

## Indiana Soil Texture Sample Order Form

### Mail or fax to:

Agronomy Club  
Purdue University, Lilly Hall of Life Sciences  
915 W. State St.  
West Lafayette, IN 47904-2054

### Purchaser information

Name

Address

Phone

E-mail

State tax-free number (if none, include Indiana sales tax):

\_\_\_\_\_ (Include copy of certificate)

Paid by:  check or  money order.

Payable to Purdue Agronomy Club.

Ship to (complete if different from above)

Samples ordered Price includes shipping within Indiana and bordering states. For other states, contact the Agronomy Club. Check one box:

5 samples, \$32.00;  10 for \$59.00;  15 for \$85.00;  20 for \$110.00

List sample numbers:

\_\_\_\_ \_  
\_\_\_\_ \_

Cost of samples and shipping: \_\_\_\_\_

6% Indiana sales tax: \_\_\_\_\_

Total: \_\_\_\_\_

## Indiana Soil Texture Samples Indiana Association of Professional Soil Classifiers Purdue University Agronomy Club

The Indiana Soil Texture Samples collection is a set of samples available to soil scientists, teachers, students, researchers, and others. These samples are mainly used to calibrate the process of estimating soil texture in the field. They can also be used to demonstrate soil properties to students, to evaluate field skills, and as laboratory standards. The samples were collected in the state by soil scientists of the Indiana Association of Professional Soil Classifiers. They were dried, crushed, and sieved by members of the Purdue Agronomy Club. Sub-samples were analyzed by the National Soil Survey Laboratory of the Natural Resources Conservation Service in Lincoln, NE. This lab determined particle-size distribution (the percent of eight size separates) on all samples. On most samples, the lab also determined carbon (organic matter), nitrogen, sulfur, carbonate, and 15-bar water (wilting point) contents. Soil properties such as contents of organic matter and carbonate minerals may influence how a sample feels when estimating texture. Currently there are 42 samples in the set. Data not included here and other information about the samples are available on the website, [www.agry.purdue.edu/agryclub/soilsamples/](http://www.agry.purdue.edu/agryclub/soilsamples/)

### Soil properties

The texture of each sample is shown on the USDA texture triangle and complete particle size data are shown in the table inside the brochure.

### How to obtain samples

Samples are sold in units of five samples by the Agronomy Club for \$5.00 for a one pound sample, plus shipping costs. Prices are on the *order form*.

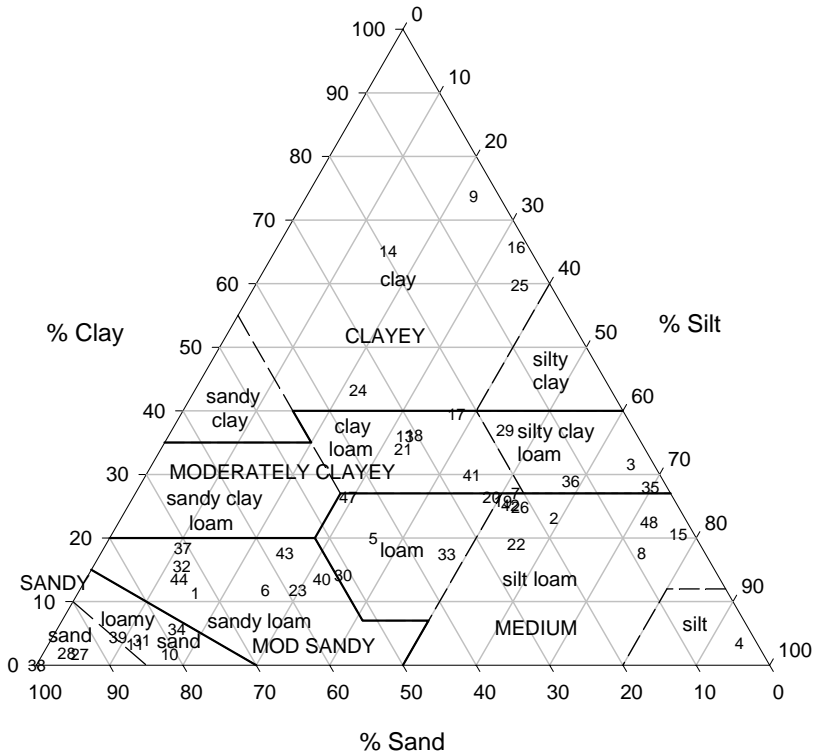
### Questions?

Contact Dr. Gary Steinhardt ([gsteinhardt@purdue.edu](mailto:gsteinhardt@purdue.edu), 765-494-8063) or Sherry Fulk-Bringman ([sherryfb@purdue.edu](mailto:sherryfb@purdue.edu), 765-494-8786), Agronomy Department, Purdue University.

8/2007

# Indiana Soil Texture Samples

USDA classes (lower case) and high school judging classes (upper case)



Sample numbers near the CL, SiCl, L, SiL boundary are 7, 19, 20, 26, and 42.

Table of particle size data (facing page). Units are percent of the < 2mm fraction.

