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Soil Sample Information for Field Crops

Serial No. **S**

Name _____
 Address _____
 City _____ State _____ ZIP _____
 Phone _____ Fax _____
 Email _____
 County of origin _____ Bill county or Bill firm
 Billing county code _____ Send copy to FSA? _____

Date ____ / ____ / ____
 Account No.: Firm _____ Outlet _____
 (if applicable) (if applicable)
 Firm _____
 Address _____
 City _____ State _____ ZIP _____
 Phone _____ Fax _____
 Email _____

Crop Codes and Common Yield Goals

(Instructions on back of form)

| Crop code | Yield goals |
|--|-------------|
| New plantings | |
| 1 Alfalfa or alfalfa/grass establishment | 0 |
| 2 Birdsfoot trefoil/grass establishment | 0 |
| 3 Clover or clover/grass establishment | 0 |
| 4 Cool-season grass establishment | 0 |
| 5 Lespedeza/grass establishment | 0 |
| 6 Overseeding legumes into grass | 0 |
| 7 Warm-season grass establishment | 0 |
| 8 Wildlife food plot | 0 |
| 9 Bermudagrass establishment | 0 |

| Crop code | Yield goals | Crop code | Yield goals | Crop code | Yield goals |
|--|--------------------|--|--------------------|---|--------------------|
| 10 Alfalfa or alfalfa/grass hay | 3-7 tons/a | 23 Lespedeza/grass pasture | 100-250 cow days/a | 108 Wheat/sorghum (silage) double crop* | 30-100 bu/a |
| 11 Alfalfa or alfalfa/grass pasture | 100-250 cow days/a | 24 Sudangrass hay | 3-5 tons/a | 109 Oats | 50-100 bu/a |
| 12 Birdsfoot trefoil/grass pasture | 100-200 cow days/a | 25 Sudangrass pasture | 100-250 cow days/a | 110 Popcorn | 1,500-1,800 lbs/a |
| 13 Bluegrass pasture | 100-200 cow days/a | 26 Warm-season grass hay | 2-5 tons/a | 111 Rice | 5,000-10,000 lbs/a |
| 14 Bermudagrass hay | 2-6 tons/a | 27 Warm-season grass pasture | 100-250 cow days/a | 112 Rye | 30-80 bu/a |
| 15 Bermudagrass pasture | 100-250 cow days/a | 100 Barley | 40-80 bu/a | 113 Sorghum (grain) | 4,000-12,000 lbs/a |
| 16 Clover or clover/grass hay | 2-5 tons/a | 101 Buckwheat | 500-1,000 lbs/a | 114 Sorghum (silage) | 12-30 tons/a |
| 17 Clover or clover/grass pasture | 100-250 cow days/a | 102 Cotton (lint) | 500-1,000 lbs/a | 115 Soybeans | 30-80 bu/a |
| 18 Cool-season grass hay | 2-6 tons/a | 103 Corn (grain) | 80-300 bu/a | 116 Sugarbeets | 15-24 tons/a |
| 19 Cool-season grass pasture | 100-250 cow days/a | 104 Corn (silage) | 10-25 tons/a | 117 Sunflowers | 1,200-2,500 lbs/a |
| 20 Cool-season grass seed/hay or pasture residue | 0 | 105 Wheat/soybean double crop* | 30-100 bu/a | 118 Tobacco | 2,500-4,000 lbs/a |
| 21 Cool-season grass/stockpile fall growth | 0 | 106 Wheat/sunflower double crop* | 30-100 bu/a | 119 Wheat | 40-120 bu/a |
| 22 Lespedeza/grass hay | 1-4 tons/a | 107 Wheat/sorghum (grain) double crop* | 30-100 bu/a | 099 Idle | 0 |

*Indicates yield goal for wheat ONLY.

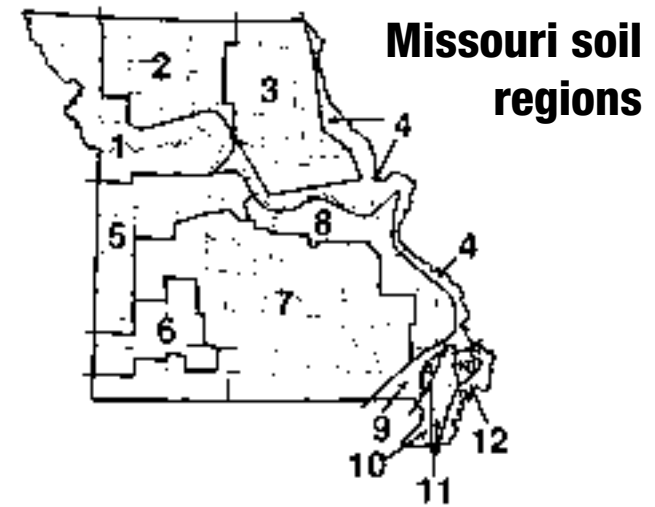
| For variable rate application/precision ag only: (optional) | | | | | | | | | | Cropping options (1-4) | | | | Send report by: <input type="checkbox"/> Hard copy <input type="checkbox"/> Email <input type="checkbox"/> CSV | | | | | | | | | | | | | | | |
|--|--------|--|-------|------------------|------------|------------|-------------|-----------------|-----------|------------------------|-----------|------------|-----------|--|-----------|------------|---------|---------------------------|--------|------------|-------|--------|-----------------|----------------------------|---------------------------------------|-------|---------------|---|--|
| Choose P and K buildup period: <input type="checkbox"/> 1 yr <input type="checkbox"/> 2 yr <input type="checkbox"/> 3 yr <input type="checkbox"/> 4 yr | | | | | | | | | | 1 | | 2 | | 3 | | 4 | | Check (✓) test(s) desired | | | | | | | | | | | |
| Lab No. (lab use only) | Sample | Field/sample ID No more than 12 letters or characters | Acres | Irrigated? (Y/N) | Topography | Last limed | Soil region | Prior crop code | Crop code | Yield goal | Crop code | Yield goal | Crop code | Yield goal | Crop code | Yield goal | Regular | Zinc | Sulfur | Fe, Mn, Cu | Salts | Sodium | pH _w | NO ₃ -N/Nitrate | NO ₃ -N&NH ₄ -N | Boron | Particle size | NO ₃ and NH ₄ only sampling depth | |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Instructions

