Inorganic Chemical Composition of Illinois Soils

Richard A. Cahill

Illinois State Geological Survey, Prairie Research Institute, University of Illinois at Urbana-Champaign

Circular 590 2017

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Front cover: *Circa 1940s aerial photograph of the Cruse Farm, now part of the University of Illinois South Farms. The view is looking north, and U.S. Route 45 is on the left. The Abbott Power Plant can be seen in the distance. This area is part of the 1,000 acres of research fields where research in soil fertility and crop production has taken place since 1904. In 2015, part of this area became the University of Illinois Solar Farm, the largest solar array installed on a Big Ten University campus.*

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ILLINOIS STATE GEOLOGICAL SURVEY
Prairie Research Institute
University of Illinois at Urbana-Champaign
615 E. Peabody Drive
Champaign, Illinois 61820-6918
http://www.isgs.illinois.edu

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Illinois State Geological Survey
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ACKNOWLEDGMENTS

Joyce Frost, who coauthored the first report on Illinois soils cited here, urged me to prepare a document that reported the analytical chemistry results in tabular form. Her study began in 1991 and was suspended in 1994. It was supported by the Illinois Department of Transportation through the Environmental Site Assessments Section of the Illinois State Geological Survey (ISGS), then headed by Nicholas Schneider. Leon Follmer was coauthor of the second report on Illinois soils used here. He encouraged me to combine the series of seven progress reports describing the geology and chemical composition of soils into a single document that would contain the analytical chemistry results. That project was supported entirely with ISGS funds.

This report benefited from thoughtful review comments provided by William Roy, Ivan Krapac, and David Grimley of the ISGS and Roger Windhorn of the U.S. Department of Agriculture, Natural Resources Conservation Service. The following staff from the ISGS provided encouragement to pursue this effort: Randy Locke, Christopher Stohr, Andrew Phillips, and James Miner. Curtis Abert, Morgan Bailey, Ronald Klass, Michael Knapp, Susan Krusemark, and Alison Lecouris provided technical assistance in the completion of this manuscript.

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CONTENTS

ABBREVIATIONS

Chemical Elements

Ag	silver
Al	aluminum
As	arsenic
B	boron
Ba	barium
Be	beryllium
Bi	bismuth
Br	bromine
C	carbon
Ca	calcium
Cd	cadmium
Ce	cerium
Co	cobalt
Cr	chromium
Cs	cesium
Cu	copper
Dy	dysprosium
Eu	europium
Fe	iron
Ga	gallium
Hf	hafnium
Hg	mercury
In	indium
La	lanthanum
Li	lithium
Lu	lutetium
K	potassium
Mg	magnesium
Mn	manganese
Mo	molybdenum
Na	sodium
Nb	niobium
Ni	nickel
P	phosphorus
Pb	lead
Rb	rubidium
S	sulfur
Sb	antimony
Sc	scandium
Se	selenium
Si	silicon
Sm	samarium
Sn	tin
Sr	strontium
Ta	tantalum
Tb	terbium
Te	tellurium
Th	thorium

Chemical Elements *Continued*

Ti	titanium
Tl	thallium
U	uranium
V	vanadium
W	tungsten
Y	yttrium
Yb	ytterbium
Zn	zinc
Zr	zirconium

Chemical Compounds

Al_2O_3	aluminum oxide
CaO	calcium oxide
CO_2	carbon dioxide
Fe_2O_3	iron oxide
K_2O	potassium oxide
MgO	magnesium oxide
MnO	manganese oxide
Na_2O	sodium oxide
P_2O_5	phosphorus pentoxide
SO_3	sulfur trioxide
SiO_2	silicon dioxide
TiO_2	titanium dioxide

Units of Measure

cm	centimeter
in.	inch
km	kilometer
m	meter
mg/kg	milligrams per kilogram
µg/kg	micrograms per kilogram

Other

AA	atomic absorption
API	American Petroleum Institute
CVAA	cold-vapor atomic absorption
DL	detection limit
GPS	global positioning system
ID	identification
IEPA	Illinois Environmental Protection Agency
INAA	instrumental neutron activation analysis
ISGS	Illinois State Geological Survey
n	number of determinations
NIST SRM	National Institute of Standards & Technology Standard Reference Material
OES	optical emission spectrography
QA/QC	quality assurance/quality control
USGS	U.S. Geological Survey
XRF	X-ray fluorescence

ABSTRACT

The Illinois State Geological Survey completed two surveys of Illinois soils between 1998 and 2005. In neither of these studies were tabular results published that showed the concentrations of a comprehensive suite of elements in Illinois soils. In 2013, the U.S. Geological Survey reported geochemical data for soils throughout the United States, and the results of that study as well as samples from the major soil horizons in Illinois are included in this report. The present report includes the upper 0- to 5-cm interval as well as samples from the major soil horizons. A number of different analytical techniques were used in these studies and quality assurance/quality control results are included.

In the three studies, 318 cores were collected and 1,272 samples of Illinois soils were analyzed. Summary tables and tabular data are provided. This report is intended as a reference source for values that can be used to evaluate soil quality data collected for environmental and agricultural investigations. No attempt was made to discuss geochemical associations of the elements or to plot the results to establish regional trends. The purpose is to provide data in tabular form to use in other investigations involving soil constituents and their concentrations.

INTRODUCTION

Soil is a natural body composed of solids (minerals and organic matter), liquids, and gases that occurs on the land surface and beneath shallow water. Soil is characterized by horizons, or layers, that are distinguishable from the parent material and that have the ability to support rooted plants. The upper limit of soil is the boundary between the soil and air. The lower boundary that separates soil from the nonsoil underneath is more difficult to define. Commonly, soil is transitional at its lower boundary, with intact hard rock, weathered regolith, or glacial till materials that are devoid of animals, roots, or other marks of biological activity. For purposes of classification, the lower boundary of soil is often set at 200 cm (Soil Survey Staff 1999).

In addition to supporting human life by providing fiber, food, and wood, soils play a key role in the global carbon cycle by sequestering CO_2 from the atmosphere. Soils are a very slowly renewable resource, and degradation can occur because of improper land-use practices, climate change, and pollution. Soils are also a key component in the hydrologic cycle; they reduce flooding by slowing runoff and store water during dry periods (Food and Agriculture Organization of the United Nations 2015).

Soil resources, soil conditions, and the importance of Illinois soils for planning and resource utilization have been discussed (Fehrenbacher et al. 1984; Barnhardt 2010). Having knowledge of the chemical composition of soils is important for many reasons, especially soil fertility. Soils contain minerals and naturally occurring elements that provide nutrients essential for plant growth. Among the essential elements are B, Ca, Co, Cr , Cu, Fe, K, Mg, Mn, P, S, Se, V, and Zn. Near urban industrial areas, around mining operations, and along highways, soils often absorb by-products with heavy metals, including As, Ba, Cd, Cr, Cu, Hg, Ni, Pb, and Zn. Researchers need to know the variation in chemical elements contained in soils to predict which areas might require amendments. In areas with contaminated soils, we need to know the variability in concentrations of naturally occurring elements in that area to develop reasonable cleanup objectives. For detailed discussions of soil chemistry and processes and the behavior of metals in soils, see Bohn et al. (1979) or Alloway (1990).

This report serves as a compendium of chemical composition values of Illinois soils. It is based on studies conducted from 1998 to 2005 by the Illinois State Geological Survey (ISGS). An earlier report by Zhang and Frost (2002) provided compositional data on 94 soil samples, but their results were not presented in tabular form usable to researchers. The results of a study by Dreher and Follmer were published in a series of seven open-file progress reports (Dreher et al. 2002, 2003a, 2003b; Dreher and Follmer 2004a, 2004b, 2004c, 2005), referred to hereafter as the Dreher and Follmer Series. Detailed discussion of the literature concerning soil formation and the chemical characteristics of soils is given in the Dreher and Follmer Series, and the Hg contents of 101 of the 137 soil cores collected in that study are discussed in Dreher and Follmer (2004d). However, their results were not combined into a single final report that included both analytical results and statistical summaries. In 2013, the U.S. Geological Survey (USGS) reported geochemical data on soils of the United States (Smith et al. 2013), and the present compendium includes those results for 88 soil cores collected in Illinois. The 53 elements reported herein are listed in Figure 1. The goal of the present publication is to provide a compilation of the chemical composition of more than 1,200 soil samples collected from across Illinois.[1]

METHODS AND RESULTS

Illinois Department of Transportation-Sponsored Background Illinois Soils (Zhang and Frost 2002)

In conjunction with the Illinois Department of Transportation property assessments project, the ISGS collected baseline information on naturally occurring concentrations of elements in soils starting in 1992. The project was designed to collect data that would distinguish between the concentrations of metals representing natural conditions and those resulting from human activities. The locations of the 94 soil samples collected in Illinois are shown in Figure 2. The samples were collected by using soil probes, and composite samples of the A and B soil horizons were made in the field. Subsamples were retained from depths of 4–8 in. (0.1–0.2 m) and 28–32 in. (0.7–0.8 m) below the surface. The composite soil samples were air-dried, disaggregated, riffle-split, and then crushed to pass a 2-mm sieve. A split of the sample was ground using an SPEX 8505 alumina ceramic grinding container (SPEX SamplePrep, Metuchen, NJ) in an SPEX 8500 Shatterbox to pass a 149-µm sieve.

[1]Tabular data in electronic format are available for Appendixes 1–6 from the Illinois Geospatial Data Clearinghouse (https://clearinghouse.isgs.illinois.edu/data/geology/circular-590-inorganic-chemical-composition-of-illinois-soils).

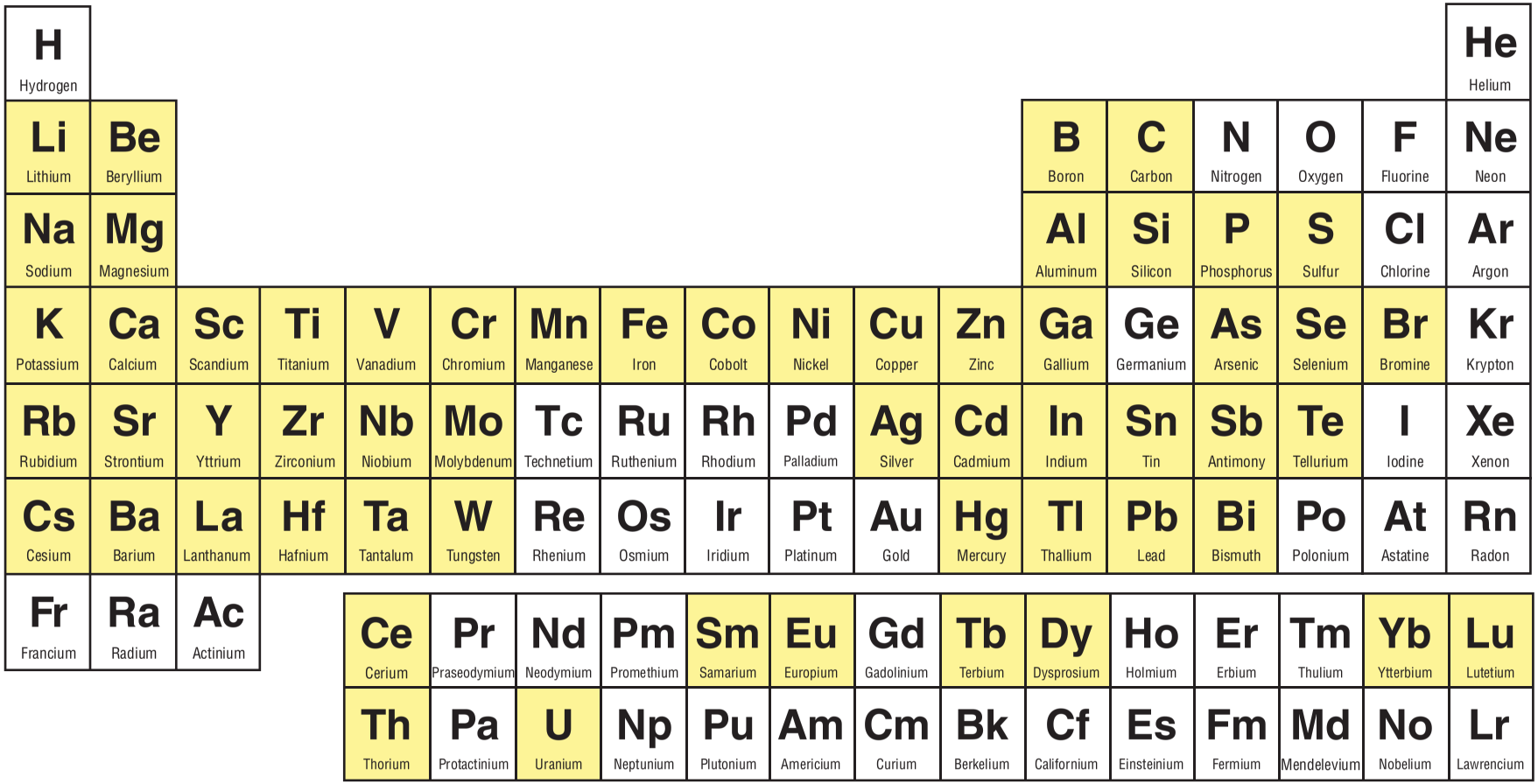

Figure 1 Elements reported in this study (shaded in yellow).

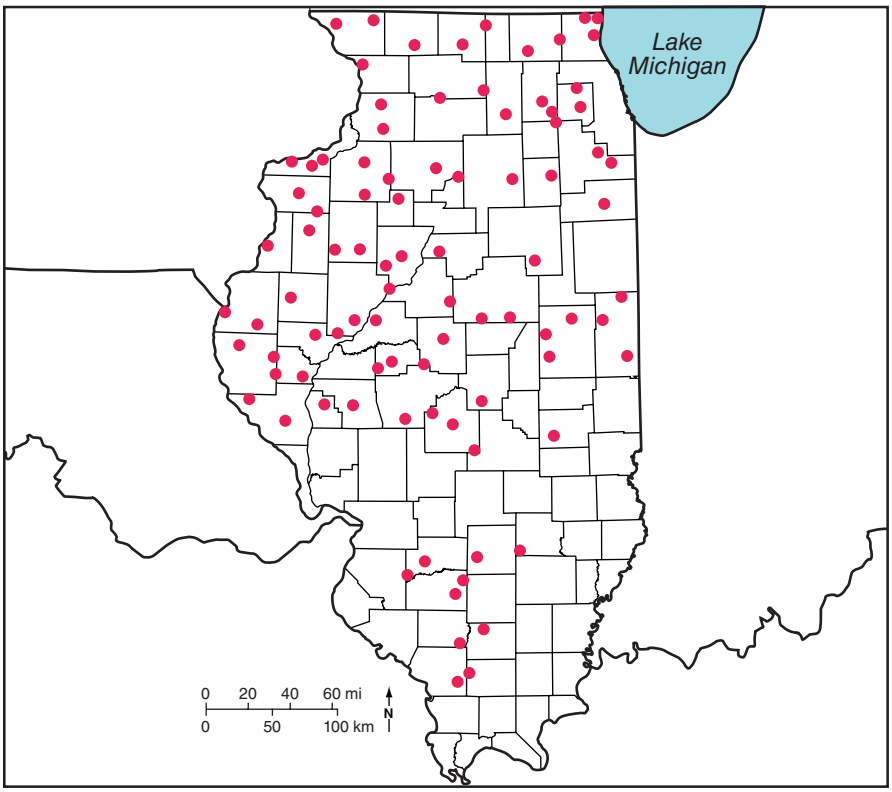

Figure 2 Site locations of soil samples collected in 1992 (Zhang and Frost 2002).

The following major, minor, and trace element concentrations of the soil samples were determined by using various analytical techniques: Al, Ba, Ca, Fe, K, Mg, Mn, Na, P, Si, Sr, and Ti were determined by X-ray fluorescence (XRF) spectrometry; As, Br, Ce, Co, Cr, Cs, Dy, Eu, Ga, Hf, La, Lu, Rb, Sb, Sc, Se, Sm, Ta, Tb, Th, U, and Yb were determined by instrumental neutron activation analysis (INAA); Cd, Cu, Li, Ni, Pb, and Zn were determined by atomic absorption (AA); Ag, B, Be, Tl, and V were determined by optical emission spectrography (OES); and total, inorganic, and organic carbon were determined by coulometric titration. Loss on ignition was determined gravimetrically. The analytical techniques are described in detail in Zhang and Frost (2002).

The soil chemical analysis results, core identification (ID) numbers, locations, field ID numbers, and depths of the subsamples collected are presented in Appendix 1. Also presented in Appendix 1 are six quality assurance/quality control (QA/QC) replicate samples that were included in the study to evaluate the precision of the results.

Table 1 provides a summary of the number of samples (n) above the detection limits (DL), means, and ranges of concentrations of the A and B soil horizons adapted from Zhang and Frost (2002). Various samples were omitted from the statistical analysis for the following reasons: samples R18446 to R18449 were collected at the same location as R18450 and R18451; samples R18458 and R18450 were not considered background samples because the core was collected in the town of Lincoln, Illinois; samples R18455 and R18456 were mixtures of A and B horizons; and sample R19376 contained materials from an old mine site.

Regional distribution patterns of soil elemental concentrations as well as concentration variations between the A and B horizons are discussed in Zhang and Frost (2002). A number of trace elements of environmental concern had concentrations that were lower than the DL of the methods. These included all samples for Ag (1 mg/kg) and Cd (4 mg/kg). Selenium (1 mg/kg) was detected in 15 samples. The greatest concentration of Se in the A horizon samples was 2.6 mg/kg, and the greatest in the B horizon samples was 2.2 mg/kg.

Statewide Soil Collection (Dreher and Follmer Series)

Soil cores were collected from 1998 to 2003 on a systematic 20-mi (32-km) rectangular grid by using a Gidding hydraulically operated coring device. The cores were briefly described in the field, divided into roughly 2-ft (0.6-m) segments, wrapped in plastic and aluminum foil, and returned to the laboratory for further processing. American Petroleum Institute (API) numbers, core ID numbers, county, soil type, location information in latitude and longitude, elevation, depth of cores, dates of collection, and number of subsamples analyzed are listed in Appendix 2. Location and elevation information were determined by GPS. The locations of the 137 soil cores collected in Illinois are shown in Figure 3.

The soils were unwrapped in the laboratory and described in detail. The core ID number, county, soil texture, soil type, soil association, and land use are listed in Appendix 3. The complete field descriptions of the cores are available from the ISGS Geological Records Unit.

Approximately six subsamples were removed from each core to represent the major horizons encountered in each core. In total, 820 samples were chemically characterized. The samples were disaggregated and then split for further analysis. Soil texture and soil pH were determined on one split. The sample ID number; county; depth interval; horizon; sand, silt, and clay concentrations; and soil texture are listed in Appendix 4.

A second subsample was ground in an SPEX Shatterbox to pass through a 208-µm sieve for chemical analysis. The following elemental concentrations were determined: Al, Ba, Ca, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, P, Pb, Rb, Si, Sr, Ti, V, Zn, and Zr were determined by XRF; Hg was determined by cold-vapor AA (CVAA); and total, inorganic, and organic carbon

Table 1 Mean, range, and number of samples above the detection limits (DL) in A and B horizons of Illinois soils[1]

	A horizon (0.1–0.2 m)				B horizon (0.7–0.8 m)			
Element	n > DL	Mean	Minimum	Maximum	n > DL	Mean	Minimum	Maximum
SiO_2 (%)	90	75.16	56.81	90.34	89	70.85	41.97	91.63
Al_2O_3 (%)	90	9.56	3.84	17.03	89	11.47	3.83	15.28
Fe_2O_3 (%)	90	3.38	1.06	7.87	89	4.62	1.01	6.26
MgO (%)	90	0.85	0.20	3.13	89	1.58	0.19	7.75
CaO (%)	90	0.93	0.11	4.59	89	1.74	0.17	15.40
Na_2O (%)	90	0.98	0.58	1.63	89	0.93	0.42	1.66
K_2O (%)	90	2.12	1.24	3.98	89	2.20	0.93	4.18
TiO_2 (%)	90	0.70	0.18	0.87	89	0.67	0.17	0.84
P_2O_5 (%)	90	0.13	0.05	0.28	89	0.10	0.04	0.27
MnO (%)	90	0.12	0.02	0.30	89	0.09	0.02	0.34
LOI (%)	90	5.57	1.18	15.53	89	5.23	0.59	1.86
Total C (%)	90	1.97	0.50	7.52	89	1.04	0.20	5.42
Inorganic C (%)	90	0.15	0.02	1.49	89	0.47	0.01	4.43
Organic C (%)	90	1.82	0.48	6.92	89	0.58	0.02	4.36
As	90	8.7	1.6	17.0	89	11.1	1.9	21.0
B	90	44.7	17.0	70.0	88	46	<10	79
Ba	90	565	245	805	89	535	210	935
Be	75	1.4	<1.0	2.8	78	1.5	<1.0	2.8
Br	90	6.7	2.2	15.0	88	5.1	1.0	15.0
Ce	90	66	16	87	89	70	17	104
Co	90	10.7	2.8	21.0	89	11.5	2.6	20.0
Cr	90	56	19	91	89	63	13	80
Cs	90	3.1	0.7	7.6	89	4.1	0.8	7.8
Cu	90	28	8	69	89	33	12	73
Dy	90	4.5	1.1	7.0	89	4.8	1.3	7.8
Eu	90	1.1	0.3	1.7	89	1.2	0.3	1.9
Ga	90	11.1	5.5	21.0	89	13.5	4.3	19.0
Hf	90	10.2	2.6	14.0	89	8.8	3.0	13.0
La	90	32.5	8.9	46	89	34	9.5	48
Li	90	18.5	3.0	74	89	23.3	3.0	53.4
Lu	90	0.45	0.15	0.56	89	0.47	0.16	0.65
Ni	22	22	<20	53	45	24	<10	63
Pb	87	27	<10	250	84	23	<10	106
Rb	90	80	34	140	89	81	36	150
Sb	90	0.9	0.2	2.0	89	1.0	0.2	2.0
Sc	90	8.0	1.9	19.0	89	10.2	1.9	15.0
Sm	90	5.1	1.3	8.2	89	5.8	1.4	8.8
Sr	90	103	55	165	89	109	60	390
Ta	90	0.91	0.19	1.10	89	0.88	0.21	1.10
Tb	90	0.74	0.20	1.10	89	0.80	0.20	1.30
Th	90	8.9	2.0	12.0	89	9.6	2.2	12.0
Tl	74	1.4	<1	3.0	70	1.3	<1	3.0
U	89	3.4	<1.5	6.1	88	3.4	<1.5	6.7
V	90	84.6	22	260	89	106	20	183
Yb	90	2.7	0.8	3.5	89	2.8	0.7	4.0
Zn	90	72.6	19	258	89	71.5	17.0	144

[1]Adapted from Zhang and Frost (2002). All values are in milligrams per kilogram (mg/kg) unless otherwise noted. Detection limits not provided in Zhang and Frost (2002). n, number of samples; LOI, loss on ignition.

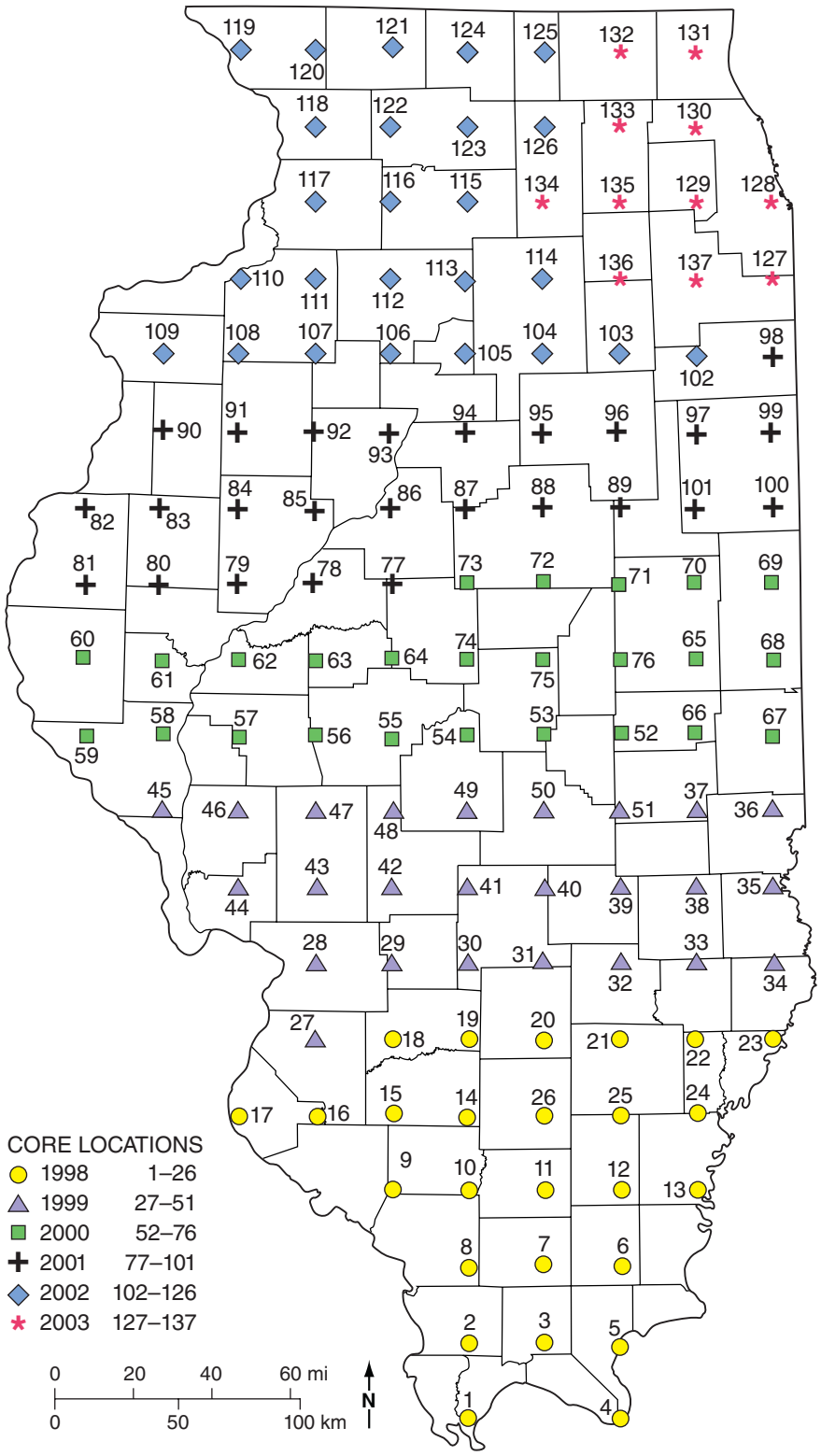

Figure 3 Core locations and years the soil cores were collected for the Dreher and Follmer Series (Dreher et al. 2002, 2003a, 2003b; Dreher and Follmer 2004a, 2004b, 2004c, 2005). The numbers represent sample identification numbers. Results from this series of studies are presented in Appendixes 2–5.

were determined by coulometric titration. The laboratory number, sample ID number, county, horizon, depth interval, pH, and elemental concentrations are listed in Appendix 5. Details for all procedures can be found in the Dreher and Follmer Series reports.

Quality assurance/quality control results were not reported in the Dreher and Follmer Series reports. However, during the first 2 years of the project, QA/QC results were determined by XRF from unpublished results (Zhang 2002). Accuracy values relative to National Institute of Standards & Technology Standard Reference Material (NIST SRM) 2709, San Joaquin Soil concentrations, are given in Table 2 along with the DL for each.

Results of QA/QC for Hg soil analysis are shown in Table 3 (Dreher and Follmer 2004d). Accuracy values relative to Canadian Certified Reference Program soils (SO-2, SO-3, SO-4) and NIST SRM 2709 are given. The DL of the method is approximately 2 µg/kg.

Tables 4 and 5 provide a summary of the number of samples above the DL, means, and ranges of concentrations for all the samples, as well as for the A-, B-, and C-horizon soils adapted from the Dreher and Follmer Series. Because of the occurrence of coal, asphalt, or both in core 122 (collected at the end of an abandoned roadbed), data from the upper three samples (0.0–0.6 m) of this core were excluded from the calculation of means and ranges of element contents.

DISCUSSION

Direct comparisons of the results of the two studies have some limitations because of the different analytical techniques used. The study by Zhang and Frost (2002) included AA, INAA, and OES techniques, which have lower DL and better precision for low concentrations of trace elements compared with XRF, which was used in the Dreher and Follmer Series reports. Tables 6 and 7 list the mean, median, range, and lower and upper quartile concentrations of elements in the uppermost intervals analyzed in the two studies.

Table 2 Quality assurance/quality control results relative to NIST SRM 2709 by X-ray fluorescence spectrometry analyzed during the first 2 years of the project[1]

Element	Certified value	Determined value	n	DL
SiO_2 (%)	63.45 ± 0.49	62.9 ± 0.3	23	0.01
Al_2O_3 (%)	14.17 ± 0.11	15.5 ± 0.3	23	0.10
Fe_2O_3 (%)	5.00 ± 0.16	5.73 ± 0.21	23	0.01
MgO (%)	2.50 ± 0.08	2.40 ± 0.04	23	0.05
CaO (%)	2.64 ± 0.07	2.64 ± 0.03	23	0.01
Na_2O (%)	1.56 ± 0.04	1.36 ± 0.07	23	0.1
K_2O (%)	2.44 ± 0.07	2.41 ± 0.03	23	0.05
TiO_2 (%)	0.57 ± 0.04	0.55 ± 0.02	23	0.01
P_2O_5 (%)	0.14 ± 0.01	0.15 ± 0.01	23	0.01
MnO (%)	0.07 ± 0.01	0.08 ± 0.003	23	0.01
Ba	968 ± 40	998 ± 67	23	100
Cr	130 ± 4	114 ± 11	15	5
Cu	34.6 ± 0.7	37 ± 1.2	15	5
Ni	88 ± 5	56 ± 3.8	15	5
Pb	18.9 ± 0.5	20 ± 0.8	15	5
Rb	96*	100 ± 3	15	5
Sr	231 ± 2	250 ± 11	23	50
V	112 ± 5	101 ± 4	15	35
Zn	106 ± 3	108 ± 4	15	5
Zr	160*	139 ± 4	23	50

[1]Dreher and Follmer Series (Dreher et al. 2002, 2003a, 2003b; Dreher and Follmer 2004a, 2004b, 2004c, 2005) and Zhang and Frost (2002). An asterisk (*) indicates noncertified values. All values are in milligrams per kilograms (mg/kg) unless otherwise noted. NIST SRM, National Institute of Standards & Technology Standard Reference Material; n, number of samples; DL, detection limits.

Table 3 Quality assurance/quality control results for Hg analysis in four reference materials[1]

Material	Certified value (µg/kg)	Determined value (µg/kg)	n
SO-2	82 ± 9	92.8 ± 5.4	19
SO-3	17 ± 7	15.8 ± 2.8	14
SO-4	30 ± 6	28.2 ± 6.8	14
NIST SRM 2709	1,400 ± 80	1,418 ± 41	44

[1]Dreher and Follmer (2004d). n, number of samples; SO-2, SO-3, SO-4, Canadian Certified Reference Program soils; NIST SRM, National Institute of Standards & Technology Standard Reference Material.

Table 4 Mean, range, detection limits (DL), and number of samples above the DL in all samples and in the A horizon of Illinois soils[1]

		All samples				A horizon (0.1–0.2 m)			
Element	DL	n > DL	Mean	Minimum	Maximum	n > DL	Mean	Minimum	Maximum
Sand (%)		816	15.29	0.05	96.04	239	13.10	0.31	91.14
Silt (%)		816	59.24	1.02	89.66	239	63.66	2.24	86.38
Clay (%)		816	25.44	0.40	80.77	239	23.08	2.60	42.24
SiO_2 (%)	0.01	817	72.50	28.44	98.80	239	75.41	58.92	98.80
Al_2O_3 (%)	0.10	817	10.80	2.50	21.10	239	9.86	3.40	16.30
Fe_2O_3 (%)	0.01	817	3.98	0.71	16.40	239	3.37	1.07	6.44
MgO (%)	0.05	816	1.43	<0.05	13.71	239	0.81	0.07	3.81
CaO (%)	0.01	817	1.75	0.12	19.12	239	1.04	0.12	8.73
Na_2O (%)	0.10	817	0.86	0.16	1.74	239	0.89	0.45	1.45
K_2O (%)	0.05	817	2.09	0.72	4.82	239	1.99	1.08	3.07
TiO_2 (%)	0.01	817	0.66	0.07	1.08	239	0.69	0.09	1.08
P_2O_5 (%)	0.01	817	0.11	0.02	0.36	239	0.14	0.04	0.36
MnO (%)	0.01	816	0.10	0.01	0.78	238	0.12	<0.02	0.50
Total C (%)	0.01	817	1.28	0.05	14.16	239	1.75	0.17	7.46
Inorganic C (%)	0.01	816	0.47	<0.01	7.88	239	0.14	0.01	1.99
Organic C (%)	0.01	816	0.81	<0.01	13.98	239	1.61	0.12	6.53
pH		816	6.55	3.57	8.71	239	6.36	4.19	8.17
Ba	100	809	546	<100	1,467	237	571	<100	1,448
Cr	5	781	85	<5	756	223	77	<5	756
Cu	5	806	26	<5	133	234	25	<5	53
Hg (µg/kg)	2	810	30	<2	124	239	36	0.08	124
Ni	5	768	25	<5	129	218	20	<5	51
Pb	5	807	21	<5	147	235	24	<5	147
Rb	5	809	77	20	191	235	75	24	152
Sr	50	816	125	<50	255	239	123	67	201
V	35	809	84	<35	172	228	79	<35	127
Zn	5	809	68	<5	209	235	68	<5	209
Zr	50	816	313	53	586	239	350	69	586

[1]Adapted from the Dreher and Follmer Series (Dreher et al. 2002, 2003a, 2003b; Dreher and Follmer 2004a, 2004b, 2004c, 2005). All values are in milligrams per kilogram (mg/kg) unless otherwise noted. n, number of samples.

Table 5 Mean, range, and number of samples above the detection limits (DL) in the B and C horizons of Illinois soils[1]

	B horizon (0.7–0.8 m)				C horizon (~1.3 m depth)			
Element	n > DL	Mean	Minimum	Maximum	n > DL	Mean	Minimum	Maximum
Sand (%)	306	11.77	0.20	95.42	104	23.42	0.22	96.04
Silt (%)	306	58.02	2.94	81.96	104	58.12	1.02	89.66
Clay (%)	306	30.12	0.40	74.07	104	18.46	1.10	51.28
SiO_2 (%)	306	72.39	52.09	92.20	104	70.09	28.44	93.60
Al_2O_3 (%)	306	12.27	3.06	21.10	104	9.33	2.50	15.82
Fe_2O_3 (%)	306	4.73	1.16	16.40	104	3.32	0.71	7.78
MgO (%)	306	1.18	0.06	6.72	104	2.55	0.08	13.71
CaO (%)	306	1.04	0.13	12.11	104	3.73	0.12	19.12
Na_2O (%)	306	0.87	0.21	1.50	104	0.92	0.16	1.74
K_2O (%)	306	2.09	1.02	4.53	104	2.08	0.72	4.75
TiO_2 (%)	306	0.68	0.10	1.05	104	0.56	0.07	0.93
P_2O_5 (%)	306	0.10	0.03	0.33	104	0.10	0.03	0.23
MnO (%)	306	0.10	0.02	0.78	104	0.08	0.02	0.19
Total C (%)	306	0.69	0.05	7.79	104	1.63	0.06	8.24
Inorganic C (%)	305	0.17	<0.01	4.24	104	1.28	0.01	7.88
Organic C (%)	306	0.52	0.04	5.22	103	0.35	0.02	3.06
pH	306	6.31	3.74	8.22	104	7.31	3.98	8.71
Ba	306	583	108	1,467	103	470	<100	1,211
Cr	302	99	<5	441	96	79	<5	373
Cu	304	29	<5	80	101	24	<5	133
Hg (µg/kg)	302	37	<2	101	102	24	<2	71
Ni	301	30	<5	129	100	23	<5	71
Pb	304	20	<5	107	102	16	<5	28
Rb	304	81	34	177	103	69	20	179
Sr	306	126	74	219	104	133	64	255
V	298	97	<35	172	89	77	<35	128
Zn	304	73	<5	198	103	56	<5	112
Zr	306	316	63	543	104	279	53	569

[1]Adapted from the Dreher and Follmer Series (Dreher et al. 2002, 2003a, 2003b; Dreher and Follmer 2004a, 2004b, 2004c, 2005). All values are in milligrams per kilogram (mg/kg) unless otherwise noted. n, number of samples.

Table 6 Comparison of mean, median, range, and lower and upper quartile concentrations of major elements in the uppermost intervals of soil cores[1]

Element (%)	Mean	Median	Minimum	Maximum	Lower quartile	Upper quartile
	Zhang and Frost, A horizon (0.1–0.2 m), n = 90					
SiO_2	75.16	75.65	56.8	90.34	72.61	78.55
Al_2O_3	9.56	9.51	3.84	17.03	8.72	10.31
Fe_2O_3	3.38	3.29	1.06	7.87	2.73	3.68
MgO	0.84	0.71	0.01	3.13	0.55	0.94
CaO	0.93	0.73	0.11	4.59	0.51	1.00
Na_2O	0.98	0.98	0.58	1.63	0.86	1.11
K_2O	2.12	2.12	0.18	3.98	1.93	2.25
TiO_2	0.70	0.73	1.18	0.87	0.67	0.77
P_2O_5	0.13	0.12	0.05	0.28	0.09	0.15
MnO	0.12	0.12	0.02	0.30	0.09	0.14
Total C	1.96	1.59	0.50	7.52	1.07	2.83
Inorganic C	0.15	0.05	0.02	1.49	0.03	0.16
Organic C	1.82	1.52	0.48	6.92	1.01	2.41
	Dreher and Follmer Series, top interval (0–0.3 m), n = 136					
SiO_2	75.12	75.33	53.40	98.80	71.80	78.73
Al_2O_3	9.51	9.58	3.60	14.80	8.00	10.86
Fe_2O_3	3.23	3.19	1.22	5.93	2.56	3.86
MgO	0.83	0.76	0.07	3.81	0.46	1.10
CaO	1.29	0.92	0.18	12.11	0.67	1.33
Na_2O	0.89	0.90	0.45	1.23	0.78	1.00
K_2O	2.01	2.01	1.11	2.95	1.86	2.13
TiO_2	0.69	0.71	0.18	1.04	0.63	0.77
P_2O_5	0.15	0.14	0.05	0.36	0.11	0.17
MnO	0.13	0.11	0.02	0.50	0.08	0.15
Total C	2.08	1.85	0.44	7.79	1.31	2.61
Inorganic C	0.21	0.09	0.02	2.57	0.05	0.18
Organic C	1.88	1.68	0.41	6.27	1.17	2.29

[1]Zhang and Frost (2002) and Dreher and Follmer Series (Dreher et al. 2002, 2003a, 2003b; Dreher and Follmer 2004a, 2004b, 2004c, 2005). n, number of samples.

Table 7 Comparison of mean, median, range, and lower and upper quartile concentrations of trace elements in the uppermost intervals of soil cores[1]

Element	Mean	Median	Minimum	Maximum	Lower quartile	Upper quartile
	Zhang and Frost, A horizon (0.1–0.2 m), n = 90					
As	8.7	8.3	1.6	17	7.0	10.0
Ba	565	582	245	805	490	640
Be	1.4	1.3	<1	2.8	1.1	1.6
Cr	56	58	19	91	53	61
Cu	28	25	8	69	19	33
Ni	22	18	<20	53	16	28
Pb	27	20	<10	250	16	31
Rb	80	77	34	140	70	87
Sb	0.9	0.9	0.2	2.0	0.8	1.1
Sr	103	100	55	165	90	115
Tl	1.4	1.0	<1	3.0	1.0	2.0
V	85	82	22	260	66	95
Zn	73	64	19	258	47	87
	Dreher and Follmer Series, top interval (0.0–0.3 m), n = 136					
Ba	570	576	140	1,216	442	684
Cr	71	60	<5	633	33	94
Cu	24	23	<5	53	20	28
Hg (µ/kg)	35	30	8	123	25	40
Ni	20	21	<5	49	9	28
Pb	27	22	<5	147	19	28
Rb	74	72	24	138	59	89
Sr	123	123	67	179	111	136
V	77	74	<35	117	67	88
Zn	71	67	7	209	50	88

[1]Zhang and Frost (2002) and Dreher and Follmer Series (Dreher et al. 2002, 2003a, 2003b; Dreher and Follmer 2004a, 2004b, 2004c, 2005). All values are in milligrams per kilogram (mg/kg) unless otherwise noted. n, number of samples; ND, not determined.

