

ACCOUNT NUMBER: 18625

MSU SOIL TEST INFORMATION SHEET

ACCURACY OF RECOMMENDATIONS DEPENDS ON THE COMPLETENESS OF THIS FORM

SEND SAMPLES TO:
A&L GREAT LAKES LABORATORIES
3505 CONESTOGA DRIVE, FORT WAYNE, IN. 46808

GROWER NAME _____

STREET _____

CITY _____ MI ZIP _____

E-MAIL _____

COUNTY _____

CORN SAMPLES ONLY

PRICE OF N (\$/LB) _____ PRICE OF CORN (\$/LB) _____

BLUEBERRY OR CHRISTMAS TREE AGE _____

USE CROP CODES FROM BACK PAGE

Table with 12 columns: Sample ID, Previous Crop, 1st Year Crop, Yield Goal, 2nd Year Crop, Yield Goal, Previous Legume Stand %, Tillage Depth (inches), Sample Depth (Inches), Acres Represented, Manure Applied (Gal./A), Irrigated Y/N

Standard test includes Organic Matter, Available Phosphorus, Exchangeable Potassium, Magnesium, Calcium, Soil pH, Buffer pH, Cation Exchange Capacity, Percent Base Saturation of Cation Elements

A COMMERCIAL SOIL SAMPLE BAG MUST BE PURCHASED AT ANY MSU EXTENSION OFFICE TO BE ANALYZED WITH THIS FORM

SOIL SAMPLES DO NOT NEED TO BE DRY TO SUBMIT

DIRECTIONS ON FILLING OUT SOIL SAMPLE FORM

SOIL ANALYSIS BAG MUST BE PURCHASED AT AN MSU EXTENSION OFFICE TO USE THE MSU PROGRAM

Soil samples do not need to be dried to submit to A&L Laboratories

Crop and Field Information: Enter information about your soil, management, and crops that will be important for making the correct nutrient and lime recommendations.

Price of N (\$/lb.); Price of Corn (\$/Bu); and Irrigated: For corn only. Information entered in these fields is used to calculate a nitrogen recommendation for corn that provides for the maximum economic return on investment in N fertilizer (MRTN). This N recommendation takes into consideration the yield potential, N:corn price ratio, irrigation availability (yes/no), and previous crop (corn, soybean, or small grain). For more detailed information and calculations on corn MRTN recommendations in the Corn Belt, visit the Corn Nitrogen Rate Calculator.

Blueberry or Christmas Tree Plant Age: For blueberry and Christmas tree only. The age (in years) of the blueberry planting.

Sample ID: Provide a field identifier. No information you enter is collected or stored by MSU.

Previous Crop: The last crop that was grown in the field. Some previous crops may give a nitrogen

Crop Type and Current Crop: Choose the crop type (Field Crop, Vegetable, Fruit, Grass/Ornamental, or Shrubs & Flowers) and select the crop you would like recommendations for. Crops are listed alphabetically within each category. The 3-digit number next to each crop is a unique identifier used for recommendations.

Yield Goal: The yield that the grower seeks to attain on that field. Yield goal is best based on a five-year yield average, not a highest one-year yield. When figuring the yield average over several years, do not include unusually high or low yields.

Previous Legume Stand %: The MSU recommendation tool assumes a fixed nitrogen credit for some crops like soybean (25 lb. N/acre credit) and dry edible beans (20 lb. N/acre credit). For other previous crops, the nitrogen credit is determined by a formula that considers percent stand. Note that these are general estimates and not all potential nitrogen credits from previous cash crops and cover crops are considered. The nitrogen credit is reflected in the nitrogen recommendation given in the report.

Tillage Depth: The depth (inches) to which limestone will be incorporated if lime is needed. If information on tillage depth is not given, 9 inches is used to determine the lime requirement. Moldboard plow- the depth indicated should be the depth of plowing. When the soil will not be moldboard plowed within two years of the lime application and the lime will be incorporated with a disk, chisel plow, or similar equipment, indicate tillage depth as only one-half of the implement's working depth in the field. No-till systems- list two inches as the tillage depth since limestone is not incorporated and will not appreciably alter the soil pH at depths greater than two inches. Where continuous no-till is being used for crop production, a second soil sample should be taken to a two-inch depth for determining pH changes near the surface and the appropriate lime requirement.

Acres: The number of acres represented by the soil sample, which will appear on the recommendation report for your reference only.

Sample Depth in inches: Note the depth at which the sample was taken.

Manure has been or will be applied prior to planting a crop: For field crops and vegetables only. Select "Yes" or "No" to indicate whether manure has been, or will be, applied to the field. When "Yes" is selected a footnote will be included in the fertilizer recommendation report explaining that a credit should be taken for the nitrogen, phosphorus, and potassium added in the applied manure. The credits will depend on the type, form, timing, and rate of the manure being applied. No credits or adjustments are included in the nutrient recommendations provided in the report. If no data is provided about manure application, the program will default to "No."