Up to eight soil samples from one grower may be entered on this form.

1. Fill in **Grower** information.
2. Fill in **Firm information** (if a firm is associated with the sample). **Firm and outlet numbers:** Use preassigned codes for soil samples being submitted directly to the soil testing lab by a dealer. Billing and payment will be made to the lab, not through a county extension office.
3. **County of origin** refers to the county where the sample was collected.
4. **Billing:** Check whether sample is to be billed to county or firm (samples submitted to county office should be billed to county).
5. **Billing county code:** A code is assigned to each county extension office.
6. Enter yes or no for **Copy to FSA** (Farm Service Agency).
7. On the bottom of the form in the **Field/Sample ID** area, enter any information that will help you identify this sample in your records.
8. Enter number of **acres** in the field where sample was taken.
9. Indicate whether the field was **irrigated**, Y or N.
10. **Topography:** Enter 1, 2 or 3.
Level upland = 1
Hilly upland = 2
Bottomland = 3
11. **Last limed:** Enter 1, 2, 3, 4 or 5.
Less than 1 year ago = 1
1 to 5 years ago = 2
More than 5 years ago = 3
Never = 4
Unknown = 5
12. Enter number of **Soil Region** where the soil sample was taken (refer to Missouri map at right).
13. Enter the **Prior Crop Code** (take crop code from the list on the front of the form).
14. Enter the **Crop Code** for any crop you intend to harvest (see front of form for crop codes).
15. Enter the **Yield Goal** for the crop (see front of form for yield goal ranges).

16. Enter codes and yield goals for other crops you may plant now or in the future, regardless of sequence; e.g., crop codes entered as 103, 115, 105 are equivalent to 115, 103, 105.
17. Place a check beneath each soil test you are requesting. If you are unsure, begin with the regular test or consult your regional agronomy specialist. The regular test includes pHs, neutralizable acidity, phosphorus, potassium, calcium, magnesium, organic matter and cation exchange capacity (see soil tests below).



Example (table)

This is what the field/sample ID would look like from a 10-acre field in northern Boone County on hilly land, limed five years ago, where soybeans were last planted and corn is to be planted with a goal of 150 bu/A.

| Sample | Field / Sample ID No more than 12 letters or numbers | Acres | Irrigated (Y/N)? | Topography | Last Limed | Soil Region | Prior Crop Code | Crop Code | Yield Goal |
|--------|---|-------|------------------|------------|------------|-------------|-----------------|-----------|------------|
| 1 | 10-A NB | 10 | N | 2 | 2 | 3 | 115 | 103 | 150 |

Soil tests

Regular — Select for N, P, K and lime recommendations

Zinc (Zn) Sulfur (S) Boron (B)

Iron (Fe), Manganese (Mn), Copper (Cu) — Usually diagnostic test with Zn and S

Sodium (Na) — Run with salts for problem soils generally due to irrigation water

Salts (conductivity) — Total soil salts for problem soils

pHw — Testing pH in weak salt (pHs) is part of the regular soil test. Testing pH in water slurry (pHw) may be requested.

Nitrates (NO₃-N), ammonium (NH₄-N) — For fine tuning nitrogen needs. Top and subsoil samples required. Also, consult with agronomist on timing of sampling and interpretation of results.

Particle size — Particle size analysis measures the percentage of sand, silt and clay in soil. This test is used to determine the texture of the soil.

P and K buildup period for variable rate application

Standard University of Missouri recommendations use an 8-year buildup period for P and K fertilizer. Because of the additional application costs with variable rate application, you may want to choose a shorter buildup period. *In most cases, this option is unnecessary unless specifically recommended by an agronomist or an extension specialist.*

Delivery options for report

The section labeled "Send report by" lists three delivery options. You may select up to two delivery options. If you make no selection, the default delivery option will be to send a hard copy to the address provided.