The USGS deemed there was a critical need to create a data set that would provide knowledge about the concentrations and spatial distribution of naturally occurring elements in soils of the United States (Smith et al. 2013). Soil samples were collected on a random grid of approximately one sample per 1,600 km (994 mi). In total, 4,857 target sites were established. Soils were collected in the most representative geomorphic setting within 1 km^2 (0.39 mi^2) of the target area and obvious contaminated areas were avoided, including proximity to highways, buildings, and active major industrial areas. The landscape and land use were recorded for each site. A soil sample was collected at the surface (0–5 cm), a composite sample was made of the A horizon (~0–20 cm), and a deeper composite sample was made of the C horizon (depth of ~1.3 m). The majority of the 45 major and trace elements were determined by inductively coupled plasma-mass spectrometry by using a near total digestion (see Table 8). Arsenic and Se were determined by hydride generation absorption spectrometry and Hg was determined by CVAA. Total carbon was determined with an automated carbon analyzer. Inorganic carbon concentration was calculated from mineralogical data for the carbonate minerals calcite, dolomite, and aragonite. Quality assurance/quality control tables of concentrations determined on an internal project standard as well as the coefficients of variation from analytical duplicates are available in Smith et al. (2013; see Tables 6 and 7).

The soil geochemical data from the nationwide USGS study are available in downloadable tables (Smith et al. 2013). The 88 locations sampled in Illinois are shown in Figure 4. The geochemical data for Illinois are presented in Appendix 6. The results have been combined so that the three intervals sampled for each core are listed together and the results are sorted by county. The lower limits of detection; number of samples above the detection limits; and mean, minimum, and maximum concentrations for each of the three sampling intervals for Illinois soils are presented in Table 8. The

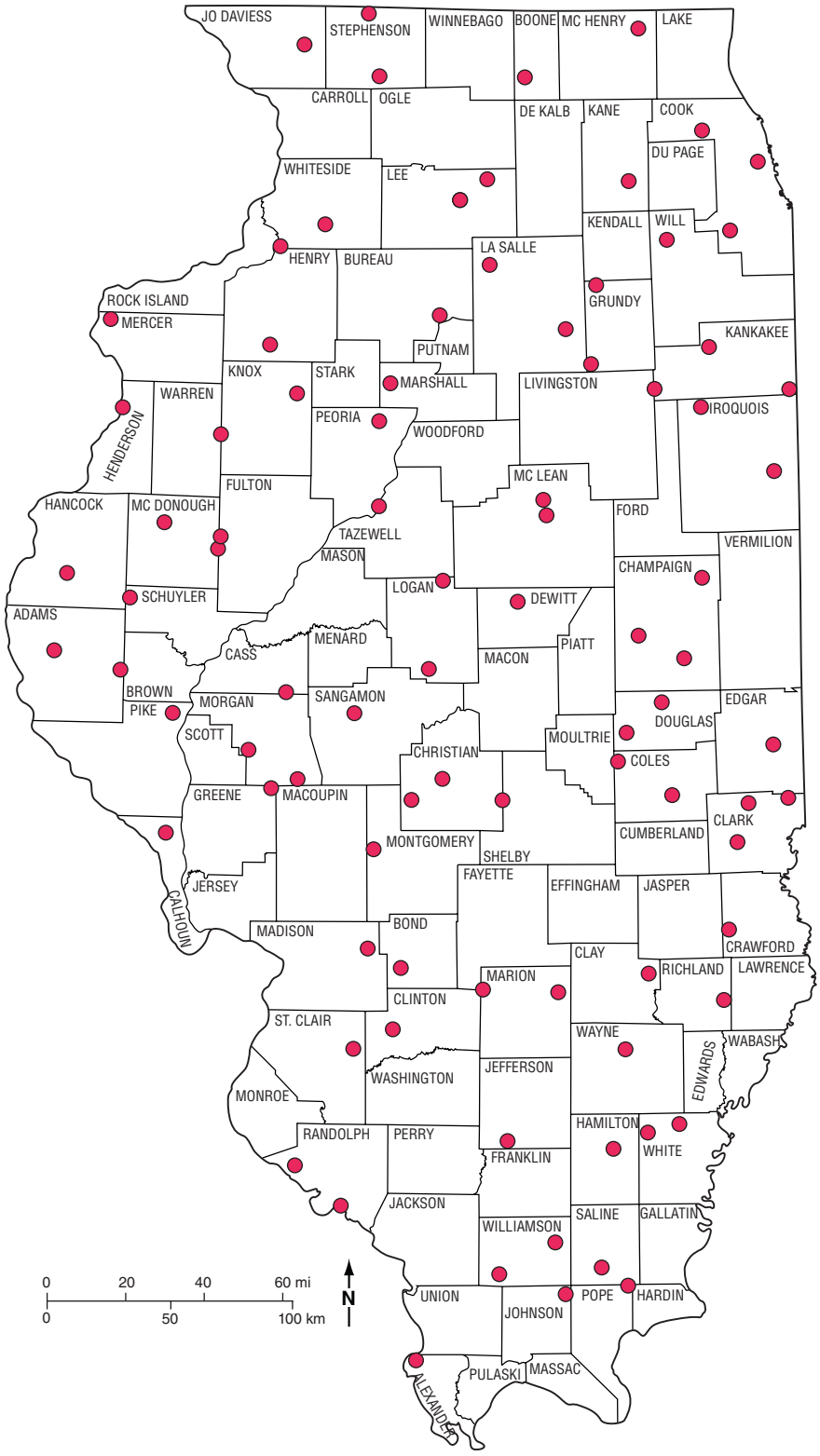

Figure 4 Core locations of Illinois soils sampled by the U.S. Geological Survey (Smith et al. 2013).

Table 8 Lower limits of detection (LLD), mean, range, and number of samples above the detection limits (DL) in the surface, A horizon, and C horizon of Illinois soils[1]

		Surface (0–5 cm)				A horizon (~0–20 cm)				C horizon (~1.3 m depth)			
Element	LLD	n > DL	Mean	Min	Max	n > DL	Mean	Min	Max	n > DL	Mean	Min	Max
Al_2O_3 (%)	0.02	88	8.04	4.04	11.62	88	8.18	4.00	12.01	88	9.50	3.66	17.08
Fe_2O_3 (%)	0.01	88	2.82	1.33	6.44	88	2.88	1.10	12.10	88	3.63	0.44	8.55
MgO (%)	0.02	88	0.87	0.30	3.98	88	0.81	0.30	3.60	88	2.05	0.15	9.37
CaO (%)	0.01	88	1.40	0.34	10.35	88	1.31	0.22	9.28	88	2.63	0.35	15.11
NaO (%)	0.01	88	0.89	0.38	1.39	88	0.89	0.35	1.40	88	0.90	0.24	1.59
K_2O (%)	0.01	88	1.93	1.24	3.02	88	1.92	0.84	2.60	88	2.04	1.07	3.60
TiO_2 (%)	0.02	88	0.46	0.15	0.65	88	0.46	0.15	0.63	88	0.47	0.05	0.73
SO_3 (%)	0.02	88	1.14	0.37	1.62	88	0.13	0.05	1.67	86	0.07	0.02	0.22
P_2O_5 (%)	0.01	88	0.22	0.06	0.73	88	0.20	0.04	0.76	88	0.10	0.01	0.26
MnO (%)	0.006	88	0.10	0.02	0.24	88	0.10	0.00	0.30	88	0.08	0.00	0.33
Total C (%)	0.01	*	*	*	*	88	2.83	0.89	23.00	88	1.11	0.06	5.77
Inorganic C (%)	0.2	*	*	*	*	21	0.61	0.10	2.20	37	1.91	0.10	5.80
Organic C (%)	0.01	*	*	*	*	88	2.68	0.89	23.00	79	0.36	0.00	3.80
Ag	1	0	<1			0	<1			0	<1		
As	0.6	88	7.5	2.3	21.6	88	7.5	2.0	17.6	88	7.8	1.3	17.0
Ba	5	88	527	314	731	88	543	329	784	88	502	288	806
Be	0.1	88	1.2	0.6	2.9	88	1.3	0.6	4.4	87	1.4	0.4	2.9
Bi	0.04	87	0.18	0.05	0.33	88	0.18	0.06	0.31	86	0.18	0.07	0.38
Cd	0.1	85	0.3	0.1	2.3	84	0.3	0.1	2.8	68	0.2	0.1	0.6
Ce	0.05	88	54.1	17.0	77.0	88	55.3	18.7	76.4	88	55.7	11.9	87.5
Co	0.1	88	9.7	2.8	16.7	88	10.1	3.4	17.5	88	10.8	1.6	24.7
Cr	1	88	40	10	67	88	39	10	75	88	36	3	68
Cs	5	6	5	5	6	8	6	5	7	22	6	5	8
Cu	0.5	88	19.1	5.1	54.5	88	20.1	6.9	166.0	88	19.5	2.9	37.9
Ga	0.05	88	9.6	4.4	15.8	88	10.0	4.2	18.1	88	11.6	4.0	21.5
Hg (µg/kg)	0.01	88	0.04	0.02	0.25	88	0.04	0.02	0.13	85	0.03	0.01	0.17
In	0.02	82	0.03	0.02	0.08	82	0.03	0.02	0.10	85	0.04	0.02	0.08
La	0.5	88	27.7	8.8	38.8	88	28.0	9.8	36.6	88	28.5	6.4	40.8
Li	1	88	21.7	6	81	88	21	5	41	88	29	4	63
Mo	0.05	88	1.2	0.3	12.3	88	1.3	0.3	22.3	88	1.7	0.1	12.5
Nb	0.1	88	8.8	2.3	12.1	88	9.2	2.5	11.5	88	8.7	1.0	12.7
Ni	0.5	88	16.9	5.8	42.6	88	16.6	6.6	40.5	88	25.1	4.2	60.7
Pb	0.5	88	26.4	14.0	103.0	88	26.2	15.1	75.9	88	17.0	6.3	30.2
Rb	0.2	88	67.3	33.1	109.0	88	71.3	29.5	113.0	88	71.4	34.0	123.0
Sb	0.05	88	0.7	0.2	2.2	88	0.8	0.3	9.1	88	0.6	0.1	1.4
Sc	0.1	88	6.0	2.1	11.1	88	6.3	2.2	11.8	88	8.0	1.1	16.4
Se	0.2	81	0.5	0.2	1.7	85	0.5	0.2	2.8	21	0.3	0.2	0.6
Sn	0.1	88	1.6	0.7	6.0	88	1.6	0.8	4.5	88	1.4	0.2	7.1
Sr	0.5	88	104.0	72.2	364.0	88	105.0	73.8	343.0	88	108.8	58.2	184.0
Te	0.1	0	<0.1			0	<0.1			2	0.1	<0.1	0.1
Th	0.2	88	8.7	2.3	11.5	88	8.7	2.5	11.1	88	8.5	1.4	12.7
Tl	0.1	88	0.5	0.2	1.1	88	0.5	0.3	1.4	88	0.6	0.2	1.5
U	0.1	88	2.7	0.7	4.5	88	2.8	0.8	6.3	88	2.5	0.4	5.1
V	1	88	55	19	96	88	57	21	89	88	68	9	148
W	0.1	88	0.9	0.2	1.5	88	1.0	0.3	1.5	87	0.9	0.1	2.1
Y	0.1	88	15.7	6.1	28.4	88	16.4	7.4	24.9	88	19.6	3.0	45.1
Zn	1	88	82	27	301	88	80	29	288	88	61	9	161

[1]Adapted from Smith et al. (2013). An asterisk (*) indicates not measured in the 0- to 5-cm sampling interval. All values are in milligrams per kilogram (mg/kg) unless otherwise noted. n, number of samples.

Table 9 Combined results of the mean, range, and number of samples above the detection limits (DL) in the A horizon of Illinois soils[1]

	USGS				Zhang and Frost				Dreher and Follmer Series			
Element	n > DL	Mean	Min	Max	n > DL	Mean	Min	Max	n > DL	Mean	Min	Max
Al_2O_3 (%)	88	8.18	4.00	12.01	90	9.56	3.84	17.03	239	9.86	3.40	16.30
Fe_2O_3 (%)	88	2.88	1.10	12.10	90	3.38	1.06	7.87	239	3.37	1.07	6.44
MgO (%)	88	0.81	0.30	3.60	90	0.85	0.20	3.13	239	0.81	0.07	3.81
CaO (%)	88	1.31	0.22	9.28	90	0.93	0.11	4.59	239	1.04	0.12	8.73
NaO (%)	88	0.89	0.35	1.40	90	0.99	0.58	1.63	239	0.89	0.45	1.45
K_2O (%)	88	1.92	0.84	2.60	90	2.12	1.24	3.98	239	1.99	1.08	3.07
TiO_2 (%)	88	0.46	0.15	0.63	90	0.70	0.18	0.87	239	0.69	0.09	1.08
SO_3 (%)	88	0.13	0.05	1.67	90							
P_2O_5 (%)	88	0.20	0.04	0.76	90	0.13	0.05	0.28	239	0.14	0.04	0.36
MnO (%)	88	0.10	0.00	0.30	90	0.12	0.02	0.30	239	0.12	<0.02	0.50
Total C (%)	88	2.83	0.89	23.00	90	1.97	0.50	7.52	239	1.73	0.17	7.07
Inorganic C (%)	21	0.61	0.10	2.20	90	0.15	0.02	1.49	239	0.15	0.01	2.07
Organic C (%)	88	2.68	0.89	23.00	90	1.82	0.48	6.92	239	1.59	0.12	6.27
Ag	0	<1			0	<1						
As	88	7.5	2.0	17.6	90	8.7	1.6	17.0				
B					90	44.7	17.0	70.0				
Ba	88	543	329	784	90	565	24	805	237	571	<100	1,448
Be	88	1.3	0.6	4.4	75	1.4	<1	2.8				
Bi	88	0.18	0.06	0.31								
Cd	84	0.3	0.1	2.8	0	<4						
Ce	88	55.3	18.7	76.4	90	66.0	16.0	87.0				
Co	88	10.1	3.4	17.5	90	10.7	2.8	21.0				
Cr	88	39	10	75	90	56	19	91	223	77	<5	756
Cs	8	6	5	7	90	3.1	0.7	8				
Cu	88	20.1	6.9	166.0	90	28.0	8.0	69.0	234	25.0	<5	53.0
Ga	88	10.0	4.2	18.1	90	11.1	5.5	21.0				
Hg (µg/kg)	88	0.04	0.02	0.13					239	0.03	0.01	0.12
In	82	0.03	0.02	0.10								
La	88	28.0	9.8	36.6	90	32.5	8.9	46.0				
Li	88	21	5	41	90	19	3	74				
Mo	88	1.3	0.3	22.3								
Nb	88	9.2	2.5	11.5								
Ni	88	16.6	6.6	40.5	22	22.0	<20	53.0	218	20.0	<5	51.0
Pb	88	26.2	15.1	75.9	87	27.0	<10	250.0	235	24.0	<5	147.0
Rb	88	71.3	29.5	113.0	90	80.0	34.0	140.0	235	75.0	24.0	152.0
Sb	88	0.8	0.3	9.1	90	0.9	0.2	2.0				
Sc	88	6.3	2.2	11.8	90	8.0	1.9	19.0				
Se	85	0.5	0.2	2.8	8	1.2	<1	2.6				
Sn	88	1.6	0.8	4.5								
Sr	88	105.0	73.8	343.0	90	103.0	55.0	165.0	239	123.0	67.0	201.0
Th	88	8.7	2.5	11.1	90	8.9	2.0	12.0				
Tl	88	0.5	0.3	1.4	74	1.4	<1					
U	88	2.8	0.8	6.3	89	3.4	<1.5	6.1				
V	88	57	21	89	90	85	22	260	228	79	<35	127
W	88	1.0	0.3	1.5								
Y	88	16.4	7.4	24.9								
Zn	88	80	29	288	90	73	19	258	239	68	<5	209

[1]U.S. Geological Survey (Smith et al. 2013), Zhang and Frost (2002), and Dreher and Follmer Series (Dreher et al. 2002, 2003a, 2003b; Dreher and Follmer 2004a, 2004b, 2004c, 2005). All values are in milligrams per kilogram (mg/kg) unless otherwise noted. n, number of samples.

combined results for A-horizon Illinois soils from the three studies (Zhang and Frost 2002; Dreher and Follmer Series; Smith et al. 2013) are summarized in Table 9.

In general, few differences in concentration were found between the 0- to 5-cm interval and the A horizon, with the exception of SO_3, which was much higher in the 0- to 5-cm interval. For the A-horizon soils, the concentrations were similar across the three studies. However, the mean concentrations of CaO; P_2O_5; and total, inorganic, and organic carbon were higher in the USGS study than in the other two studies, whereas the mean concentrations of Cr, Cu, Ni, TiO_2, and V were lower. This difference could have been due in part to the analytical techniques used.

Box and whisker plots of the concentrations of Al_2O_3, As, Ba, CaO, Cr, Cu, Fe_2O_3, Hg, K_2O, MgO, MnO, Na_2O, Ni, organic C, P_2O_5, Pb, Rb, Sr, TiO_2, and Zn for all soil intervals are shown in Appendix 7 (Zhang and Frost 2002; Dreher and Follmer Series; Smith et al. 2013). The symbol z in the plots refers to Zhang and Frost (2002), the symbol d refers to the Dreher and Follmer Series, and the symbol u refers to Smith et al. (2013). In general, the median and 25% and 75% quartile concentrations are similar for the three studies. Maximum concentrations of As, Cu, Fe_2O_3, Hg, MnO, Ni, organic C, P_2O_5, and Pb generally varied from 2 to 3 times between the three data sets. The Cr distribution determined in the Dreher and Follmer Series showed 35 samples with concentrations greater than 200 mg/kg and 200 samples with concentrations greater than 100 mg/kg. In contrast, concentrations of Cr did not exceed 100 mg/kg in Zhang and Frost (2002) and Smith et al. (2013). The frequent erratic distribution of Cr in soil cores was noted in the Dreher and Follmer Series, in which unusually high Cr contents were observed.

Selected soil concentrations determined by Jones (1986, 1989, 2002) and the Illinois Environmental Protection Agency (IEPA 1994) are presented in Tables 10 and 11. Surface horizon soils from all major physiographic regions of Illinois were included in the studies by Jones (1986, 1989, 2002). The IEPA (1994) study included samples from every county in Illinois, collected at background locations that were judged as undisturbed and unaffected by site-related activities.

Results from the two ISGS studies are comparable to those from studies by Jones (1986, 1989, 2002). In contrast, the IEPA (1994) results show lower values for Ba, Cr, and V and higher values for Sb, Pb, and Hg. These results could have been due to the analytical techniques used as well as the large number of samples collected in metropolitan areas compared with the ISGS studies. Urban soils may have been affected by anthropogenic activities.

Table 10 Mean, median, and range of Ba, Cd, Rb, and Zn concentrations in Illinois soils[1]

Element	n	Mean	Median	Minimum	Maximum
Ba	174	613	610	366	1,070
Cd	72	0.28		0.1	0.9
Rb	223	89		40	140
Zn	150	60		10	130

[1]Jones (1986, 1989, 2002). All values are in milligrams per kilogram (mg/kg). n, number of samples.

Table 11 Mean, median, and range of elemental concentrations in Illinois soils[1]

Element	n	Mean	Median	Minimum	Maximum
Ag	233	0.84	0.50	<0.06	5.9
As	234	6.7	5.9	0.35	24
Ba	251	130	119	<5	1,720
Be	213	0.7	0.6	<0.02	9.9
Cd	243	1.0	0.5	<0.2	8.2
Cr	261	17	14	<2	151
Cu	254	20	14	1	156
Hg (µ/kg)	200	110	60	<10	1,670
Ni	252	17	14	<3	135
Pb	267	49	25	5	647
Sb	142	3.7	3.6	0.2	8.6
Tl	191	0.6	0.4	0.02	2.8
V	214	25	25	<2.5	80
Zn	246	103	67	<5	798

[1]Illinois Environmental Protection Agency (1994). All values are in milligrams per kilogram (mg/kg) unless otherwise noted. n, number of samples.

SUMMARY

This report presents results of a comprehensive suite of elements in Illinois soils from three studies. Surface samples as well as samples from the major soil horizons are included in tabular form. Summary tables and graphs are provided that compare results of the three studies. In general, the median and 25% and 75% quartile concentrations are similar in the three studies. The data can be used in investigations involving soil constituents and their concentrations. In this report, no attempt was made to discuss geochemical associations of the elements or to plot the results to establish regional trends.

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APPENDIX 1—ANALYSIS NUMBER, COUNTY, LOCATION, FIELD IDENTIFICATION, DEPTH, AND ELEMENTAL CONCENTRATIONS IN ILLINOIS SOILS (ZHANG AND FROST 2002)

Note: The following samples were not included in the statistical analysis: *Samples were collected at the same site 30, 100, and 160 ft west of Route 47; #site was located in the Town of Lincoln; &samples are a mixture of A and B horizons; ^samples are not a native B horizon—the site contains soil from an old mine site. LOI, loss on ignition.

Analysis no.		County	Latitude	Longitude	Field ID	Depth (m)	SiO_2 (%)	Al_2O_3 (%)	Fe_2O_3 (%)
R19598		Adams	40.0235	–90.9575	80AD0408	0.1–0.2	78.10	9.49	3.55
R19599		Adams	40.0235	–90.9575	80AD2832	0.7–0.8	70.88	13.46	5.36
R19600		Adams	40.0947	–91.2823	81AD0408	0.1–0.2	83.96	6.30	1.79
R19601		Adams	40.0947	–91.2823	81AD1822	0.4–0.5	87.20	5.77	2.10
R19688		Adams	39.8920	–90.9358	82AD0408	0.1–0.2	71.94	12.10	4.81
R19689		Adams	39.8920	–90.9358	82AD2832	0.7–0.8	73.27	11.91	4.61
R19523		Boone	42.4175	–88.9205	50BO0408	0.1–0.2	79.29	8.95	2.41
R19524		Boone	42.4175	–88.9205	50BO2832	0.7–0.8	72.04	12.83	5.06
R19704		Brown	39.8893	–90.6702	90BR0408	0.1–0.2	77.18	8.97	2.77
R19705		Brown	39.8893	–90.6702	90BR2832	0.7–0.8	71.73	12.06	5.49
R18790		Bureau	41.3382	–89.2092	21BU0408	0.1–0.2	71.92	10.70	3.66
R18791		Bureau	41.3382	–89.2092	21BU2832	0.7–0.8	73.14	12.17	4.51
R18815		Bureau	41.3920	–89.4363	25BU0408	0.1–0.2	73.67	10.59	3.41
R18816		Bureau	41.3920	–89.4363	25BU2832	0.7–0.8	71.97	11.85	6.19
R19533		Carroll	42.1398	–90.1642	55CR0408	0.1–0.2	76.78	10.00	3.49
R19534		Carroll	42.1398	–90.1642	55CR2832	0.7–0.8	75.58	10.97	4.17
R19702		Cass	39.8873	–90.3730	89CS0408	0.1–0.2	68.24	7.45	2.66
R19703		Cass	39.8873	–90.3730	89CS2832	0.7–0.8	71.93	7.73	2.88
R18524		Champaign	40.0262	–88.3693	NPS50408	0.1–0.2	70.08	10.63	3.56
R18525		Champaign	40.0262	–88.3693	NPS52832	0.7–0.8	73.59	12.20	4.20
R18821		Champaign	40.3180	–88.1580	28CG0408	0.1–0.2	79.54	7.89	2.63
R18822		Champaign	40.3180	–88.1580	28CG2832	0.7–0.8	77.20	10.18	3.85
R18446	*	Champaign (30 ft)	40.2035	–88.3952	01/A0408	0.1–0.2	79.72	8.33	2.54
R18447	*	Champaign (30 ft)	40.2035	–88.3952	01/A2832	0.7–0.8	71.02	12.26	5.24
R18448	*	Champaign (100 ft)	40.2035	–88.3952	01/B0408	0.1–0.2	79.68	8.84	2.76
R18449	*	Champaign (100 ft)	40.2035	–88.3952	01/B2832	0.7–0.8	75.19	10.51	4.45
R18450		Champaign (160 ft)	40.2035	–88.3952	01/C0408	0.1–0.2	79.79	9.10	2.81
R18451		Champaign (160 ft)	40.2035	–88.3952	01/C2832	0.7–0.8	73.89	12.04	5.17
R18632		Christian	39.3738	–89.0667	CHR10408	0.1–0.2	78.72	8.95	2.81
R18633		Christian	39.3738	–89.0667	CHR12832	0.7–0.8	71.08	13.11	6.08
R19377		Christian	39.5567	–89.2708	32CT0408	0.1–0.2	78.83	8.16	2.35
R19378		Christian	39.5567	–89.2708	32CT3337	0.7–0.8	79.08	9.36	3.06
R19698		Christian	39.6352	–89.4732	87CT0408	0.1–0.2	78.55	8.93	2.64
R19699		Christian	39.6352	–89.4732	87CT2832	0.7–0.8	71.35	12.76	5.45
R19387		Clay	38.6447	–88.6553	37CY0408	0.1–0.2	78.36	9.04	3.67
R19388		Clay	38.6447	–88.6553	37CY2832	0.7–0.8	69.58	14.35	5.61
R19381		Clinton	38.4733	–89.6770	34CL0408	0.1–0.2	80.59	8.29	2.45
R19382		Clinton	38.4733	–89.6770	34CL2832	0.7–0.8	69.89	13.84	5.14
R18634		Coles	39.4690	–88.3410	COL10408	0.1–0.2	77.31	9.26	3.39
R18635		Coles	39.4690	–88.3410	COL12832	0.7–0.8	66.76	10.61	5.52
R18792		DeKalb	41.7882	–88.7595	22DK0408	0.1–0.2	74.80	10.12	3.35
R18793		DeKalb	41.7882	–88.7595	22DK2832	0.7–0.8	72.13	11.68	4.61
R19467		DuPage	41.8255	–88.0542	41DU0408	0.1–0.2	56.95	10.47	7.85
R19468		DuPage	41.8255	–88.0542	41DU2630	0.7–0.8	64.79	12.10	6.15
R19469		DuPage	41.9630	–88.0813	42DU0408	0.1–0.2	73.97	11.20	3.78
R19470		DuPage	41.9630	–88.0813	42DU2529	0.7–0.8	65.29	15.28	6.19
R18693		Franklin	38.0907	–88.9900	18FR0408	0.1–0.2	77.72	9.80	3.35
R18694		Franklin	38.0907	–88.9900	18FR2832	0.7–0.8	73.91	12.41	4.60
R18638		Fulton	40.3028	–90.1875	FUL10408	0.1–0.2	73.29	10.21	3.68
R18639		Fulton	40.3028	–90.1875	FUL12832	0.7–0.8	73.67	11.76	5.18
R18644		Fulton	40.2057	–90.3575	FUL20408	0.1–0.2	72.63	11.64	4.67
R18645		Fulton	40.2057	–90.3575	FUL22832	0.7–0.8	67.01	9.33	3.81

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Analysis no.		County	Latitude	Longitude	Field ID	Depth (m)	SiO_2 (%)	Al_2O_3 (%)	Fe_2O_3 (%)
R19580		Grundy	41.3580	–88.3252	71GY0408	0.1–0.2	75.52	9.20	3.37
R19581		Grundy	41.3580	–88.3252	71GY2226	0.5–0.6	76.99	8.68	6.00
R19566		Hancock	40.2545	–91.1220	69HK0408	0.1–0.2	77.23	9.07	2.79
R19567		Hancock	40.2545	–91.1220	69HK2832	0.7–0.8	69.01	13.70	5.53
R19568		Hancock	40.3378	–91.4350	70HK0408	0.1–0.2	80.49	8.24	2.36
R19569		Hancock	40.3378	–91.4350	70HK2832	0.7–0.8	73.64	11.59	4.94
R19562		Henderson	40.8150	–91.0278	67HN0408	0.1–0.2	75.71	8.09	2.44
R19563		Henderson	40.8150	–91.0278	67HN2832	0.7–0.8	79.11	9.13	2.85
R19544		Henry	41.4313	–90.1147	59HY0408	0.1–0.2	77.30	8.94	2.81
R19545		Henry	41.4313	–90.1147	59HY2832	0.7–0.8	74.52	11.17	4.14
R19546		Henry	41.3157	–89.8860	60HY0408	0.1–0.2	76.29	10.34	3.38
R19547		Henry	41.3157	–89.8860	60HY2832	0.7–0.8	73.95	11.64	4.65
R19548		Henry	41.2013	–90.1188	61HY0408	0.1–0.2	72.29	11.20	4.47
R19549		Henry	41.2013	–90.1188	61HY2832	0.7–0.8	74.99	9.98	3.98
R18689		Jackson	37.7040	–89.2190	16JK0408	0.1–0.2	77.87	9.51	3.12
R18690		Jackson	37.7040	–89.2190	16JK2832	0.7–0.8	72.63	12.69	4.96
R19529		Jo Daviess	42.4483	–90.0473	53JD0408	0.1–0.2	79.21	9.09	2.38
R19530		Jo Daviess	42.4483	–90.0473	53JD2832	0.7–0.8	73.58	12.07	4.65
R19531		Jo Daviess	42.4188	–90.4155	54JD0408	0.1–0.2	73.33	11.09	3.65
R19532		Jo Daviess	42.4188	–90.4155	54JD2832	0.7–0.8	69.42	14.40	5.32
R19519		Kane	41.8633	–88.4242	48KA0408	0.1–0.2	71.93	10.30	3.44
R19520		Kane	41.8633	–88.4242	48KA2832	0.7–0.8	69.90	11.46	4.55
R19582		Kane	41.8078	–88.3223	72KA0408	0.1–0.2	66.68	10.84	4.01
R19583		Kane	41.8078	–88.3223	72KA0913	0.7–0.8	49.78	5.95	2.96
R19473		Kankakee	41.1328	–87.8353	44KK0408	0.1–0.2	82.13	6.86	2.16
R19474		Kankakee	41.1328	–87.8353	44KK2832	0.7–0.8	84.70	6.69	2.62
R19465		Kendall	41.7113	–88.2813	40KL0408	0.1–0.2	69.30	11.68	4.12
R19466		Kendall	41.7113	–88.2813	40KL2832	0.7–0.8	71.28	12.93	4.50
R19586		Knox	40.8078	–90.1485	74KX0408	0.1–0.2	72.38	9.95	3.29
R19587		Knox	40.8078	–90.1485	74KX2832	0.7–0.8	72.75	11.52	3.99
R19588		Knox	40.8022	–90.4072	75KX0408	0.1–0.2	72.61	10.16	3.23
R19589		Knox	40.8022	–90.4072	75KX2832	0.7–0.8	71.02	12.97	4.60
R19584		LaSalle	41.3188	–88.7048	73LS0408	0.1–0.2	75.59	8.21	2.92
R19585		LaSalle	41.3188	–88.7048	73LS2832	0.7–0.8	78.61	9.13	4.19
R19471		Lake	42.3425	–87.8803	43LK0408	0.1–0.2	74.70	10.30	5.11
R19472		Lake	42.3425	–87.8803	43LK2024	0.4–0.5	66.59	10.10	5.90
R19475		Lake	42.4680	–87.8688	45LK0408	0.1–0.2	70.37	11.11	4.09
R19476		Lake	42.4680	–87.8688	45LK2832	0.7–0.8	48.05	9.96	4.73
R19477		Lake	42.4625	–87.9917	46LK0408	0.1–0.2	63.38	15.89	7.21
R19478		Lake	42.4625	–87.9917	46LK2832	0.7–0.8	46.11	9.72	4.12
R18788		Livingston	40.7387	–88.5018	20LV0408	0.1–0.2	69.91	11.55	4.31
R18789		Livingston	40.7387	–88.5018	20LV2832	0.7–0.8	71.50	12.23	4.86
R18458	#	Logan	40.1585	–89.3662	04/04-08	0.1–0.2	67.27	10.40	5.44
R18459	#	Logan	40.1585	–89.3662	04/28-32	0.7–0.8	71.08	10.70	4.58
R19590		Logan	39.9772	–89.5467	76LO0408	0.1–0.2	72.98	10.18	4.08
R19591		Logan	39.9772	–89.5467	76LO2832	0.7–0.8	72.25	11.70	5.05
R18630		Macon	39.7090	–89.0002	MCN10408	0.1–0.2	73.70	9.63	3.67
R18631		Macon	39.7090	–89.0002	MCN12832	0.7–0.8	67.13	12.13	4.89
R18695		Marion	38.6043	–89.0557	19MN0408	0.1–0.2	81.50	7.76	2.02
R18696		Marion	38.6043	–89.0557	19MN2832	0.7–0.8	70.51	14.61	4.84
R19596		Mason	40.2980	–89.9948	79MA0408	0.1–0.2	90.34	3.84	1.06
R19597		Mason	40.2980	–89.9948	79MA2832	0.7–0.8	91.63	3.83	1.01
R19564		McDonough	40.4537	–90.8022	68MU0408	0.1–0.2	79.84	8.24	2.21
R19565		McDonough	40.4537	–90.8022	68MU2832	0.7–0.8	68.78	14.06	5.75
R19479		McHenry	42.3095	–88.2268	47MY0408	0.1–0.2	82.02	7.72	2.24
R19480		McHenry	42.3095	–88.2268	47MY2832	0.7–0.8	66.56	11.81	4.68
R19521		McHenry	42.2302	–88.5503	49MY0408	0.1–0.2	77.90	8.63	3.02
R19522		McHenry	42.2302	–88.5503	49MY2832	0.7–0.8	55.33	7.36	2.49
R18452		McLean	40.3117	–88.7332	02/04-08	0.1–0.2	73.86	9.94	3.52

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Analysis no.		County	Latitude	Longitude	Field ID	Depth (m)	SiO_2 (%)	Al_2O_3 (%)	Fe_2O_3 (%)
R18453		McLean	40.3117	–88.7332	02/28-32	0.7–0.8	71.44	12.87	5.42
R18454		McLean	40.3155	–89.0020	03/A0408	0.1–0.2	77.78	9.08	3.14
R18455	&	McLean	40.3155	–89.0020	03/A2630	0.7–0.8	81.35	6.55	2.69
R18456	&	McLean	40.3155	–89.0020	03/B4248	1.0–1.1	73.67	10.65	3.74
R18457		McLean	40.3155	–89.0020	03/C6270	1.5–1.6	74.76	11.34	4.22
R19592		Menard	40.0008	–89.8575	77ME0408	0.1–0.2	79.55	8.55	2.68
R19593		Menard	40.0008	–89.8575	77ME2832	0.7–0.8	75.32	10.97	3.99
R19594		Menard	39.9530	–89.9628	78ME0408	0.1–0.2	76.79	8.72	2.96
R19595		Menard	39.9530	–89.9628	78ME2832	0.7–0.8	75.81	8.95	3.13
R19554		Mercer	41.1978	–90.7437	63MR0408	0.1–0.2	71.37	10.07	3.38
R19555		Mercer	41.1978	–90.7437	63MR2832	0.7–0.8	71.19	12.54	4.75
R19700		Morgan	39.6787	–90.1930	88MG0408	0.1–0.2	72.76	9.14	2.92
R19701		Morgan	39.6787	–90.1930	88MG2832	0.7–0.8	70.46	12.84	5.26
R18794		Ogle	41.9555	–88.9560	23OG0408	0.1–0.2	78.53	9.54	2.93
R18795		Ogle	41.9555	–88.9560	23OG2832	0.7–0.8	79.32	9.56	3.55
R18796		Ogle	41.9033	–89.4035	24OG0408	0.1–0.2	81.50	7.86	2.11
R18797		Ogle	41.9033	–89.4035	24OG2832	0.7–0.8	79.86	8.85	3.42
R18640		Peoria	40.5255	–89.8732	PEO10408	0.1–0.2	74.72	9.67	4.01
R18641		Peoria	40.5255	–89.8732	PEO12832	0.7–0.8	66.28	10.69	4.28
R18642		Peoria	40.6915	–89.9042	PEO20408	0.1–0.2	75.41	10.38	3.52
R18643		Peoria	40.6915	–89.9042	PEO22832	0.7–0.8	70.84	12.94	5.30
R19538		Peoria	40.7463	–89.7733	56PA0408	0.1–0.2	56.81	17.03	7.87
R19539		Peoria	40.7463	–89.7733	56PA2832	0.7–0.8	41.97	10.57	5.50
R18691		Perry	37.9718	–89.1930	17PY0408	0.1–0.2	78.72	9.16	3.29
R18692		Perry	37.9718	–89.1930	17PY2832	0.7–0.8	74.36	11.98	4.44
R19690		Pike	39.7088	–91.1610	83PK0408	0.1–0.2	73.76	9.52	3.10
R19691		Pike	39.7088	–91.1610	83PK2832	0.7–0.8	66.31	8.98	3.10
R19692		Pike	39.5600	–90.8255	84PK0408	0.1–0.2	77.44	9.12	3.03
R19693		Pike	39.5600	–90.8255	84PK2832	0.7–0.8	71.57	12.60	5.34
R18568		Rock Island	41.4530	–90.5370	311-SI-A	0.1–0.2	73.86	9.81	3.21
R18569		Rock Island	41.4530	–90.5370	311-SI-B	0.8–0.9	76.17	11.03	3.96
R19552		Rock Island	41.4297	–90.8237	62RK0408	0.1–0.2	77.48	9.60	2.74
R19553		Rock Island	41.4297	–90.8237	62RK2832	0.7–0.8	71.88	12.69	4.93
R19556		Rock Island	41.3928	–90.6238	64RK0408	0.1–0.2	71.85	9.50	3.21
R19557		Rock Island	41.3928	–90.6238	64RK2832	0.7–0.8	70.79	13.24	4.66
R19696		Sangamon	39.5817	–89.7200	86SM0408	0.1–0.2	77.70	8.34	2.67
R19697		Sangamon	39.5817	–89.7200	86SM2832	0.7–0.8	76.25	10.73	3.88
R19706		Schuyler	40.1782	–90.5712	91SU0408	0.1–0.2	74.00	9.73	3.12
R19707		Schuyler	40.1782	–90.5712	91SU2832	0.7–0.8	70.09	13.02	5.40
R19694		Scott	39.6908	–90.4630	85SO0408	0.1–0.2	75.37	9.20	3.44
R19695		Scott	39.6908	–90.4630	85SO2832	0.7–0.8	72.27	11.97	5.17
R18817		Stark	41.1750	–89.7872	26SK0408	0.1–0.2	76.64	9.80	2.80
R18818		Stark	41.1750	–89.7872	26SK2832	0.7–0.8	71.78	13.25	4.94
R19527		Stephenson	42.2788	–89.6493	52SP0408	0.1–0.2	69.84	7.19	2.45
R19528		Stephenson	42.2788	–89.6493	52SP2832	0.7–0.8	71.69	9.51	2.99
R18636		Tazewell	40.4340	–89.3022	TAZ10408	0.1–0.2	70.02	10.31	4.03
R18637		Tazewell	40.4340	–89.3022	TAZ13034	0.7–0.8	69.08	14.26	5.54
R18823		Vermilion	40.3042	–87.8723	29VE0408	0.1–0.2	68.16	10.93	4.47
R18824		Vermilion	40.3042	–87.8723	29VE2832	0.7–0.8	59.05	13.99	5.73
R19373		Vermilion	40.4593	–87.6845	30VE0408	0.1–0.2	70.14	10.37	3.92
R19374		Vermilion	40.4593	–87.6845	30VE2832	0.7–0.8	66.02	14.74	6.26
R19375		Vermilion	40.0415	–87.6360	31VE0408	0.1–0.2	73.74	9.73	3.49
R19376	^	Vermilion	40.0415	–87.6360	31VE2832	0.7–0.8	71.80	11.80	6.06
R19558		Warren	41.0680	–90.5597	65WR0408	0.1–0.2	72.61	11.41	5.25
R19559		Warren	41.0680	–90.5597	65WR2832	0.7–0.8	73.04	11.75	5.91
R19560		Warren	40.9307	–90.6263	66WR0408	0.1–0.2	79.44	8.74	2.42
R19561		Warren	40.9307	–90.6263	66WR2832	0.7–0.8	72.24	12.40	5.00
R19379		Washington	38.4000	–89.5167	33WA0408	0.1–0.2	77.90	9.23	3.56
R19380		Washington	38.4000	–89.5167	33WA2832	0.7–0.8	70.54	12.87	5.61

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Analysis no.	County	Latitude	Longitude	Field ID	Depth (m)	SiO_2 (%)	Al_2O_3 (%)	Fe_2O_3 (%)
R19383	Washington	38.3347	–89.2382	35WA0408	0.1–0.2	81.60	8.18	2.58
R19384	Washington	38.3347	–89.2382	35WA2832	0.7–0.8	81.05	8.61	3.38
R19385	Washington	38.4270	–89.1652	36WA0408	0.1–0.2	81.25	7.54	2.47
R19386	Washington	38.4270	–89.1652	36WA2832	0.7–0.8	69.63	14.15	5.67
R19540	Whiteside	41.6730	–89.9308	57WS0408	0.1–0.2	66.61	8.99	4.20
R19541	Whiteside	41.6730	–89.9308	57WS2832	0.7–0.8	67.84	9.66	4.12
R19542	Whiteside	41.8422	–89.9662	58WS0408	0.1–0.2	76.90	9.59	3.03
R19543	Whiteside	41.8422	–89.9662	58WS2832	0.7–0.8	73.22	11.96	4.52
R19461	Will	41.4267	–87.7538	38WL0408	0.1–0.2	72.70	11.13	4.10
R19462	Will	41.4267	–87.7538	38WL2832	0.7–0.8	61.08	13.91	5.31
R19463	Will	41.5038	–87.8800	39WL0408	0.1–0.2	76.63	9.84	3.34
R19464	Will	41.5038	–87.8800	39WL2832	0.7–0.8	61.18	13.51	5.55
R18687	Williamson	37.7500	–89.1178	15WM0408	0.1–0.2	78.56	8.72	3.78
R18688	Williamson	37.7500	–89.1178	15WM2832	0.7–0.8	71.64	13.24	4.93
R19525	Winnebago	42.2772	–89.1792	51WN0408	0.1–0.2	80.22	7.98	2.73
R19526	Winnebago	42.2772	–89.1792	51WN2832	0.7–0.8	75.48	11.32	3.89
R18819	Woodford	40.7753	–89.3922	27WF0408	0.1–0.2	67.33	10.60	4.25
R18820	Woodford	40.7753	–89.3922	27WF2832	0.7–0.8	66.51	10.65	4.31
Quality control replicate samples								
R19536	Kane			REP10408	0.33	72.36	10.04	3.42
R19519		41.8633	–88.4242	48KA0408	0.33	71.93	10.30	3.44
R19537	Kane			REP12832	2.33	69.82	11.15	4.49
R19520		41.8633	–88.4242	48KA2832	2.33	69.90	11.46	4.55
R19550	Henry			REP20408	0.33	76.41	10.34	3.39
R19546		41.3157	–89.8860	60HY0408	0.33	76.29	10.34	3.38
R19551	Henry			REP22832	2.33	73.88	11.62	4.66
R19547		41.3157	–89.8860	60HY2832	2.33	73.95	11.64	4.65
R19686	Logan			REP30408	0.33	72.77	10.28	4.11
R19590		39.9772	–89.5467	76LO0408	0.33	72.98	10.18	4.08
R19687	Logan			REP32832	2.33	71.90	11.74	5.07
R19591		39.9772	–89.5467	76LO2832	2.33	72.25	11.70	5.05

