus Bray P2	S5 - S, Zn	
S1B - S1 plus sodium bicarbonate P	S6 - S, Zn, Mn, B	
S2 - S1 plus soluble salts and sodium	S7 - Zn, Mn, B	









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	LAWN & GAR	DEN SOIL TEST
	REPORT TO	FOR
Name		Name
Street		Street
City, State, Zip		City, State, Zip
E mail Address		E mail Address
Payment Type	Check Enclosed Check Number Email	Payment Link To

	SAMPLE INFORMATION														
LAB USE ONLY	SAMPLE ID		TES	T PACKAGES*	TO BE GROWN*										
LAB USE CIVET	SAMPLE ID	BASIC	COMPLETE	OTHER	OPTION 1	OPTION 2	OPTION 3								

*TEST PACKAGES AND FEES (per sample)

Payment must accompany samples unless prior arrangements are made. Reports will be mailed within 3-4 working days after samples are received.

\$25.00 Basic Test - (includes up to 3 fertilizer recommendations selected from FERTILIZER RECOMMENDATION OPTIONS)

Analyses include organic matter, phosphorus, potassium, calcium, magnesium, CEC, pH and buffer pH. Graphic report format.

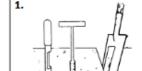
Complete Test - (includes up to 3 fertilizer recommendations selected from FERTILIZER RECOMMENDATION OPTIONS)
Analyses include organic matter, phosphorus, potassium, calcium, magnesium, sodium, CEC, pH, buffer pH, conductivity, boron, copper, iron, manganese, sulfur, and zinc. Graphic report format.

*FERTILIZER RECOMMENDATION OPTIONS

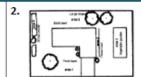
Lawn & Turf	Garden	<u>Landscape</u>	
101 - Lawn Maintenance	109 - Flowers	113 - Acid Loving Shrubs	116 - Ground Covers
(established lawn)	110 - Fruit Trees	114 - Broadleaf Shrubs	117 - Roses
102 - Lawn Seeding and	111 - Small Fruits	115 - Evergreen Shrubs	118 - Shade Trees
Establishment	112 - Vegetable Garden		

Note: These tests and recommendations are not appropriate for greenhouse media and soil mixes.

HOW TO TAKE A SOIL SAMPLE



To take the sample, use a sampling tube, spade, trowel or long knife. Sample 6-8 inches deep for gardens shrubs or trees and 3-4 inches for turf. Discard any surface residue, thatch or stones.



Turf, garden, and landscape beds should be considered separate areas and sampled as such. To get a good sample for each area, collect several cores or slices from various locations within each area and combine these to create your sample.



Combine the cores or slices in a bucket and mix well. Transfer one (1) cup of the mixed sample to a soil sample or plastic bag. Label and number the sample bag, and fill out this form completely.



Enclose the soil sample bag in a shipping box. Place this information sheet along with payment into the box with the samples. Fasten securely and ship via UPS or Parcel Post.



	Soil Test Report													
Reported To	eported To Sample Information Customer Informatio													
	Report Number	F23055-0155												
	Report Date	3/21/2023												
	Lab Number													
	Sample ID													
	To Be Grown	LAWN - MAINTENANCE												

Analysis Result	S				
		S	oil Test Ratir	ng	
Result	Very Low	Low	Medium	High	Very High
1.8					
8					
94					
270					
1850					
12.1					
6.8					
֡	Result 1.8 8 94 270 1850 12.1	1.8 8 94 270 1850 12.1	Result Very Low Low 1.8 8 94 270 1850 12.1	Soil Test Ratin Very Low Low Medium	Soil Test Rating

				Annua	l Nutrier	ıt Requ	irement								
	Pounds per 100 Square Feet Pounds per 1,000 Square Feet														
Lime	Nitrogen (N)	Phosphorus (P2O5)	Potassium (K2O)	Magnesium (Mg)	Sulfur (S)	Lime	Nitrogen (N)	Phosphorus (P2O5)	Potassium (K2O)	Magnesium (Mg)	Sulfur (S)				
0	0.4	0.3	0.3	0.0		0	4	3	3	0					

	Suggested Fertilizer Application													
	NPK		Annual App	lication Rate										
	Fertilizer Grade	Description	lbs per 100 sq. ft.	lbs per 1,000 sq. ft.										
	5,500		nac par acc sq. ra.	nas par ayese sqr ta										
Product 1	28-0-3	Slow Release Fertilizer	1.4 c	r 14.0										
Product 2	6-24-24	Low N Fertilizer	1.2	R 12.0										

Comments

Use both of the fertilizers listed above or other materials of similar NPK analysis. Split the recommended amount of 28-0-3 into at least 3 applications over the growing season, applying 1/3 in late spring, early fall and late fall. Split the recommended amount of 6-24-24 into 2 applications, spring and mid-fall. Water well after each application.

What Do the Numbers Tell Us?



What Do the Numbers Tell Us?

Sample ID: 1 Lab Number: 1224 SOIL TEST REPORT Page: 1 of 1

	Test Results															
Organic Matter	Phosphorus		Potassium	Magnesium	Calcium	Sodium	pl	н	CEC		Cation Saturation					
%	Bray-1 Equiv ppm-P	Bray P2 ppm-P	ppm	Mg ppm	Ca ppm	Na ppm	Soil pH	Buffer pH	meq/100g	% K	% Mg	% Ca	% H	% Na		
4.8	34		73	110	850		5.9	6.9	6.6	2.9	14.0	64.8	18.3			
Sulfur S ppm	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts (1:2) mmho/cm			nmonium NH ₄ -N ppm	Bicarbonate-P P ppm	Chloric Cl ppm			Aluminum Al-M3 ppm		

	Graphic Summary																
Very High																	Very High
High																	High
Medium																	Medium
Low																	Low
Very Low																	Very Low
	П	P1		P2	K		Mg			Ca	S	Zn	Mn	Fe	Cu	В	

Soil Fertility Recommendations - Pounds per 1,000 Square Feet													
Intended Crop	Yield Goal	Previous Crop	Lime	Nitrogen N	Phosphate P ₂ O ₅	Potash K ₂ O	Magnesium Mg	Sulfur S	Zinc Zn	Manganese Mn	Iron Fe	Copper Cu	Boron B
Lawn - Maintenance			25	4	1	3	0						

Report reviewed and approved by our professional agronomy staff.

Sample 1: LAWN - Split the recommended amount into 3-4 applications during a growing season.



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