

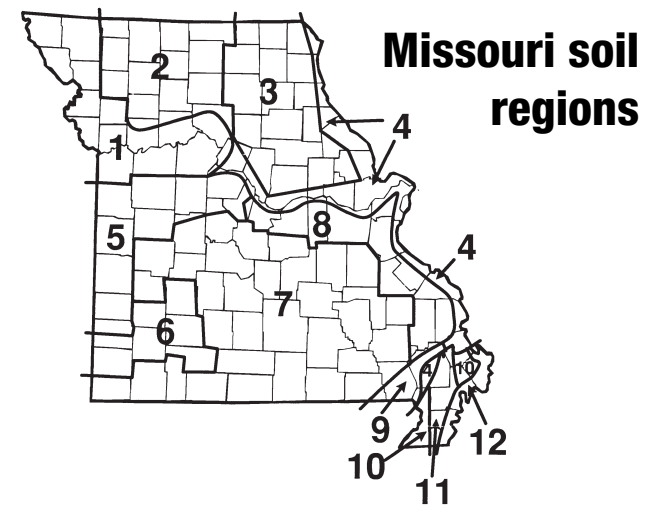


# Instructions

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 (NO<sub>3</sub>-N), ammonium (NH<sub>4</sub>-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.