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Analysis no.		County	MgO (%)	CaO (%)	Na_2O (%)	K_2O (%)	TiO_2 (%)	P_2O_5 (%)	MnO (%)	LOI (%)
R19598		Adams	0.54	0.50	0.67	1.60	0.78	0.08	0.09	4.25
R19599		Adams	0.99	0.42	0.70	2.00	0.84	0.06	0.04	4.59
R19600		Adams	0.37	0.52	0.76	1.38	0.59	0.06	0.06	3.96
R19601		Adams	0.35	0.27	0.42	0.93	0.50	0.04	0.02	2.26
R19688		Adams	1.12	0.65	0.97	2.30	0.78	0.12	0.06	4.17
R19689		Adams	1.11	0.61	1.10	2.37	0.80	0.10	0.08	3.41
R19523		Boone	0.59	0.48	1.20	2.25	0.76	0.10	0.19	3.26
R19524		Boone	1.17	0.64	1.07	2.25	0.70	0.14	0.11	3.56
R19704		Brown	0.64	0.83	1.11	2.32	0.77	0.12	0.15	4.43
R19705		Brown	1.10	0.64	0.89	2.33	0.74	0.12	0.12	4.15
R18790		Bureau	0.94	1.05	1.05	2.04	0.70	0.13	0.12	6.62
R18791		Bureau	1.06	0.87	1.19	2.06	0.70	0.12	0.11	3.50
R18815		Bureau	0.83	0.90	1.12	2.05	0.71	0.14	0.09	6.14
R18816		Bureau	1.01	0.98	1.22	1.91	0.66	0.13	0.10	3.76
R19533		Carroll	0.63	0.83	1.38	2.02	0.77	0.08	0.10	3.31
R19534		Carroll	0.84	1.00	1.58	2.10	0.74	0.13	0.08	2.29
R19702		Cass	3.13	4.59	1.16	2.12	0.56	0.13	0.07	9.31
R19703		Cass	2.61	4.13	1.12	2.03	0.52	0.09	0.06	6.56
R18524		Champaign	1.01	1.17	0.86	2.17	0.68	0.16	0.05	9.06
R18525		Champaign	1.27	0.84	0.93	2.31	0.72	0.09	0.08	4.02
R18821		Champaign	0.59	0.39	0.74	2.14	0.46	0.08	0.06	4.68
R18822		Champaign	0.98	0.23	0.68	2.69	0.49	0.05	0.06	3.15
R18446	*	Champaign (30 ft)	0.54	0.52	1.01	2.14	0.76	0.11	0.16	3.89
R18447	*	Champaign (30 ft)	1.08	0.58	0.86	2.25	0.71	0.08	0.10	4.47
R18448	*	Champaign (100 ft)	0.57	0.48	1.01	2.15	0.78	0.10	0.17	3.81
R18449	*	Champaign (100 ft)	0.93	0.51	0.89	2.27	0.58	0.07	0.08	3.20
R18450		Champaign (160 ft)	0.61	0.48	1.02	2.14	0.81	0.09	0.18	3.75
R18451		Champaign (160 ft)	1.05	0.60	1.01	2.28	0.73	0.08	0.08	3.71
R18632		Christian	0.49	0.57	1.12	1.86	0.77	0.08	0.07	4.22
R18633		Christian	1.07	0.89	1.01	1.93	0.75	0.13	0.04	3.98
R19377		Christian	0.45	0.54	1.06	2.07	0.72	0.11	0.12	5.02
R19378		Christian	0.61	0.40	0.90	2.01	0.60	0.11	0.11	3.22
R19698		Christian	0.56	0.50	1.08	2.35	0.80	0.10	0.17	3.71
R19699		Christian	1.17	0.57	0.86	2.33	0.77	0.12	0.08	4.11
R19387		Clay	0.48	0.11	0.90	1.57	0.81	0.09	0.27	4.06
R19388		Clay	1.10	0.20	0.90	1.86	0.83	0.09	0.06	4.89
R19381		Clinton	0.43	0.47	1.20	1.84	0.75	0.09	0.18	3.42
R19382		Clinton	1.32	0.83	0.97	1.97	0.72	0.06	0.14	4.55
R18634		Coles	0.70	0.56	0.78	2.22	0.57	0.15	0.08	4.35
R18635		Coles	2.30	3.05	0.67	2.69	0.55	0.07	0.07	6.77
R18792		DeKalb	0.81	0.79	0.97	2.07	0.72	0.18	0.14	5.97
R18793		DeKalb	1.02	0.62	0.85	2.08	0.68	0.11	0.15	5.82
R19467		DuPage	2.08	2.78	0.68	2.15	0.55	0.28	0.08	15.53
R19468		DuPage	1.21	1.16	0.83	2.40	0.63	0.14	0.03	9.69
R19469		DuPage	0.94	0.39	0.88	3.01	0.78	0.10	0.11	4.55
R19470		DuPage	2.01	0.67	0.67	4.01	0.72	0.11	0.09	4.66
R18693		Franklin	0.61	0.15	0.91	1.93	0.82	0.09	0.16	4.01
R18694		Franklin	0.96	0.32	1.10	1.99	0.79	0.07	0.04	3.55
R18638		Fulton	0.81	0.71	1.02	2.20	0.73	0.11	0.13	5.41
R18639		Fulton	1.08	0.75	1.10	2.28	0.72	0.13	0.08	3.30
R18644		Fulton	0.95	0.66	0.97	2.26	0.76	0.13	0.09	4.53
R18645		Fulton	3.25	4.55	1.33	2.05	0.69	0.13	0.09	7.37
R19580		Grundy	0.51	0.49	0.60	2.12	0.57	0.17	0.06	6.54
R19581		Grundy	0.29	0.26	0.51	2.11	0.52	0.13	0.16	3.70
R19566		Hancock	0.58	1.02	1.23	1.88	0.77	0.08	0.10	4.52
R19567		Hancock	1.32	0.93	1.10	1.90	0.73	0.12	0.34	4.63
R19568		Hancock	0.45	0.83	1.36	2.09	0.75	0.09	0.17	2.83
R19569		Hancock	1.02	0.85	1.26	2.06	0.69	0.13	0.06	3.26
R19562		Henderson	0.83	2.05	1.18	1.77	0.51	0.16	0.06	6.46

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Analysis no.		County	MgO (%)	CaO (%)	Na_2O (%)	K_2O (%)	TiO_2 (%)	P_2O_5 (%)	MnO (%)	LOI (%)
R19563		Henderson	0.73	1.06	1.31	1.86	0.57	0.11	0.06	2.70
R19544		Henry	0.60	0.73	1.01	1.91	0.66	0.15	0.12	5.30
R19545		Henry	1.01	0.71	1.08	1.90	0.65	0.09	0.07	3.66
R19546		Henry	0.71	0.61	1.11	2.17	0.76	0.07	0.11	3.77
R19547		Henry	0.99	0.78	1.18	2.22	0.77	0.12	0.06	3.27
R19548		Henry	1.04	1.00	1.15	2.10	0.72	0.12	0.10	4.99
R19549		Henry	1.24	1.38	1.20	2.14	0.71	0.13	0.09	3.30
R18689		Jackson	0.57	0.43	0.95	1.95	0.77	0.15	0.22	4.07
R18690		Jackson	1.02	0.32	1.07	2.09	0.76	0.12	0.07	3.62
R19529		Jo Daviess	0.58	0.50	1.21	2.12	0.77	0.10	0.13	3.22
R19530		Jo Daviess	1.00	0.48	1.00	2.31	0.82	0.11	0.10	3.22
R19531		Jo Daviess	1.11	1.01	1.11	2.06	0.70	0.09	0.12	4.67
R19532		Jo Daviess	1.43	0.77	1.05	2.08	0.70	0.11	0.06	4.11
R19519		Kane	0.85	0.80	0.88	1.99	0.69	0.13	0.12	8.36
R19520		Kane	1.93	1.87	0.88	2.29	0.60	0.07	0.10	5.51
R19582		Kane	1.54	1.86	0.84	2.24	0.69	0.16	0.11	10.14
R19583		Kane	7.75	11.21	0.63	1.54	0.36	0.10	0.08	18.85
R19473		Kankakee	0.50	0.54	0.69	1.64	0.38	0.13	0.09	4.85
R19474		Kankakee	0.47	0.21	0.63	1.53	0.30	0.05	0.04	2.16
R19465		Kendall	1.07	0.82	0.86	2.28	0.73	0.15	0.09	8.25
R19466		Kendall	1.37	1.03	1.04	2.20	0.73	0.13	0.07	4.33
R19586		Knox	0.75	0.89	1.01	2.31	0.74	0.19	0.18	7.78
R19587		Knox	0.95	0.67	0.98	2.31	0.76	0.10	0.14	5.19
R19588		Knox	0.82	1.12	1.04	1.96	0.71	0.13	0.10	7.61
R19589		Knox	1.28	0.96	1.02	2.02	0.72	0.10	0.11	4.48
R19584		LaSalle	0.87	0.99	0.85	1.76	0.69	0.12	0.03	7.66
R19585		LaSalle	0.43	0.17	0.98	1.93	0.79	0.05	0.07	3.01
R19471		Lake	0.99	0.61	0.86	2.34	0.61	0.08	0.15	3.80
R19472		Lake	2.76	2.92	0.72	2.67	0.48	0.10	0.18	6.93
R19475		Lake	1.28	0.72	0.67	3.22	0.73	0.10	0.09	7.18
R19476		Lake	6.59	9.80	0.51	2.88	0.54	0.08	0.09	16.21
R19477		Lake	2.18	0.62	0.58	3.98	0.71	0.09	0.12	5.22
R19478		Lake	6.74	11.35	0.56	2.81	0.50	0.08	0.08	17.21
R18788		Livingston	1.18	1.03	0.72	2.55	0.68	0.18	0.07	8.08
R18789		Livingston	1.34	0.77	0.77	2.67	0.72	0.10	0.11	4.49
R18458	#	Logan	1.23	2.60	0.91	2.01	0.65	0.14	0.13	8.85
R18459	#	Logan	1.91	2.18	1.14	2.28	0.70	0.13	0.09	5.05
R19590		Logan	0.82	0.85	0.87	2.35	0.73	0.19	0.11	5.97
R19591		Logan	1.04	0.62	0.89	2.46	0.73	0.10	0.10	4.45
R18630		Macon	0.86	1.10	0.88	2.07	0.71	0.12	0.10	7.31
R18631		Macon	2.06	2.61	0.83	2.16	0.70	0.08	0.13	6.53
R18695		Marion	0.33	0.58	0.98	1.55	0.74	0.21	0.12	3.66
R18696		Marion	0.86	0.33	0.78	1.46	0.76	0.10	0.04	5.32
R19596		Mason	0.20	0.42	0.59	1.24	0.18	0.05	0.04	1.18
R19597		Mason	0.19	0.40	0.61	1.27	0.17	0.04	0.03	0.59
R19564		McDonough	0.47	0.64	1.20	2.05	0.78	0.09	0.20	3.66
R19565		McDonough	1.34	0.68	0.87	1.95	0.72	0.11	0.12	4.86
R19479		McHenry	0.56	0.35	0.87	2.20	0.59	0.07	0.11	2.66
R19480		McHenry	2.90	2.71	0.65	2.77	0.56	0.11	0.08	6.76
R19521		McHenry	0.74	0.61	0.72	2.33	0.49	0.12	0.07	4.95
R19522		McHenry	6.33	9.49	0.62	2.34	0.37	0.09	0.05	14.88
R18452		McLean	0.75	0.80	0.91	2.22	0.74	0.22	0.13	6.74
R18453		McLean	1.18	0.66	0.92	2.26	0.75	0.07	0.10	4.67
R18454		McLean	0.66	0.63	0.93	2.13	0.67	0.12	0.09	4.94
R18455	&	McLean	1.08	1.54	0.79	1.81	0.36	0.08	0.04	3.96
R18456	&	McLean	0.73	0.49	0.90	2.40	0.77	0.19	0.20	6.36
R18457		McLean	0.86	0.42	0.92	2.38	0.78	0.16	0.24	4.04
R19592		Menard	0.49	0.73	1.18	2.40	0.77	0.08	0.08	3.29
R19593		Menard	0.82	0.70	1.20	2.31	0.79	0.07	0.06	2.88

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Analysis no.		County	MgO (%)	CaO (%)	Na_2O (%)	K_2O (%)	TiO_2 (%)	P_2O_5 (%)	MnO (%)	LOI (%)
R19594		Menard	0.86	1.21	1.08	2.16	0.67	0.13	0.08	5.19
R19595		Menard	1.06	1.42	1.13	2.20	0.68	0.12	0.09	4.85
R19554		Mercer	0.74	0.87	1.05	2.07	0.71	0.17	0.12	8.83
R19555		Mercer	1.17	0.78	1.00	2.09	0.73	0.10	0.10	5.00
R19700		Morgan	0.74	1.03	0.96	2.17	0.73	0.16	0.15	8.62
R19701		Morgan	1.23	0.62	0.81	2.13	0.73	0.08	0.09	5.50
R18794		Ogle	0.64	0.51	0.95	2.14	0.66	0.19	0.14	3.39
R18795		Ogle	0.78	0.38	0.82	1.95	0.50	0.09	0.06	2.77
R18796		Ogle	0.47	0.44	1.05	2.05	0.66	0.14	0.14	3.24
R18797		Ogle	0.72	0.40	0.70	1.71	0.49	0.13	0.07	2.63
R18640		Peoria	0.70	0.72	0.91	2.11	0.64	0.16	0.13	5.97
R18641		Peoria	1.17	6.08	0.78	2.23	0.59	0.16	0.11	7.87
R18642		Peoria	0.72	0.61	1.06	2.19	0.80	0.13	0.14	4.45
R18643		Peoria	1.20	0.57	0.97	2.19	0.77	0.09	0.09	3.96
R19538		Peoria	1.74	1.20	0.98	3.14	0.87	0.24	0.17	8.70
R19539		Peoria	3.33	15.40	0.59	2.45	0.58	0.27	0.27	17.62
R18691		Perry	0.55	0.52	0.95	1.60	0.78	0.08	0.18	4.20
R18692		Perry	0.92	0.59	1.21	2.03	0.78	0.07	0.05	3.32
R19690		Pike	1.60	2.65	1.63	1.99	0.63	0.13	0.08	4.36
R19691		Pike	3.37	5.50	1.47	1.92	0.58	0.16	0.08	7.63
R19692		Pike	0.62	1.18	1.12	2.13	0.78	0.09	0.12	3.90
R19693		Pike	1.13	0.58	1.04	2.19	0.79	0.11	0.05	3.92
R18568		Rock Island	0.75	1.54	0.89	1.80	0.67	0.15	0.06	7.81
R18569		Rock Island	0.73	0.80	0.96	1.95	0.77	0.08	0.13	3.52
R19552		Rock Island	0.63	0.68	1.26	2.26	0.77	0.10	0.20	3.39
R19553		Rock Island	1.22	0.76	1.11	2.11	0.70	0.13	0.08	3.70
R19556		Rock Island	0.71	1.20	1.05	2.04	0.71	0.15	0.16	8.74
R19557		Rock Island	1.29	0.84	1.00	2.02	0.71	0.09	0.08	4.60
R19696		Sangamon	0.53	0.81	1.04	2.13	0.74	0.13	0.13	5.16
R19697		Sangamon	0.77	0.67	0.92	1.87	0.66	0.07	0.08	3.61
R19706		Schuyler	0.79	0.95	0.98	2.10	0.75	0.15	0.12	6.65
R19707		Schuyler	1.32	0.79	0.90	2.01	0.74	0.08	0.12	4.94
R19694		Scott	0.67	0.85	1.04	2.31	0.77	0.13	0.13	5.10
R19695		Scott	1.11	0.66	0.97	2.47	0.79	0.12	0.10	4.01
R18817		Stark	0.65	0.60	1.16	2.28	0.78	0.13	0.26	4.43
R18818		Stark	1.18	0.61	1.03	2.11	0.72	0.13	0.08	3.72
R19527		Stephenson	2.83	4.34	0.85	1.69	0.47	0.20	0.09	9.40
R19528		Stephenson	1.82	2.53	1.07	1.99	0.65	0.16	0.10	7.18
R18636		Tazewell	0.92	0.84	0.88	2.11	0.70	0.13	0.14	9.49
R18637		Tazewell	1.39	0.52	0.74	2.04	0.74	0.08	0.07	5.32
R18823		Vermilion	1.36	1.21	0.70	2.68	0.74	0.12	0.11	9.25
R18824		Vermilion	3.72	3.29	0.61	3.52	0.72	0.08	0.10	8.29
R19373		Vermilion	1.01	0.77	0.66	2.77	0.72	0.12	0.10	8.79
R19374		Vermilion	1.91	0.31	0.50	4.18	0.79	0.06	0.10	4.55
R19375		Vermilion	0.71	0.80	0.96	2.07	0.73	0.12	0.12	7.06
R19376	^	Vermilion	1.13	0.81	1.02	2.18	0.71	0.11	0.11	3.93
R19558		Warren	0.78	0.47	0.73	1.80	0.66	0.10	0.09	5.52
R19559		Warren	0.90	0.50	0.84	1.97	0.66	0.11	0.12	4.04
R19560		Warren	0.54	0.73	1.30	2.17	0.78	0.07	0.15	3.09
R19561		Warren	1.16	0.67	1.10	2.16	0.74	0.14	0.10	3.74
R19379		Washington	0.52	0.73	1.33	1.68	0.74	0.11	0.15	3.69
R19380		Washington	1.12	0.90	1.66	2.05	0.72	0.16	0.23	3.72
R19383		Washington	0.39	0.33	1.05	1.64	0.72	0.08	0.13	2.91
R19384		Washington	0.42	0.27	0.89	1.56	0.67	0.08	0.13	2.50
R19385		Washington	0.35	0.46	1.05	1.51	0.76	0.12	0.19	3.92
R19386		Washington	1.08	0.44	1.07	1.75	0.75	0.10	0.11	4.78
R19540		Whiteside	1.98	4.24	0.98	1.80	0.58	0.22	0.10	9.80
R19541		Whiteside	1.81	3.38	0.96	1.93	0.62	0.20	0.11	8.75
R19542		Whiteside	0.70	0.87	1.32	2.17	0.75	0.12	0.16	3.80

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Analysis no.	County	MgO (%)	CaO (%)	Na_2O (%)	K_2O (%)	TiO_2 (%)	P_2O_5 (%)	MnO (%)	LOI (%)
R19543	Whiteside	1.05	0.86	1.22	2.12	0.70	0.16	0.09	3.56
R19461	Will	0.95	0.45	0.78	2.72	0.72	0.11	0.10	5.97
R19462	Will	3.11	3.45	0.69	3.33	0.66	0.08	0.08	7.64
R19463	Will	0.76	0.29	0.85	2.66	0.76	0.10	0.13	4.23
R19464	Will	3.27	3.38	0.66	3.53	0.65	0.08	0.09	7.97
R18687	Williamson	0.48	0.19	1.05	1.83	0.79	0.13	0.30	3.28
R18688	Williamson	1.02	0.25	1.08	2.05	0.77	0.11	0.05	3.83
R19525	Winnebago	0.55	0.35	0.68	1.73	0.55	0.09	0.09	4.54
R19526	Winnebago	0.86	0.44	0.87	1.96	0.69	0.08	0.08	3.69
R18819	Woodford	2.61	3.44	0.93	2.23	0.67	0.09	0.09	7.48
R18820	Woodford	2.77	3.95	0.94	2.35	0.64	0.10	0.09	7.28
Quality control replicate samples									
R19536	Kane	0.88	0.94	0.85	2.02	0.69	0.13	0.12	8.08
R19519		0.85	0.80	0.88	1.99	0.69	0.13	0.12	8.36
R19537	Kane	2.04	2.00	0.86	2.29	0.60	0.07	0.10	5.92
R19520		1.93	1.87	0.88	2.29	0.60	0.07	0.10	5.51
R19550	Henry	0.71	0.61	1.09	2.17	0.77	0.07	0.11	3.86
R19546		0.71	0.61	1.11	2.17	0.76	0.07	0.11	3.77
R19551	Henry	0.99	0.78	1.16	2.21	0.76	0.11	0.06	3.41
R19547		0.99	0.78	1.18	2.22	0.77	0.12	0.06	3.27
R19686	Logan	0.86	0.86	0.89	2.36	0.73	0.20	0.11	5.91
R19590		0.82	0.85	0.87	2.35	0.73	0.19	0.11	5.97
R19687	Logan	1.08	0.62	0.92	2.49	0.74	0.09	0.10	4.40
R19591		1.04	0.62	0.89	2.46	0.73	0.10	0.10	4.45

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Analysis no.		County	Tot. C (%)	Inc. C (%)	Org. C (%)	Ag	As	B	Ba	Be	Br	Cd	Ce	Co	Cr
R19598		Adams	0.98	0.02	0.96	<1	7.4	27	365	1.0	4.5	<4	71	12.0	56
R19599		Adams	0.40	0.01	0.39	<1	9.6	37	420	1.2	2.4	<4	79	12.0	74
R19600		Adams	1.58	0.02	1.56	<1	4.5	23	410	1.1	6.1	<4	53	7.2	42
R19601		Adams	0.35	0.01	0.34	<1	5.5	33	245	<1	3.0	<4	44	5.5	44
R19688		Adams	0.67	0.03	0.64	<1	13.0	32	605	1.6	2.2	<3	74	12.0	69
R19689		Adams	0.44	0.02	0.42	<1	12.0	30	605	1.4	2.0	<3	84	14.0	70
R19523		Boone	1.07	0.04	1.03	<1	5.2	58	725	1.7	3.5	<3	66	12.0	54
R19524		Boone	0.30	0.03	0.27	<1	12.0	62	665	2.3	2.0	<3	81	13.0	69
R19704		Brown	1.52	0.06	1.46	<1	8.2	37	640	1.4	6.1	<3	76	13.0	59
R19705		Brown	0.58	0.02	0.56	<1	16.0	24	530	1.4	5.4	<3	80	14.0	72
R18790		Bureau	2.39	0.21	2.18	<1	9.5	54	690	1.5	10.0	<3	72	11.0	61
R18791		Bureau	0.48	0.23	0.25	<1	12.0	48	635	1.9	6.1	<3	78	12.0	69
R18815		Bureau	2.16	0.21	1.95	<1	9.2	59	660	1.1	8.7	<3	66	9.9	60
R18816		Bureau	0.49	0.13	0.36	<1	21.0	50	610	1.8	6.2	<3	85	14.0	67
R19533		Carroll	0.91	0.02	0.89	<1	7.5	41	655	1.2	3.5	<2	65	8.4	59
R19534		Carroll	0.70	0.02	0.68	<1	7.9	39	650	1.4	1.6	<2	71	9.8	62
R19702		Cass	3.15	1.49	1.66	<1	5.3	17	410	1.0	10.0	<3	47	6.5	45
R19703		Cass	2.71	1.28	1.43	<1	5.3	27	450	1.2	5.4	<3	46	7.1	46
R18524		Champaign	3.64	0.10	3.54	<1	8.1	44	562	1.0	9.0	<3	70	7.8	59
R18525		Champaign	0.65	0.11	0.54	<1	8.4	52	619	1.2	2.0	<4	80	11.0	68
R18821		Champaign	1.87	0.16	1.71	<1	6.8	40	470	1.0	7.1	<3	46	7.9	39
R18822		Champaign	0.66	0.16	0.50	<1	8.9	50	405	1.1	3.7	<3	55	10.0	51
R18446	*	Champaign (30 ft)	1.34	0.08	1.26	<1	6.8	58	585	<1	4.4	<4	71	13.0	55
R18447	*	Champaign (30 ft)	0.61	0.07	0.54	<1	15.0	58	582	<1	4.0	<3	79	13.0	69
R18448	*	Champaign (100 ft)	1.10	0.12	0.98	<1	8.2	61	629	1.0	3.7	<4	74	15.0	58
R18449	*	Champaign (100 ft)	0.34	0.15	0.19	<1	12.0	57	494	1.0	2.0	<4	62	11.0	58
R18450		Champaign (160 ft)	1.10	0.08	1.02	<1	8.2	49	655	<1	3.5	<4	74	14.0	56
R18451		Champaign (160 ft)	0.34	0.12	0.22	<1	15.0	58	535	1.2	3.0	<4	73	11.0	64
R18632		Christian	1.38	0.10	1.28	<1	7.5	56	610	<1	5.8	<2	66	8.3	53
R18633		Christian	0.34	0.09	0.25	<1	11.0	50	670	1.0	3.0	<2	75	7.6	75
R19377		Christian	1.17	0.04	1.13	<1	7.0	49	580	<1	5.0	<3	67	8.6	49
R19378		Christian	0.72	0.02	0.70	<1	8.3	36	700	<1	4.4	<3	56	10.0	47
R19698		Christian	1.10	0.03	1.07	<1	7.9	50	640	1.5	4.6	<3	79	14.0	60
R19699		Christian	0.33	0.02	0.31	<1	16.0	40	580	1.5	1.7	<3	86	15.0	75
R19387		Clay	1.04	0.02	1.02	<1	13.0	51	620	1.4	3.9	<3	74	16.0	58
R19388		Clay	0.61	0.02	0.59	<1	12.0	48	510	2.0	4.6	<3	77	11.0	74
R19381		Clinton	1.12	0.02	1.10	<1	7.7	51	685	1.1	5.9	<3	70	9.7	53
R19382		Clinton	0.58	0.06	0.52	<1	13.0	52	770	1.6	3.1	<3	79	15.0	75
R18634		Coles	1.43	0.15	1.28	<1	9.4	52	470	<1	6.2	<2	61	9.7	53
R18635		Coles	1.42	1.04	0.38	<1	11.0	70	390	<1	5.8	<2	64	10.0	55
R18792		DeKalb	2.07	0.16	1.91	<1	8.2	51	660	2.3	8.8	<3	69	11.0	56
R18793		DeKalb	1.70	0.13	1.57	<1	11.0	57	600	1.6	15.0	<3	75	16.0	62
R19467		DuPage	7.52	0.60	6.92	<1	17.0	68	440	2.0	10.0	<3	61	13.0	58
R19468		DuPage	4.42	0.06	4.36	<1	12.0	62	545	2.2	4.0	<3	64	9.2	64
R19469		DuPage	1.89	0.03	1.86	<1	9.5	59	625	1.6	5.1	<3	69	16.0	59
R19470		DuPage	1.22	0.08	1.14	<1	15.0	79	535	2.8	4.0	<3	80	19.0	80
R18693		Franklin	1.06	0.04	1.02	<1	10.0	47	605	1.0	3.5	<2.5	77	14.0	61
R18694		Franklin	0.27	0.18	0.09	<1	11.0	42	655	1.1	2.3	<2.5	78	8.2	68
R18638		Fulton	1.71	0.15	1.56	<1	11.0	44	630	<1	7.0	<2.5	78	12.0	59
R18639		Fulton	0.42	0.21	0.21	<1	15.0	45	530	<1	4.1	<2.5	77	11.0	67
R18644		Fulton	0.78	0.10	0.68	<1	14.0	56	550	1.2	3.0	<2.5	80	13.0	65
R18645		Fulton	—	1.67	—	<1	8.8	33	520	1.0	3.0	<2.6	63	9.1	55
R19580		Grundy	2.80	0.03	2.77	<1	9.7	21	400	1.1	12.0	<4	59	8.1	40
R19581		Grundy	0.65	0.02	0.63	<1	14.0	39	325	1.2	3.6	<4	57	17.0	34
R19566		Hancock	1.51	0.05	1.46	<1	7.8	47	595	1.7	6.0	<2	72	8.7	58
R19567		Hancock	0.48	0.02	0.46	<1	14.0	49	705	1.4	1.0	<2	104	19.0	77
R19568		Hancock	0.86	0.02	0.84	<1	5.4	37	570	1.2	2.5	<3	68	9.4	55
R19569		Hancock	0.31	0.02	0.29	<1	13.0	45	545	1.5	1.0	<2	72	8.8	65
R19562		Henderson	2.47	0.27	2.20	<1	3.1	25	445	1.0	8.4	<2	50	6.2	45

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Analysis no.		County	Tot. C (%)	Inc. C (%)	Org. C (%)	Ag	As	B	Ba	Be	Br	Cd	Ce	Co	Cr
R19563		Henderson	0.60	0.02	0.58	<1	3.3	29	455	1.1	3.4	<3	57	7.1	56
R19544		Henry	1.80	0.04	1.76	<1	7.0	38	585	1.0	7.6	<2	61	8.7	53
R19545		Henry	0.43	0.03	0.40	<1	11.0	45	570	1.3	4.2	<2	66	11.0	67
R19546		Henry	0.83	0.03	0.80	<1	8.5	32	565	1.0	3.9	<2	73	12.0	64
R19547		Henry	0.30	0.02	0.28	<1	11.0	31	505	1.1	1.8	<3	75	11.0	66
R19548		Henry	1.24	0.03	1.21	<1	13.0	42	575	1.0	4.1	<2	80	12.0	68
R19549		Henry	0.49	0.20	0.29	<1	11.0	46	565	<1	2.0	<3	74	11.0	63
R18689		Jackson	1.26	0.07	1.19	<1	8.7	43	675	1.3	4.5	<2.5	79	14.0	59
R18690		Jackson	0.34	0.30	0.04	<1	14.0	42	575	1.1	2.0	<2.5	69	9.1	71
R19529		Jo Daviess	0.99	0.03	0.96	<1	5.4	43	720	1.8	3.5	<2	65	10.0	54
R19530		Jo Daviess	0.28	0.02	0.26	<1	11.0	40	600	1.8	2.4	<3	76	12.0	62
R19531		Jo Daviess	1.19	0.16	1.03	<1	8.1	43	590	1.5	3.0	<2	64	13.0	63
R19532		Jo Daviess	0.37	0.03	0.34	<1	10.0	49	700	2.1	1.0	<2	80	11.0	73
R19519		Kane	3.48	0.03	3.45	<1	7.5	43	630	1.4	13.0	<2	66	9.6	56
R19520		Kane	1.26	0.49	0.77	<1	10.0	51	595	2.2	7.3	<2	68	12.0	63
R19582		Kane	4.09	0.30	3.79	<1	9.1	48	515	1.3	12.0	<4	69	11.0	61
R19583		Kane	5.42	4.43	0.99	<1	9.2	22	270	1.0	7.4	<4	35	7.8	36
R19473		Kankakee	2.05	0.05	2.00	<1	6.6	32	440	1.0	7.0	<3	39	7.4	34
R19474		Kankakee	0.55	0.03	0.52	<1	8.0	32	325	1.1	3.7	<3	29	5.7	37
R19465		Kendall	3.16	0.05	3.11	<1	12.0	51	575	1.7	11.0	<3	74	12.0	61
R19466		Kendall	0.98	0.03	0.95	<1	8.3	67	610	2.2	4.0	<3	77	11.0	72
R19586		Knox	3.15	0.02	3.13	<1	8.3	46	700	1.3	11.0	<4	72	11.0	58
R19587		Knox	1.31	0.02	1.29	<1	11.0	49	695	1.2	11.0	<4	79	14.0	69
R19588		Knox	2.95	0.03	2.92	<1	6.7	44	630	1.4	10.0	<4	72	7.6	61
R19589		Knox	0.62	0.02	0.60	<1	9.8	52	530	1.3	3.5	<4	80	14.0	74
R19584		LaSalle	3.14	0.30	2.84	<1	8.1	37	290	1.2	4.8	<4	53	4.7	40
R19585		LaSalle	0.51	0.03	0.48	<1	9.9	53	290	1.3	1.5	<4	70	7.4	44
R19471		Lake	1.03	0.03	1.00	<1	12.0	68	395	1.6	6.2	<3	60	13.0	61
R19472		Lake	1.71	1.01	0.70	<1	16.0	57	310	1.9	5.6	<3	57	12.0	59
R19475		Lake	2.65	0.09	2.56	<1	8.7	69	475	1.8	9.4	<2	66	15.0	63
R19476		Lake	4.13	3.62	0.51	<1	9.7	59	310	1.2	4.0	<3	53	13.0	56
R19477		Lake	0.91	0.05	0.86	<1	14.0	67	495	2.8	6.0	<3	86	19.0	88
R19478		Lake	4.40	4.06	0.34	<1	8.6	67	330	1.9	2.4	<3	52	13.0	55
R18788		Livingston	3.06	0.18	2.88	<1	8.2	70	530	1.6	7.5	<3.5	69	9.3	61
R18789		Livingston	1.13	0.19	0.94	<1	8.8	63	530	2.2	3.0	<3	75	12.0	66
R18458	#	Logan	3.80	0.50	3.30	<1	14.0	71	645	1.6	15.0	<4	66	12.0	61
R18459	#	Logan	1.00	0.56	0.44	<1	12.0	47	536	1.0	5.3	<4	77	12.0	65
R19590		Logan	1.94	0.03	1.91	<1	14.0	44	520	1.2	12.0	<4	76	12.0	63
R19591		Logan	0.76	0.03	0.73	<1	14.0	54	500	1.4	13.0	<4	77	12.0	68
R18630		Macon	2.90	0.18	2.72	<1	9.5	59	600	<1	10.0	<2	69	9.0	60
R18631		Macon	1.32	0.71	0.61	<1	13.0	56	580	<1	5.1	<2	76	13.0	66
R18695		Marion	1.09	0.19	0.90	<1	6.0	38	620	<1	4.7	<2.5	61	5.9	45
R18696		Marion	0.63	0.13	0.50	<1	9.8	48	485	<1	2.3	<2.5	65	7.4	71
R19596		Mason	0.50	0.02	0.48	<1	1.6	20	245	<1	2.2	<4	16	2.8	19
R19597		Mason	0.20	0.01	0.19	<1	1.9	<10	220	1.1	<2	<3	17	2.6	13
R19564		McDonough	1.27	0.03	1.24	<1	7.7	25	715	1.6	4.9	<2	68	7.8	52
R19565		McDonough	0.48	0.03	0.45	<1	16.0	48	585	1.9	1.0	<2	81	20.0	80
R19479		McHenry	0.86	0.03	0.83	<1	4.4	55	455	1.5	2.7	<2	49	10.0	44
R19480		McHenry	1.32	0.97	0.35	<1	8.5	56	445	1.9	3.7	<3	61	12.0	62
R19521		McHenry	1.88	0.04	1.84	<1	4.9	39	500	1.7	7.8	<3	48	7.8	41
R19522		McHenry	3.95	3.70	0.25	<1	3.4	47	310	1.3	5.7	<3	40	6.4	34
R18452		McLean	2.46	0.13	2.33	<1	10.4	50	656	1.0	11.0	<4	72	12.0	56
R18453		McLean	0.68	0.10	0.58	<1	14.0	54	615	1.2	6.8	<4	90	13.0	71
R18454		McLean	1.59	0.10	1.49	<1	8.6	50	613	<1	6.5	<4	64	8.8	54
R18455	&	McLean	1.06	0.48	0.58	<1	7.1	30	318	<1	7.6	<4	43	6.7	31
R18456	&	McLean	2.07	0.08	1.99	<1	9.6	42	814	1.0	16.0	<4	78	12.0	56
R18457		McLean	0.70	0.05	0.65	<1	12.7	46	739	1.0	7.3	<4	81	15.0	59
R19592		Menard	1.03	0.02	1.01	<1	6.3	43	490	1.2	3.0	<4	63	9.1	56
R19593		Menard	0.28	0.02	0.26	<1	8.1	46	480	1.2	2.3	<4	70	11.0	58

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Analysis no.		County	Tot. C (%)	Inc. C (%)	Org. C (%)	Ag	As	B	Ba	Be	Br	Cd	Ce	Co	Cr
R19594		Menard	1.70	0.14	1.56	<1	7.2	54	480	1.2	6.9	<4	63	7.6	53
R19595		Menard	1.59	0.20	1.39	<1	7.8	40	500	1.1	8.9	<4	65	8.4	53
R19554		Mercer	3.58	0.05	3.53	<1	8.7	38	600	1.2	13.0	<2	68	9.2	56
R19555		Mercer	0.87	0.03	0.84	<1	13.0	35	620	1.5	7.5	<2	70	11.0	68
R19700		Morgan	3.61	0.03	3.58	<1	9.3	28	650	1.1	15.0	<3	73	9.8	58
R19701		Morgan	1.03	0.03	1.00	<1	14.0	38	570	1.1	8.0	<3	75	14.0	74
R18794		Ogle	2.83	0.15	2.68	<1	6.4	47	620	1.3	8.7	<3	60	9.8	50
R18795		Ogle	0.45	0.09	0.36	<1	9.2	50	560	1.0	3.7	<3	53	8.4	48
R18796		Ogle	1.23	0.16	1.07	<1	3.9	45	655	1.1	3.4	<3	55	8.2	48
R18797		Ogle	0.36	0.07	0.29	<1	7.9	42	470	1.0	3.2	<3	56	8.3	51
R18640		Peoria	2.60	0.22	2.38	<1	8.9	42	480	1.2	4.7	<2.4	67	11.0	62
R18641		Peoria	2.07	1.47	0.60	<1	8.5	46	360	1.4	2.5	<2.6	61	12.0	66
R18642		Peoria	1.23	0.05	1.18	<1	9.9	45	710	1.0	6.2	<2.5	75	14.0	61
R18643		Peoria	0.56	0.12	0.44	<1	15.0	53	640	1.3	3.6	<2.6	81	13.0	71
R19538		Peoria	2.86	0.16	2.70	<1	17.0	63	490	1.4	2.9	<2	87	21.0	91
R19539		Peoria	4.54	3.85	0.69	<1	8.6	57	210	1.1	1.0	<2	63	12.0	67
R18691		Perry	1.07	0.22	0.85	<1	11.0	57	510	1.2	5.6	<2.5	69	14.0	63
R18692		Perry	0.40	0.13	0.27	<1	11.0	49	640	1.5	2.5	<2.7	89	8.6	66
R19690		Pike	1.07	0.53	0.54	<1	6.3	32	520	1.2	5.7	<3	63	7.8	57
R19691		Pike	1.80	1.66	0.14	<1	6.9	36	540	1.5	3.1	<3	59	8.1	51
R19692		Pike	1.05	0.12	0.93	<1	7.7	34	585	1.7	3.7	<3	70	12.0	59
R19693		Pike	0.38	0.03	0.35	<1	14.0	33	490	1.2	2.0	<3	72	9.4	70
R18568		Rock Island	3.02	0.16	2.86	<1	5.1	45	462	<1	9.4	<1.1	64	7.6	55
R18569		Rock Island	0.60	0.11	0.49	<1	7.4	46	545	<1	2.7	<0.7	81	15.0	65
R19552		Rock Island	0.93	0.04	0.89	<1	7.0	42	690	1.4	3.0	<2	71	13.0	56
R19553		Rock Island	0.26	0.05	0.21	<1	13.0	37	625	1.2	1.0	<3	78	12.0	70
R19556		Rock Island	3.54	0.06	3.48	<1	8.7	38	630	1.5	12.0	<2	65	9.8	53
R19557		Rock Island	0.63	0.04	0.59	<1	11.0	32	570	1.6	3.2	<2	73	12.0	73
R19696		Sangamon	2.02	0.02	2.00	<1	5.6	39	555	1.6	8.2	<3	65	9.4	51
R19697		Sangamon	0.47	0.02	0.45	<1	8.2	34	450	<1	5.3	<3	68	9.8	61
R19706		Schuyler	2.44	0.03	2.41	<1	8.8	38	640	<1	11.0	<3	73	11.0	58
R19707		Schuyler	0.59	0.02	0.57	<1	15.0	33	660	1.6	5.6	<3	75	13.0	70
R19694		Scott	1.86	0.03	1.83	<1	10.0	40	615	<1	7.4	<3	75	11.0	60
R19695		Scott	0.46	0.01	0.45	<1	14.0	45	515	1.3	5.8	<3	85	12.0	70
R18817		Stark	1.48	0.12	1.36	<1	7.2	30	805	<1	5.4	<3	71	13.0	56
R18818		Stark	0.32	0.09	0.23	<1	14.0	40	710	1.1	2.5	<3	83	13.0	70
R19527		Stephenson	3.06	1.46	1.60	<1	5.3	39	480	1.8	5.5	<2	52	7.4	42
R19528		Stephenson	2.34	0.66	1.68	<1	6.0	35	625	1.3	6.3	<3	66	7.9	53
R18636		Tazewell	4.72	0.24	4.48	<1	12.0	64	680	<1	11.0	<2.4	71	12.0	58
R18637		Tazewell	0.75	0.14	0.61	<1	15.0	53	620	<1	5.1	<2.5	73	11.0	75
R18823		Vermilion	3.70	0.19	3.51	<1	11.0	67	515	1.5	9.8	<3	72	14.0	63
R18824		Vermilion	1.65	1.45	0.20	<1	12.0	79	470	1.7	3.3	<3	74	16.0	73
R19373		Vermilion	3.55	0.06	3.49	<1	10.0	36	535	1.2	11.0	<3	66	13.0	56
R19374		Vermilion	0.74	0.05	0.69	<1	14.0	61	510	1.6	4.6	<3	80	18.0	78
R19375		Vermilion	3.04	0.03	3.01	<1	11.0	29	605	1.1	9.0	<3	70	10.7	53
R19376	^	Vermilion	0.72	0.02	0.70	<1	46.0	46	580	1.1	4.4	<3	78	14.0	63
R19558		Warren	1.29	0.03	1.26	<1	13.0	42	420	1.5	6.5	<2	71	14.0	64
R19559		Warren	0.49	0.03	0.46	<1	14.0	45	390	1.7	2.0	<2	69	14.0	61
R19560		Warren	0.90	0.03	0.87	<1	6.1	31	595	1.0	3.4	<2	67	11.0	58
R19561		Warren	0.38	0.02	0.36	<1	14.0	27	555	1.0	2.2	<3	84	15.0	71
R19379		Washington	1.01	0.05	0.96	<1	11.0	38	690	<1	4.7	<3	77	11.0	59
R19380		Washington	0.39	0.10	0.29	<1	12.0	43	935	1.2	2.0	<3	79	15.0	68
R19383		Washington	0.81	0.02	0.79	<1	7.5	39	500	1.0	4.1	<3	66	9.1	47
R19384		Washington	0.58	0.03	0.55	<1	9.7	34	435	<1	2.0	<3	58	13.0	47
R19385		Washington	1.42	0.02	1.40	<1	14.0	55	555	1.3	6.5	<3	64	9.3	51
R19386		Washington	0.52	0.03	0.49	<1	15.0	48	915	1.5	2.5	<3	64	9.8	71
R19540		Whiteside	3.14	1.00	2.14	<1	8.3	57	440	1.0	6.0	<2	56	8.7	61
R19541		Whiteside	2.93	0.76	2.17	<1	8.9	49	505	1.2	6.4	<2	61	9.2	61
R19542		Whiteside	1.02	0.07	0.95	<1	7.4	53	650	1.2	3.4	<3	67	10.4	60