Crop Codes

Agronomic Crops		Vegetable Crops		Fruit Crops	
Code	Crop Description	Code	Crop Description	Code	Crop Description
100	Alfalfa- Grass Seeding	201	Asparagus Crowns	301	Apple
101	Alfalfa Seeding	202	Asparagus, New Planting	303	Apricot
102	Alfalfa Hay	203	Asparagus, Established	305	Blueberry, New Planting
103	Alfalfa Grass Hay	205	Beans, Snap	306	Blueberry, Established 1-8 Years
104	Barley	206	Beets, Red	307	Blueberry, Established 8+ Years
105	Barley / Legume Seeding	208	Broccoli	308	Cherry
107	Beans, Dry Edible	209	Brussels Sprouts	309	Chestnut
108	Beans, Azuki	211	Cabbage, Fresh Market	311	Cranberry
109	Beans, Edamame	212	Cabbage, Processing	312	Fruit Trees
111	Brassica Forage	213	Cabbage, Chinese	314	Grape
112	Bromegrass Hay	215	Carrots, Fresh Market	316	Grass Cover – Orchard
114	Buckwheat	216	Carrots, Processing	318	Orchard – New
116	Canola	218	Cauliflower	320	Peach
118	Clover Seeding	219	Celeriac	322	Pear
119	Clover Hay	221	Celery, Fresh Market	324	Plums
120	Clover-Grass Hay	222	Celery, Processing	326	Raspberry
122	Corn	224	Cucumber, Pickling- Hand Harvest	327	Saskatoon
123	Corn Silage	225	Cucumber, Pickling- Machine Harvest	328	Strawberry
124	Corn, Seed	226	Cucumber, Slicers		Turf
126	Grass, Cool Season CRP	228	Dill	Code	Description
127	Grass, Warm Season CRP	229	Eggplant	401	Athletic Field, Blue Grass
128	Grass / Legume CRP	231	Endive	402	Athletic Field, Ryegrass
129	Millet	232	Escarole	404	General Grounds
130	Hopps	233	Garden, Home	405	Lawn, Bluegrass
131	Oats	234	Garlic	406	Lawn, Fescue
132	Oats / Legume Seeding	235	Ginseng	407	Lawn, Ryegrass
133	Oats for Cover	237	Greens, Leafy	408	Lawn, Mixed Grasses
135	Orchardgrass	238	Horseradish	410	Golf Fairways
137	Pasture-Extensive Grazing	240	Kohlrabi	411	Golf Greens
138	Pasture- Intensive Grazing	241	Leek	412	Golf Tees
140	Peppermint	243	Lettuce, Boston, Bibb	413	Sand Based Root Zones / Establishment
142	Potato	244	Lettuce, Leaf	414	Sand Based Root Zones / Mature
144	Rye	245	Lettuce, Head	415	Turf, Low Maintenance
145	Rye for Cover	246	Lettuce, Romaine	420	Sod Production
146	Rye Silage	248	Market Garden		Flowers, Shrubs, Trees
148	Sorghum	249	Muskmelon	Code	Description
149	Sorghum- Sudangrass Hay	251	Onion, Dry Bulb	501	Flowers, Cut
150	Sorghum- Sudangrass Haylage	252	Onion, Green	502	Flower Bed, Annuals
152	Soybean	254	Pak Choi	503	Flower Beds, Perennials
154	Spearmint	256	Parsley	504	Flower Bulbs
156	Spelts	257	Parsnip	505	Ground Cover
158	Sugar Beets	259	Peas	506	Roses
160	Sunflower	261	Pepper, Bell	508	Lavender
162	Timothy Hay	262	Pepper, Banana	511	Shrubs, Deciduous - Home
164	Trefoil Seeding	263	Pepper, Hot	512	Shrubs, Narrow Leaf Evergreen – Home
165	Trefoil Hay	265	Pumpkin	513	Shrubs, Broadleaf Evergreen – Home
166	Trefoil Seed Production	266	Radish	516	Trees, Deciduous – Home
168	Wheat	268	Rhubarb	517	Trees, Narrow Leaf Evergreen – Home
169	Wheat / Legume Seeding	269	Rutabagas	518	Trees, Broadleaf Evergreen – Home
172	Wildlife Forage – Legume	270	Spinach	521	Shrubs, Deciduous- Nursery
173	Wildlife Forage- Brassica	271	Squash, Hard	522	Shrubs, Narrow Leaf Evergreen – Nursery
174	Switchgrass	272	Squash, Summer	523	Shrubs, Broadleaf Evergreen – Nursery
175	Teff	274	Sweet Corn	524	Trees, Christmas – Douglas Fir & Spruce
		275	Sweet Potato	525	Trees, Christmas – Fir*
		277	Swiss Chard	526	Trees, Christmas – Pines
		279	Tomato, Fresh Market	527	Trees, Deciduous – Nursery
		280	Tomato, Processing	528	Trees, Narrow Leaf Evergreen – Nursery
		282	Turnip	529	Trees, Broadleaf Evergreens – Nursery
		284	Watermelon		*525- Fir Includes Concolor, Balsam, Canaan,
		286	Zucchini		Corkbark, Fraser, Korean, Nordmann and Others.