Explanation of columns. C, Clay, <0.002 mm; Si, Silt, 0.002 - 0.05 mm; S, Sand, 0.05 - 2.0 mm; FiSi, Fine Silt, 0.002 - 0.02 mm; VFS, Very Fine Sand, 0.05 - 0.1 mm; FS - Fine Sand, 0.1 - 0.25 mm, MS, Medium Sand, 0.25 - 0.5 mm; CoS, Coarse Sand, 0.5 - 1 mm; VCoS, Very Coarse Sand, 1 - 2 mm.

No	Lab texture	C	Si	S	FiSi	VFS	FS	MS	CoS	VCoS
1	Fine sandy loam	11.2	16.4	72.4	5.1	15.5	33.6	18.5	3.6	1.2
2	Silt loam	23.0	59.4	17.6	46.5	3.1	7.2	5.8	1.3	0.2
3	Silty clay loam	31.6	65.6	2.8	40.6	0.6	1.0	0.9	0.3	tr
4	Silt	3.4	94.5	2.1	26.5	1.6	0.2	0.1	0.2	tr
5	Loam	19.9	36.3	43.8	20.7	7.0	17.0	15.4	3.6	0.8
6	Crse. sandy loam	11.7	25.7	62.6	11.4	4.6	7.9	14.2	17.2	18.7
7	Silt loam	26.9	52.2	20.9	22.8	5.3	9.8	5.1	0.6	0.1
8	Silt loam	17.5	74.1	8.4	42.3	2.5	3.1	2.2	0.5	0.1
9	Clay	73.7	23.1	3.2	18.8	0.6	1.6	0.9	0.1	--
10	Loamy fine sand	1.6	17.7	80.7	3.3	20.1	53.5	6.9	0.1	0.1
11	Loamy sand	3.2	12.2	84.6	8.8	5.0	45.5	32.0	1.8	0.3
13	Clay loam	35.9	32.6	31.5	22.6	5.4	13.5	9.9	2.3	0.4
14	Clay	65.0	15.8	19.2	10.4	8.3	9.1	1.2	0.4	0.2
15	Silt loam	20.5	77.6	1.9	38.9	0.6	0.4	0.4	0.3	0.2
16	Clay	65.7	32.9	1.4	20.8	0.7	0.4	0.2	0.1	tr
17	Clay loam	39.4	37.9	22.7	27.4	4.8	9.1	6.2	1.8	0.8
18	Clay loam	36.1	33.8	30.1	21.8	7.5	11.8	6.9	2.9	1.0
19	Silt loam	25.7	51.1	23.2	34.2	5.3	7.4	5.3	3.0	2.2
20	Loam	26.4	49.2	24.4	33.2	5.9	8.3	5.6	2.9	1.7
21	Clay loam	33.9	33.4	32.7	22.9	5.2	12.8	10.7	3.3	0.7
22	Silt loam	18.9	56.3	24.8	37.6	4.1	9.4	8.7	2.0	0.6
23	Sandy loam	11.7	30.1	58.2	19.6	5.4	24.6	25.0	2.8	0.4
24	Clay	43.2	22.6	34.2	14.9	8.0	11.3	10.3	3.6	1.0
25	Clay	59.7	36.4	3.9	32.5	0.8	1.6	1.2	0.3	tr
26	Silt loam	24.8	53.9	21.3	27.6	9.5	11.4	0.4	tr	--
27	Fine sand	1.7	5.4	92.9	3.5	4.8	58.4	29.5	0.2	--
28	Sand	1.9	3.5	94.6	2.4	4.3	34.0	52.6	3.7	tr
29	Silty clay loam	36.9	45.8	17.3	34.3	3.8	6.4	3.7	2.3	1.1
30	Loam	14.1	35.1	50.8	23.8	4.1	18.6	24.7	3.1	0.3
31	Loamy sand	3.8	12.8	83.4	8.0	4.9	39.0	37.3	2.0	0.2
32	Sandy loam	15.5	12.4	72.1	7.1	2.6	17.4	36.2	10.9	5.0
33	Loam	17.4	47.6	35.0	28.5	7.1	13.6	8.1	4.5	1.7
34	Loamy sand	5.6	16.7	77.7	9.4	6.7	29.5	35.9	4.9	0.7
35	Silty clay loam	27.9	70.1	2.0	36.0	1.2	0.6	0.2	tr	--
36	Silty clay loam	28.8	58.8	12.4	38.7	3.6	5.1	1.7	1.4	0.6
37	Sandy loam	18.4	11.1	70.5	7.6	2.6	32.3	33.1	2.3	0.2
38	Sand	--	0.4	99.6	--	0.3	30.8	67.6	0.9	--
39	Loamy sand	4.3	9.3	86.4	3.8	2.5	5.7	60.3	17.8	0.1
40	Sandy loam	13.5	32.5	54.0	18.5	10.5	29.5	11.7	2.0	0.3
41	Clay loam	29.8	44.8	25.4	29.1	4.4	9.8	6.8	3.2	1.2
42	Silt loam	25.1	52.4	22.5	34.3	5.0	7.5	5.7	3.0	1.3
43	Sandy loam	17.6	25.4	57.0	15.2	3.5	17.2	26.8	7.6	1.9
44	Sandy loam	13.4	13.1	73.5	7.4	2.1	12.9	34.5	20.5	3.5
47	Loam	26.3	29.7	44.0	19.5	5.4	18.2	14.8	3.9	1.7
48	Silt loam	22.4	72.7	4.9	41.1	0.8	1.5	1.6	0.9	0.1