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Analysis no.	County	Tot. C (%)	Inc. C (%)	Org. C (%)	Ag	As	B	Ba	Be	Br	Cd	Ce	Co	Cr
R19543	Whiteside	0.33	0.04	0.29	<1	11.0	56	595	1.3	2.0	<3	76	12.0	66
R19461	Will	2.09	0.05	2.04	<1	9.4	51	485	1.7	7.9	<3	65	12.0	63
R19462	Will	1.58	1.10	0.48	<1	11.0	55	535	2.0	2.0	<3	81	15.0	70
R19463	Will	1.40	0.02	1.38	<1	8.7	52	500	1.7	4.6	<3	66	14.0	55
R19464	Will	1.73	1.15	0.58	<1	14.0	73	480	2.1	3.0	<3	74	16.0	69
R18687	Williamson	0.87	0.04	0.83	<1	14.0	46	750	1.2	3.3	<2.5	75	13.0	58
R18688	Williamson	0.42	0.19	0.23	<1	12.0	42	605	1.3	5.1	<2.5	74	8.1	71
R19525	Winnebago	1.58	0.02	1.56	<1	6.4	49	490	1.8	8.3	<3	53	8.0	45
R19526	Winnebago	0.57	0.02	0.55	<1	8.9	50	595	2.2	7.4	<2	71	10.0	60
R18819	Woodford	1.74	1.14	0.60	<1	12.0	36	515	1.2	4.0	<3	70	11.0	59
R18820	Woodford	1.60	1.58	0.02	<1	12.0	32	540	1.1	4.3	<3	70	12.0	58
Quality control replicate samples														
R19536	Kane	3.13	0.03	3.10	<1	7.3	35	525	1.3	12.0	<2	64	9.6	55
R19519		3.48	0.03	3.45	<1	7.5	43	630	1.4	13.0	<2	66	9.6	56
R19537	Kane	1.20	0.53	0.67	<1	9.8	62	460	1.1	7.6	<2	67	12.0	60
R19520		1.26	0.49	0.77	<1	10.0	51	595	2.2	7.3	<2	68	12.0	63
R19550	Henry	0.86	0.06	0.80	<1	8.4	51	605	<1	3.8	<2	75	13.0	65
R19546		0.83	0.03	0.80	<1	8.5	32	565	1.0	3.9	<2	73	12.0	64
R19551	Henry	0.32	0.03	0.29	<1	11.0	48	480	1.1	<2	<2	76	11.0	64
R19547		0.30	0.02	0.28	<1	11.0	31	505	1.1	1.8	<3	75	11.0	66
R19686	Logan	1.92	0.04	1.88	<1	13.0	45	530	1.3	14.0	<3	74	12.0	64
R19590		1.94	0.03	1.91	<1	14.0	44	520	1.2	12.0	<4	76	12.0	63
R19687	Logan	0.78	0.04	0.74	<1	14.0	38	540	1.6	12.0	<3	76	12.0	67
R19591		0.76	0.03	0.73	<1	14.0	54	500	1.4	13.0	<4	77	12.0	68

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Analysis no.		County	Cs	Cu	Dy	Eu	Ga	Hf	La	Li	Lu	Ni	Pb	Rb	Sb	Sc	Se
R19598		Adams	3.4	26	5.3	1.1	11.0	11.0	35	29	0.48	<20	<10	73	0.8	8.6	<1
R19599		Adams	5.1	40	5.9	1.4	17.0	8.9	41	40	0.54	25	<10	91	1.0	12.0	<0.8
R19600		Adams	1.9	27	3.8	0.8	6.7	11.0	26	17	0.38	<18	10	49	0.7	5.2	<0.6
R19601		Adams	2.1	30	2.8	0.7	7.2	8.2	22	17	0.33	<18	10	37	0.5	4.9	<0.6
R19688		Adams	4.4	32	4.4	1.1	15.0	10.0	36	22	0.43	18	14	86	1.2	10.0	<1
R19689		Adams	4.1	36	5.4	1.4	15.0	11.0	40	23	0.53	19	14	89	1.2	11.0	<0.8
R19523		Boone	2.5	27	4.2	1.0	9.1	13.0	32	16	0.41	<10	31	79	0.7	6.7	<0.8
R19524		Boone	4.2	34	5.8	1.3	14.0	11.0	39	23	0.55	14	41	81	1.1	11.0	<0.8
R19704		Brown	2.9	19	4.9	1.1	9.0	12.0	36	14	0.50	<10	20	80	0.9	7.4	<1
R19705		Brown	4.2	38	5.2	1.3	13.0	9.8	37	22	0.53	23	21	82	1.3	11.0	<0.8
R18790		Bureau	3.5	16	4.8	1.2	14.0	11.0	36	14	0.43	<15	13	87	0.9	9.0	<0.8
R18791		Bureau	3.7	20	5.1	1.4	14.0	11.0	39	19	0.55	<15	12	72	1.1	10.0	<0.8
R18815		Bureau	3.1	15	4.8	1.1	14.0	11.0	33	15	0.43	<15	12	84	0.9	8.4	<0.8
R18816		Bureau	3.5	36	7.0	1.9	15.0	11.0	41	16	0.65	<15	11	69	1.7	10.2	<0.8
R19533		Carroll	2.3	15	4.6	1.1	12.0	14.0	33	14	0.50	<10	22	70	0.7	8.0	<0.8
R19534		Carroll	2.5	22	4.7	1.3	13.0	13.0	35	15	0.49	<10	20	61	0.8	9.5	<0.8
R19702		Cass	1.6	20	4.0	1.0	9.3	13.0	23	11	0.36	<10	15	57	0.6	6.4	<0.8
R19703		Cass	1.9	19	3.5	0.9	9.4	9.7	22	8	0.38	<10	39	61	0.6	6.6	<0.8
R18524		Champaign	4.1	25	4.6	1.2	12.0	7.8	36	22	0.49	<11	30	95	0.8	9.8	<1
R18525		Champaign	4.6	24	5.1	1.3	17.0	8.4	37	30	0.54	26	27	88	0.9	11.0	<1
R18821		Champaign	2.6	18	3.0	0.7	9.0	6.6	23	10	0.35	<15	20	67	0.8	6.2	<0.8
R18822		Champaign	4.3	20	3.5	0.9	12.0	5.2	25	24	0.34	<13	22	89	0.7	9.2	<0.8
R18446	*	Champaign (30 ft)	2.6	15	4.7	1.1	12.0	12.0	35	15	0.48	<13	15	73	0.8	7.0	<1
R18447	*	Champaign (30 ft)	4.3	24	5.0	1.2	17.0	9.6	36	25	0.50	<12	<10	80	1.1	12.0	<1
R18448	*	Champaign (100 ft)	2.7	15	4.6	1.1	9.5	12.0	35	20	0.49	<14	11	72	0.9	7.4	1.0
R18449	*	Champaign (100 ft)	3.8	20	4.5	1.3	12.0	7.9	32	23	0.44	18	<10	81	0.9	10.0	<0.8
R18450		Champaign (160 ft)	2.8	10	5.2	1.0	10.0	12.0	36	19	0.46	17	<10	74	1.0	7.4	<1
R18451		Champaign (160 ft)	4.0	24	5.4	1.4	14.0	10.4	36	24	0.51	<13	20	75	1.0	11.0	<0.8
R18632		Christian	2.7	21	5.1	1.1	9.6	11.0	33	11	0.49	<16	16	64	1.0	7.4	1.0
R18633		Christian	4.4	29	6.0	1.5	16.0	9.3	41	24	0.55	21	20	75	1.0	12.0	<1
R19377		Christian	2.5	14	4.8	1.0	9.7	12.0	32	11	0.52	<13	16	73	0.8	6.8	<0.8
R19378		Christian	3.2	14	3.7	0.9	10.0	7.2	29	16	0.39	<13	10	77	1.0	7.2	1.0
R19698		Christian	2.9	23	5.9	1.3	10.0	12.0	39	16	0.52	<10	72	75	1.0	7.1	<0.8
R19699		Christian	4.7	39	5.1	1.3	16.0	9.8	39	26	0.55	10	55	85	1.3	12.0	<0.8
R19387		Clay	3.0	15	4.2	1.0	11.0	12.0	33	16	0.48	<13	36	68	1.2	7.2	<1
R19388		Clay	5.2	33	5.2	1.3	16.0	10.0	39	25	0.53	16	38	86	1.2	14.0	<0.8
R19381		Clinton	2.4	8	5.0	1.1	8.2	13.0	33	10	0.47	<13	25	67	0.9	6.4	<1
R19382		Clinton	4.9	23	5.3	1.4	16.0	8.7	40	28	0.53	18	26	95	1.2	12.0	<0.8
R18634		Coles	3.1	19	4.0	1.0	12.0	8.1	27	18	0.46	16	20	74	0.8	7.9	1.0
R18635		Coles	4.3	26	4.2	1.1	13.0	5.7	29	26	0.43	17	22	82	0.7	10.0	<0.8
R18792		DeKalb	3.2	20	4.3	1.0	11.0	10.0	34	15	0.43	<15	17	84	0.8	8.0	<0.8
R18793		DeKalb	4.0	21	4.8	1.2	13.0	9.3	35	19	0.48	<15	10	89	1.1	10.0	<0.8
R19467		DuPage	4.6	53	4.6	1.1	12.0	5.1	29	38	0.42	28	51	97	1.0	10.0	1.5
R19468		DuPage	5.3	50	4.5	1.1	16.0	6.4	32	53	0.41	23	41	97	0.5	11.0	1.5
R19469		DuPage	4.2	32	4.3	1.0	13.0	8.0	32	30	0.44	31	36	110	0.9	9.8	<0.8
R19470		DuPage	7.3	55	5.6	1.5	19.0	5.5	42	53	0.49	63	39	150	1.1	15.0	<0.5
R18693		Franklin	3.2	24	4.4	1.1	9.6	13.0	36	10	0.55	<16	18	75	1.1	7.9	<0.8
R18694		Franklin	3.9	26	4.6	1.3	15.0	11.0	40	12	0.48	21	<10	74	1.1	12.0	<0.8
R18638		Fulton	3.5	21	5.0	1.1	13.0	11.0	35	10	0.52	16	25	78	1.1	8.8	<0.8
R18639		Fulton	3.9	32	7.8	1.8	13.0	10.0	44	15	0.60	25	12	74	1.3	12.0	<0.8
R18644		Fulton	4.0	27	4.9	1.3	14.0	11.0	37	15	0.50	<16	19	77	1.2	11.0	<0.8
R18645		Fulton	2.4	27	4.9	1.2	10.0	11.0	32	8	0.47	<17	13	54	0.8	8.7	<0.8
R19580		Grundy	3.0	39	4.2	1.1	11.0	7.2	29	23	0.39	<18	15	91	0.6	7.5	<1
R19581		Grundy	2.5	34	5.2	1.3	10.0	7.6	27	15	0.39	<18	28	89	0.4	7.4	<0.8
R19566		Hancock	2.8	36	4.8	1.1	10.0	12.0	36	18	0.52	<11	37	75	1.0	7.6	<1
R19567		Hancock	5.3	51	6.7	1.5	17.0	8.6	43	31	0.54	56	25	84	1.2	12.0	<0.8
R19568		Hancock	2.0	24	4.7	1.0	8.5	14.0	33	12	0.46	<11	14	72	0.7	6.0	<0.8
R19569		Hancock	3.6	34	4.9	1.3	14.0	11.0	34	18	0.46	<11	12	80	1.0	9.7	<0.8
R19562		Henderson	2.3	27	3.7	1.0	9.8	8.5	26	13	0.33	<11	24	71	0.5	6.3	<0.8

Continued on next page

Analysis no.		County	Cs	Cu	Dy	Eu	Ga	Hf	La	Li	Lu	Ni	Pb	Rb	Sb	Sc	Se
R19563		Henderson	2.4	30	4.3	1.0	11.0	9.0	29	14	0.41	<11	24	62	0.4	7.2	<0.8
R19544		Henry	2.8	35	4.1	1.0	10.0	11.0	32	15	0.44	<10	10	77	0.7	7.1	<1
R19545		Henry	3.7	37	4.3	1.1	12.0	10.0	34	22	0.49	<10	13	71	1.0	9.4	<0.8
R19546		Henry	3.3	35	4.7	1.1	13.0	13.0	37	17	0.52	20	19	85	1.0	8.4	<0.8
R19547		Henry	3.5	36	5.2	1.3	13.0	13.0	36	22	0.53	<10	26	74	0.9	11.0	<0.8
R19548		Henry	3.7	69	5.7	1.5	12.0	12.0	40	21	0.56	18	25	76	1.3	10.4	<0.8
R19549		Henry	3.0	35	5.6	1.3	12.0	12.0	37	19	0.55	18	26	64	0.9	9.4	<0.8
R18689		Jackson	2.9	21	4.8	1.1	12.0	13.0	34	14	0.51	<16	50	79	1.1	7.1	<0.8
R18690		Jackson	4.6	25	4.3	1.0	13.0	10.0	34	14	0.47	<17	14	81	1.3	11.0	<1
R19529		Jo Daviess	2.5	29	4.4	0.9	11.0	13.0	32	18	0.44	<9	16	72	0.8	6.4	<0.8
R19530		Jo Daviess	3.6	73	5.3	1.3	14.0	11.0	38	27	0.49	<10	23	80	0.9	11.0	<0.8
R19531		Jo Daviess	3.5	44	4.3	1.0	12.0	11.0	31	21	0.44	<10	46	87	0.9	8.7	<0.8
R19532		Jo Daviess	5.1	52	4.8	1.3	19.0	8.3	39	30	0.46	<10	32	88	1.0	13.0	<0.8
R19519		Kane	3.5	29	4.6	1.1	12.0	9.1	34	20	0.45	<9	36	87	0.9	8.6	<0.8
R19520		Kane	4.0	45	5.4	1.3	15.0	7.4	35	26	0.50	<9	20	81	1.0	10.0	<1
R19582		Kane	4.1	40	4.8	1.2	12.0	7.9	35	27	0.46	<18	16	99	1.1	9.5	<0.8
R19583		Kane	2.0	40	2.4	0.7	7.6	3.6	19	13	0.28	19	22	50	1.9	5.8	<0.8
R19473		Kankakee	2.0	34	2.3	0.6	7.5	6.0	20	12	0.26	<18	23	62	0.8	4.6	<0.8
R19474		Kankakee	1.9	35	1.7	0.5	7.6	4.0	14	10	0.23	22	18	54	0.6	4.5	<0.8
R19465		Kendall	4.4	44	5.0	1.2	13.0	8.8	35	28	0.44	19	36	99	1.0	10.4	<1
R19466		Kendall	4.7	51	5.4	1.4	15.0	9.5	39	34	0.54	28	38	85	1.1	11.0	<0.8
R19586		Knox	3.3	40	4.3	1.0	12.0	9.8	36	18	0.44	<18	25	87	0.8	8.0	<0.8
R19587		Knox	4.0	30	5.1	1.1	14.0	10.0	37	24	0.48	<18	21	91	0.9	9.4	<0.8
R19588		Knox	3.4	31	5.0	1.2	12.0	10.0	36	22	0.49	<18	17	94	0.9	8.7	<1
R19589		Knox	4.7	30	5.2	1.3	17.0	9.5	38	25	0.53	<20	15	92	1.1	11.0	<1
R19584		LaSalle	2.7	21	3.5	0.9	9.0	7.5	26	22	0.31	<18	19	69	1.2	6.7	<0.8
R19585		LaSalle	2.5	19	4.1	1.0	9.4	9.3	32	25	0.38	<18	17	72	1.4	7.6	<0.8
R19471		Lake	3.4	44	3.9	1.1	11.0	6.2	28	24	0.37	44	48	77	0.7	9.7	<0.8
R19472		Lake	3.8	69	5.0	1.3	12.0	4.4	29	27	0.37	34	34	81	0.9	12.0	<0.8
R19475		Lake	4.3	60	4.4	1.0	13.0	6.6	32	33	0.42	<9	33	106	0.8	11.0	<0.8
R19476		Lake	4.3	54	3.4	0.9	12.0	4.2	27	30	0.34	21	21	84	0.7	10.0	<0.8
R19477		Lake	7.0	61	7.0	1.7	20.0	5.0	46	56	0.55	40	36	140	0.9	16.0	<0.8
R19478		Lake	4.3	49	3.4	0.9	12.0	3.7	25	33	0.33	34	20	90	0.6	9.9	<0.8
R18788		Livingston	4.8	23	4.8	1.2	13.0	6.6	35	28	0.42	18	34	110	0.9	11.0	<0.8
R18789		Livingston	5.1	23	5.0	1.4	13.0	7.2	37	28	0.44	14	26	105	0.9	12.0	<0.8
R18458	#	Logan	3.5	30	4.7	1.1	13.0	8.4	32	21	0.44	26	238	74	1.5	9.1	<1
R18459	#	Logan	3.6	23	5.7	1.5	16.0	11.0	43	21	0.57	29	25	71	1.1	11.0	1.0
R19590		Logan	3.5	45	5.1	1.3	12.0	11.0	37	25	0.54	<19	17	83	1.2	9.1	<1
R19591		Logan	4.0	35	5.9	1.4	13.0	11.0	37	26	0.54	19	17	82	1.1	11.0	<0.8
R18630		Macon	3.3	25	4.4	1.1	11.0	9.3	33	15	0.50	16	27	81	1.0	8.3	<0.8
R18631		Macon	4.5	31	5.5	1.4	13.0	8.5	38	22	0.52	<16	14	79	1.1	11.0	<1
R18695		Marion	2.3	12	3.8	0.9	9.3	12.0	30	8	0.46	<16	11	62	1.0	6.3	<0.8
R18696		Marion	5.1	26	4.2	1.1	16.0	9.2	34	27	0.46	<16	20	80	1.0	13.0	1.0
R19596		Mason	0.7	25	1.1	0.3	5.5	2.6	9	3	0.15	<20	<10	34	0.2	1.9	<0.5
R19597		Mason	0.8	26	1.3	0.3	4.3	3.0	10	3	0.16	<16	<10	36	0.2	1.9	<0.5
R19564		McDonough	2.6	32	4.1	1.0	8.1	12.0	34	12	0.45	<11	18	86	0.8	6.4	<0.8
R19565		McDonough	5.3	51	4.9	1.2	17.0	8.7	37	28	0.47	<11	21	89	1.5	12.0	<1
R19479		McHenry	2.2	32	2.9	0.6	8.9	7.6	24	17	0.33	<10	33	70	0.6	5.6	<0.8
R19480		McHenry	4.6	54	3.5	1.0	14.0	5.2	31	32	0.41	14	24	95	0.6	11.0	<0.8
R19521		McHenry	2.6	36	3.4	0.8	11.0	6.8	23	17	0.36	<10	29	77	0.5	7.0	<0.8
R19522		McHenry	2.1	31	2.8	0.7	9.2	4.7	20	18	0.30	<10	19	61	0.5	6.1	<0.8
R18452		McLean	3.4	20	4.4	1.1	12.0	9.7	34	20	0.43	<14	30	87	1.0	8.5	<0.8
R18453		McLean	4.6	29	5.9	1.5	17.0	9.8	40	27	0.53	18	23	86	1.2	12.0	<0.8
R18454		McLean	2.8	20	4.5	1.0	10.0	10.0	31	17	0.43	<13	16	74	0.8	7.7	<1
R18455	&	McLean	1.8	9	3.3	0.8	8.1	6.0	22	17	0.30	79	14	51	0.7	5.6	<1
R18456	&	McLean	3.6	25	4.8	1.2	13.0	8.4	39	21	0.47	<14	21	90	0.9	9.2	<1
R18457		McLean	3.7	15	4.9	1.1	14.0	9.6	35	24	0.45	<17	33	88	0.9	9.3	<1
R19592		Menard	2.2	23	4.8	1.0	9.9	14.0	30	17	0.44	<18	17	74	0.7	6.7	<0.8
R19593		Menard	3.1	26	5.3	1.3	13.0	12.0	33	25	0.47	<20	13	78	0.8	9.8	<0.8

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Analysis no.		County	Cs	Cu	Dy	Eu	Ga	Hf	La	Li	Lu	Ni	Pb	Rb	Sb	Sc	Se
R19594		Menard	2.6	18	4.3	1.1	8.7	13.0	30	18	0.44	<19	12	73	0.9	7.1	<0.8
R19595		Menard	2.6	26	4.8	1.1	9.5	12.0	32	17	0.46	<19	10	71	0.8	7.7	<0.8
R19554		Mercer	3.2	30	4.9	1.1	11.0	10.0	34	18	0.49	13	29	92	1.1	8.0	1.2
R19555		Mercer	4.5	40	4.9	1.2	14.0	9.8	35	23	0.46	13	106	88	2.0	11.0	<0.8
R19700		Morgan	3.2	33	5.0	1.1	11.0	10.0	36	16	0.52	15	18	82	1.1	7.7	<1
R19701		Morgan	4.9	34	5.0	1.2	13.0	9.2	35	27	0.52	21	17	92	1.4	11.0	<1.2
R18794		Ogle	2.8	14	4.1	1.0	11.0	9.7	32	13	0.41	15	10	79	0.7	6.9	<0.8
R18795		Ogle	3.1	18	3.3	0.8	12.0	7.8	26	15	0.31	<15	<10	70	0.8	7.8	<0.8
R18796		Ogle	2.2	16	4.4	0.8	7.7	11.0	28	10	0.43	<15	10	68	0.6	5.8	<0.8
R18797		Ogle	2.8	16	3.2	0.7	9.3	7.7	24	12	0.36	<15	<10	58	0.6	7.7	<0.8
R18640		Peoria	3.5	23	4.8	1.1	11.0	8.5	32	13	0.45	20	10	78	1.1	9.2	1.0
R18641		Peoria	4.6	22	4.3	1.0	13.0	6.9	29	12	0.44	29	10	86	0.9	9.8	<0.8
R18642		Peoria	3.5	28	4.6	1.1	12.0	12.0	36	15	0.48	<16	12	84	1.1	8.9	<0.8
R18643		Peoria	4.5	34	5.4	1.4	15.0	11.0	38	18	0.50	17	12	83	1.3	12.0	1.0
R19538		Peoria	7.6	51	6.8	1.6	21.0	5.3	43	74	0.53	53	17	130	1.3	19.0	1.3
R19539		Peoria	5.8	40	4.3	1.2	14.0	3.8	31	17	0.42	34	11	103	0.9	12.0	<0.8
R18691		Perry	2.9	19	4.1	0.9	9.9	14.0	30	10	0.46	<16	30	67	1.1	7.2	<0.8
R18692		Perry	3.9	23	6.7	1.7	15.0	11.0	48	8	0.61	<18	21	79	1.0	10.0	<0.8
R19690		Pike	2.0	15	4.6	1.2	14.0	13.0	31	14	0.44	<10	12	56	0.7	7.5	<0.8
R19691		Pike	2.2	21	4.1	1.1	9.6	10.0	30	14	0.41	13	22	56	0.7	7.2	<0.8
R19692		Pike	2.6	21	5.1	1.2	10.0	13.0	35	15	0.52	<10	18	68	0.8	7.3	<0.8
R19693		Pike	3.9	36	4.7	1.2	14.0	11.0	36	23	0.47	16	35	75	1.1	11.0	<0.8
R18568		Rock Island	3.6	63	4.6	1.1	12.0	9.8	32	21	0.47	<15	41	77	0.6	8.6	<1
R18569		Rock Island	4.2	19	5.0	1.3	12.0	11.0	38	23	0.51	13	22	73	0.6	10.0	<1
R19552		Rock Island	3.1	22	4.6	1.1	9.2	12.0	36	17	0.49	<10	20	88	0.9	7.2	<0.8
R19553		Rock Island	4.7	38	5.3	1.3	16.0	10.0	40	25	0.49	<11	28	80	1.4	11.0	<0.8
R19556		Rock Island	3.2	27	4.7	1.0	12.0	10.0	32	15	0.44	<10	250	94	1.2	7.6	<1
R19557		Rock Island	4.8	34	4.4	1.2	15.0	9.5	37	25	0.49	<11	31	83	1.3	11.0	<1
R19696		Sangamon	2.4	23	5.0	1.2	8.4	12.0	33	17	0.48	<10	16	71	0.7	7.0	<0.8
R19697		Sangamon	3.5	27	5.0	1.2	12.0	9.7	33	23	0.45	19	43	85	0.8	9.5	<0.8
R19706		Schuyler	3.4	31	4.9	1.1	12.0	10.0	36	19	0.47	<9	22	82	1.0	8.0	<1
R19707		Schuyler	4.8	34	5.2	1.2	14.0	9.3	38	29	0.47	22	28	77	1.3	11.0	<1
R19694		Scott	2.9	33	5.3	1.3	12.0	13.0	37	18	0.50	<10	28	68	1.1	8.1	<0.8
R19695		Scott	4.0	35	6.4	1.4	14.0	11.0	39	25	0.55	16	28	82	1.1	11.0	<0.8
R18817		Stark	3.0	15	5.0	1.1	11.0	11.0	37	15	0.45	<15	11	88	0.8	7.6	<0.8
R18818		Stark	4.6	28	5.3	1.5	16.0	9.2	45	22	0.54	<15	14	82	1.2	11.0	<0.8
R19527		Stephenson	2.2	30	3.6	0.9	7.9	7.8	26	11	0.35	<10	21	62	0.6	5.8	<0.8
R19528		Stephenson	3.0	31	4.6	1.0	11.0	10.0	33	18	0.47	<10	13	80	0.7	7.6	<0.8
R18636		Tazewell	3.6	32	4.2	1.1	11.0	9.1	33	17	0.41	<16	40	89	1.3	8.7	<1
R18637		Tazewell	5.5	26	4.1	1.1	16.0	8.5	35	19	0.48	<16	21	85	1.5	12.0	<1
R18823		Vermilion	4.7	21	4.4	1.1	13.0	7.9	36	28	0.44	<13	52	101	1.2	10.4	<1
R18824		Vermilion	7.0	24	4.9	1.3	17.0	5.4	38	43	0.47	26	31	121	0.9	14.0	<0.8
R19373		Vermilion	4.3	19	4.6	1.0	13.0	7.3	32	23	0.40	<13	29	103	2.0	9.5	<1
R19374		Vermilion	7.8	32	5.1	1.3	18.0	5.5	40	47	0.45	33	14	140	1.0	15.0	<0.8
R19375		Vermilion	3.2	53	5.2	1.2	12.0	10.5	35	20	0.46	13	25	79	1.1	8.3	<1
R19376	^	Vermilion	3.9	22	5.7	1.5	14.0	10.0	40	24	0.52	20	14	73	1.0	11.0	<0.8
R19558		Warren	3.8	30	4.6	1.2	14.0	7.5	34	36	0.47	13	24	74	1.1	11.0	<0.8
R19559		Warren	4.2	48	5.0	1.2	15.0	7.4	34	37	0.48	18	23	78	0.9	11.0	<0.8
R19560		Warren	2.4	19	4.5	1.0	11.0	14.0	34	13	0.49	<14	16	70	0.9	6.8	<1
R19561		Warren	4.1	37	5.9	1.4	15.0	10.5	41	21	0.57	<11	19	79	1.2	11.0	<1
R19379		Washington	2.7	15	4.9	1.2	11.0	14.0	35	10	0.51	<13	16	67	1.2	7.2	2.6
R19380		Washington	4.7	25	5.7	1.4	14.0	9.2	39	20	0.51	17	18	85	1.1	11.0	<0.8
R19383		Washington	2.5	9	4.8	1.1	10.0	11.0	32	10	0.43	<13	18	65	0.9	6.4	<1
R19384		Washington	2.5	12	4.1	1.0	11.0	10.0	28	11	0.42	<13	24	61	0.9	6.8	<1
R19385		Washington	2.0	10	3.9	0.8	7.2	14.0	30	8	0.46	<13	45	61	1.1	5.7	<0.8
R19386		Washington	4.9	24	4.2	1.0	15.0	9.2	31	26	0.42	<13	28	80	1.4	12.0	2.2
R19540		Whiteside	2.9	44	3.9	1.0	12.0	8.2	30	17	0.44	<10	19	69	1.0	8.1	<0.8
R19541		Whiteside	3.1	39	4.1	1.0	11.0	8.1	31	20	0.43	25	26	75	0.9	8.3	<1
R19542		Whiteside	2.6	24	5.0	1.1	10.0	13.0	35	15	0.48	21	13	77	0.8	7.8	<0.8

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Analysis no.	County	Cs	Cu	Dy	Eu	Ga	Hf	La	Li	Lu	Ni	Pb	Rb	Sb	Sc	Se
R19543	Whiteside	3.7	33	5.0	1.2	15.0	11.0	37	19	0.50	<10	20	71	1.0	10.0	<0.8
R19461	Will	4.4	31	4.3	1.0	12.0	7.6	31	32	0.42	28	40	110	0.9	9.7	<1
R19462	Will	6.4	45	5.2	1.3	16.0	5.5	37	49	0.44	45	26	120	0.8	13.0	<0.8
R19463	Will	3.6	42	4.2	0.9	12.0	8.6	32	26	0.43	<18	44	97	0.9	8.2	<0.8
R19464	Will	6.6	53	4.8	1.3	17.0	5.2	38	46	0.48	45	28	130	1.0	13.0	<0.8
R18687	Williamson	2.6	17	4.0	1.1	11.0	13.0	33	8	0.50	<17	17	69	1.3	6.7	1.0
R18688	Williamson	4.8	21	4.8	1.2	16.0	9.9	37	14	0.49	17	16	86	1.2	11.0	<0.8
R19525	Winnebago	2.4	27	3.4	0.9	8.5	9.4	27	14	0.36	<10	28	62	0.7	6.4	<0.8
R19526	Winnebago	3.5	40	4.8	1.1	12.0	9.7	34	22	0.48	<10	28	68	0.8	9.9	<0.8
R18819	Woodford	3.6	21	4.9	1.3	13.0	9.4	35	21	0.45	<15	11	71	0.9	10.1	<0.8
R18820	Woodford	3.7	22	5.2	1.4	13.0	9.0	37	21	0.54	<15	11	76	0.9	10.2	<0.8
Quality control replicate samples																
R19536	Kane	3.4	29	4.5	1.1	12.0	9.1	33	19	0.48	<10	26	82	0.7	8.6	<0.8
R19519		3.5	29	4.6	1.1	12.0	9.1	34	20	0.45	<9	36	87	0.9	8.6	<0.8
R19537	Kane	3.8	41	5.2	1.3	14.0	7.3	34	27	0.47	16	11	75	1.0	10.0	<0.8
R19520		4.0	45	5.4	1.3	15.0	7.4	35	26	0.50	<9	20	81	1.0	10.0	<1
R19550	Henry	3.3	36	5.2	1.2	11.0	13.0	36	17	0.55	<11	23	84	0.9	8.4	<0.8
R19546		3.3	35	4.7	1.1	13.0	13.0	37	17	0.52	20	19	85	1.0	8.4	<0.8
R19551	Henry	3.4	36	5.0	1.3	13.0	12.0	36	21	0.54	<11	20	72	0.9	11.0	<0.8
R19547		3.5	36	5.2	1.3	13.0	13.0	36	22	0.53	<10	26	74	0.9	11.0	<0.8
R19686	Logan	3.7	38	5.5	1.3	12.0	12.0	36	17	0.49	<9	18	83	1.1	9.1	<0.8
R19590		3.5	45	5.1	1.3	12.0	11.0	37	25	0.54	<19	17	83	1.2	9.1	<1
R19687	Logan	4.0	26	6.2	1.4	14.0	11.0	37	20	0.49	15	24	77	1.2	11.0	<0.8
R19591		4.0	35	5.9	1.4	13.0	11.0	37	26	0.54	19	17	82	1.1	11.0	<0.8

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Analysis no.		County	Sm	Sr	Ta	Tb	Th	Tl	U	V	Yb	Zn
R19598		Adams	5.6	100	1.00	0.78	10.0	1	2.7	65	3.0	48.0
R19599		Adams	6.9	100	1.00	0.92	11.0	1	3.3	104	3.1	68.0
R19600		Adams	4.1	80	0.70	0.60	7.2	<1	3.2	44	2.3	33.0
R19601		Adams	3.5	60	0.63	0.52	6.4	1	2.4	52	1.9	26.0
R19688		Adams	5.5	110	1.00	0.72	12.0	2	2.5	84	2.8	74.1
R19689		Adams	6.4	125	1.10	0.89	11.0	<1	3.9	60	3.3	72.9
R19523		Boone	4.3	120	0.97	0.69	9.0	<1	3.0	82	2.5	47.0
R19524		Boone	6.6	120	0.91	0.93	11.0	<1	3.0	102	3.1	75.0
R19704		Brown	5.6	110	1.00	0.83	9.7	1	3.0	60	3.0	49.5
R19705		Brown	6.3	100	0.98	0.84	11.0	<1	3.5	130	3.0	93.1
R18790		Bureau	5.5	115	0.97	0.82	9.7	2	3.5	76	2.9	118.0
R18791		Bureau	6.8	125	0.92	0.99	10.0	3	3.3	105	3.3	79.0
R18815		Bureau	5.1	115	1.00	0.76	9.1	2	4.0	61	2.7	64.0
R18816		Bureau	8.8	135	0.92	1.30	10.0	1	3.5	136	4.0	54.0
R19533		Carroll	5.5	135	0.87	0.80	8.8	1	4.8	92	2.8	46.0
R19534		Carroll	6.0	155	0.88	0.84	9.1	1	3.8	128	3.1	53.0
R19702		Cass	4.2	130	0.61	0.62	5.9	1	<2.5	43	2.2	36.0
R19703		Cass	4.0	115	0.56	0.55	5.8	<1	2.0	52	2.0	33.8
R18524		Champaign	5.9	100	0.92	0.86	9.3	2	3.4	83	2.8	80.0
R18525		Champaign	6.4	106	0.91	0.91	10.0	2	3.0	110	3.1	62.0
R18821		Champaign	3.6	85	0.57	0.48	6.3	1	2.0	58	1.8	61.0
R18822		Champaign	4.3	80	0.69	0.59	7.3	3	2.0	69	2.0	50.0
R18446	*	Champaign (30 ft)	5.4	98	1.00	0.78	8.8	2	3.6	77	3.0	47.0
R18447	*	Champaign (30 ft)	6.0	97	0.95	0.76	10.0	2	4.2	96	3.1	80.0
R18448	*	Champaign (100 ft)	5.7	98	1.00	0.74	9.3	2	3.6	59	2.9	51.0
R18449	*	Champaign (100 ft)	6.0	106	0.80	0.84	8.6	1	4.0	70	2.8	70.0
R18450		Champaign (160 ft)	5.4	98	1.10	0.74	9.6	2	4.5	70	2.9	51.0
R18451		Champaign (160 ft)	6.5	106	0.96	0.91	10.0	1	3.4	97	3.1	80.0
R18632		Christian	5.3	110	1.00	0.89	9.0	2	4.2	75	2.8	47.7
R18633		Christian	7.1	110	0.96	1.00	11.0	1	3.5	116	3.4	78.6
R19377		Christian	5.1	100	1.00	0.74	8.9	1	3.3	61	2.9	43.0
R19378		Christian	4.3	100	0.77	0.63	7.9	1	3.3	61	2.2	42.0
R19698		Christian	6.2	105	1.00	0.97	9.5	2	3.4	105	3.4	47.6
R19699		Christian	6.2	100	0.97	0.92	12.0	<1	3.8	139	3.1	96.3
R19387		Clay	5.0	80	1.10	0.72	10.0	1	3.6	119	2.9	35.0
R19388		Clay	6.4	95	1.10	0.92	12.0	1	3.7	168	3.1	73.0
R19381		Clinton	5.2	105	1.00	0.74	8.9	1	2.8	85	2.8	19.0
R19382		Clinton	6.4	115	1.00	0.90	11.0	1	3.9	137	3.1	78.0
R18634		Coles	4.6	90	0.75	0.68	7.6	1	3.3	64	2.4	64.5
R18635		Coles	5.4	90	0.72	0.72	7.9	2	3.4	75	2.4	60.9
R18792		DeKalb	5.2	105	0.93	0.65	9.6	2	3.4	74	2.7	72.0
R18793		DeKalb	5.7	95	0.88	0.86	9.7	1	2.8	98	2.8	74.0
R19467		DuPage	5.0	100	0.71	0.82	8.3	1	4.9	78	2.5	121.0
R19468		DuPage	5.3	115	0.85	0.69	9.6	1	6.7	82	2.6	98.0
R19469		DuPage	4.6	90	1.00	0.69	9.4	1	4.2	100	2.5	83.0
R19470		DuPage	7.0	90	0.96	0.87	11.0	1	4.6	163	2.9	104.0
R18693		Franklin	5.4	80	1.10	0.80	11.0	1	3.3	64	3.1	50.2
R18694		Franklin	6.6	110	1.00	0.84	11.0	1	3.5	83	3.0	64.3
R18638		Fulton	5.4	100	1.00	0.83	9.9	2	4.0	87	2.9	106.0
R18639		Fulton	8.5	110	0.94	1.20	10.0	2	3.8	120	3.9	94.7
R18644		Fulton	5.9	100	1.00	0.83	11.0	1	3.8	83	3.1	84.1
R18645		Fulton	5.8	140	0.86	0.78	8.2	1	2.0	52	2.8	48.6
R19580		Grundy	5.2	80	0.78	0.73	7.6	1	2.7	68	2.3	71.0
R19581		Grundy	6.0	65	0.68	0.82	7.6	1	2.5	71	2.4	78.0
R19566		Hancock	5.5	120	1.00	0.75	10.0	2	4.1	88	3.0	59.0
R19567		Hancock	7.4	125	1.00	0.95	12.0	<1	3.5	134	3.3	97.0
R19568		Hancock	5.2	125	0.95	0.75	8.5	<1	3.1	71	2.9	44.0
R19569		Hancock	6.0	125	0.89	0.77	9.9	1	3.5	132	2.8	70.0
R19562		Henderson	4.2	125	0.65	0.62	6.9	1	3.0	75	2.1	96.0

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Analysis no.		County	Sm	Sr	Ta	Tb	Th	Tl	U	V	Yb	Zn
R19563		Henderson	4.6	135	0.72	0.66	7.6	<1	2.7	93	2.4	53.0
R19544		Henry	4.7	110	0.84	0.69	8.3	1	3.5	95	2.6	58.0
R19545		Henry	5.3	120	0.94	0.76	10.2	<1	3.4	132	2.8	62.0
R19546		Henry	5.5	115	1.10	0.77	10.0	1	4.5	135	3.0	67.0
R19547		Henry	6.3	125	0.97	0.84	10.0	<1	3.9	122	3.1	69.0
R19548		Henry	6.9	125	1.00	1.00	11.0	<1	3.4	159	3.5	124.0
R19549		Henry	6.3	130	0.88	0.90	9.6	1	2.7	114	3.2	63.0
R18689		Jackson	5.4	100	1.10	0.83	9.7	2	3.6	89	3.0	185.0
R18690		Jackson	5.2	110	1.00	0.76	12.0	2	4.0	115	2.9	74.0
R19529		Jo Daviess	4.6	115	0.96	0.62	8.4	1	3.0	104	2.6	51.0
R19530		Jo Daviess	6.4	110	1.10	0.89	11.0	<1	3.0	126	3.2	59.0
R19531		Jo Daviess	4.6	120	0.90	0.64	9.4	1	3.0	107	2.5	258.0
R19532		Jo Daviess	6.3	120	0.95	0.85	11.0	<1	3.4	112	2.9	132.0
R19519		Kane	5.3	95	0.88	0.75	9.5	1	3.2	85	2.7	66.0
R19520		Kane	6.1	100	0.77	0.90	8.9	1	3.6	139	2.9	61.0
R19582		Kane	5.7	95	0.90	0.74	9.8	<1	3.1	118	2.5	89.0
R19583		Kane	3.0	90	0.40	0.42	4.4	1	3.0	41	1.4	94.0
R19473		Kankakee	2.6	85	0.51	0.39	5.0	2	2.0	35	1.5	62.0
R19474		Kankakee	2.1	75	0.40	0.29	4.2	1	2.0	53	1.2	36.0
R19465		Kendall	5.6	95	1.00	0.82	10.0	1	5.2	137	2.9	86.0
R19466		Kendall	6.4	115	0.99	1.00	11.0	1	4.8	96	3.1	86.0
R19586		Knox	5.4	120	0.98	0.73	10.0	1	3.1	106	2.7	104.0
R19587		Knox	5.7	115	1.00	0.78	11.0	1	2.6	119	3.0	73.0
R19588		Knox	5.7	115	0.94	0.79	10.0	1	4.2	77	2.9	80.0
R19589		Knox	6.2	110	1.00	0.80	11.0	1	3.6	127	2.9	85.0
R19584		LaSalle	4.4	55	0.84	0.52	7.2	1	2.0	37	1.9	87.0
R19585		LaSalle	5.7	60	0.98	0.67	9.1	1	3.1	62	2.4	80.0
R19471		Lake	4.7	95	0.67	0.67	7.5	1	4.0	91	2.3	103.0
R19472		Lake	5.7	80	0.54	0.89	6.8	1	3.7	72	2.4	144.0
R19475		Lake	4.9	80	0.90	0.68	8.8	1	3.3	79	2.4	76.0
R19476		Lake	4.4	90	0.62	0.58	7.1	1	3.2	78	2.0	64.0
R19477		Lake	8.2	80	0.88	1.10	11.0	1	4.3	81	3.5	102.0
R19478		Lake	4.2	90	0.63	0.57	7.1	1	3.5	105	2.0	64.0
R18788		Livingston	5.7	90	0.89	0.81	9.7	2	3.5	77	2.7	124.0
R18789		Livingston	6.2	85	0.91	0.90	10.0	2	3.4	100	2.9	99.0
R18458	#	Logan	5.4	116	0.85	0.72	8.8	2	3.2	100	2.7	121.0
R18459	#	Logan	7.2	120	0.88	0.92	9.7	3	3.5	104	3.5	75.0
R19590		Logan	6.3	100	0.96	0.86	10.0	1	3.0	83	3.3	119.0
R19591		Logan	6.8	100	0.93	0.93	10.0	1	3.0	106	3.3	87.0
R18630		Macon	5.3	100	0.97	0.80	9.3	1	4.1	78	2.8	83.6
R18631		Macon	7.4	100	0.89	1.00	9.9	1	3.0	108	3.1	70.6
R18695		Marion	4.4	95	0.98	0.71	8.5	2	3.9	50	2.6	46.1
R18696		Marion	5.3	85	0.98	0.73	12.0	1	2.5	148	2.6	73.4
R19596		Mason	1.3	75	0.19	0.20	2.0	1	1.3	22	0.8	25.0
R19597		Mason	1.4	70	0.21	0.20	2.2	1	<1.5	20	0.7	17.0
R19564		McDonough	4.8	105	1.10	0.69	9.8	<1	4.0	77	3.0	46.0
R19565		McDonough	5.6	100	0.94	0.75	12.0	1	4.4	138	2.8	97.0
R19479		McHenry	3.3	85	0.77	0.50	6.5	1	3.0	102	1.9	43.0
R19480		McHenry	4.8	85	0.71	0.71	8.4	1	3.6	168	2.2	63.0
R19521		McHenry	3.7	90	0.59	0.50	6.5	1	2.4	82	1.9	45.0
R19522		McHenry	3.2	95	0.51	0.48	5.1	1	2.0	71	1.5	26.0
R18452		McLean	5.5	99	0.99	0.76	9.6	2	3.6	62	2.7	91.0
R18453		McLean	7.2	105	1.00	0.97	11.0	2	3.7	88	3.2	91.0
R18454		McLean	5.1	96	0.96	0.71	8.8	2	3.5	63	2.6	64.0
R18455	&	McLean	4.1	89	0.45	0.56	5.7	2	3.0	35	1.7	40.0
R18456	&	McLean	6.1	103	1.00	0.82	9.8	2	3.1	92	2.8	87.0
R18457		McLean	5.4	101	1.10	0.77	10.0	3	4.0	84	2.7	76.0
R19592		Menard	4.7	115	0.98	0.74	8.4	1	4.0	73	2.7	44.0
R19593		Menard	5.9	120	0.90	0.84	9.4	1	2.4	71	3.0	50.0

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Analysis no.		County	Sm	Sr	Ta	Tb	Th	Tl	U	V	Yb	Zn
R19594		Menard	5.2	105	0.91	0.78	8.4	1	3.4	71	2.8	54.0
R19595		Menard	5.4	110	0.84	0.79	8.6	1	2.2	64	2.8	56.0
R19554		Mercer	5.5	115	0.88	0.72	9.0	<1	3.7	136	2.7	95.0
R19555		Mercer	5.6	120	1.00	0.76	11.0	1	3.2	144	2.8	84.0
R19700		Morgan	5.5	105	0.96	0.85	9.8	1	3.2	101	3.0	143.0
R19701		Morgan	5.4	90	0.95	0.74	11.0	1	3.0	109	2.8	82.2
R18794		Ogle	4.5	105	0.85	0.68	8.3	2	2.6	53	2.4	58.0
R18795		Ogle	3.9	90	0.65	0.54	7.9	2	2.4	45	1.8	43.0
R18796		Ogle	3.8	105	0.87	0.62	7.5	2	3.0	43	2.3	38.0
R18797		Ogle	3.6	85	0.65	0.47	7.6	1	2.0	63	1.9	55.0
R18640		Peoria	5.4	90	0.87	0.83	8.2	1	4.0	89	2.6	103.0
R18641		Peoria	4.8	140	0.74	0.69	7.6	1	3.0	136	2.2	59.2
R18642		Peoria	5.4	100	1.00	0.81	9.9	1	3.1	83	2.9	63.9
R18643		Peoria	6.7	110	1.10	0.88	11.0	1	3.0	99	3.2	77.3
R19538		Peoria	7.8	125	1.10	1.00	12.0	<1	3.2	260	3.4	149.0
R19539		Peoria	5.2	390	0.75	0.68	8.1	<1	3.5	183	2.4	35.0
R18691		Perry	4.4	85	1.00	0.65	10.0	2	3.2	76	2.8	43.4
R18692		Perry	8.1	120	1.10	1.20	11.0	1	3.0	99	3.9	62.9
R19690		Pike	5.3	165	0.75	0.78	8.1	<1	2.8	60	2.6	38.8
R19691		Pike	5.2	165	0.69	0.73	7.8	1	3.2	67	2.5	43.8
R19692		Pike	5.6	110	1.00	0.84	9.2	<1	3.8	68	3.0	49.8
R19693		Pike	5.8	110	1.00	0.73	11.0	<1	3.4	135	2.9	73.9
R18568		Rock Island	5.5	109	0.90	0.79	8.5	2	3.0	68	2.7	69.0
R18569		Rock Island	6.5	117	0.97	0.95	9.9	2	2.7	81	3.1	33.0
R19552		Rock Island	5.2	125	1.00	0.75	9.6	1	3.8	117	2.8	59.0
R19553		Rock Island	6.5	125	1.00	0.81	12.0	<1	3.5	167	3.0	89.0
R19556		Rock Island	4.7	110	0.92	0.71	9.0	1	<4	95	2.7	84.0
R19557		Rock Island	5.8	115	0.95	0.71	12.0	<1	5.0	125	2.7	87.0
R19696		Sangamon	5.6	115	0.90	0.81	8.5	2	3.0	88	3.0	42.9
R19697		Sangamon	5.6	100	0.84	0.78	8.7	1	2.9	142	2.8	60.4
R19706		Schuyler	5.4	105	0.99	0.77	9.7	1	3.4	71	2.8	73.4
R19707		Schuyler	6.0	95	0.98	0.78	11.0	<1	3.6	97	2.9	94.2
R19694		Scott	6.4	110	1.00	0.84	10.0	1	3.3	91	3.1	62.6
R19695		Scott	7.1	100	1.00	1.00	11.0	1	3.1	95	3.4	83.8
R18817		Stark	5.4	115	0.96	0.76	9.2	2	3.0	56	2.9	65.0
R18818		Stark	7.5	120	1.00	0.99	11.0	2	3.0	141	3.2	73.0
R19527		Stephenson	4.1	100	0.61	0.60	6.3	<1	3.0	62	2.0	50.0
R19528		Stephenson	5.0	115	0.88	0.78	8.9	<1	3.3	98	2.7	62.0
R18636		Tazewell	5.1	100	0.90	0.76	9.5	1	3.5	105	2.7	92.2
R18637		Tazewell	5.1	90	1.10	0.72	12.0	2	3.6	117	2.5	86.6
R18823		Vermilion	5.6	85	0.95	0.79	10.0	2	3.3	110	2.8	98.0
R18824		Vermilion	6.2	110	0.89	0.84	9.9	2	3.2	114	2.7	79.0
R19373		Vermilion	5.2	80	0.91	0.74	9.1	3	3.4	65	2.5	84.0
R19374		Vermilion	6.2	70	0.99	0.89	11.0	3	5.0	88	2.9	87.0
R19375		Vermilion	5.5	100	0.95	0.84	9.5	2	4.0	59	2.8	143.0
R19376	^	Vermilion	7.0	105	0.94	0.96	10.0	2	3.4	64	3.2	73.0
R19558		Warren	6.0	90	0.87	0.79	9.3	<1	2.0	91	2.7	76.0
R19559		Warren	5.9	100	0.86	0.80	9.3	1	2.7	101	2.8	87.0
R19560		Warren	5.1	125	0.99	0.71	9.2	<1	3.3	69	3.0	41.0
R19561		Warren	6.8	120	0.95	0.94	11.0	1	3.7	112	3.2	76.0
R19379		Washington	6.0	120	1.00	0.85	9.8	1	6.1	66	3.1	35.0
R19380		Washington	6.3	150	0.98	0.92	11.0	1	5.0	128	3.0	73.0
R19383		Washington	5.1	95	0.94	0.74	8.5	2	3.1	69	2.8	23.0
R19384		Washington	4.7	90	0.84	0.66	8.2	1	3.9	65	2.6	43.0
R19385		Washington	4.3	95	1.00	0.65	8.7	<1	5.0	100	2.7	27.0
R19386		Washington	5.0	105	1.10	0.67	12.0	<1	5.7	138	2.8	69.0
R19540		Whiteside	4.7	110	0.73	0.71	7.7	1	3.0	142	2.5	141.0
R19541		Whiteside	4.9	110	0.79	0.68	8.2	<1	3.0	146	2.5	131.0

Continued on next page

Analysis no.	County	Sm	Sr	Ta	Tb	Th	Tl	U	V	Yb	Zn
R19542	Whiteside	5.4	135	1.00	0.81	9.0	<1	3.6	165	2.9	61.0
R19543	Whiteside	6.0	135	0.88	0.86	10.0	1	3.3	150	3.0	77.0
R19461	Will	4.8	85	0.97	0.70	9.3	1	5.4	100	2.6	71.0
R19462	Will	6.5	95	0.87	0.88	10.0	1	4.2	132	2.8	73.0
R19463	Will	4.6	90	0.98	0.67	9.1	2	4.7	98	2.4	69.0
R19464	Will	6.4	90	0.80	0.86	9.8	2	3.7	127	2.6	101.0
R18687	Williamson	5.3	95	1.00	0.72	10.0	2	3.5	89	3.0	59.0
R18688	Williamson	5.7	105	1.10	0.76	12.0	2	3.6	101	3.1	74.3
R19525	Winnebago	4.1	85	0.71	0.66	7.0	<1	2.5	88	2.2	42.0
R19526	Winnebago	5.6	105	0.91	0.75	9.7	1	2.0	103	2.8	48.0
R18819	Woodford	6.2	110	0.85	0.83	9.3	2	3.0	88	2.9	48.0
R18820	Woodford	6.6	110	0.88	0.91	9.2	1	3.5	95	3.0	54.0
Quality control	replicate samples										
R19536	Kane	5.1	100	0.86	0.79	8.9	1	3.5	116	2.6	69.0
R19519		5.3	95	0.88	0.75	9.5	1	3.2	85	2.7	66.0
R19537	Kane	6.1	100	0.78	0.83	8.4	1	3.5	197	2.7	65.0
R19520		6.1	100	0.77	0.90	8.9	1	3.6	139	2.9	61.0
R19550	Henry	5.7	115	1.00	0.81	10.0	<1	2.4	137	3.1	64.0
R19546		5.5	115	1.10	0.77	10.0	1	4.5	135	3.0	67.0
R19551	Henry	6.3	125	0.94	0.81	10.0	1	3.0	140	3.0	65.0
R19547		6.3	125	0.97	0.84	10.0	<1	3.9	122	3.1	69.0
R19686	Logan	5.9	105	1.00	0.90	10.0	1	3.1	93	3.2	114.0
R19590		6.3	100	0.96	0.86	10.0	1	3.0	83	3.3	119.0
R19687	Logan	6.9	105	0.96	0.91	10.0	1	2.5	97	3.3	79.0
R19591		6.8	100	0.93	0.93	10.0	1	3.0	106	3.3	87.0

APPENDIX 2—API NUMBER, CORE IDENTIFICATION, COUNTY, SOIL TYPE, LOCATION, ELEVATION, DEPTH OF CORE, DATE COLLECTED, AND NUMBER OF SUBSAMPLES (DREHER AND FOLLMER SERIES)

Note: Location and elevation information were determined by GPS.

API no.	Core ID	County	Soil type	Latitude	Longitude	Elevation (m)	Depth of core (m)	Date collected	Subsamples (n)
120012297200	60	Adams	Keomah	40.015242	–91.104389	223.6	7.3	10/18/2000	6
120052333000	29	Bond	Darmstadt-Oconee	38.850455	–89.573899	166.8	6.1	10/26/1999	6
120072414900	125	Boone	Drummer	42.349611	–88.792336	255.6	5.2	10/30/2002	6
120172093700	61	Brown	Rozetta	40.006908	–90.720873	202.3	5.2	10/18/2000	6
120112304300	106	Bureau	Catlin	41.178618	–89.577246	250.9	6.4	10/22/2002	6
120112304400	112	Bureau	Port Byron	41.481257	–89.583652	245.6	4.4	10/24/2002	6
120112304500	113	Bureau	Catlin	41.468611	–89.192140	208.9	5.9	10/24/2002	6
120152169600	118	Carroll	Fayette	42.058217	–89.973160	246.4	8.2	10/28/2002	6
120172093700	62	Cass	Plainfield	40.011596	–90.337232	144.2	5.3	10/19/2000	7
120192560700	65	Champaign	Flanagan	40.007914	–88.060343	204.6	5.2	10/23/2000	6
120192572100	70	Champaign	Drummer	40.296726	–88.059279	221.3	4.1	10/24/2000	6
120192572000	71	Champaign	Drummer	40.295449	–88.441568	231.7	4.4	10/25/2000	6
120192563700	76	Champaign	Flanagan	40.009423	–88.439867	211.0	4.3	10/26/2000	6
120212496400	49	Christian	Virden	39.434546	–89.206144	200.3	4.9	11/04/1999	6
120212496500	54	Christian	Ipava	39.726182	–89.201425	180.4	5.7	10/16/2000	6
120232668400	36	Clark	Stoy	39.424327	–87.698352	183.2	3.7	10/28/1999	6
120252862700	32	Clay	Wynoose	38.848358	–88.455237	155.0	6.0	10/27/1999	6
120472449300	18	Clinton	Cowden	38.560363	–89.573221	135.4	5.3	11/20/1998	6
120272665500	19	Clinton	Hoyleton	38.558347	–89.198909	144.4	5.0	12/01/1998	6
120292424900	37	Coles	Xenia	39.427843	–88.064358	218.9	5.0	10/28/1999	6
120292425200	51	Coles	Toronto	39.430396	–88.448612	231.0	6.7	11/04/1999	6
120313433500	128	Cook	Alvin	41.757262	–87.638733	183.2	6.1	10/27/2003	6
120313444300	130	Cook	Mundelein	42.048007	–88.018908	211.0	6.1	10/28/2003	6
120333663900	35	Crawford	Muren	39.127023	–87.703158	150.9	4.6	10/28/1999	6
120372349500	126	DeKalb	Drummer	42.052380	–88.802055	262.1	5.8	10/30/2002	6
120372352700	134	DeKalb	Flanagan	41.763661	–88.802275	267.3	5.3	10/29/2003	6
120412281800	52	Douglas	Drummer	39.722746	–88.440921	199.1	4.3	10/16/2000	6
120412283600	66	Douglas	Toronto	39.723015	–88.073339	195.6	5.1	10/23/2000	6
120433146200	129	DuPage	Markham	41.756448	–88.017789	223.8	6.1	10/28/2003	6
120452320800	67	Edgar	Wingate	39.704526	–87.685549	198.0	5.2	10/23/2000	6
120472449300	22	Edwards	Belknap	38.549137	–88.101689	127.6	3.3	12/02/1998	6
120472449400	24	Edwards	Hosmer	38.267407	–88.095054	130.8	4.6	11/18/1998	6
120492479100	39	Efffingham	Bluford	39.137876	–88.453636	176.1	4.8	10/29/1999	6
120512724500	30	Fayette	Bluford	38.854295	–89.200161	147.9	5.6	10/26/1999	5
120512797300	31	Fayette	Atlas	38.851078	–88.834686	170.7	4.8	10/26/1999	6
120512797400	40	Fayette	Bluford	39.136717	–88.830023	185.1	4.9	11/01/1999	6
120512801500	41	Fayette	Oconee	39.142615	–89.201557	194.4	6.9	11/01/1999	6
120532115700	89	Ford	Milford	40.602653	–88.427832	238.9	2.9	10/29/2001	6
120552465900	11	Franklin	Bonnie	37.979042	–88.835493	123.6	6.6	11/17/1998	6
120572480100	79	Fulton	Fayette	40.305260	–90.339493	156.8	7.0	10/23/2001	6
120572480200	84	Fulton	Rozetta	40.597824	–90.343331	158.0	5.0	10/30/2001	6
120572480300	85	Fulton	Hickory	40.591480	–89.954004	173.2	5.3	10/30/2001	6
120612110900	46	Greene	Muscatine	39.433275	–90.335362	165.4	6.7	11/03/1999	6
120632434700	103	Grundy	Reddick	41.182392	–88.426200	189.1	1.1	10/21/2002	5
120652535900	12	Hamilton	Zipp	37.974941	–88.469335	115.1	6.8	11/17/1998	6
120672132400	81	Hancock	Ipava	40.297711	–91.102245	160.0	4.3	10/23/2001	6
120672132500	82	Hancock	Atterberry	40.603934	–91.108535	158.3	7.0	10/24/2001	6
120732331400	107	Henry	Hickory	41.180811	–90.348791	238.7	5.0	10/22/2002	6
120732327500	108	Henry	Ipava	41.476641	–90.352822	246.1	7.3	10/22/2002	6
120732331500	110	Henry	Dickinson	41.184560	–89.964188	179.9	6.0	10/23/2002	6
120732331600	111	Henry	Selma	41.475551	–89.970725	185.5	3.9	10/23/2002	6
120752315600	97	Iroquois	Milford	40.873427	–88.035141	201.0	6.3	11/02/2001	6

Continued on next page

API no.	Core ID	County	Soil type	Latitude	Longitude	Elevation (m)	Depth of core (m)	Date collected	Subsamples (n)
120752315700	99	Iroquois	Watseka	40.874969	–87.659609	195.2	2.0	11/05/2001	6
120752315500	100	Iroquois	Lisbon	40.584738	–87.656844	209.8	2.7	11/13/2001	6
120752315200	101	Iroquois	Rutland	40.588303	–88.050844	212.0	4.3	11/05/2001	6
120772615300	8	Jackson	Belknap	37.685666	–89.210446	130.7	3.7	11/13/1998	6
120792531200	38	Jasper	Hoyleton	39.134259	–88.078135	176.0	5.8	10/29/1999	6
120812502100	26	Jefferson	Bluford	38.267509	–88.838011	151.1	3.0	11/18/1998	6
120832065300	44	Jersey	Keomah	39.142857	–90.330052	174.2	6.2	11/02/1999	6
120852309900	119	Jo Daviess	Fayette	42.345785	–90.357440	247.9	3.3	10/29/2002	6
120852310000	120	Jo Daviess	Atterberry	42.355471	–89.970268	289.2	4.0	10/29/2002	6
120872070300	3	Johnson	Hosmer	37.390018	–88.848546	148.6	3.6	10/11/1998	7
120893583400	133	Kane	Millbrook	42.052799	–88.406925	275.6	6.1	10/29/2003	6
120893583300	135	Kane	Saybrook	41.760599	–88.409256	169.0	6.1	10/29/2003	6
120912605600	98	Kankakee	Plattville	41.153730	–87.647820	195.0	1.2	11/05/2001	6
120912635800	102	Kankakee	Kankakee	41.174940	–88.037394	190.1	1.1	10/21/2002	6
120932442500	136	Kendall	Plattville	41.471238	–88.412526	206.9	4.0	10/29/2003	6
120952341400	91	Knox	Tama	40.887055	–90.347278	229.4	6.6	10/31/2001	6
120974909200	131	Lake	Grays-Markham	42.338409	–88.009593	242.1	6.1	10/28/2003	6
120992719000	104	LaSalle	Elburn	41.179872	–88.816312	198.6	4.9	10/21/2002	6
120992720000	114	LaSalle	Muscatine	41.472404	–88.806696	191.5	4.0	10/24/2002	6
121012976700	34	Lawrence	Ava	38.836222	–87.710588	154.9	4.2	10/27/1999	6
121032349800	115	Lee	Hartsburg	41.771976	–89.180776	226.9	3.8	10/25/2002	6
121032349900	116	Lee	Dakota	41.768891	–89.582236	207.9	6.2	10/25/2002	6
121052306000	95	Livingston	Ashkum	40.884522	–88.814097	198.3	4.6	11/02/2001	6
121052306100	96	Livingston	Ashkum	40.885324	–88.432739	209.3	4.0	11/02/2001	6
121072267900	64	Logan	Sawmill	40.017497	–89.576698	182.0	6.0	10/19/2000	6
121072271200	74	Logan	Sable	40.016780	–89.199948	195.3	6.7	10/26/2000	6
121072271300	77	Logan	Broadwell	40.307537	–89.579540	145.4	7.3	10/22/2001	6
121152296900	75	Macon	Catlin	40.009528	–88.821598	205.3	4.3	10/26/2000	6
121172396300	43	Macoupin	Harrison	39.141219	–89.942085	195.8	6.3	11/02/1999	6
121172396400	47	Macoupin	Wakeland	39.433705	–89.953232	175.0	6.2	11/03/1999	6
121192767000	28	Madison	Beaucoup	38.849167	–89.949326	134.6	6.5	10/25/1999	6
121212798900	20	Marion	Ava	38.552245	–88.837449	172.4	4.5	12/01/1998	6
121252200800	78	Mason	Onarga	40.307996	–89.957537	120.1	4.3	10/22/2001	6
121092283800	80	McDonough	Wakeland	40.302203	–90.734718	131.4	6.1	10/23/2001	6
121092283900	83	McDonough	Ipava	40.597140	–90.731382	231.6	6.7	10/31/2001	6
121114189600	132	McHenry	Ringwood	42.343684	–88.411511	274.3	6.1	10/28/2003	6
121132388700	72	McLean	Ipava	40.308790	–88.814788	240.9	5.0	10/25/2000	6
121132388800	73	McLean	Catlin	40.307093	–89.196729	223.6	3.2	10/25/2000	6
121132388900	88	McLean	Elkhart	40.601511	–88.812850	232.9	2.8	10/29/2001	6
121152296800	53	Menard	Drummer	39.724588	–88.821472	207.7	2.9	10/16/2000	6
121292150900	63	Menard	Arenzvill	40.011047	–89.955365	160.9	6.1	10/19/2000	5
121312173700	109	Mercer	Hickory	41.178938	–90.728307	207.1	5.2	10/23/2002	6
121332276500	16	Monroe	Marine	38.268573	–89.937675	131.6	4.6	11/19/1998	6
121332276600	17	Monroe	Riley	38.266580	–90.320468	119.6	5.2	11/20/1998	5
121352396500	42	Montgomery	Ross	39.142791	–89.577299	167.7	5.8	11/01/1999	6
121352396600	48	Montgomery	Herrick	39.434568	–89.570377	199.1	6.1	11/03/1999	6
121372196600	57	Morgan	Rozetta	39.715170	–90.330943	192.6	6.4	10/17/2000	6
121412520700	122	Ogle	Tama	42.060445	–89.575460	277.1	6.3	10/29/2002	6
121412521100	123	Ogle	Assumption	42.052144	–89.188936	216.8	5.1	10/30/2002	6
121433425800	92	Peoria	Rozetta	40.893094	–89.964791	215.1	5.5	11/01/2001	6
121433425900	93	Peoria	Strawn	40.885883	–89.585775	203.6	3.7	11/01/2001	6
121452888100	9	Perry	Stoy	37.984185	–89.576625	151.9	3.8	11/16/1998	6
121452888000	10	Perry	Hoyleton/Dar	37.979585	–89.208011	122.9	4.3	11/16/1998	6
121492163500	45	Pike	Fayette	39.429489	–90.703425	224.0	6.1	11/02/1999	6
121492163600	58	Pike	Sable	39.720517	–90.707900	188.8	6.7	10/17/2000	6
121492163700	59	Pike	Fayette	39.714684	–91.087109	203.3	2.7	10/18/2000	6
121512058200	4	Pope	Hurst	37.099175	–88.490821	106.1	3.5	10/11/1998	6
121512058100	5	Pope	Hosmer	37.376320	–88.487481	166.5	2.8	10/12/1998	6

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API no.	Core ID	County	Soil type	Latitude	Longitude	Elevation (m)	Depth of core (m)	Date collected	Subsamples (n)
121532089400	1	Pulaski	Karnak	37.105069	–89.217420	102.0	6.7	10/11/1998	6
121552070100	105	Putnam	Catlin	41.179263	–89.198828	210.1	4.9	10/21/2002	6
121592589500	33	Richland	Cisne	38.843130	–88.085053	145.7	4.3	10/27/1999	6
121652658400	6	Saline	Hurst	37.683796	–88.472848	112.8	4.9	10/12/1998	6
121672620000	55	Sangamon	Radford	39.709922	–89.576828	166.8	6.7	10/16/2000	6
121672620100	56	Sangamon	Sable	39.723535	–89.956388	197.9	6.3	10/17/2000	6
121732396700	50	Shelby	Dana	39.433311	–88.824085	191.7	5.8	11/04/1999	6
121632978200	27	St. Clair	Fayette	38.562054	–89.946805	127.8	6.4	10/25/1999	6
121772289500	121	Stephenson	Huntsville	42.359635	–89.573724	276.7	3.0	10/29/2002	6
121792446100	86	Tazewell	Stronghurst	40.601655	–89.576662	200.1	6.7	10/30/2001	6
121812148400	2	Union	Hosmer	37.395835	–89.210001	183.3	6.1	10/12/1998	7
121832554700	68	Vermilion	Flanagan	39.996363	–87.675479	213.4	4.8	10/24/2000	6
121832566600	69	Vermilion	Elliott	40.295438	–87.674530	211.1	4.3	10/24/2000	6
121852812300	23	Wabash	Hosmer	38.546208	–87.719452	137.5	6.6	12/02/1998	6
121872166500	90	Warren	Muscatine	40.891184	–90.720034	236.5	7.3	10/31/2001	6
121892465200	14	Washington	Bluford	38.259353	–89.210879	163.5	6.2	11/19/1998	6
121892465300	15	Washington	Bluford	38.277243	–89.566780	155.6	5.4	11/19/1998	6
121913265200	21	Wayne	Wynoose	38.549470	–88.466462	145.9	4.6	12/02/1998	6
121913265300	25	Wayne	Bonnie	38.262685	–88.467901	118.2	6.9	11/18/1998	6
121933198400	13	White	Alvin	37.972826	–88.100317	113.7	4.6	11/17/1998	5
121952334800	117	Whiteside	Otter	41.771734	–89.968303	187.0	6.1	10/28/2002	6
120313433400	127	Will	Martinton	41.472741	–87.645405	214.8	6.1	10/27/2003	6
121974143500	137	Will	Ashkum	41.467279	–88.031479	200.6	6.1	10/30/2003	6
121992396000	7	Williamson	Ava	37.691467	–88.844336	150.8	4.2	11/13/1998	5
122013255100	124	Winnebago	Winnebago	42.343514	–89.185205	251.9	2.0	10/30/2002	6
122032228800	87	Woodford	Rozetta	40.600952	–89.199600	229.3	5.3	10/29/2001	6
122032228900	94	Woodford	Drummer	40.887416	–89.198048	216.5	4.9	11/01/2001	6

APPENDIX 3—CORE IDENTIFICATION, COUNTY, SOIL TEXTURE, SOIL TYPE, SOIL ASSOCIATION, AND LAND USE (DREHER AND FOLLMER SERIES)

Core ID	County	Texture	Soil type	Soil association	Land use
60	Adams	Silt loam	Keomah	Clinton-Keomah-Rushville	Upland, forest
29	Bond	Silt loam	Darmstadt-Oconee	Oconee-Cowden-Piasa	Upland, prairie
125	Boone	Silt loam	Drummer	Catlin-Flanagan-Drummer	Upland, prairie
61	Brown	Silt loam	Rozetta	Fayette-Rozetta-Stronghurst	Upland, forest
106	Bureau	Silty clay loam	Catlin	Catlin-Flanagan-Drummer	Upland, prairie
112	Bureau	Silt loam	Port Byron	Port Byron-Joy	Upland, prairie
113	Bureau	Silty clay loam	Catlin	Catlin-Flanagan-Drummer	Upland, prairie
118	Carroll	Silt loam	Fayette	Fayette-Rozetta-Stronghurst	Upland, forest
62	Cass	Loamy sand	Plainfield	Oakville-Lamont-Alvin	Aeolian, prairie
65	Champaign	Silt loam	Flanagan	Catlin-Flanagan-Drummer	Upland, prairie
70	Champaign	Silty clay loam	Drummer	Catlin-Flanagan-Drummer	Upland, prairie
71	Champaign	Silt loam	Drummer	Catlin-Flanagan-Drummer	Upland, prairie
76	Champaign	Silt loam	Flanagan	Catlin-Flanagan-Drummer	Upland, prairie
49	Christian	Silt loam	Virden	Herrick-Virden-Piasa	Upland, prairie
54	Christian	Silt loam	Ipava	Tama-Ipava-Sable	Upland, prairie
36	Clark	Silt loam	Stoy	Hosmer-Stoy-Weir	Upland, forest
32	Clay	Silt loam	Wynoose	Ava-Bluford-Wynoose	Upland, forest
18	Clinton	Silt loam	Cowden	Oconee-Cowden-Piasa	Prairie
19	Clinton	Silt loam	Hoyleton	Hoyleton-Cisne-Huey	Prairie
37	Coles	Silt loam	Xenia	Dodge-Russell-Miami	Upland, forest
51	Coles	Silt loam	Toronto	Dodge-Russell-Miami	Upland, forest
128	Cook	Loam	Alvin	Oakville-Lamont-Alvin	Aeolian, forest
130	Cook	Silty clay loam	Mundelein	Plano-Proctor-Worthen	Alluvium, prairie
35	Crawford	Silt loam	Muren	Alford-Muren-Iva	Upland, forest
126	DeKalb	Silty clay loam	Drummer	Catlin-Flanagan-Drummer	Upland, prairie
134	DeKalb	Silt loam	Flanagan	Catlin-Flanagan-Drummer	Upland, prairie
52	Douglas	Silty clay loam	Drummer	Catlin-Flanagan-Drummer	Upland, prairie
66	Douglas	Silt loam	Toronto	Dodge-Russell-Miami	Upland, forest
129	DuPage	Silty clay loam	Markham	Marley-Blount-Beecher	Upland, forest
67	Edgar	Loam	Wingate	Dodge-Russell-Miami	Upland, forest
22	Edwards	Silt loam	Belknap	Haymond-Petrolia-Karnak	Alluvial, forest
24	Edwards	Silt loam	Hosmer	Hosmer-Stoy-Weir	Upland, forest
39	Effingham	Silt loam	Bluford	Ava-Bluford-Wynoose	Upland, forest
30	Fayette	Silt loam	Bluford	Ava-Bluford-Wynoose	Upland, forest
31	Fayette	Clay loam	Atlas	Fayette-Rozetta-Stronghurst	Upland, forest
40	Fayette	Silt loam	Bluford	Ava-Bluford-Wynoose	Upland, forest
41	Fayette	Silt loam	Oconee	Oconee-Cowden-Piasa	Upland, prairie
89	Ford	Silty clay loam	Milford	Martinton-Milford	Lacustrine, prairie
11	Franklin	Silt loam	Bonnie	Haymond-Petrolia-Karnak	Alluvial, forest
79	Fulton	Silt loam	Fayette	Fayette-Rozetta-Stronghurst	Upland, forest
84	Fulton	Silt loam	Rozetta	Fayette-Rozetta-Stronghurst	Upland, forest
85	Fulton	Silt loam	Hickory	Fayette-Rozetta-Stronghurst	Upland, forest
46	Greene	Silt loam	Muscatine	Tama-Muscatine-Sable	Upland, prairie
103	Grundy	Silty clay loam	Reddick	Symerton-Andres-Reddick	Upland, prairie
12	Hamilton	Silty clay loam	Zipp	Markland-Colp-Del Rey	Lacustrine, forest
81	Hancock	Silt loam	Ipava	Tama-Ipava-Sable	Upland, prairie
82	Hancock	Silt loam	Atterberry	Fayette-Rozetta-Stronghurst	Upland, forest
107	Henry	Silty clay loam	Hickory	Fayette-Rozetta-Stronghurst	Upland, forest
108	Henry	Silty clay loam	Ipava	Tama-Ipava-Sable	Upland, prairie
110	Henry	Sandy loam	Dickinson	Fayette-Rozetta-Stronghurst	Upland, forest
111	Henry	Loam	Selma	Jasper-LaHogue-Selma	Upland, prairie
97	Iroquois	Clay loam	Milford	Martinton-Milford	Lacustrine, prairie
99	Iroquois	Sandy loam	Watseka	Sparta-Dickinson-Onarga	Upland, prairie
100	Iroquois	Silt loam	Lisbon	Saybrook-Dana-Drummer	Upland, prairie
101	Iroquois	Silty clay loam	Rutland	Wenona-Rutland-Streator	Upland, prairie
8	Jackson	Silt loam	Belknap	Haymond-Petrolia-Karnak	Alluvial, forest

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Core ID	County	Texture	Soil type	Soil association	Land use
38	Jasper	Silt loam	Hoyleton	Hoyleton-Cisne-Huey	Upland, prairie
26	Jefferson	Silt loam	Bluford	Ava-Bluford-Wynoose	Alluvial, forest
44	Jersey	Silt	Keomah	Clinton-Keomah-Rushville	Upland, forest
119	Jo Daviess	Silt loam	Fayette	Fayette-Rozetta-Stronghurst	Upland, forest
120	Jo Daviess	Silt loam	Atterberry	Fayette-Rozetta-Stronghurst	Upland, forest
3	Johnson	Silt loam	Hosmer	Hosmer-Stoy-Weir	Upland forest
133	Kane	Silt loam	Millbrook	St. Charles-Camden-Drury	Upland, forest
135	Kane	Silty clay loam	Saybrook	Saybrook-Dana-Drummer	Upland, prairie
98	Kankakee	Loam	Plattville	Channahon-Dodgeville-Ashdale	Upland, prairie
102	Kankakee	Loam	Kankakee	Channahon-Dodgeville-Ashdale	Upland, prairie
136	Kendall	Silty clay loam	Plattville	Channahon-Dodgeville-Ashdale	Upland, prairie
91	Knox	Silt loam	Tama	Tama-Muscatine-Sable	Upland, prairie
131	Lake	Silty clay loam	Grays-Markham	St. Charles-Camden-Drury	Upland, forest
104	LaSalle	Silty clay loam	Elburn	Plano-Proctor-Worthen	Upland, prairie
114	LaSalle	Silty clay loam	Muscatine	Tama-Muscatine-Sable	Upland, prairie
34	Lawrence	Silt loam	Ava	Ava-Bluford-Wynoose	Upland, forest
115	Lee	Silt loam	Hartsburg	Tama-Ipava-Sable	Upland, prairie
116	Lee	Loam	Dakota	Lorenzo-Warsaw-Wea	Upland, prairie
95	Livingston	Silty clay loam	Ashkum	Varna-Elliott-Ashkum	Upland, prairie
96	Livingston	Silty clay loam	Ashkum	Varna-Elliott-Ashkum	Upland, prairie
64	Logan	Silt loam	Sawmill	Lawson-Sawmill-Darwin	Alluvium, prairie
74	Logan	Silty clay loam	Sable	Tama-Ipava-Sable	Upland, prairie
77	Logan	Silt loam	Broadwell	Broadwell-Waukegan-Pillot	Upland, prairie
75	Macon	Silt loam	Catlin	Catlin-Flanagan-Drummer	Upland, prairie
43	Macoupin	Silt	Harrison	Herrick-Virden-Piasa	Upland, prairie
47	Macoupin	Silt loam	Wakeland	Haymond-Petrolia-Karnak	Alluvial, forest
28	Madison	Silt loam	Beaucoup	Lawson-Sawmill-Darwin	Alluvial, prairie
20	Marion	Silt loam	Ava	Ava-Bluford-Wynoose	Upland, forest
78	Mason	Loamy sand	Onarga	Sparta-Dickinson-Onarga	Upland, prairie
80	McDonough	Loam	Wakeland	Haymond-Petrolia-Karnak	Alluvium, forest
83	McDonough	Silty clay loam	Ipava	Tama-Ipava-Sable	Upland, prairie
132	McHenry	Silt loam	Ringwood	Griswold-Ringwood	Upland, prairie
72	McLean	Silty clay loam	Ipava	Tama-Ipava-Sable	Upland, prairie
73	McLean	Silt loam	Catlin	Catlin-Flanagan-Drummer	Upland, prairie
88	McLean	Silty clay loam	Elkhart	Tama-Ipava-Sable	Upland, prairie
53	Menard	Silt loam	Drummer	Catlin-Flanagan-Drummer	Upland, prairie
63	Menard	Silt loam	Arenzvill	Haymond-Petrolia-Karnak	Alluvium, forest
109	Mercer	Silt loam	Hickory	Fayette-Rozetta-Stronghurst	Upland, forest
16	Monroe	Silty clay loam	Marine	Alford-Muren-Iva	Upland, forest
17	Monroe	Silty clay loam	Riley	Lawson-Sawmill-Darwin	Alluvial, prairie
42	Montgomery	Silt loam	Ross	Lawson-Sawmill-Darwin	Alluvial, prairie
48	Montgomery	Silt loam	Herrick	Herrick-Virden-Piasa	Upland, prairie
57	Morgan	Silt loam	Rozetta	Fayette-Rozetta-Stronghurst	Upland, forest
122	Ogle	Silt loam	Tama	Tama-Muscatine-Sable	Upland, prairie
123	Ogle	Silt loam	Assumption	Tama-Muscatine-Sable	Upland, prairie
92	Peoria	Silty clay loam	Rozetta	Fayette-Rozetta-Stronghurst	Upland, forest
93	Peoria	Silt loam	Strawn	Dodge-Russell-Miami	Upland, forest
9	Perry	Silt loam	Stoy	Hosmer-Stoy-Weir	Upland forest
10	Perry	Silt loam	Hoyleton/Dar	Hoyleton-Cisne-Huey	Upland prairie
45	Pike	Silt loam	Fayette	Fayette-Rozetta-Stronghurst	Upland, forest
58	Pike	Silt loam	Sable	Tama-Ipava-Sable	Upland, prairie
59	Pike	Silt loam	Fayette	Fayette-Rozetta-Stronghurst	Upland, forest
4	Pope	Silty clay loam	Hurst	Markland-Colp-DelRey	Lacustrine, forest
5	Pope	Silt loam	Hosmer	Hosmer-Stoy-Weir	Upland forest
1	Pulaski	Silty clay loam	Karnak	Haymond-Petrolia-Karnak	Alluvial, forest
105	Putnam	Silt loam	Catlin	Catlin-Flanagan-Drummer	Upland, prairie
33	Richland	Silt loam	Cisne	Hoyleton-Cisne-Huey	Upland, prairie
6	Saline	Silt loam	Hurst	Markland-Colp-DelRey	Lacustrine, forest

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Core ID	County	Texture	Soil type	Soil association	Land use
55	Sangamon	Silt loam	Radford	Lawson-Sawmill-Darwin	Alluvium, prairie
56	Sangamon	Silty clay	Sable	Tama-Ipava-Sable	Upland, prairie
50	Shelby	Silty clay	Dana	Saybrook-Dana-Drummer	Upland, prairie
27	St. Clair	Silt	Fayette	Fayette-Rozetta-Stronghurst	Upland, forest
121	Stephenson	Silt loam	Huntsville	Lawson-Sawmill-Darwin	Alluvium, prairie
86	Tazewell	Silt loam	Stronghurst	Fayette-Rozetta-Stronghurst	Upland, forest
2	Union	Silt loam	Hosmer	Hosmer-Stoy-Weir	Upland forest
68	Vermilion	Silt loam	Flanagan	Catlin-Flanagan-Drummer	Upland, prairie
69	Vermilion	Silty clay loam	Elliott	Varna-Elliott-Ashkum	Upland, prairie
23	Wabash	Silt loam	Hosmer	Hosmer-Stoy-Weir	Upland, forest
90	Warren	Silt loam	Muscatine	Tama-Muscatine-Sable	Upland, prairie
14	Washington	Silt loam	Bluford	Ava-Bluford-Wynoose	Upland, forest
15	Washington	Silt loam	Bluford	Ava-Bluford-Wynoose	Upland, forest
21	Wayne	Silt loam	Wynoose	Ava-Bluford-Wynoose	Upland, forest
25	Wayne	Silt loam	Bonnie	Haymond-Petrolia-Karnak	Alluvial, forest
13	White	Sandy loam	Alvin	Oakville-Lamont-Alvin	Windblown sand
117	Whiteside	Silt loam	Otter	Lawson-Sawmill-Darwin	Alluvium, prairie
127	Will	Silty clay loam	Martinton	Martinton-Milford	Lacustrine, prairie
137	Will	Silty clay loam	Ashkum	Varna-Elliott-Ashkum	Upland, prairie
7	Williamson	Silt loam	Ava	Ava-Bluford-Wynoose	Upland forest
124	Winnebago	Sandy loam	Winnebago	Winnebago-Durand-Ogle	Upland, prairie
87	Woodford	Silt loam	Rozetta	Fayette-Rozetta-Stronghurst	Upland, forest
94	Woodford	Silty clay loam	Drummer	Catlin-Flanagan-Drummer	Upland, prairie

APPENDIX 4—SAMPLE IDENTIFICATION; COUNTY; DEPTH INTERVAL; HORIZON; SAND, SILT, AND CLAY CONCENTRATIONS; AND SOIL TEXTURE (DREHER AND FOLLMER SERIES)

Note: An asterisk (*) indicates that an insufficient sample of core 15 was available to measure sand, silt, and clay contents.

Sample ID	County	Depth interval (m)	Horizon	Sand (%)	Silt (%)	Clay (%)	Texture
60-1	Adams	0.0–0.1	Ap	1.86	83.58	14.56	Silt loam
60-2	Adams	0.1–0.4	Ap2	1.50	84.06	14.44	Silt loam
60-3	Adams	0.4–0.5	E	3.70	83.90	12.40	Silt loam
60-6	Adams	0.6–0.9	Bt2	1.56	52.90	45.54	Silty clay
60-21	Adams	3.4–3.5	3Btt	18.99	46.51	34.50	Silty clay loam
60-40	Adams	7.2–7.3	3C	30.06	32.14	37.80	Clay loam
29-1	Bond	0.0–0.2	Ap	10.27	71.57	18.16	Silt loam
29-2	Bond	0.2–0.3	A1	6.82	74.04	19.14	Silt loam
29-3	Bond	0.3–0.4	Ae	5.28	77.50	17.22	Silt loam
29-4	Bond	0.4–0.7	E	2.90	67.04	30.06	Silty clay loam
29-9	Bond	2.1–2.4	C1	35.10	52.34	12.56	Silt loam
29-14	Bond	3.7–3.9	2A	64.61	18.25	17.14	Sandy loam
125-1	Boone	0.0–0.3	Ap1	8.31	69.23	22.46	Silt loam
125-2	Boone	0.3–0.4	Ap2	12.30	62.60	25.10	Silt loam
125-3	Boone	0.4–0.6	Bg	3.60	69.52	26.88	Silt loam
125-4	Boone	0.6–0.8	Bg	5.10	59.52	35.36	Silty clay loam
125-6	Boone	1.0–1.1	BCg	64.59	18.95	16.46	Silt loam
125-10	Boone	1.8–2.1	3C	43.92	38.54	17.54	Loam
61-1	Brown	0.0–0.2	Ap	8.48	70.88	20.64	Silt loam
61-2	Brown	0.2–0.4	Bt1	1.08	60.49	38.43	Silty clay loam
61-3	Brown	0.4–0.6	Bt1	0.32	63.96	35.72	Silty clay loam
61-4	Brown	0.6–0.8	Bt2	0.96	66.50	32.54	Silty clay loam
61-10	Brown	1.9–2.1	C	0.58	82.42	17.00	Silt loam
61-18	Brown	3.5–3.7	3Bt	15.46	48.48	36.06	Silty clay loam
106-1	Bureau	0.0–0.2	Ap	1.45	69.31	29.24	Silty clay loam
106-2	Bureau	0.2–0.4	BA	0.78	67.27	31.95	Silty clay loam
106-3	Bureau	0.4–0.6	Bt	1.27	70.95	27.78	Silty clay loam
106-4	Bureau	0.6–0.8	Bt	2.56	70.58	26.86	Silt loam
106-6	Bureau	1.0–1.2	B2tj	3.17	80.12	16.71	Silt loam
106-8	Bureau	1.3–1.5	C	4.42	85.82	9.76	Silt
112-1	Bureau	0.0–0.3	Ap1	3.26	77.42	19.32	Silt loam
112-3	Bureau	0.3–0.6	Btj	1.72	72.33	25.95	Silt loam
112-4	Bureau	0.6–0.7	Btj	2.50	71.48	26.02	Silt loam
112-6	Bureau	0.9–1.0	Btj	4.04	74.14	21.82	Silt loam
112-8	Bureau	1.2–1.4	BCtj	7.68	74.06	18.26	Silt loam
112-10	Bureau	1.5–1.7	C	11.28	69.44	19.28	Silt loam
113-1	Bureau	0.0–0.2	Ap	1.19	69.83	28.98	Silty clay loam
113-2	Bureau	0.2–0.4	Btj	0.99	63.81	35.20	Silty clay loam
113-3	Bureau	0.4–0.6	Bt	1.30	68.10	30.60	Silty clay loam
113-4	Bureau	0.6–0.7	Bt	1.96	74.29	23.76	Silt loam
113-5	Bureau	0.7–0.9	BCtj	2.32	81.96	15.72	Silt loam
113-6	Bureau	1.4–1.6	C	6.52	81.50	11.98	Silt
118-1	Carroll	0.0–0.3	Ap	3.68	80.22	16.10	Silt loam
118-2	Carroll	0.3–0.5	Btj	0.96	75.14	23.90	Silt loam
118-3	Carroll	0.5–0.6	Btj	1.56	71.86	26.58	Silt loam
118-5	Carroll	0.8–1.0	Bt	3.76	69.42	26.82	Silt loam
118-8	Carroll	1.4–1.6	Bt	3.00	70.38	26.62	Silt loam
118-11	Carroll	2.0–2.3	Ctj	1.36	81.68	16.96	Silt loam
62-1	Cass	0.0–0.2	Ap	84.06	13.34	2.60	Loamy sand
62-2	Cass	0.2–0.4	AB	84.99	12.29	2.72	Loamy sand
62-3	Cass	0.4–0.6	AB	83.33	13.18	3.40	Loamy sand
62-5	Cass	0.9–1.1	BA	84.26	12.78	2.96	Loamy sand
62-7	Cass	1.3–1.5	Bw	86.04	9.08	4.88	Loamy sand

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Sample ID	County	Depth interval (m)	Horizon	Sand (%)	Silt (%)	Clay (%)	Texture
62-17	Cass	3.2–3.4	Bâ	89.78	2.94	7.28	Sand
62-18	Cass	3.4–3.5	C	95.54	2.82	1.72	Sand
65-1	Champaign	0.0–0.2	Ap	3.02	69.98	27.00	Silt loam
65-2	Champaign	0.2–0.4	A2	1.72	66.76	31.52	Silty clay loam
65-3	Champaign	0.4–0.6	BAt	1.65	61.35	37.00	Silty clay loam
65-4	Champaign	0.6–0.8	Bt	1.32	63.34	35.34	Silty clay loam
65-5	Champaign	0.8–1.1	Btj	4.36	68.46	27.18	Silty clay loam
65-11	Champaign	1.9–2.1	3C	26.49	49.33	24.18	Loam
70-1	Champaign	0.0–0.4	Ap	5.47	65.42	29.11	Silty clay loam
70-2	Champaign	0.4–0.6	A	20.40	46.52	33.08	Clay loam
70-3	Champaign	0.6–0.9	AB	24.44	40.74	34.82	Clay loam
70-4	Champaign	0.9–1.1	BA	26.66	41.46	31.88	Clay loam
70-5	Champaign	1.1–1.3	Bg	32.02	37.92	30.06	Clay loam
70-8	Champaign	1.7–2.0	B3â	66.53	21.17	12.30	Sandy loam
71-1	Champaign	0.0–0.2	Ap	7.06	67.75	25.19	Silt loam
71-2	Champaign	0.2–0.4	AB	1.09	66.21	32.70	Silty clay loam
71-3	Champaign	0.4–0.6	Btj	0.69	71.06	28.25	Silty clay loam
71-4	Champaign	0.6–0.7	CB	0.85	86.37	12.78	Silt loam
71-5	Champaign	0.7–0.9	C	0.88	89.66	9.60	Silt
71-10	Champaign	1.7–1.9	2C	12.16	51.27	36.52	Silty clay loam
76-1	Champaign	0.0–0.3	Ap	9.39	68.62	21.99	Silt loam
76-3	Champaign	0.4–0.6	Bt	4.19	58.42	37.39	Silty clay loam
76-4	Champaign	0.6–0.8	Bt	6.65	60.02	33.33	Silty clay loam
76-5	Champaign	0.8–1.0	Btj	5.32	68.24	26.44	Silt loam
76-6	Champaign	1.0–1.2	BC	8.36	66.38	25.26	Silt loam
76-8	Champaign	1.3–1.4	2Câ	42.15	36.20	21.65	Loam
49-1	Christian	0.0–0.2	Ap	3.66	72.83	23.51	Silt loam
49-2	Christian	0.2–0.4	Ap2	3.11	65.17	31.72	Silty clay loam
49-3	Christian	0.4–0.6	BAt	2.36	61.6	36.04	Silty clay loam
49-5	Christian	0.8–1.1	Bgt2	4.90	66.76	28.34	Silty clay loam
49-7	Christian	1.3–1.4	CBtj	0.54	80.55	18.91	Silt loam
49-21	Christian	3.8–4.0	Bg	30.08	44.17	25.75	Loam
54-1	Christian	0.0–0.2	Ap	7.13	68.08	24.79	Silt loam
54-3	Christian	0.4–0.6	AB	1.75	61.89	36.36	Silty clay loam
54-4	Christian	0.6–0.7	B1	1.99	63.22	34.79	Silty clay loam
54-5	Christian	0.7–0.9	Bt	1.02	68.15	30.83	Silty clay loam
54-7	Christian	1.1–1.2	C	0.46	85.96	13.58	Silt loam
54-14	Christian	2.2–2.4	2Ab	9.19	69.31	21.50	Silt loam
36-1	Clark	0.0–0.3	Ap	5.81	77.67	16.51	Silt loam
36-2	Clark	0.3–0.4	EB1	3.76	73.53	22.71	Silt loam
36-3	Clark	0.4–0.7	EB2	2.08	70.54	27.38	Silty clay loam
36-4	Clark	0.7–0.9	B1	2.64	70.10	27.26	Silty clay loam
36-6	Clark	1.4–1.6	Btx2	30.98	54.98	14.04	Silt loam
36-8	Clark	2.1–2.4	C1	43.18	28.87	27.95	Clay loam
32-1	Clay	0.0–0.2	Ap	16.73	65.40	17.87	Silt loam
32-2	Clay	0.2–0.5	Eg1	15.72	63.37	20.91	Silt loam
32-3	Clay	0.5–0.8	Eg2	16.12	62.32	21.56	Silt loam
32-4	Clay	0.8–1.4	Btg	12.60	50.40	37.00	Silty clay loam
32-6	Clay	1.4–2.1	C1	23.72	45.91	30.37	Clay loam
32-11	Clay	4.3–4.9	C6	43.50	39.65	16.85	Loam
18-01	Clinton	0.0–0.1	A	4.50	84.34	11.16	Silt loam
18-02	Clinton	0.1–0.2	A	4.11	84.68	11.21	Silt loam
18-03	Clinton	0.2–0.3	A	4.46	84.40	11.14	Silt loam
18-04	Clinton	0.3–0.5	E	5.02	84.44	10.54	Silt loam
18-10	Clinton	1.0–1.3	B	1.92	65.50	32.58	Silty clay
18-16	Clinton	2.4–3.1	C	25.50	54.54	19.96	Silt loam
19-01	Clinton	0.0–0.1	A	16.64	69.25	14.11	Silt loam
19-02	Clinton	0.1–0.2	A	5.50	79.10	15.40	Silt loam
19-03	Clinton	0.2–0.3	E	7.00	76.24	16.76	Silt loam

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Sample ID	County	Depth interval (m)	Horizon	Sand (%)	Silt (%)	Clay (%)	Texture
19-04	Clinton	0.3–0.4	B	2.00	57.51	40.49	Silty clay
19-05	Clinton	0.4–0.6	B	0.83	54.00	45.17	Silty clay
19-13	Clinton	1.7–2.1	2B	18.19	55.97	25.84	Silt loam
37-1	Coles	0.0–0.2	Ap	18.32	63.08	18.60	Silt loam
37-2	Coles	0.2–0.4	A	13.61	55.00	31.39	Silty clay loam
37-3	Coles	0.4–0.5	AB	8.37	49.39	42.24	Silty clay
37-4	Coles	1.5–0.8	Bt1	6.78	55.75	37.47	Silty clay loam
37-8	Coles	1.5–1.8	C2	46.84	32.74	20.42	Loam
37-11	Coles	2.2–2.4	Cg5	17.20	59.64	23.16	Silt loam
51-1	Coles	0.0–0.2	Ap	6.75	72.90	20.35	Silt loam
51-2	Coles	0.2–0.4	Ap2	5.40	70.00	24.60	Silt loam
51-3	Coles	0.4–0.6	BA	2.67	56.90	40.43	Silty clay
51-4	Coles	0.6–0.8	Bt	3.30	57.92	38.78	Silty clay loam
51-6	Coles	1.1–1.2	B/C	24.11	50.49	25.40	Loam
51-21	Coles	4.1–4.2	D	31.60	46.95	21.45	Loam
128-1	Cook	0.0–0.2	A1	42.98	39.11	17.91	Loam
128-2	Cook	0.2–0.3	A2	25.86	47.29	26.85	Loam
128-3	Cook	0.3–0.6	Bwcalc	93.77	5.47	0.76	Sand
128-4	Cook	0.6–0.8	Bwcalc	95.42	4.18	0.40	Sand
128-7	Cook	1.0–1.1	Ab2	78.30	16.50	5.20	Loamy sand
128-9	Cook	1.2–1.4	C2	89.24	8.20	2.56	Sand
130-1	Cook	0.0–0.2	A	4.30	60.26	35.44	Silty clay loam
130-3	Cook	0.4–0.6	B1	1.96	58.69	39.35	Silty clay loam
130-5	Cook	0.7–0.9	B2g	1.61	58.65	39.74	Silty clay loam
130-8	Cook	1.2–1.3	CBg	2.22	59.71	38.07	Silty clay loam
130-12	Cook	1.6–1.8	CD	3.48	69.04	27.48	Silty clay loam
130-13	Cook	1.8–2.0	D	2.94	68.10	28.96	Silty clay loam
35-1	Crawford	0.0–0.2	Ap	13.52	73.24	13.24	Silt loam
35-2	Crawford	0.2–0.4	E	11.00	70.60	18.40	Silt loam
35-3	Crawford	0.4–0.5	BE	6.22	63.86	29.92	Silty clay loam
35-4	Crawford	1.5–0.9	Bt1	4.96	62.24	32.80	Silty clay loam
35-6	Crawford	1.2–1.6	Bt3	6.46	76.48	17.06	Silt loam
35-9	Crawford	2.4–2.7	B6	24.50	53.81	21.69	Silt loam
126-1	DeKalb	0.0–0.3	Ap	2.27	65.59	32.14	Silty clay loam
126-2	DeKalb	0.3–0.5	A2	2.84	57.27	39.89	Silty clay loam
126-3	DeKalb	0.5–0.6	AB	3.67	57.15	39.18	Silty clay loam
126-5	DeKalb	0.8–1.0	Bg	3.23	61.05	35.72	Silty clay loam
126-7	DeKalb	1.2–1.4	Bg	4.24	64.39	31.37	Silty clay lam
126-11	DeKalb	1.8–2.0	2C	39.16	43.13	17.71	Loam
134-1	DeKalb	0.0–0.2	Ap	3.98	70.89	25.13	Silt loam
134-2	DeKalb	0.2–0.4	B1	1.63	66.67	31.70	Silty clay loam
134-3	DeKalb	0.4–0.6	B2tj	1.60	64.50	33.90	Silty clay loam
134-4	DeKalb	0.6–0.8	B3t	5.02	62.87	32.11	Silty clay loam
134-5	DeKalb	0.8–1.0	B4t	22.92	49.87	27.21	Clay loam
134-6	DeKalb	1.0–1.2	C	36.35	45.76	17.89	Loam
52-1	Douglas	0.0–0.3	Ap	7.72	61.69	30.59	Silty clay loam
52-2	Douglas	0.3–0.5	BA	6.94	59.83	33.23	Silty clay loam
52-3	Douglas	0.5–0.6	Bg	6.14	59.66	34.20	Silty clay loam
52-5	Douglas	0.9–1.0	BCtj	7.06	62.95	29.99	Silty clay loam
52-7	Douglas	1.2–1.4	C	11.98	62.19	25.83	Silt loam
52-14	Douglas	2.8–3.0	2DC	29.96	44.64	25.40	Loam
66-1	Douglas	0.0–0.3	Ap	14.22	64.94	20.84	Silt loam
66-2	Douglas	0.3–0.5	AB	8.10	52.23	39.67	Silty clay loam
66-3	Douglas	0.5–0.7	BA	10.73	51.90	37.37	Silty clay loam
66-4	Douglas	0.7–0.9	Bg	11.26	55.70	33.04	Silty clay loam
66-5	Douglas	0.9–1.1	Bg	15.56	56.94	27.50	Silty clay loam
66-6	Douglas	1.1–1.3	2C	27.64	50.02	22.34	Loam
129-01	DuPage	0.0–0.2	Bw	15.50	54.06	30.44	Silty clay loam
129-04	DuPage	0.8–1.1	C	16.33	55.01	28.66	Silty clay loam

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Sample ID	County	Depth interval (m)	Horizon	Sand (%)	Silt (%)	Clay (%)	Texture
129-05	DuPage	1.1–1.3	2Oa	5.86	61.78	32.36	Silty clay loam
129-06	DuPage	1.3–1.5	2Bg	1.08	68.22	30.70	Silty clay loam
129-07	DuPage	1.5–1.6	3Bg	13.04	62.72	24.24	Silt loam
129-11	DuPage	2.0–2.2	3C22	17.76	53.90	28.34	Silty clay loam
67-1	Edgar	0.0–0.2	Ap	25.68	49.60	24.72	Loam
67-2	Edgar	0.2–0.4	A	7.18	66.10	26.72	Silt loam
67-3	Edgar	0.4–0.6	A	4.26	69.10	26.64	Silt loam
67-5	Edgar	0.7–0.8	Bt	2.18	55.28	42.54	Silty clay
67-7	Edgar	1.0–1.2	BCt	9.34	62.70	27.96	Silty clay loam
67-9	Edgar	1.4–1.7	2C	37.60	42.76	19.64	Loam
22-01	Edwards	0.0–0.1	A	28.60	57.80	13.60	Silt loam
22-02	Edwards	0.1–0.4	A	42.22	48.10	9.68	Loam
22-03	Edwards	0.4–0.6	A	36.03	54.65	9.32	Silt loam
22-04	Edwards	0.6–0.9	A	46.76	45.00	8.24	Silt loam
22-08	Edwards	1.4–1.8	C	32.92	54.86	12.22	Silt loam
22-14	Edwards	2.9–3.1	C	71.92	14.40	13.68	Sandy loam
24-01	Edwards	0.0–0.2	A	4.56	80.44	15.00	Silt loam
24-02	Edwards	0.2–0.4	A	1.74	77.06	21.20	Silt loam
24-03	Edwards	0.4–0.5	B	1.02	69.86	29.12	Silty clay loam
24-04	Edwards	0.5–0.6	B	1.00	69.65	29.35	Silty slay loam
24-10	Edwards	1.8–2.2	C	34.26	46.22	19.52	Loam
24-16	Edwards	2.8–3.0	2B	46.70	30.66	22.64	Loam
39-1/2	Effingham	0.0–0.3	A	15.15	68.93	15.92	Silt loam
39-3	Effingham	0.3–0.4	E	5.17	59.10	35.73	Silty clay loam
39-4	Effingham	0.4–0.8	B1	3.46	57.94	38.60	Silty clay loam
39-5	Effingham	0.8–0.9	B2	4.83	65.94	29.23	Silty clay loam
39-7	Effingham	1.0–1.3	2B1	24.56	52.48	22.96	Silt loam
39-13	Effingham	2.7–2.9	3Bt4	35.88	32.41	31.71	Clay loam
30-1	Fayette	0.0–0.2	Ap	10.45	75.60	13.95	Silt loam
30-2	Fayette	0.2–0.4	AE	6.62	74.94	18.44	Silt loam
30-3	Fayette	0.4–0.5	E	4.60	70.61	24.79	Silt loam
30-4	Fayette	0.5–0.9	B1	7.08	61.52	31.40	Silty clay loam
30-8	Fayette	1.6–1.8	2B	42.00	36.76	21.24	Loam
31-1	Fayette	0.0–0.1	Ap	24.83	46.59	28.58	Clay loam
31-2	Fayette	0.1–0.4	Bt1	20.61	43.12	36.27	Clay loam
31-3	Fayette	0.4–0.7	Bt2	25.97	42.59	31.44	Clay loam
31-4	Fayette	0.7–1.1	Bt3	33.43	37.49	29.08	Clay loam
31-8	Fayette	1.1–2.0	B7	52.20	31.62	16.18	Loam
31-20	Fayette	3.8–4.9	2A	23.94	54.69	21.37	Silt loam
40-1	Fayette	0.0–0.1	Ap	15.20	70.17	14.63	Silt loam
40-2	Fayette	0.1–0.4	E	10.17	72.27	17.56	Silt loam
40-3	Fayette	0.4–0.5	B1	7.04	64.38	28.58	Silty clay loam
40-4	Fayette	0.5–0.7	B2	5.91	62.23	31.86	Silty clay loam
40-7	Fayette	1.0–1.2	2B1	5.32	59.96	34.72	Silty clay loam
40-14	Fayette	2.8–3.1	3Bt1	35.14	36.73	28.13	Clay loam
41-1	Fayette	0.0–0.3	Ap	5.13	78.19	16.68	Silt loam
41-2	Fayette	0.3–0.4	E1	4.20	74.64	21.16	Silt loam
41-3	Fayette	0.4–0.5	E2	3.48	74.46	22.06	Silt loam
41-4	Fayette	0.5–0.7	EB	4.97	63.58	31.45	Silty clay loam
41-9	Fayette	1.8–2.4	C1	23.47	61.17	15.36	Silt loam
41-23	Fayette	5.2–5.5	3C2	30.25	47.01	22.74	Loam
89-1	Ford	0.0–0.3	Ap	11.72	60.61	27.67	Silty clay loam
89-2	Ford	0.3–0.5	Bg1	6.15	62.54	31.31	Silty clay loam
89-3	Ford	0.5–0.6	Bgt21	3.61	53.65	42.74	Silty clay
89-4	Ford	0.6–0.9	Bgt22	3.78	59.06	37.16	Silty clay loam
89-5	Ford	0.9–1.0	2Bg3	59.87	27.69	12.44	Sandy loam
89-7	Ford	1.1–1.3	2C	76.01	16.15	7.84	Sandy loam
11-1	Franklin	0.0–0.2	Ap	7.06	75.58	17.36	Silt loam
11-2	Franklin	0.2–0.4	AE	5.41	77.87	16.72	Silt loam

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Sample ID	County	Depth interval (m)	Horizon	Sand (%)	Silt (%)	Clay (%)	Texture
11-3	Franklin	0.4–0.6	AE	7.38	79.10	13.52	Silt loam
11-5	Franklin	0.9–1.1	B	14.10	71.40	14.50	Silt loam
11-8	Franklin	1.6–1.7	B	19.04	65.40	15.56	Silt loam
11-34	Franklin	6.8–6.9	C	27.36	56.07	16.57	Silt loam
79-1	Fulton	0.0–0.2	Ap	2.14	82.36	15.50	Silt loam
79-2	Fulton	0.2–0.3	E	1.94	78.62	19.44	Silt loam
79-3	Fulton	0.3–0.4	BE	1.78	67.38	30.84	Silty clay loam
79-4	Fulton	0.4–0.6	Bt	0.84	70.53	28.63	Silty clay loam
79-6	Fulton	0.8–1.1	Bt2	0.64	68.44	30.92	Silty clay loam
79-11	Fulton	1.6–1.8	C	0.69	81.16	18.16	Silt loam
84-1	Fulton	0.0–0.2	Ap	6.42	70.80	22.78	Silt loam
84-2	Fulton	0.2–0.4	Btj	4.67	63.33	32.00	Silty clay loam
84-3	Fulton	0.4–0.6	Bt	8.46	61.19	30.35	Silty clay loam
84-5	Fulton	0.8–1.0	Bt	7.49	65.61	26.90	Silty clay loam
84-9	Fulton	1.4–1.7	2Bw	83.94	5.82	10.24	Loamy sand
84-14	Fulton	2.3–2.4	2C	67.03	21.37	11.60	Sandy loam
85-1	Fulton	0.0–0.1	Ap	2.69	76.08	21.23	Silt loam
85-2	Fulton	0.1–0.4	Bt	1.13	69.64	29.23	Silty clay loam
85-3	Fulton	0.4–0.6	Bt	0.82	67.03	32.15	Silty clay loam
85-5	Fulton	0.8–1.0	Bt	0.85	67.92	31.23	Silty clay loam
85-9	Fulton	1.7–1.9	CBt	2.85	73.84	23.31	Silt loam
85-13	Fulton	2.3–2.5	C	1.54	81.98	16.48	Silt loam
46-1	Greene	0.0–0.2	Ap	0.38	80.74	18.88	Silt loam
46-2	Greene	0.2–0.4	A	0.41	79.79	19.80	Silt loam
46-4	Greene	0.6–0.7	AB	0.86	71.70	27.44	Silty clay loam
46-5	Greene	0.7–0.9	B/Ab	0.56	65.56	33.88	Silty clay loam
46-8	Greene	1.2–1.5	Bg	1.12	69.08	29.80	Silty clay loam
46-33	Greene	5.7–5.9	2DC	45.10	36.22	18.68	Loam
103-1	Grundy	0.0–0.2	Ap	18.89	49.76	31.35	Silty clay loam
103-2	Grundy	0.2–0.5	A	17.37	50.62	32.01	Silty clay loam
103-3	Grundy	0.5–0.6	BA	18.94	50.85	30.21	Silty clay loam
103-4	Grundy	0.6–0.7	Btj	49.31	35.95	14.74	Loam
103-5	Grundy	0.7–0.9	Ctj	21.78	50.48	27.74	Clay loam
12-1	Hamilton	0.1–0.2	Ap	4.74	62.51	32.75	Silty clay loam
12-2	Hamilton	0.2–0.4	B	3.87	57.46	38.67	Silty clay loam
12-4	Hamilton	0.4–0.6	B	3.90	58.24	37.86	Silty clay loam
12-6	Hamilton	0.9–1.0	B	3.18	57.42	39.40	Silty clay loam
12-19	Hamilton	2.8–3.1	2B	5.64	69.60	24.76	Silt loam
12-27	Hamilton	6.7–6.9	3C	21.73	46.65	31.62	Clay loam
81-1	Hancock	0.0–0.2	A	8.71	68.66	22.63	Silt loam
81-2	Hancock	0.2–0.6	AB	4.10	69.04	26.86	Silt loam
81-3	Hancock	0.6–0.7	Bt	3.81	57.48	38.71	Silty clay loam
81-5	Hancock	0.9–1.1	Btg	16.90	43.26	39.84	Silty clay loam
81-7	Hancock	1.3–1.5	Btg	18.23	39.02	42.75	Clay
81-13	Hancock	2.2–2.4	Btox	29.14	39.23	31.63	Clay loam
82-1	Hancock	0.0–0.2	A	1.98	74.63	23.39	Silt loam
82-2	Hancock	0.2–0.4	AB	0.66	67.49	31.85	Silty clay loam
82-3	Hancock	0.4–0.6	Bt	1.48	77.04	21.48	Silt loam
82-4	Hancock	0.6–1.0	Bt	0.97	66.57	32.46	Silty clay loam
82-9	Hancock	1.7–1.9	CBgt	1.10	72.81	26.09	Silt loam
82-13	Hancock	2.4–2.7	Cgtj	0.90	80.38	18.72	Silt loam
107-1	Henry	0.0–0.2	Ap	0.51	69.51	29.98	Silty clay loam
107-2	Henry	0.2–0.3	Bt1	0.40	72.64	26.96	Silt loam
107-3	Henry	0.3–0.6	Bt2	0.70	75.26	24.04	Silt loam
107-4	Henry	0.6–0.7	Bt3	0.60	77.87	21.53	Silt loam
107-6	Henry	0.8–0.9	2Ab	7.83	71.57	20.60	Silt loam
107-9	Henry	1.2–1.4	3BtA	21.82	39.88	38.30	Clay loam
108-1	Henry	0.0–0.2	Ap	1.11	66.09	32.80	Silty clay loam
108-2	Henry	0.2–0.4	A2	1.28	63.48	35.24	Silty clay loam

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Sample ID	County	Depth interval (m)	Horizon	Sand (%)	Silt (%)	Clay (%)	Texture
108-3	Henry	0.4–0.6	Bt	1.49	62.42	36.09	Silty clay loam
108-5	Henry	0.8–1.0	Bt	0.86	66.28	32.86	Silty clay loam
108-7	Henry	1.2–1.4	BCtj	0.90	74.65	24.45	Silt loam
108-10	Henry	1.8–2.0	C21	0.52	81.34	18.14	Silt loam
110-1	Henry	0.0–0.2	Ap	56.38	30.36	13.26	Sandy loam
110-2	Henry	0.2–0.3	Btj	23.90	56.40	19.70	Sandy loam
110-3	Henry	0.3–0.5	Bt	56.65	22.85	20.50	Sandy clay loam
110-5	Henry	0.7–0.8	Bt	78.62	7.39	13.99	Sandy loam
110-7	Henry	0.9–1.0	E	87.71	8.07	4.22	Sand
110-9	Henry	1.2–1.4	C	95.68	3.18	1.14	Sand
111-1	Henry	0.0–0.3	Ap	41.14	35.90	22.96	Loam
111-2	Henry	0.3–0.4	A12	41.95	35.91	22.14	Loam
111-3	Henry	0.4–0.6	A13	46.84	32.90	20.26	Loam
111-4	Henry	0.6–0.8	BA	39.93	37.41	22.66	Loam
111-5	Henry	0.8–1.0	AB	56.68	27.82	15.50	Sandy loam
111-6	Henry	1.0–1.1	C1	87.77	7.25	4.98	Sand
100-1	Iroquois	0.0–0.2	Ap	24.77	53.84	21.39	Silt loam
100-2	Iroquois	0.2–0.3	BAt	17.39	51.01	31.60	Silty clay loam
100-3	Iroquois	0.3–0.6	Bt	11.24	58.10	30.66	Silty clay loam
100-5	Iroquois	0.6–0.7	B3t	10.83	70.74	18.43	Silt loam
100-6	Iroquois	0.6–1.0	C	11.00	72.82	16.18	Silt loam
100-8	Iroquois	1.3–1.5	C	5.62	80.54	13.84	Silt loam
101-1	Iroquois	0.0–0.2	Ap	7.02	55.87	37.11	Silty clay loam
101-2	Iroquois	0.2–0.4	BA	3.28	46.00	50.72	Silty clay
101-3	Iroquois	0.4–0.6	Bgtj	2.88	41.08	56.04	Silty clay
101-4	Iroquois	0.6–0.8	Bgt	5.57	37.58	56.85	Clay
101-5	Iroquois	0.8–1.1	Cgtj	3.64	45.08	51.28	Silty clay
101-7	Iroquois	1.3–1.5	Cg	5.17	44.32	50.51	Silty clay
97-1	Iroquois	0.0–0.2	Ap	20.61	50.11	29.28	Clay loam
97-2	Iroquois	0.2–0.4	A2	20.46	49.45	30.09	Clay loam
97-3	Iroquois	0.4–0.6	Bg	19.62	47.86	32.52	Clay loam
97-5	Iroquois	0.8–1.0	Bg	20.75	49.81	29.44	Silty clay loam
97-7	Iroquois	1.2–1.4	C	4.55	60.83	34.62	Clay loam
97-9	Iroquois	1.8–2.0	C	2.29	67.22	30.49	Silty clay loam
99-1	Iroquois	0.0–0.3	Ap	74.76	17.96	7.28	Sandy loam
99-2	Iroquois	0.3–0.4	BA	76.99	16.54	6.47	Loamy sand
99-3	Iroquois	0.4–0.6	Bw	80.93	11.79	7.28	Loamy sand
99-6	Iroquois	0.9–1.1	Bg	88.36	1.54	10.10	Loamy sand
99-8	Iroquois	1.3–1.5	CBg	65.22	31.28	3.50	Sand
99-9	Iroquois	1.5–1.7	Cg	65.58	31.36	3.06	Sand
8-1	Jackson	0.0–0.3	B	24.07	55.77	20.16	Silt loam
8-2	Jackson	0.3–0.4	C	10.94	72.78	16.28	Silt loam
8-3	Jackson	0.4–0.5	C	11.40	71.52	17.08	Silt loam
8-6	Jackson	1.0–1.2	2B	2.41	86.45	11.14	Silt loam
8-12	Jackson	2.4–2.7	3A	33.81	48.27	17.92	Silt loam
8-22	Jackson	4.1–4.2	4C	1.70	79.32	18.98	Silt loam
38-1	Jasper	0.0–0.2	Ap	12.79	70.55	16.48	Silt loam
38-2	Jasper	0.2–0.4	AE	12.84	69.44	17.72	Silt loam
38-3	Jasper	0.4–0.6	E	11.89	70.87	17.24	Silt loam
38-5	Jasper	0.6–0.9	Bt1	2.84	49.14	48.02	Silty clay
38-8	Jasper	1.5–1.9	2A1	29.88	44.58	25.54	Loam
38-13	Jasper	3.7–3.8	2Bt4	39.56	29.24	31.20	Clay loam
26-01	Jefferson	0.0–0.2	A	11.72	76.40	11.88	Silt loam
26-02	Jefferson	0.2–0.5	A	18.70	66.86	14.44	Silt loam
26-03	Jefferson	0.5–0.6	E	19.90	63.96	16.14	Silt loam
26-04	Jefferson	0.6–0.9	B	28.60	57.78	13.62	Silt loam
26-08	Jefferson	1.5–1.7	2C	19.82	45.20	34.98	Silty clay loam
26-15	Jefferson	2.4–2.8	2D	2.38	73.60	24.02	Silt loam
44-1	Jersey	0.0–0.3	Ap	3.74	85.94	10.32	Silt

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Sample ID	County	Depth interval (m)	Horizon	Sand (%)	Silt (%)	Clay (%)	Texture
44-2	Jersey	0.3–0.5	EB	3.27	77.58	19.15	Silt loam
44-3	Jersey	0.5–0.6	B	1.94	62.21	35.85	Silty clay loam
44-4	Jersey	0.6–0.9	Btj	2.20	64.45	33.35	Silty clay loam
44-13	Jersey	2.4–2.7	2Ab	11.77	63.51	24.72	Silt loam
44-29	Jersey	5.4–5.5	2C	37.38	45.36	17.26	Loam
119-1	Jo Daviess	0.0–0.2	Ap	5.19	78.47	16.34	Silt loam
119-2	Jo Daviess	0.2–0.4	Ap	2.72	77.18	20.15	Silt loam
119-3	Jo Daviess	0.4–0.6	BA	3.13	72.23	24.64	Silt loam
119-5	Jo Daviess	0.7–0.9	Bt	1.55	69.43	29.02	Silty clay loam
119-6	Jo Daviess	0.9–1.0	Bt	0.53	74.59	24.85	Silt loam
119-11	Jo Daviess	1.6–1.9	2Cr	2.32	43.18	54.50	Silty clay
120-1	Jo Daviess	0.0–0.1	Ap	3.69	69.81	26.50	Silt loam
120-2	Jo Daviess	0.1–0.3	Bt	2.13	68.16	29.71	Silty clay loam
120-4	Jo Daviess	0.4–0.6	Bt	0.86	65.94	33.20	Silty clay loam
120-5	Jo Daviess	0.6–0.8	Btg	1.22	65.53	33.25	Silty clay loam
120-8	Jo Daviess	0.9–1.0	C	0.62	72.93	26.45	Silt loam
120-15	Jo Daviess	1.4–1.6	2Ab	1.46	64.87	33.67	Silty clay loam
3-1	Johnson	0.0–0.2	Ap	4.65	80.43	14.92	Silt loam
3-2	Johnson	0.2–0.4	B	3.13	77.83	19.04	Silt loam
3-3	Johnson	0.4–0.6	B	5.99	75.92	18.09	Silt loam
3-4	Johnson	0.6–0.9	B	5.18	71.38	23.44	Silt loam
3-5	Johnson	0.9–1.3	B	1.51	67.26	31.23	Silty clay loam
3-10	Johnson	2.0–2.2	B	2.82	74.96	22.22	Silt loam
3-14	Johnson	3.0–3.6	B	1.18	24.75	74.07	Clay
133-1	Kane	0.0–0.3	Ap	15.20	66.89	17.91	Silt loam
133-2	Kane	0.3–0.5	Btj	18.06	54.81	27.13	Silty clay loam
133-3	Kane	0.5–0.6	2Bt	25.24	49.91	24.85	Loam
133-4	Kane	0.6–0.7	2BC	34.71	44.67	20.62	Loam
133-5	Kane	0.8–1.0	2C1	32.52	55.04	12.44	Silt loam
133-6	Kane	1.0–1.2	2C2	37.60	53.23	9.17	Silt loam
135-1	Kane	0.0–0.3	Ap	4.11	67.12	28.77	Silty clay loam
135-2	Kane	0.3–0.5	Btj	14.56	47.48	37.96	Silty clay loam
135-3	Kane	0.5–0.6	Btj	37.34	28.29	34.37	Clay loam
135-4	Kane	0.6–0.7	2Bt	20.20	35.63	44.17	Clay
135-5	Kane	0.7–0.9	2CB	20.29	52.83	26.88	Silt loam
135-6	Kane	0.9–1.2	2C	25.20	55.34	19.46	Silt loam
102-1	Kankakee	0.0–0.2	A	43.17	41.97	14.86	Loam
102-2	Kankakee	0.2–0.4	E	52.36	34.36	13.28	Silt loam
102-3	Kankakee	0.4–0.6	Bt	52.12	28.36	19.54	Silt loam
102-4	Kankakee	0.6–0.7	Bt	50.14	21.94	27.92	Silty clay loam
102-5	Kankakee	0.7–0.9	Bt*f*r	43.60	23.17	33.23	Clay loam
102-6	Kankakee	0.9–1.1	Cr	63.24	27.12	9.64	Silt loam
98-1	Kankakee	0.0–0.2	Ap	30.33	49.68	19.99	Loam
98-2	Kankakee	0.2–0.5	Bt	44.66	30.41	24.93	Loam
98-3	Kankakee	0.5–0.6	Ab	43.59	36.92	19.49	Loam
98-5	Kankakee	0.6–0.8	Bt	54.68	20.48	24.84	Sandy clay loam
98-6	Kankakee	0.8–1.0	Bt	56.55	20.40	23.05	Sandy clay loam
98-7	Kankakee	1.0–1.2	Cr	32.26	57.70	10.04	Silt loam
136-1	Kendall	0.0–0.2	Ap1	3.84	69.10	27.06	Silty clay loam
136-4	Kendall	0.5–0.6	Btj	1.43	64.31	34.26	Silty clay loam
136-6	Kendall	0.8–0.9	Btj	6.28	61.43	32.29	Silty clay loam
136-8	Kendall	1.1–1.4	2Bt	51.67	23.53	24.80	Sandy clay loam
136-9	Kendall	1.4–1.5	2C1	44.82	38.92	16.26	Loam
136-10	Kendall	1.5–1.7	2C2	36.00	47.09	16.91	Loam
91-1	Knox	0.0–0.2	Ap1	0.57	73.22	26.20	Silt loam
91-2	Knox	0.2–0.4	Ap2	0.55	71.64	27.81	Silty clay loam
91-3	Knox	0.4–0.6	BA	1.22	68.32	30.46	Silty clay loam
91-5	Knox	0.8–1.0	Btj	1.37	32.76	65.87	Silty clay loam
91-7	Knox	1.1–1.3	CBtj	1.32	72.79	25.90	Silt loam

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Sample ID	County	Depth interval (m)	Horizon	Sand (%)	Silt (%)	Clay (%)	Texture
91-11	Knox	1.9–2.1	C	0.34	79.60	20.06	Silt loam
131-1	Lake	0.0–0.1	A+C1	18.31	47.95	33.74	Silty clay loam
131-3	Lake	0.3–0.5	C3	15.72	36.12	48.16	Clay
131-4	Lake	0.5–0.6	2CB	3.31	53.85	42.84	Silty clay
131-5	Lake	0.6–0.8	2C	3.33	51.31	45.36	Silty clay
131-6	Lake	0.8–1.0	2C	2.56	51.18	46.26	Silty clay
131-7	Lake	1.0–1.2	2C	0.94	52.74	46.32	Silty clay
104-1	LaSalle	0.0–0.3	Ap	3.18	68.82	28.00	Silty clay loam
104-2	LaSalle	0.3–0.5	AB	2.45	67.50	30.05	Silty clay loam
104-3	LaSalle	0.5–0.6	Bt	1.18	62.70	36.12	Silty clay loam
104-4	LaSalle	0.6–0.8	Bt	1.22	64.22	34.56	Silty clay loam
104-6	LaSalle	0.9–1.1	C	1.47	78.33	20.20	Silt loam
104-8	LaSalle	1.2–1.5	C	2.32	77.08	20.60	Silt loam
114-1	LaSalle	0.0–0.2	Ap	2.72	69.45	27.83	Silty clay loam
114-2	LaSalle	0.2–0.4	A2	1.62	64.71	33.67	Silty clay loam
114-3	LaSalle	0.4–0.6	Bt	1.40	63.62	34.98	Silty clay loam
114-4	LaSalle	0.6–0.8	Bt	1.70	67.16	31.14	Silty clay loam
114-5	LaSalle	0.8–1.0	Btj	1.69	73.18	25.33	Silt loam
114-6	LaSalle	1.0–1.2	Ctj	2.88	78.42	18.70	Silt loam
34-1	Lawrence	0.0–0.2	Ap	5.45	79.23	15.32	Silt loam
34-2	Lawrence	0.2–0.3	A2	4.99	80.01	15.00	Silt loam
34-3	Lawrence	0.3–0.4	E	4.92	78.62	16.46	Silt loam
34-4	Lawrence	0.4–0.5	B1	2.60	74.85	22.55	Silt loam
34-10	Lawrence	1.2–1.5	2Btx4	28.12	56.42	15.46	Silty clay
34-13	Lawrence	1.8–2.0	3A	45.43	39.69	14.88	Loam
115-1	Lee	0.0–0.3	Ap	8.70	66.06	25.24	Silt loam
115-2	Lee	0.3–0.6	AB	7.28	65.50	27.22	Silty clay loam
115-3	Lee	0.6–0.7	BAg	8.20	65.64	26.16	Silt loam
115-5	Lee	0.9–1.1	Cg	7.10	66.56	26.34	Silt loam
115-7	Lee	1.2–1.4	Cg	5.60	77.38	17.02	Silt loam
115-9	Lee	1.5–1.7	Cg	30.92	56.48	12.60	Silt loam
116-1	Lee	0.0–0.2	Ap	39.96	44.14	15.90	Loam
116-3	Lee	0.3–0.5	Btj	37.98	43.98	18.04	Loam
116-4	Lee	0.5–0.6	Btj	42.82	38.44	18.74	Loam
116-5	Lee	0.6–0.8	Btj	58.44	26.96	14.60	Sandy loam
116-6	Lee	0.8–0.9	BC	77.63	13.64	8.73	Sandy loam
116-9	Lee	1.1–1.3	C	91.66	4.08	4.26	Sand
95-1	Livingston	0.0–0.3	Ap	18.25	55.48	26.27	Silt loam
95-2	Livingston	0.3–0.5	A	16.66	55.59	27.75	Silty clay loam
95-3	Livingston	0.5–0.6	Bgtj	11.56	52.14	36.30	Silty clay loam
95-5	Livingston	0.8–0.9	Bgt2	6.70	58.18	35.12	Silty clay loam
95-8	Livingston	1.2–1.4	2Cgt1	21.74	55.90	22.36	Silt loam
95-13	Livingston	2.0–2.3	3Cg	11.44	50.54	38.02	Silty clay loam
96-1	Livingston	0.0–0.3	Ap	7.70	52.57	39.73	Silty clay loam
96-2	Livingston	0.3–0.5	Bgt	17.07	41.25	41.68	Silty clay
96-3	Livingston	0.5–0.6	2CBtj	28.29	45.77	25.94	Loam
96-4	Livingston	0.6–0.9	2CBtj	22.10	49.58	28.32	Clay loam
96-7	Livingston	1.1–1.4	2C	8.14	53.49	38.37	Silty clay loam
96-11	Livingston	2.0–2.3	4C	10.98	50.10	38.92	Silty clay loam
64-1	Logan	0.0–0.2	Ap	0.64	72.44	26.92	Silt loam
64-2	Logan	0.2–0.5	A	0.38	70.70	28.92	Silty clay loam
64-3	Logan	0.5–0.6	Bt1	0.71	73.31	25.98	Silt loam
64-6	Logan	1.0–1.1	BC	0.64	78.90	20.46	Silt loam
64-8	Logan	1.2–1.5	C	1.04	84.08	14.88	Silt loam
64-22	Logan	4.1–4.3	3BAb	24.60	43.68	31.72	Clay loam
74-1	Logan	0.0–0.2	Ap	1.28	68.00	30.72	Silty clay loam
74-3	Logan	0.3–0.5	AB	1.62	66.02	32.36	Silty clay loam
74-4	Logan	0.5–0.7	Bg	1.24	66.37	32.39	Silty clay loam
74-5	Logan	0.7–0.9	B	2.46	65.58	31.96	Silty clay loam

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Sample ID	County	Depth interval (m)	Horizon	Sand (%)	Silt (%)	Clay (%)	Texture
74-7	Logan	1.0–1.2	Bgtj	1.20	67.90	30.90	Silty clay loam
74-11	Logan	1.7–1.8	C	4.10	85.24	10.66	Silt
77-1	Logan	0.0–0.3	Ap	1.98	75.07	22.95	Silt loam
77-2	Logan	0.3–0.5	AB	1.78	67.98	30.24	Silty clay loam
77-5	Logan	0.5–1.0	Bt	1.42	70.94	27.64	Silty clay loam
77-8	Logan	1.3–1.5	Bt1	2.10	76.66	21.20	Silt loam
77-14	Logan	2.2–2.4	C	88.14	7.77	4.10	Loamy sand
77-26	Logan	3.9–4.1	Ab	1.85	82.57	15.58	Silt loam
75-1	Macon	0.0–0.2	Ap	3.14	71.82	25.04	Silt loam
75-2	Macon	0.2–0.4	AB	2.10	63.22	34.68	Silty clay loam
75-3	Macon	0.4–0.6	Btj	1.80	59.51	38.69	Silty clay loam
75-4	Macon	0.6–0.8	Bt	2.50	63.06	34.44	Silty clay loam
75-6	Macon	1.0–1.1	Btj	9.12	65.98	24.90	Silt loam
75-10	Macon	1.6–1.8	2C	39.97	37.73	22.30	Loam
43-1	Macoupin	0.0–0.2	Ap	4.24	85.80	9.96	Silt
43-3	Macoupin	0.3–0.5	E	5.66	73.78	20.56	Silt loam
43-5	Macoupin	0.6–0.9	Bt	2.90	59.65	37.45	Silty clay loam
43-8	Macoupin	1.3–1.5	C	0.64	81.38	17.98	Silt loam
43-12	Macoupin	1.9–2.1	3A	20.78	51.04	28.18	Clay loam
43-27	Macoupin	4.9–5.1	3CD	42.74	40.30	16.96	Loam
47-1	Macoupin	0.0–0.2	Ap	17.27	69.01	13.72	Silt loam
47-2	Macoupin	0.2–0.6	C1	12.32	72.20	15.48	Silt loam
47-4	Macoupin	0.7–1.1	C3	37.51	49.31	13.18	Loam
47-5	Macoupin	1.1–1.2	C4	14.70	70.18	15.12	Silt loam
47-8	Macoupin	1.8–2.0	2Bt1	32.52	50.50	16.98	Silt loam
47-16	Macoupin	4.3–4.5	2C7	39.36	40.66	19.98	Loam
28-1	Madison	0.0–0.3	A	16.58	68.67	14.75	Silt loam
28-2	Madison	0.3–0.7	B1	2.01	68.12	29.87	Silty clay loam
28-3	Madison	0.7–1.1	B2	4.12	75.70	20.18	Silt loam
28-4	Madison	1.1–1.4	B3	5.04	71.07	23.84	Silt loam
28-10	Madison	2.9–3.1	C3	21.02	64.79	14.19	Silt loam
28-15	Madison	4.9–5.1	D3	18.20	67.72	14.08	Silt loam
20-1	Marion	0.0–0.1	A	12.39	72.69	14.92	Silt loam
20-2	Marion	0.1–0.2	E	7.33	77.39	15.28	Silt loam
20-3	Marion	0.2–0.4	B	2.93	62.95	34.12	Silty clay loam
20-4	Marion	0.4–0.6	B	1.52	54.76	43.72	Silty clay
20-8	Marion	1.3–1.7	B	22.16	56.08	21.76	Silt loam
20-11	Marion	2.3–2.4	C	25.66	55.48	18.86	Silt loam
78-1	Mason	0.0–0.3	Ap	81.72	14.52	3.76	Loamy sand
78-3	Mason	0.4–0.6	Bt1	16.21	53.27	30.52	Silty clay loam
78-4	Mason	0.6–0.7	Bt1	48.64	26.36	25.00	Sandy clay loam
78-9	Mason	1.3–1.4	C	95.12	1.02	3.86	Sand
78-12	Mason	1.6–1.8	â	91.14	2.24	6.62	Sand
78-17	Mason	2.7–2.9	C	96.04	2.86	1.10	Sand
80-1	McDonough	0.0–0.2	Ap	42.01	44.04	13.95	Loam
80-4	McDonough	0.3–0.4	C/A	29.82	53.22	16.96	Silt loam
80-8	McDonough	0.8–0.9	CB	47.25	36.70	16.06	Loam
80-10	McDonough	1.1–1.2	2CB	16.04	63.55	20.42	Silt loam
80-15	McDonough	1.5–1.6	4B	15.64	63.89	20.47	Silt loam
80-20	McDonough	2.2–2.4	5Ab	26.64	48.84	24.52	Loam
83-1	McDonough	0.0–0.2	A	1.08	68.13	30.79	Silty clay loam
83-2	McDonough	0.2–0.4	A	1.26	65.62	33.12	Silty clay loam
83-4	McDonough	0.8–1.0	Bgt	1.64	62.50	35.86	Silty clay loam
83-5	McDonough	1.0–1.2	Bgt	0.58	67.14	32.28	Silty clay loam
83-10	McDonough	2.0–2.1	BCtj	0.84	79.73	19.43	Silt loam
83-14	McDonough	2.6–2.8	2Ab	12.27	59.83	27.90	Silty clay loam
132-1	McHenry	0.0–0.2	Ap	12.05	63.16	24.79	Silt loam
132-2	McHenry	0.2–0.4	Btj	22.04	47.86	30.10	Clay loam
132-3	McHenry	0.4–0.6	Btj	4.74	60.35	34.91	Silty clay loam

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Sample ID	County	Depth interval (m)	Horizon	Sand (%)	Silt (%)	Clay (%)	Texture
132-4	McHenry	0.6–0.7	2Bt	42.69	30.24	27.07	Clay loam
132-5	McHenry	0.7–0.9	2BC	40.79	45.13	14.08	Loam
132-6	McHenry	0.9–1.0	2C1	14.30	78.36	7.34	Silt loam
72-1	McLean	0.0–0.3	Ap	3.30	67.67	29.03	Silty clay loam
72-2	McLean	0.3–0.5	AB	4.08	60.56	35.36	Silty clay loam
72-3	McLean	0.5–0.6	Bg	2.60	60.63	36.77	Silty clay loam
72-4	McLean	0.6–0.9	Bg	3.24	63.50	33.26	Silty clay loam
72-6	McLean	1.0–1.2	Bg	7.26	63.36	29.38	Silty clay loam
72-9	McLean	1.7–2.0	2C	35.36	40.74	23.90	Loam
73-1	McLean	0.0–0.2	Ap	2.82	72.47	24.71	Silt loam
73-2	McLean	0.2–0.4	AB	1.47	65.22	33.31	Silty clay loam
73-3	McLean	0.4–0.6	Bt	1.34	64.14	34.13	Silty clay loam
73-4	McLean	0.6–0.9	Btj	1.29	68.81	29.90	Silty clay loam
73-5	McLean	0.9–1.0	Btj	1.17	72.89	25.94	Silt loam
73-6	McLean	1.0–1.2	C	1.08	78.10	20.82	Silt loam
88-1	McLean	0.0–0.2	Ap1	9.27	63.29	27.44	Silty clay loam
88-2	McLean	0.2–0.4	Ap2	3.74	64.44	31.82	Silty clay loam
88-3	McLean	0.4–0.6	Btj	1.82	63.42	34.76	Silty clay loam
88-5	McLean	0.8–0.9	Bt	7.54	58.54	33.92	Silty clay loam
88-7	McLean	1.1–1.2	2BC	34.10	28.09	37.81	Clay loam
88-8	McLean	1.2–1.4	2CBt	44.04	39.98	15.98	Loam
53-1	Menard	0.0–0.2	Ap	4.15	69.05	26.80	Silt loam
53-2	Menard	0.2–0.4	AB	2.94	65.71	31.35	Silty clay loam
53-3	Menard	0.4–0.6	BAt	1.50	58.35	40.15	Silty clay loam
53-4	Menard	0.6–0.8	Bt	2.10	68.27	29.63	Silty clay loam
53-5	Menard	0.8–1.0	CB	0.92	74.91	24.18	Silt loam
53-11	Menard	2.3–2.4	3C	38.90	37.82	23.28	Loam
63-1	Menard	0.0–0.2	Ap	2.59	80.46	16.95	Silt loam
63-2	Menard	0.2–0.4	Ap2	2.58	82.14	15.28	Silt loam
63-3	Menard	0.4–0.6	A	3.78	80.78	15.44	Silt loam
63-6	Menard	1.0–1.3	2Ab	12.30	70.94	16.76	Silt loam
63-15	Menard	2.7–2.9	2Bwg	16.64	65.66	17.70	Silt loam
109-1	Mercer	0.0–0.2	Ap	7.87	65.74	26.39	Silt loam
109-3	Mercer	0.4–0.6	A11	2.61	74.69	22.70	Silt loam
109-4	Mercer	0.6–0.9	A12	4.74	79.24	16.02	Silt loam
109-5	Mercer	0.6–1.1	Btj	17.16	56.73	26.11	Silt loam
109-7	Mercer	1.2–1.4	Bk	32.14	43.23	24.63	Loam
109-9	Mercer	1.6–1.8	2C2	37.26	41.34	21.40	Loam
16-01	Monroe	0.0–0.1	A	1.16	68.01	30.83	Silty clay loam
16-02	Monroe	0.1–0.3	E	1.25	60.11	38.64	Silty clay loam
16-03	Monroe	0.3–0.6	B	2.27	53.79	43.94	Silty clay
16-04	Monroe	0.6–0.9	B	0.96	66.16	32.88	Silty clay loam
16-16	Monroe	2.8–3.0	2A	13.46	54.64	31.90	Silty clay loam
16-26	Monroe	5.6–5.8	2B	31.64	52.73	15.63	Silt loam
17-01	Monroe	0.0–0.2	A	16.04	48.65	35.31	Silty clay loam
17-02	Monroe	0.2–0.3	A	14.69	48.21	37.10	Silty clay loam
17-03	Monroe	0.3–0.5	A	16.55	44.63	38.82	Silty clay loam
17-04	Monroe	0.5–0.6	A	24.54	38.75	36.71	Clay loam
17-16	Monroe	2.4–3.1	C	54.04	32.74	13.22	Loam
42-1	Montgomery	0.0–0.2	Ap	36.14	52.02	11.84	Silt loam
42-2	Montgomery	0.2–0.4	A	35.56	48.88	15.56	Loam
42-4	Montgomery	0.6–0.8	AB	39.72	43.02	17.26	Loam
42-6	Montgomery	1.0–1.2	Bw	56.45	30.47	13.08	Sandy loam
42-16	Montgomery	2.8–3.1	CA	76.70	13.20	10.10	Loamy sand
42-23	Montgomery	4.3–4.6	D/A	11.17	66.63	22.20	Silt loam
48-1	Montgomery	0.0–0.2	Ap	3.74	77.34	18.92	Silt loam
48-3	Montgomery	0.3–0.5	Bt1	3.20	69.64	27.16	Silty clay loam
48-4	Montgomery	0.5–0.6	Bt2	2.66	59.38	37.96	Silty clay loam
48-6	Montgomery	0.8–1.0	Bt4	2.48	61.10	36.42	Silty clay loam

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Sample ID	County	Depth interval (m)	Horizon	Sand (%)	Silt (%)	Clay (%)	Texture
48-9	Montgomery	1.3–1.6	C	2.51	72.27	25.22	Silt loam
48-16	Montgomery	3.1–3.4	2C1	43.16	37.82	19.02	Loam
57-1	Morgan	0.0–0.2	Ap	1.51	82.37	16.12	Silt loam
57-2	Morgan	0.2–0.4	AE	0.40	69.77	29.83	Silty clay loam
57-3	Morgan	0.4–0.6	Btj	0.42	66.16	33.42	Silty clay loam
57-5	Morgan	0.8–1.0	Bt	0.52	70.94	28.54	Silty clay loam
57-11	Morgan	2.0–2.3	CB	0.64	84.08	15.28	Silt loam
57-16	Morgan	3.2–3.4	2A	2.29	82.77	14.94	Silt loam
122-1	Ogle	0.0–0.2	Ap	14.66	59.76	25.58	Silt loam
122-2	Ogle	0.2–0.4	AB	3.69	66.38	29.93	Silty clay loam
122-3	Ogle	0.4–0.6	Btj	2.40	70.52	27.08	Silty clay loam
122-5	Ogle	0.9–1.0	Btj	1.84	67.08	31.08	Silty clay loam
122-8	Ogle	1.5–1.8	Bt	1.00	74.47	24.53	Silt loam
122-9	Ogle	1.7–2.0	C	1.42	82.16	16.42	Silt loam
123-1	Ogle	0.0–0.2	Ap	2.93	72.11	24.96	Silt loam
123-2	Ogle	0.2–0.4	AB	1.25	65.06	33.69	Silty clay loam
123-3	Ogle	0.4–0.6	Btj	2.68	65.96	31.36	Silty clay loam
123-4	Ogle	0.6–0.8	E′	1.84	73.98	24.18	Silt loam
123-7	Ogle	0.9–1.1	2Bg	2.85	47.67	49.48	Silty clay
123-8	Ogle	1.1–1.3	3AB	14.66	39.64	45.70	Clay
92-1	Peoria	0.0–0.2	Ap	1.95	68.66	29.39	Silty clay loam
92-2	Peoria	0.2–0.3	AB	0.31	65.39	34.30	Silty clay loam
92-3	Peoria	0.3–0.5	BA	0.57	65.73	33.70	Silty clay loam
92-4	Peoria	0.5–0.6	Bt	0.52	69.65	29.83	Silty clay loam
92-6	Peoria	1.1–1.2	BCtj	0.20	77.33	22.47	Silt loam
92-9	Peoria	1.6–1.7	C	0.22	82.88	17.50	Silt loam
93-1	Peoria	0.0–0.2	A/E	0.99	81.15	17.86	Silt loam
93-2	Peoria	0.2–0.3	EB	0.52	73.80	25.68	Silt loam
93-3	Peoria	0.3–0.5	Bt	1.34	68.63	30.03	Silty clay loam
93-4	Peoria	0.5–0.6	Bt	1.20	68.06	30.74	Silty clay loam
93-6	Peoria	0.8–1.0	Bt2	4.09	71.93	23.98	Silt loam
93-9	Peoria	1.7–2.0	2C	35.30	40.26	24.44	Loam
10-1	Perry	0.0–0.2	Ap	3.58	70.18	26.24	Silt loam
10-2	Perry	0.2–0.4	EB	5.76	70.09	24.15	Silt loam
10-3	Perry	0.4–0.6	EB	10.84	65.31	23.85	Silt loam
10-5	Perry	0.8–1.1	B	15.42	59.52	25.06	Silt loam
10-10	Perry	1.8–2.1	B	16.00	52.52	31.48	Silty clay loam
10-16	Perry	3.5–3.7	BC	35.70	44.82	19.48	Loam
9-1	Perry	0.0–0.2	Ap	5.55	79.01	15.44	Silt loam
9-2	Perry	0.2–0.4	E	5.07	80.25	14.68	Silt loam
9-3	Perry	0.4–0.5	E	4.85	76.15	19.00	Silt loam
9-7	Perry	0.8–1.0	B	2.34	63.34	34.32	Silty clay loam
9-12	Perry	1.9–2.0	B	8.26	72.24	19.50	Silt loam
9-20	Perry	4.4–4.6	3B	33.20	38.25	28.55	Clay loam
45-1	Pike	0.0–0.3	Ap	1.12	85.24	13.64	Silt loam
45-2	Pike	0.3–0.6	E1	0.89	77.28	21.83	Silt loam
45-3	Pike	0.6–0.9	E2	1.04	69.28	29.68	Silty clay loam
45-5	Pike	1.0–1.2	Bt	1.37	67.52	31.11	Silty clay loam
45-9	Pike	1.8–2.0	C	1.32	79.76	18.92	Silt loam
45-17	Pike	3.7–4.0	2Bt	0.80	51.57	47.63	Silt loam
58-1	Pike	0.0–0.3	Ap	2.71	82.73	14.56	Silt loam
58-2	Pike	0.3–0.4	E	1.61	80.51	17.88	Silt loam
58-3	Pike	0.4–0.6	Bt	0.68	60.22	39.10	Silty clay loam
58-4	Pike	0.6–0.9	Bt	0.59	62.17	37.24	Silty clay loam
58-7	Pike	1.2–1.4	Btj	0.72	69.96	29.32	Silty clay loam
58-10	Pike	1.7–2.0	C	0.43	83.59	15.98	Silt loam
58-31	Pike	5.6–5.7	2Ab	0.34	85.58	14.08	Silt loam
59-1	Pike	0.0–0.1	Ap	0.73	73.32	25.95	Silt loam
59-2	Pike	0.1–0.3	Bt	0.57	66.76	32.67	Silty clay loam

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Sample ID	County	Depth interval (m)	Horizon	Sand (%)	Silt (%)	Clay (%)	Texture
59-3	Pike	0.3–0.5	Bt	0.68	64.97	34.35	Silty clay loam
59-6	Pike	0.9–1.0	Bt	0.60	69.32	30.08	Silty clay loam
59-13	Pike	2.1–2.2	3EB	2.86	73.46	23.68	Silt loam
59-16	Pike	2.5–2.7	4Bt	13.50	61.92	24.58	Silt loam
4-1	Pope	0.0–0.2	A	1.81	62.43	35.76	Silty clay loam
4-2	Pope	0.2–0.3	A	2.19	58.94	38.87	Silty clay loam
4-3	Pope	0.3–0.5	AB	5.26	54.06	40.68	Silty clay
4-4	Pope	0.5–0.6	B	5.21	53.65	41.14	Silty clay
4-8	Pope	1.1–1.2	B	3.06	54.38	42.56	Silty clay
4-12	Pope	1.7–1.8	B	1.62	60.16	38.22	Silty clay loam
5-1	Pope	0.0–0.1	A	1.27	80.85	17.88	Silt loam
5-2	Pope	0.1–0.2	E	2.80	83.30	13.90	Silt loam
5-3	Pope	0.2–0.4	B	2.56	75.90	21.54	Silt loam
5-4	Pope	0.4–0.6	B	1.92	70.72	27.36	Silt loam
5-7	Pope	1.2–1.5	B	1.48	81.12	17.40	Silt loam
5-14	Pope	2.4–2.6	3EB	21.33	58.09	20.58	Silt loam
1-1	Pulaski	0.0–0.2	Ap	3.69	56.65	39.66	Silty clay loam
1-2	Pulaski	0.2–0.3	AB	2.69	56.12	41.19	Silty clay
1-3	Pulaski	0.3–0.5	BA	1.70	53.63	44.67	Silty clay
1-4	Pulaski	0.5–0.6	B	1.51	52.81	45.68	Silty clay
1-8	Pulaski	1.2–1.4	B	1.06	46.90	52.04	Silty clay
1-11	Pulaski	2.4–2.6	B	0.88	44.09	55.03	Silt loam
105-1	Putnam	0.0–0.3	Ap	1.88	71.80	26.32	Silt loam
105-2	Putnam	0.3–0.5	AB	1.15	64.74	34.11	Silty clay loam
105-3	Putnam	0.5–0.6	Bt	1.61	63.17	35.22	Silty clay loam
105-5	Putnam	0.8–1.0	Bt2	2.69	71.21	26.10	Silt loam
105-7	Putnam	1.2–1.4	2C	19.34	46.68	33.98	Silty clay loam
105-12	Putnam	2.2–2.4	2C	20.58	45.92	33.50	Clay loam
33-1	Richland	0.0–0.2	Ap	12.10	64.98	23.22	Silt loam
33-2	Richland	0.2–0.3	A2	10.07	64.77	25.16	Silt loam
33-3	Richland	0.3–0.5	AB	7.79	74.63	17.58	Silt loam
33-4	Richland	0.5–0.6	B1	7.04	74.04	18.92	Silt loam
33-6	Richland	0.7–1.3	B3	10.99	56.03	32.98	Silty clay loam
33-10	Richland	2.6–2.7	C3g	17.76	43.27	38.97	Silty clay loam
6-1	Saline	0.0–0.2	Ap	13.81	62.95	23.24	Silt loam
6-2	Saline	0.2–0.5	B	5.54	47.88	46.58	Silty clay
6-3	Saline	0.5–0.7	B	4.28	45.00	50.72	Silty clay
6-4	Saline	0.7–1.0	B	4.24	47.34	48.42	Silty clay
6-6	Saline	1.1–1.3	B	6.02	47.85	46.13	Silty clay
6-20	Saline	3.8–4.0	2B	0.48	53.12	46.40	Silty clay
55-1	Sangamon	0.0–0.2	A	2.35	72.53	25.12	Silt loam
55-3	Sangamon	0.3–0.5	A	9.01	72.24	18.75	Silt loam
55-6	Sangamon	0.9–1.1	A	20.52	59.68	19.80	Silt loam
55-8	Sangamon	1.3–1.5	A	26.56	54.16	19.38	Silt loam
55-11	Sangamon	2.1–2.3	Bw	29.66	51.30	19.04	Silt loam
55-28	Sangamon	5.2–5.6	2C	0.05	19.18	80.77	Clay
56-1	Sangamon	0.0–0.2	A	1.93	71.28	26.79	Silt loam
56-2	Sangamon	0.2–0.5	A	1.33	70.08	28.59	Silty clay loam
56-3	Sangamon	0.5–0.6	AB	2.91	66.01	31.08	Silty clay loam
56-5	Sangamon	0.8–1.0	Bt	4.39	62.10	33.51	Silty clay loam
56-7	Sangamon	1.2–1.5	Bt	2.50	70.26	27.24	Silty clay loam
56-11	Sangamon	2.6–2.7	C	0.68	84.18	15.14	Silt loam
50-1	Shelby	0.0–0.2	Ap	5.44	67.40	27.16	Silty clay loam
50-2	Shelby	0.2–0.4	AB	3.16	63.81	33.03	Silty clay loam
50-3	Shelby	0.4–0.6	BA	4.73	60.45	34.82	Silty clay loam
50-5	Shelby	0.8–1.1	Bt	23.68	44.55	31.77	Clay loam
50-7	Shelby	1.2–1.5	C	29.98	45.34	24.68	Loam
50-16	Shelby	3.1–3.4	D	30.09	47.25	22.66	Loam

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Sample ID	County	Depth interval (m)	Horizon	Sand (%)	Silt (%)	Clay (%)	Texture
27-1	St. Clair	0.0–0.2	Ap	1.91	86.38	11.71	Silt
27-2	St. Clair	0.2–0.3	A2	1.88	82.08	16.04	Silt loam
27-3	St. Clair	0.3–0.5	B	1.74	73.23	25.03	Silt loam
27-4	St. Clair	0.5–0.8	B2	1.36	67.65	30.99	Silty clay loam
27-9	St. Clair	1.9–2.1	C2	1.07	81.55	17.38	Silt loam
27-13	St. Clair	3.6–3.9	2A	0.65	84.93	14.42	Silt loam
121-1	Stephenson	0.0–0.2	Ap	3.74	72.64	23.62	Silt loam
121-2	Stephenson	0.2–0.4	C	0.96	79.00	20.04	Silt loam
121-3	Stephenson	0.4–0.6	2A1	1.24	76.96	21.80	Silt loam
121-5	Stephenson	0.8–1.0	3Ab	1.94	76.44	21.62	Silt loam
121-8	Stephenson	1.3–1.5	3BA	1.71	66.29	32.00	Silty clay loam
121-10	Stephenson	1.7–1.9	3CB	0.94	70.08	28.98	Silty clay loam
86-1	Tazewell	0.0–0.2	Ap	4.10	79.64	16.26	Silt loam
86-2	Tazewell	0.2–0.4	E	4.21	86.08	9.71	Silt
86-3	Tazewell	0.4–0.6	Bt	1.86	56.61	41.53	Silty clay
86-5	Tazewell	0.8–1.0	Bt	2.10	64.59	33.31	Silty clay loam
86-7	Tazewell	1.2–1.5	B3	1.47	70.32	28.21	Silty clay loam
86-12	Tazewell	2.1–2.3	C	1.98	80.62	17.40	Silt loam
2-1	Union	0.0–0.2	Ap	0.76	79.64	19.60	Silt loam
2-2	Union	0.2–0.4	B	0.90	73.47	25.63	Silt loam
2-3	Union	0.4–0.6	B	3.00	73.66	23.34	Silt loam
2-4	Union	0.6–0.8	E	3.84	73.94	22.22	Silt loam
2-6	Union	0.8–1.2	2B	3.06	71.50	25.44	Silt loam
2-13	Union	2.4–3.1	2A	0.62	82.26	17.12	Silt loam
2-26	Union	4.9–5.2	4B	0.60	75.75	23.65	Silt loam
68-1	Vermilion	0.0–0.2	Ap	5.94	70.22	23.84	Silt loam
68-2	Vermilion	0.2–0.4	AB	1.18	60.71	38.11	Silt loam
68-3	Vermilion	0.4–0.6	Btg	1.24	59.04	39.72	Silty clay loam
68-4	Vermilion	0.6–0.9	Btg	1.24	63.65	35.11	Silty clay loam
68-6	Vermilion	1.0–1.2	2BC	50.10	32.46	17.44	Loam
68-9	Vermilion	1.7–1.8	2C	28.28	51.10	20.62	Silt loam
69-1	Vermilion	0.0–0.2	Ap	6.03	54.11	39.86	Silty clay loam
69-3	Vermilion	0.4–0.6	A	19.66	43.87	36.47	Silty clay loam
69-4	Vermilion	0.6–0.9	A	24.08	38.22	37.70	Clay loam
69-5	Vermilion	0.9–1.1	AB	37.12	31.66	31.87	Clay loam
69-8	Vermilion	1.4–1.8	2C1	15.99	57.44	26.57	Silt loam
69-11	Vermilion	2.1–2.4	2C2	18.42	55.62	25.96	Silt loam
23-01	Wabash	0.0–0.2	A	4.78	79.02	16.20	Silt loam
23-02	Wabash	0.2–0.3	A	2.65	82.43	14.92	Silt loam
23-03	Wabash	0.3–0.5	B	1.26	77.84	20.90	Silt loam
23-04	Wabash	0.5–0.7	A′	0.56	67.56	31.88	Silty clay loam
23-08	Wabash	1.5–1.8	C	0.96	77.20	21.84	Silt loam
23-14	Wabash	3.1–3.4	C	30.77	41.07	28.16	Clay loam
90-1	Warren	0.0–0.3	Ap	2.40	74.25	23.35	Silt loam
90-2	Warren	0.3–0.5	BA	1.48	72.05	26.47	Silt loam
90-3	Warren	0.5–0.7	Btj	1.41	69.93	28.66	Silty clay loam
90-5	Warren	0.9–1.1	Bw	1.61	68.87	29.52	Silty clay loam
90-7	Warren	1.3–1.5	BCtj	1.24	73.21	25.55	Silt loam
90-11	Warren	2.1–2.3	C	0.99	80.05	18.96	Silt loam
14-01	Washington	0.0–0.1	Ap	7.31	78.45	14.24	Silt loam
14-02	Washington	0.1–0.2	Ap	6.15	79.45	14.40	Silt loam
14-03	Washington	0.2–0.4	Ap	4.39	79.39	16.22	Silt loam
14-04	Washington	0.4–0.6	E	4.04	67.52	28.44	Silty clay loam
14-06	Washington	0.9–1.1	B	3.86	63.46	32.68	Silty clay loam
14-15	Washington	2.0–2.2	2B	12.08	64.96	22.96	Silt loam
15-01	Washington	0.0–0.3	A	1.49	80.07	18.44	Silt loam
15-02	Washington	0.3–0.5	A	2.79	78.37	18.84	Silt loam
15-03*	Washington	0.5–0.6	E				
15-04	Washington	0.9–1.0	B	1.43	40.81	57.76	Silty clay

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Sample ID	County	Depth interval (m)	Horizon	Sand (%)	Silt (%)	Clay (%)	Texture
15-13	Washington	2.1–2.7	B	10.28	61.66	28.06	Silty clay
15-20	Washington	4.6–4.9	C	25.53	41.17	32.30	Clay loam
21-01	Wayne	0.0–0.1	A	5.68	71.64	22.68	Silt loam
21-02	Wayne	0.1–0.3	A	5.94	71.54	22.52	Silt loam
21-03	Wayne	0.3–0.6	E	9.08	72.08	18.84	Silt loam
21-04	Wayne	0.6–0.9	B	3.28	52.47	44.25	Silty clay
21-07	Wayne	1.4–1.8	B	7.60	62.02	30.38	Silty clay loam
21-10	Wayne	2.0–2.3	B	11.68	52.97	35.35	Silty clay loam
25-01	Wayne	0.0–0.2	A	6.12	75.20	18.68	Silt loam
25-02	Wayne	0.2–0.3	C	6.01	74.96	19.03	Silt loam
25-03	Wayne	0.3–0.6	C	6.09	71.39	22.52	Silt loam
25-04	Wayne	0.6–0.9	C	5.36	66.88	27.76	Silt loam
25-22	Wayne	2.6–2.7	2C	3.70	58.44	37.86	Silty clay loam
25-29	Wayne	4.4–4.8	2C	10.46	53.86	35.68	Silty clay loam
13-01	White	0.0–0.2	Ap	68.39	23.77	7.84	Sandy loam
13-02	White	0.2–0.4	B	60.67	26.93	12.40	Sandy loam
13-03	White	0.4–0.6	B	57.53	22.55	19.92	Sandy loam
13-04	White	0.6–0.9	B	64.53	16.87	18.60	Sandy loam
13-05	White	3.2–4.0	C	92.05	2.93	5.02	Sand
117-1	Whiteside	0.0–0.2	Ap	25.94	53.07	20.99	Silt loam
117-2	Whiteside	0.2–0.4	A2	37.24	49.17	13.59	Loam
117-3	Whiteside	0.4–0.6	Ab	41.06	47.34	11.60	Loam
117-5	Whiteside	0.9–1.1	Ab	50.59	38.77	10.64	Loam
117-6	Whiteside	1.1–1.3	Ab	54.74	33.38	9.88	Sandy loam
117-8	Whiteside	1.5–1.7	AB	57.07	34.34	8.59	Sandy loam
127-1	Will	0.0–0.2	A	6.15	56.18	37.67	Silty clay loam
127-3	Will	0.3–0.5	Bgtj	4.59	49.25	46.16	Silty clay
127-4	Will	0.5–0.7	BCk	7.27	50.29	42.03	Silty clay
127-5	Will	0.7–0.9	BCk	7.74	49.87	42.39	Silty clay
127-6	Will	0.9–1.0	BCk	4.59	52.29	42.83	Silty clay
127-7	Will	1.0–1.2	C	2.54	54.62	42.63	Silty clay
137-1	Will	0.0–0.3	Ap	6.44	61.74	31.82	Silty clay loam
137-2	Will	0.3–0.5	B1t	3.70	56.33	39.97	Silty clay loam
137-3	Will	0.5–0.6	B2tj	7.22	57.02	35.76	Silty clay loam
137-4	Will	0.6–0.8	B2tj	13.02	49.60	37.38	Silty clay loam
137-5	Will	0.8–1.0	B3t	11.94	49.16	38.90	Silty clay loam
137-6	Will	1.0–1.2	2C	11.40	51.58	37.02	Silty clay loam
7-1	Williamson	0.0–0.2	A	3.10	79.22	17.68	Silt loam
7-2	Williamson	0.2–0.3	BA	1.06	74.18	24.76	Silt loam
7-3	Williamson	0.3–0.5	B	1.22	70.46	28.32	Silt loam
7-6	Williamson	0.7–0.9	B	0.52	72.14	27.34	Silt loam
7-21	Williamson	3.8–4.3	BE	5.46	79.12	15.42	Silt loam
124-1	Winnebago	0.0–0.2	Ap	61.47	24.10	14.43	Sandy loam
124-2	Winnebago	0.2–0.3	Btj	61.73	22.47	15.80	Sandy loam
124-3	Winnebago	0.3–0.5	C	60.32	28.10	11.58	Sandy loam
124-4	Winnebago	0.5–0.6	C	60.26	29.03	10.71	Sandy loam
124-5	Winnebago	0.6–0.8	C	57.30	31.65	11.05	Sandy loam
124-7	Winnebago	1.0–1.2	C	58.52	31.28	10.20	Sandy loam
87-1	Woodford	0.0–0.2	Ap	4.45	78.08	17.47	Silt loam
87-2	Woodford	0.4–0.5	AE	4.29	80.15	15.56	Silt loam
87-3	Woodford	0.4–0.6	EB	4.12	82.52	13.36	Silt loam
87-4	Woodford	0.6–0.8	Bt	1.46	65.00	33.54	Silty clay loam
87-5	Woodford	0.8–1.0	BC	1.16	74.65	24.19	Silt loam
87-6	Woodford	1.0–1.2	C	1.04	80.58	18.38	Silt loam
94-1	Woodford	0.0–0.3	Ap	2.86	67.56	29.58	Silty clay loam
94-2	Woodford	0.3–0.5	A	2.90	64.65	32.45	Silty clay loam
94-4	Woodford	0.6–0.8	Bgt	3.02	64.19	32.79	Silty clay loam
94-6	Woodford	0.9–1.1	Bgtj	2.36	68.26	29.38	Silty clay loam
94-8	Woodford	1.3–1.4	C	2.64	83.78	13.58	Silt loam
94-12	Woodford	2.0–2.2	2C	68.86	24.44	6.70	Sandy loam

APPENDIX 5—LABORATORY NUMBER, SAMPLE IDENTIFICATION, COUNTY, HORIZON, DEPTH INTERVAL, ELEMENTAL CONCENTRATIONS, AND pH (DREHER AND FOLLMER SERIES)

Note: An asterisk (*) indicates data from this core were excluded when calculating the means and ranges of element contents in the uppermost samples.

Lab no.	Sample ID	County	Horizon	Depth interval (m)	SiO_2 (%)	Al_2O_3 (%)	Fe_2O_3 (%)	MgO (%)	CaO (%)	Na_2O (%)	K_2O (%)
R22313	60-01	Adams	Ap	0.0–0.1	77.60	8.20	2.41	0.32	0.77	1.09	1.82
R22314	60-02	Adams	Ap2	0.1–0.4	82.30	7.20	2.44	0.24	0.40	0.94	1.85
R22315	60-03	Adams	E	0.4–0.5	82.80	7.36	2.72	0.23	0.34	1.00	1.90
R22316	60-06	Adams	Bt2	0.6–0.9	69.00	14.40	6.68	0.97	0.44	0.69	1.68
R22317	60-21	Adams	Btt	3.4–3.5	76.60	11.00	5.30	0.44	0.21	0.34	1.08
R22318	60-40	Adams	C	7.2–7.3	74.50	8.90	4.70	1.12	2.64	0.49	1.37
R22110	29-01	Bond	Ap	0.0–0.2	78.40	8.40	2.43	0.47	0.76	0.97	1.87
R22111	29-02	Bond	A1	0.2–0.3	78.40	9.10	2.51	0.53	0.69	1.03	2.00
R22112	29-03	Bond	AE	0.3–0.4	78.50	9.50	2.59	0.55	0.60	1.05	2.06
R22113	29-04	Bond	E	0.4–0.7	72.40	12.80	4.68	1.07	0.55	0.88	1.97
R22114	29-09	Bond	C1	2.1–2.4	84.40	7.10	2.26	0.35	0.48	0.90	1.68
R22115	29-14	Bond	2A	3.7–3.9	84.90	6.20	4.07	0.18	0.23	0.37	1.24
R23522	125-1	Boone	Ap1	0.0–0.3	78.76	9.92	3.16	1.09	1.18	1.01	2.22
R23523	125-2	Boone	Ap2	0.3–0.4	74.53	9.52	3.26	1.08	1.25	0.93	1.99
R23524	125-3	Boone	Bg	0.4–0.6	75.18	11.00	4.09	1.22	1.07	1.00	2.18
R23525	125-4	Boone	Bg	0.6–0.8	71.56	12.14	5.67	1.48	1.24	0.93	2.10
R23526	125-6	Boone	BCg	1.0–1.1	85.24	6.89	1.75	0.90	0.91	0.63	1.66
R23527	125-10	Boone	3C	1.8–2.1	57.39	6.94	3.16	5.34	8.42	0.52	2.26
R22329	61-01	Brown	Ap	0.0–0.2	72.40	7.90	3.54	0.97	3.70	0.83	1.93
R22330	61-02	Brown	Bt1	0.2–0.4	71.40	13.00	5.88	1.00	0.69	0.62	2.00
R22331	61-03	Brown	Bt1	0.4–0.6	72.10	12.70	6.11	0.97	0.49	0.63	2.07
R22332	61-04	Brown	Bt2	0.6–0.8	72.30	12.20	6.40	0.89	0.47	0.68	2.11
R22333	61-10	Brown	C	1.9–2.1	75.30	10.20	5.54	0.70	1.14	1.24	2.17
R22334	61-18	Brown	2Bt	3.5–3.7	75.40	11.30	5.83	0.52	0.37	0.40	1.33
R23338	106-1	Bureau	Ap	0.0–0.2	71.80	11.67	4.25	1.27	1.09	0.91	2.12
R23339	106-2	Bureau	BA	0.2–0.4	71.06	12.93	4.88	1.32	0.95	0.90	2.03
R23340	106-3	Bureau	Bt	0.4–0.6	71.23	12.80	5.01	1.32	0.97	1.48	2.10
R23341	106-4	Bureau	Bt	0.6–0.8	72.43	12.48	5.08	1.33	1.01	1.07	2.10
R23342	106-6	Bureau	B2tj	1.0–1.2	75.78	10.56	4.40	1.17	1.22	1.23	2.26
R23343	106-8	Bureau	C	1.3–1.5	60.10	8.17	3.06	4.96	7.36	1.00	1.91
R23402	112-1	Bureau	Ap1	0.0–0.3	75.45	9.15	2.93	1.14	1.46	1.15	2.08
R23403	112-3	Bureau	Btj	0.3–0.6	72.72	12.76	4.09	1.17	1.00	1.15	2.08
R23404	112-4	Bureau	Btj	0.6–0.7	73.24	12.01	4.60	1.26	1.11	1.22	2.02
R23405	112-6	Bureau	Btj	0.9–1.0	74.38	11.74	4.20	1.19	1.35	1.48	1.97
R23406	112-8	Bureau	BCtj	1.2–1.4	76.14	11.03	3.68	1.11	1.40	1.50	1.99
R23407	112-10	Bureau	C	1.5–1.7	75.97	11.11	3.74	1.14	1.41	1.50	2.01
R23408	113-1	Bureau	Ap	0.0–0.2	72.10	11.86	3.88	1.15	1.15	1.09	1.98
R23409	113-2	Bureau	Btj	0.2–0.4	70.11	13.88	5.08	1.40	1.21	1.05	1.89
R23410	113-3	Bureau	Bt	0.4–0.6	71.20	13.39	4.93	1.35	1.27	1.20	1.96
R23411	113-4	Bureau	Bt	0.6–0.7	71.20	12.25	4.40	1.68	1.96	1.23	2.09
R23412	113-5	Bureau	BCtj	0.7–0.9	60.00	9.73	3.29	4.27	7.02	1.09	1.87
R23413	113-6	Bureau	C	1.4–1.6	54.68	8.39	3.05	5.37	9.57	0.96	1.82
R23455	118-1	Carroll	Ap	0.0–0.3	75.68	8.96	2.70	1.33	1.73	1.21	2.11
R23456	118-2	Carroll	Btj	0.3–0.5	75.00	11.53	3.79	1.11	1.02	1.16	2.20
R23457	118-3	Carroll	Btj	0.5–0.6	73.73	12.16	4.35	1.23	1.02	1.16	2.14
R23458	118-5	Carroll	Bt	0.8–1.0	73.07	12.51	4.60	1.27	1.18	1.29	2.05
R23459	118-8	Carroll	Bt	1.4–1.6	71.66	14.02	4.42	1.28	1.16	1.30	2.13
R23460	118-11	Carroll	Ctj	2.0–2.3	75.13	11.59	3.97	1.16	1.31	1.41	2.30
R22335	62-01	Cass	Ap	0.0–0.2	91.20	3.60	1.22	0.07	0.26	0.58	1.31
R22336	62-02	Cass	AB	0.2–0.4	91.60	3.50	1.23	0.07	0.25	0.55	1.32
R22337	62-03	Cass	AB	0.4–0.6	91.60	3.40	1.25	0.07	0.23	0.52	1.30

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Lab no.	Sample ID	County	Horizon	Depth interval (m)	SiO_2 (%)	Al_2O_3 (%)	Fe_2O_3 (%)	MgO (%)	CaO (%)	Na_2O (%)	K_2O (%)
R22338	62-05	Cass	BA	0.9–1.1	92.20	3.06	1.21	0.06	0.24	0.53	1.34
R22339	62-07	Cass	Bw	1.3–1.5	91.60	3.60	1.28	0.10	0.20	0.51	1.27
R22340	62-17	Cass	Bâ	3.2–3.4	91.60	3.70	1.30	0.10	0.22	0.46	1.15
R22341	62-18	Cass	C	3.4–3.5	93.60	2.80	0.71	<0.05	0.22	0.50	1.17
R22359	65-01	Champaign	Ap	0.0–0.2	74.60	10.10	4.01	0.59	0.60	0.73	1.97
R22360	65-02	Champaign	A2	0.2–0.4	72.30	11.50	4.59	0.73	0.60	0.69	1.98
R22361	65-03	Champaign	BAt	0.4–0.6	70.10	12.90	6.57	0.92	0.48	0.49	1.85
R22362	65-04	Champaign	Bt	0.6–0.8	71.40	12.10	6.72	0.89	0.52	0.60	1.93
R22363	65-05	Champaign	Btj	0.8–1.1	73.20	11.20	5.57	0.98	0.73	0.89	2.22
R22364	65-11	Champaign	3C	1.9–2.1	59.80	9.04	4.00	4.31	7.26	0.45	3.22
R22512	70-01	Champaign	Ap	0.0–0.4	74.30	9.76	3.92	0.63	0.55	0.63	2.23
R22513	70-02	Champaign	A	0.4–0.6	71.30	10.10	4.15	0.76	0.92	0.51	2.07
R22514	70-03	Champaign	AB	0.6–0.9	74.30	10.60	4.28	0.79	0.77	0.55	2.06
R22515	70-04	Champaign	BA	0.9–1.1	74.40	12.20	4.06	0.97	0.74	0.78	2.13
R22516	70-05	Champaign	Bg	1.1–1.3	76.40	10.60	3.91	0.86	0.72	0.72	2.11
R22517	70-08	Champaign	B3â	1.7–2.0	79.40	5.73	3.03	1.73	2.24	0.74	1.89
R22518	71-01	Champaign	Ap	0.0–0.2	67.90	9.60	4.42	2.09	3.01	0.78	2.25
R22519	71-02	Champaign	AB	0.2–0.4	71.00	11.60	5.44	0.97	0.85	0.68	2.16
R22520	71-03	Champaign	Btj	0.4–0.6	71.60	12.00	6.03	0.96	0.74	0.78	2.25
R22521	71-04	Champaign	CB	0.6–0.7	59.80	7.40	3.77	4.76	8.14	0.81	1.90
R22522	71-05	Champaign	C	0.7–0.9	53.60	6.30	3.03	5.80	12.13	0.78	1.71
R22523	71-10	Champaign	2C	1.7–1.9	54.60	11.70	4.99	4.47	7.37	0.32	4.06
R22698	76-01	Champaign	Ap	0.0–0.3	75.50	10.60	3.39	0.50	0.43	0.78	1.95
R22699	76-03	Champaign	Bt	0.4–0.6	67.30	16.00	5.92	1.24	0.66	0.88	1.90
R22700	76-04	Champaign	Bt	0.6–0.8	68.90	15.20	5.37	1.22	0.73	1.00	2.04
R22701	76-05	Champaign	Btj	0.8–1.0	71.40	13.80	4.93	1.15	0.77	1.13	2.24
R22702	76-06	Champaign	BC	1.0–1.2	71.30	13.60	5.21	1.14	0.76	1.08	2.34
R22703	76-08	Champaign	Câ	1.3–1.4	66.90	10.30	3.32	3.77	3.92	0.67	2.77
R22246	49-01	Christian	Ap	0.0–0.2	76.90	9.70	2.92	0.55	0.90	1.03	2.01
R22247	49-02	Christian	Ap2	0.2–0.4	73.60	11.90	4.20	0.84	0.92	0.94	1.80
R22248	49-03	Christian	BAt	0.4–0.6	72.10	13.20	4.52	1.09	0.94	0.96	1.78
R22250	49-05	Christian	Bgt2	0.8–1.1	72.40	11.60	6.44	0.95	0.86	1.01	2.04
R22251	49-07	Christian	CBtj	1.3–1.4	75.80	11.30	3.68	0.79	1.13	1.43	2.17
R22252	49-21	Christian	Bg	3.8–4.0	75.70	10.30	5.65	0.88	0.70	0.83	2.22
R22276	54-01	Christian	Ap	0.0–0.2	71.80	10.10	4.03	0.86	1.43	0.93	2.08
R22277	54-03	Christian	AB	0.4–0.6	69.08	13.14	6.27	1.06	0.78	0.77	1.86
R22278	54-04	Christian	B1	0.6–0.7	69.50	11.90	7.91	0.99	0.69	0.86	1.96
R22279	54-05	Christian	Bt	0.7–0.9	71.90	12.40	5.72	1.08	0.81	1.02	2.09
R22280	54-07	Christian	C	1.1–1.2	62.10	8.10	3.00	4.97	6.74	1.00	2.20
R22281	54-14	Christian	2Ab	2.2–2.4	76.30	11.50	2.67	0.75	1.08	1.46	2.05
R22162	36-01	Clark	Ap	0.0–0.3	80.40	8.10	2.42	0.40	0.48	0.96	2.02
R22163	36-02	Clark	EB1	0.3–0.4	78.00	9.90	3.33	0.63	0.47	0.89	2.17
R22164	36-03	Clark	EB2	0.4–0.7	74.70	11.10	4.51	0.91	0.41	0.91	2.27
R22165	36-04	Clark	B1	0.7–0.9	73.60	11.90	4.86	0.99	0.40	1.08	2.37
R22166	36-06	Clark	Btx2	1.4–1.6	83.90	7.20	2.56	0.41	0.37	0.82	1.68
R22167	36-08	Clark	C1	2.1–2.4	77.60	10.70	4.27	0.60	0.30	0.46	1.68
R22138	32-01	Clay	Ap	0.0–0.2	80.90	7.50	2.33	0.29	0.94	0.81	1.63
R22139	32-02	Clay	Eg1	0.2–0.5	79.80	8.70	2.83	0.31	0.45	0.83	1.70
R22140	32-03	Clay	Eg2	0.5–0.8	80.50	9.70	3.17	0.41	0.37	0.84	1.75
R22141	32-04	Clay	Btg	0.8–1.4	72.50	13.80	5.48	0.88	0.55	0.80	1.79
R22142	32-06	Clay	C1	1.4–2.1	77.30	11.70	2.70	0.69	0.73	0.92	1.66
R22143	32-11	Clay	C6	4.3–4.9	64.30	7.70	2.94	3.97	6.76	0.88	1.99
R22013	18-01	Clinton	A	0.0–0.1	82.18	7.02	1.34	0.28	0.92	1.23	1.85
R22014	18-02	Clinton	A	0.1–0.2	83.29	7.04	1.32	0.24	0.75	1.25	1.82
R22015	18-03	Clinton	A	0.2–0.3	83.82	7.36	1.43	0.24	0.61	1.26	1.89
R22016	18-04	Clinton	E	0.3–0.5	84.03	7.36	1.46	0.24	0.55	1.32	1.92
R22017	18-10	Clinton	B	1.0–1.3	71.80	12.70	5.09	1.06	0.84	1.17	1.98

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Lab no.	Sample ID	County	Horizon	Depth interval (m)	SiO_2 (%)	Al_2O_3 (%)	Fe_2O_3 (%)	MgO (%)	CaO (%)	Na_2O (%)	K_2O (%)
R22018	18-16	Clinton	C	2.4–3.1	81.54	9.00	2.25	0.50	0.70	1.08	1.69
R22019	19-01	Clinton	A	0.0–0.1	66.88	6.12	2.14	1.17	8.73	0.83	1.35
R22020	19-02	Clinton	A	0.1–0.2	81.15	7.52	2.64	0.31	0.71	1.04	1.53
R22021	19-03	Clinton	E	0.2–0.3	78.30	8.86	3.66	0.43	0.42	1.08	1.65
R22022	19-04	Clinton	B	0.3–0.4	70.10	13.70	5.50	0.92	0.42	0.87	1.54
R22023	19-05	Clinton	B	0.4–0.6	68.60	14.66	5.73	1.16	0.48	0.95	1.57
R22024	19-13	Clinton	2B	1.7–2.1	77.81	10.30	3.49	0.68	0.79	1.18	1.75
R22173	37-01	Coles	Ap	0.0–0.2	78.00	8.90	2.66	0.52	0.73	1.05	2.12
R22174	37-02	Coles	A	0.2–0.4	72.60	12.40	4.12	0.95	0.75	0.93	2.12
R22175	37-03	Coles	AB	0.4–0.5	68.50	14.60	5.22	1.35	0.83	0.82	2.08
R22176	37-04	Coles	Bt1	1.5–0.8	68.80	14.10	5.53	1.43	0.86	0.90	2.21
R22177	37-08	Coles	2A1	1.5–1.8	77.60	9.80	3.65	0.99	0.62	0.90	2.75
R22178	37-11	Coles	2Bt4	2.2–2.4	71.00	11.20	3.29	2.24	2.21	1.04	2.66
R22258	51-01	Coles	Ap	0.0–0.2	78.90	8.60	3.32	0.43	0.40	0.70	1.98
R22259	51-02	Coles	Ap2	0.2–0.4	77.00	9.70	3.84	0.54	0.40	0.80	1.92
R22260	51-03	Coles	BA	0.4–0.6	68.70	14.00	6.30	1.14	0.65	0.72	1.90
R22261	51-04	Coles	Bt	0.6–0.8	68.60	14.60	6.38	1.17	0.72	0.72	1.98
R22262	51-06	Coles	B/C	1.1–1.2	74.20	11.10	4.53	1.30	0.99	0.72	2.65
R22263	51-21	Coles	D	4.1–4.2	57.00	8.20	3.00	4.81	9.34	0.54	2.55
R23540	128-1	Cook	A1	0.0–0.2	64.18	9.55	4.35	1.92	2.75	0.79	1.97
R23541	128-2	Cook	A2	0.2–0.3	71.18	10.81	3.90	1.26	1.36	0.71	2.20
R23542	128-3	Cook	Bwcalc	0.3–0.6	72.72	6.74	1.19	2.98	4.83	1.07	2.00
R23543	128-4	Cook	Bwcalc	0.6–0.8	71.81	6.58	1.16	3.29	5.23	1.05	1.97
R23544	128-7	Cook	Ab2	1.0–1.1	69.73	7.26	1.42	2.98	4.53	0.99	1.96
R23545	128-9	Cook	C2	1.2–1.4	68.76	6.76	1.28	3.67	6.17	1.00	1.94
R23750	130-1	Cook	A	0.0–0.2	65.08	11.18	4.43	1.38	1.50	0.68	2.51
R23751	130-3	Cook	B1	0.4–0.6	69.50	12.19	4.65	1.57	1.58	0.78	2.30
R23752	130-5	Cook	B2g	0.7–0.9	71.00	12.38	5.12	1.64	1.42	0.86	2.60
R23753	130-8	Cook	CBg	1.2–1.3	69.66	12.96	3.95	1.61	1.83	0.95	2.79
R23754	130-12	Cook	CD	1.6–1.8	51.27	9.88	4.32	3.99	8.17	0.67	2.59
R23755	130-13	Cook	D	1.8–2.0	51.97	10.02	4.50	4.30	7.24	0.64	2.69
R22156	35-01	Crawford	Ap	0.0–0.2	61.40	7.40	2.31	0.36	0.67	1.07	1.99
R22157	35-02	Crawford	E	0.2–0.4	80.20	8.80	2.95	0.56	0.56	1.01	2.06
R22158	35-03	Crawford	BE	0.4–0.5	73.20	11.80	4.74	0.97	0.64	0.88	2.11
R22159	35-04	Crawford	Bt1	1.5–0.9	70.90	12.70	5.38	1.12	0.67	0.92	2.10
R22160	35-06	Crawford	Bt3	1.2–1.6	70.30	9.40	3.47	2.59	3.24	1.21	2.15
R22161	35-09	Crawford	B6	2.4–2.7	79.80	9.50	2.81	0.64	0.68	0.91	1.80
R23528	126-1	DeKalb	Ap	0.0–0.3	70.31	10.67	3.67	1.20	1.28	0.86	2.04
R23529	126-2	DeKalb	A2	0.3–0.5	68.94	12.03	4.16	1.38	1.53	0.88	1.93
R23530	126-3	DeKalb	AB	0.5–0.6	70.25	12.78	4.87	1.47	1.39	0.93	1.96
R23531	126-5	DeKalb	Bg	0.8–1.0	69.54	12.51	6.26	1.56	1.42	0.96	2.12
R23532	126-7	DeKalb	Bg	1.2–1.4	72.23	12.44	4.49	1.52	1.44	1.08	2.25
R23533	126-11	DeKalb	2C	1.8–2.0	58.75	7.71	2.75	5.24	8.01	0.64	2.43
R23774	134-1	DeKalb	Ap	0.0–0.2	71.59	10.52	3.70	1.28	1.36	0.80	2.09
R23775	134-2	DeKalb	B1	0.2–0.4	70.98	12.72	4.91	1.34	0.98	0.78	2.04
R23776	134-3	DeKalb	B2tj	0.4–0.6	70.42	13.22	5.28	1.45	1.02	0.82	2.04
R23777	134-4	DeKalb	B3t	0.6–0.8	71.33	12.54	5.19	1.52	1.20	0.88	2.14
R23778	134-5	DeKalb	B4t	0.8–1.0	74.00	11.15	4.82	1.34	1.07	0.81	2.56
R23779	134-6	DeKalb	C	1.0–1.2	55.54	7.82	2.92	5.99	8.48	0.52	2.38
R22264	52-1	Douglas	Ap	0.0–0.3	72.40	11.20	4.11	0.97	1.11	0.72	2.33
R22265	52-2	Douglas	BA	0.3–0.5	72.40	12.70	4.64	1.02	0.73	0.74	2.29
R22266	52-3	Douglas	Bg	0.5–0.6	72.20	12.50	4.57	1.06	0.78	0.72	2.35
R22267	52-5	Douglas	BCtj	0.9–1.0	72.30	12.10	5.81	1.08	0.72	0.83	2.62
R22268	52-7	Douglas	C	1.2–1.4	68.90	13.10	5.84	1.64	0.84	0.64	3.89
R22269	52-14	Douglas	DC	2.8–3.0	57.80	8.80	3.62	4.39	8.73	0.48	2.83
R22365	66-01	Douglas	Ap	0.0–0.3	78.50	8.70	3.58	0.61	0.56	0.76	2.03
R22366	66-02	Douglas	AB	0.3–0.5	69.40	14.00	6.05	1.07	0.57	0.58	1.96

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Lab no.	Sample ID	County	Horizon	Depth interval (m)	SiO_2 (%)	Al_2O_3 (%)	Fe_2O_3 (%)	MgO (%)	CaO (%)	Na_2O (%)	K_2O (%)
R22367	66-03	Douglas	BA	0.5–0.7	70.50	13.30	6.05	1.13	0.60	0.63	2.16
R22368	66-04	Douglas	Bg	0.7–0.9	72.50	12.10	5.65	1.11	0.63	0.70	2.32
R22369	66-05	Douglas	Bg	0.9–1.1	73.20	10.80	5.12	1.45	1.22	0.72	2.54
R22370	66-06	Douglas	C	1.1–1.3	64.20	8.00	4.05	3.83	6.17	0.44	2.67
R23744	129-1	DuPage	Bw	0.0–0.2	58.36	10.42	4.71	3.20	4.40	0.56	2.83
R23745	129-4	DuPage	C	0.8–1.1	53.87	9.88	4.54	4.14	6.75	0.56	2.85
R23746	129-5	DuPage	2Oa	1.1–1.3	51.06	10.42	3.56	1.32	2.65	0.55	1.98
R23747	129-6	DuPage	2Bg	1.3–1.5	65.96	11.98	4.18	1.52	1.71	0.89	2.51
R23748	129-7	DuPage	3Bg	1.5–1.6	62.94	9.54	3.46	3.71	5.09	0.89	2.22
R23749	129-11	DuPage	3C22	2.0–2.2	51.75	9.21	5.15	5.33	8.26	0.59	3.02
R22204	67-01	Edgar	Ap	0.0–0.2	72.00	8.90	4.42	1.70	2.63	0.56	2.39
R22205	67-02	Edgar	A	0.2–0.4	76.50	8.60	4.19	0.48	0.55	0.57	2.01
R22206	67-03	Edgar	A	0.4–0.6	74.30	10.50	4.50	0.60	0.46	0.58	2.10
R22207	67-05	Edgar	Bt	0.7–0.8	68.40	14.20	6.91	1.02	0.46	0.48	1.99
R22208	67-07	Edgar	BCt	1.0–1.2	74.70	10.70	5.71	0.79	0.44	0.67	2.37
R22209	67-09	Edgar	2C	1.4–1.7	60.70	7.00	3.23	4.37	8.81	0.47	2.47
R22037	22-01	Edwards	A	0.0–0.1	79.53	6.47	2.18	0.46	0.84	0.75	1.63
R22038	22-02	Edwards	A	0.1–0.4	84.82	5.98	2.21	0.34	0.48	0.67	1.64
R22039	22-03	Edwards	A	0.4–0.6	86.20	6.00	1.91	0.19	0.28	0.66	1.62
R22040	22-04	Edwards	A	0.6–0.9	87.12	5.38	2.13	0.17	0.22	0.53	1.47
R22041	22-08	Edwards	C	1.4–1.8	84.04	7.58	1.75	0.33	0.43	1.01	1.64
R22042	22-14	Edwards	C	2.9–3.1	84.38	6.74	3.02	0.38	0.33	0.59	1.37
R22049	24-01	Edwards	A	0.0–0.2	81.73	7.27	2.50	0.32	0.38	0.78	1.88
R22050	24-02	Edwards	A	0.2–0.4	79.83	9.12	3.14	0.45	0.36	0.75	2.03
R22051	24-03	Edwards	B	0.4–0.5	74.58	11.65	4.83	0.80	0.45	0.70	2.10
R22052	24-04	Edwards	B	0.5–0.6	73.50	12.20	5.14	0.89	0.43	0.83	2.15
R22053	24-10	Edwards	C	1.8–2.2	80.94	8.97	3.29	0.46	0.34	0.63	1.45
R22054	24-16	Edwards	2B	2.8–3.0	81.93	9.07	3.28	0.40	0.23	0.43	1.38
R22185	39-1/2	Effingham	A	0.0–0.3	81.20	7.30	3.12	0.46	0.49	0.85	1.57
R22186	39-03	Effingham	E	0.3–0.4	72.20	12.30	5.03	0.86	0.26	0.77	1.62
R22187	39-04	Effingham	B1	0.4–0.8	71.30	13.50	5.59	1.00	0.30	0.80	1.82
R22188	39-05	Effingham	B2	0.8–0.9	75.30	10.50	5.00	0.88	0.36	1.03	2.09
R22189	39-07	Effingham	2B1	1.0–1.3	79.80	9.20	3.74	0.51	0.38	0.81	1.54
R22190	39-13	Effingham	3Bt4	2.7–2.9	70.00	11.10	9.77	0.70	0.47	0.57	1.60
R22116	30-01	Fayette	Ap	0.0–0.2	81.10	7.70	2.52	0.32	0.50	0.90	1.64
R22117	30-02	Fayette	AE	0.2–0.4	79.30	9.50	3.23	0.51	0.35	0.95	1.86
R22118	30-03	Fayette	E	0.4–0.5	74.90	11.30	4.61	0.77	0.32	0.97	1.93
R22119	30-04	Fayette	B1	0.5–0.9	72.90	13.00	4.81	0.93	0.40	0.97	1.87
R22120	30-08	Fayette	2B	1.6–1.8	84.10	7.50	1.97	0.33	0.38	0.62	1.26
R22121	31-01	Fayette	Ap	0.0–0.1	76.50	10.60	3.31	0.52	0.56	0.71	1.43
R22122	31-02	Fayette	Bt1	0.1–0.4	74.20	12.90	4.09	0.72	0.59	0.71	1.38
R22123	31-03	Fayette	Bt2	0.4–0.7	77.70	10.70	4.02	0.70	0.68	0.74	1.40
R22124	31-04	Fayette	Bt3	0.7–1.1	78.50	8.00	7.26	0.57	0.57	0.67	1.48
R22125	31-08	Fayette	B7	1.1–2.0	81.80	8.00	2.19	0.59	1.32	0.88	1.83
R22126	31-20	Fayette	0.08	3.8–4.9	67.20	9.00	2.74	2.96	5.17	0.91	1.80
R22191	40-01	Fayette	Ap	0.0–0.1	76.50	7.50	4.17	0.38	0.53	0.83	1.67
R22192	40-02	Fayette	E	0.1–0.4	80.90	8.30	3.08	0.40	0.30	0.90	1.74
R22193	40-03	Fayette	B1	0.4–0.5	76.30	10.80	4.36	0.64	0.29	0.91	1.92
R22194	40-04	Fayette	B2	0.5–0.7	74.70	11.80	4.89	0.80	0.24	0.87	1.79
R22195	40-07	Fayette	2B1	1.0–1.2	72.20	12.60	5.88	0.96	0.36	1.00	2.02
R22196	40-14	Fayette	3Bt1	2.8–3.1	77.80	10.80	3.73	0.69	0.42	0.66	1.56
R22197	41-01	Fayette	Ap	0.0–0.3	78.90	7.60	3.91	0.37	0.60	0.95	1.69
R22198	41-02	Fayette	E1	0.3–0.4	77.60	8.80	3.98	0.45	0.44	0.94	1.79
R22199	41-03	Fayette	E2	0.4–0.5	75.00	10.90	4.59	0.66	0.38	0.95	1.85
R22200	41-04	Fayette	EB	0.5–0.7	72.00	12.80	4.87	0.87	0.34	0.91	1.68
R22201	41-09	Fayette	C1	1.8–2.4	81.60	8.50	2.60	0.47	0.48	0.97	1.62
R22202	41-23	Fayette	3C2	5.2–5.5	60.20	13.20	2.66	3.58	6.04	0.88	1.89

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Lab no.	Sample ID	County	Horizon	Depth interval (m)	SiO_2 (%)	Al_2O_3 (%)	Fe_2O_3 (%)	MgO (%)	CaO (%)	Na_2O (%)	K_2O (%)
R23071	89-01	Ford	Ap	0.0–0.3	72.88	10.88	3.02	0.79	1.27	0.80	2.09
R23072	89-02	Ford	Bg1	0.3–0.5	73.95	12.96	3.41	0.85	0.82	0.80	2.10
R23073	89-03	Ford	Bgt21	0.5–0.6	69.45	15.33	5.17	1.20	0.92	0.65	1.98
R23074	89-04	Ford	Bgt22	0.6–0.9	71.40	14.51	4.28	1.22	1.04	0.81	2.11
R23075	89-05	Ford	2Bg3	0.9–1.0	82.67	8.46	2.49	0.65	0.87	0.79	1.92
R23076	89-07	Ford	2C	1.1–1.3	77.13	6.39	2.93	2.03	2.92	0.58	1.82
R22127	11-01	Franklin	Ap	0.0–0.2	81.40	8.00	2.67	0.28	0.44	0.99	1.74
R22128	11-02	Franklin	AE	0.2–0.4	81.80	8.30	2.30	0.30	0.40	1.00	1.70
R22129	11-03	Franklin	AE	0.4–0.6	82.40	7.90	2.20	0.26	0.32	0.99	1.66
R22130	11-05	Franklin	B	0.9–1.1	81.70	8.30	2.23	0.24	0.26	0.95	1.55
R22131	11-06	Franklin	B	1.6–1.7	82.00	8.90	2.20	0.32	0.31	1.01	1.63
R22132	11-34	Franklin	C	6.8–6.9	82.30	7.60	2.25	0.54	0.58	1.09	1.75
R23011	79-01	Fulton	Ap	0.0–0.2	79.59	7.71	2.33	0.46	0.50	1.22	2.12
R23012	79-02	Fulton	E	0.2–0.3	79.94	8.87	2.68	0.57	0.44	1.24	2.24
R23013	79-03	Fulton	BE	0.3–0.4	73.78	12.28	4.24	0.99	0.51	1.02	2.22
R23014	79-04	Fulton	Bt	0.4–0.6	69.76	14.64	5.10	1.32	0.55	0.95	2.08
R23015	79-06	Fulton	Bt2	0.8–1.1	71.37	13.52	5.17	1.19	0.52	1.13	2.23
R23016	79-11	Fulton	C	1.6–1.8	62.34	10.02	3.26	4.58	5.75	1.25	2.04
R23041	84-01	Fulton	Ap	0.0–0.2	76.95	10.46	2.80	0.75	0.89	1.10	2.13
R23042	84-02	Fulton	Btj	0.2–0.4	73.20	12.37	4.62	1.08	0.85	0.97	2.17
R23043	84-03	Fulton	Bt	0.4–0.6	74.02	11.89	4.65	1.05	0.80	0.99	2.12
R23044	84-05	Fulton	Bt	0.8–1.0	75.21	11.60	4.08	0.98	0.85	1.09	2.14
R23045	84-09	Fulton	2Bw	1.4–1.7	87.53	6.27	1.53	0.41	0.58	0.57	1.43
R23046	84-14	Fulton	2C	2.3–2.4	85.32	7.25	1.90	0.47	0.63	0.73	1.65
R23047	85-01	Fulton	Ap	0.0–0.1	75.80	11.39	3.38	0.65	0.83	0.94	2.27
R23048	85-02	Fulton	Bt	0.1–0.4	72.73	13.23	4.49	0.90	0.84	0.89	2.21
R23049	85-03	Fulton	Bt	0.4–0.6	71.50	13.50	5.24	0.98	0.83	0.83	2.18
R23050	85-05	Fulton	Bt	0.8–1.0	71.52	13.55	5.12	1.04	0.89	0.93	2.13
R23051	85-09	Fulton	CBt	1.7–1.9	74.84	11.53	4.31	0.88	0.95	0.96	2.42
R23052	85-13	Fulton	C	2.3–2.5	62.75	9.95	3.38	3.92	5.62	0.95	2.20
R22228	46-01	Greene	Ap	0.0–0.2	78.10	8.90	2.48	0.49	0.83	1.09	2.11
R22229	46-02	Greene	A	0.2–0.4	78.20	9.00	2.53	0.52	0.81	1.09	2.12
R22230	46-04	Greene	AB	0.6–0.7	75.90	10.50	3.45	0.75	0.83	1.07	2.07
R22231	46-05	Greene	B/Ab	0.7–0.9	73.50	12.00	4.22	0.98	0.87	1.01	2.02
R22232	46-08	Greene	Bg	1.2–1.5	73.20	12.10	5.07	1.11	0.86	1.08	2.18
R22233	46-33	Greene	2DC	5.7–5.9	81.00	8.30	2.90	0.73	0.46	0.84	2.41
R23190	103-1	Grundy	Ap	0.0–0.2	68.12	10.75	3.84	1.34	1.99	0.83	2.03
R23191	103-2	Grundy	A	0.2–0.5	69.80	11.97	4.07	1.32	1.47	0.90	1.98
R23192	103-3	Grundy	BA	0.5–0.6	71.62	12.46	4.44	1.40	1.28	0.98	2.02
R23193	103-4	Grundy	Btj	0.6–0.7	53.87	6.83	3.11	6.72	9.72	0.63	1.50
R23194	103-5	Grundy	Ctj	0.7–0.9	68.73	11.79	4.49	2.28	2.58	0.95	1.96
R22133	12-02	Hamilton	Ap	0.1–0.2	73.00	11.30	4.61	0.91	0.81	0.91	2.43
R22134	12-03	Hamilton	B	0.2–0.4	70.60	12.60	5.25	1.13	0.78	0.81	2.49
R22135	12-04	Hamilton	B	0.4–0.6	69.20	12.60	5.33	1.18	0.75	0.80	2.47
R22136	12-06	Hamilton	B	0.9–1.0	71.50	13.40	5.67	1.30	0.78	0.84	2.57
R22137	12-19	Hamilton	2B	2.8–3.1	76.70	11.40	3.61	0.78	0.77	1.13	2.13
R22203	12-27	Hamilton	3C	6.7–6.9	61.60	13.50	4.89	1.93	5.48	0.80	2.26
R23023	81-01	Hancock	A	0.0–0.2	71.97	10.03	2.74	0.82	2.67	1.13	1.74
R23024	81-02	Hancock	AB	0.2–0.6	73.11	12.61	3.58	0.73	0.68	1.21	1.75
R23025	81-03	Hancock	Bt	0.6–0.7	66.92	16.76	5.38	1.09	0.72	1.10	1.76
R23026	81-05	Hancock	Btg	0.9–1.1	72.39	15.64	3.65	0.78	0.54	0.73	1.09
R23027	81-07	Hancock	Btg	1.3–1.5	71.45	16.52	3.83	0.82	0.58	0.60	1.06
R23028	81-13	Hancock	Btox	2.2–2.4	70.61	14.05	7.39	0.69	0.41	0.68	1.42
R23029	82-01	Hancock	A	0.0–0.2	74.48	10.09	2.66	0.71	1.12	1.11	2.06
R23030	82-02	Hancock	AB	0.2–0.4	72.54	12.74	4.38	1.02	0.86	1.06	2.11
R23031	82-03	Hancock	Bt	0.4–0.6	76.07	10.52	2.84	0.72	0.86	1.10	2.09
R23032	82-04	Hancock	Bt	0.6–1.0	71.32	13.28	4.81	1.28	1.00	1.10	2.16

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Lab no.	Sample ID	County	Horizon	Depth interval (m)	SiO_2 (%)	Al_2O_3 (%)	Fe_2O_3 (%)	MgO (%)	CaO (%)	Na_2O (%)	K_2O (%)
R23033	82-09	Hancock	CBgt	1.7–1.9	72.26	12.56	4.58	1.32	1.33	1.46	2.27
R23034	82-13	Hancock	Cgtj	2.4–2.7	69.67	10.47	2.94	2.77	3.60	1.42	2.05
R23344	107-1	Henry	Ap	0.0–0.2	70.84	12.70	4.74	1.25	0.95	0.92	2.13
R23345	107-2	Henry	Bt1	0.2–0.3	73.62	11.28	4.99	1.26	0.95	0.94	2.22
R23346	107-3	Henry	Bt2	0.3–0.6	74.59	11.13	4.61	1.20	0.97	1.08	2.23
R23347	107-4	Henry	Bt3	0.6–0.7	74.70	10.98	4.52	1.21	1.06	1.16	2.46
R23348	107-6	Henry	2Ab	0.8–0.9	76.17	10.45	4.03	1.12	1.05	1.17	2.20
R23349	107-9	Henry	3BtA	1.2–1.4	72.94	12.11	5.50	1.28	0.81	0.55	1.96
R23350	108-1	Henry	Ap	0.0–0.2	69.69	10.55	3.86	1.15	1.30	0.90	2.03
R23351	108-2	Henry	A2	0.2–0.4	69.84	11.64	4.65	1.19	1.13	0.90	2.03
R23352	108-3	Henry	Bt	0.4–0.6	69.75	12.63	5.32	1.35	1.09	0.85	2.04
R23353	108-5	Henry	Bt	0.8–1.0	72.19	12.43	4.97	1.43	1.12	1.01	2.12
R23354	108-7	Henry	BCtj	1.2–1.4	74.78	11.42	4.13	1.28	1.23	1.20	2.10
R23355	108-10	Henry	C21	1.8–2.0	64.27	9.07	2.67	3.72	6.32	1.04	1.92
R23390	110-1	Henry	Ap	0.0–0.2	82.22	6.99	2.43	0.85	0.97	0.88	1.93
R23391	110-2	Henry	Btj	0.2–0.3	80.18	8.23	3.65	0.98	0.87	0.74	1.79
R23392	110-3	Henry	Bt	0.3–0.5	79.50	8.72	3.89	1.02	0.90	0.76	1.80
R23393	110-5	Henry	Bt	0.7–0.8	83.38	7.10	2.86	0.87	0.91	0.89	1.75
R23394	110-7	Henry	E	0.9–1.0	87.58	5.50	1.62	0.70	0.87	1.00	1.53
R23395	110-9	Henry	C	1.2–1.4	88.80	5.06	1.38	0.70	0.90	0.93	1.36
R23396	111-1	Henry	Ap	0.0–0.3	78.54	7.92	3.00	0.94	1.26	0.84	1.62
R23397	111-2	Henry	A12	0.3–0.4	79.88	7.68	3.49	0.93	1.18	0.83	1.59
R23398	111-3	Henry	A13	0.4-0.6	79.92	8.39	3.16	0.99	1.28	0.88	1.66
R23399	111-4	Henry	BA	0.6–0.8	78.32	8.13	5.13	1.05	1.27	0.92	1.69
R23400	111-5	Henry	AB	0.8–1.0	81.39	6.78	2.35	1.31	1.77	0.80	1.53
R23401	111-6	Henry	C1	1.0–1.1	83.81	3.96	1.13	1.92	2.78	0.52	1.16
R23135	97-01	Iroquois	Ap	0.0–0.2	72.97	10.73	3.21	1.30	1.24	0.89	2.66
R23136	97-02	Iroquois	A2	0.2–0.3	73.66	11.10	3.23	1.32	1.15	0.90	2.69
R23137	97-03	Iroquois	Bg	0.3–0.6	73.18	10.87	3.92	1.91	1.96	0.89	2.71
R23138	97-05	Iroquois	Bg	0.6–0.7	73.54	11.16	3.93	1.34	1.06	0.89	2.75
R23139	97-07	Iroquois	C	0.6–1.0	55.25	11.47	5.68	4.69	6.15	0.62	3.44
R23140	97-09	Iroquois	C	1.3–1.5	53.48	10.85	4.97	4.94	7.73	0.67	3.24
R23147	99-01	Iroquois	Ap	0.0–0.2	85.61	5.68	1.44	0.65	0.70	0.79	1.41
R23148	99-02	Iroquois	BA	0.2–0.4	86.77	6.02	1.49	0.66	0.69	0.75	1.49
R23149	99-03	Iroquois	Bw	0.4–0.6	87.76	5.78	1.34	0.65	0.66	0.80	1.56
R23150	99-06	Iroquois	Bg	0.6–0.8	86.01	6.77	1.67	0.71	0.76	0.90	1.72
R23152	99-08	Iroquois	CBg	0.8–1.1	88.70	5.39	1.22	0.67	0.80	0.94	1.63
R23153	99-09	Iroquois	Cg	1.3–1.5	88.57	5.46	1.17	0.70	0.87	0.97	1.71
R23153	100-01	Iroquois	Ap	0.0–0.2	74.28	9.72	3.96	1.10	0.92	0.76	2.51
R23154	100-02	Iroquois	BAt	0.2–0.4	70.25	12.55	5.38	1.43	0.79	0.64	3.07
R23155	100-03	Iroquois	Bt	0.4–0.6	69.75	12.62	5.92	1.54	0.73	0.64	3.46
R23156	100-05	Iroquois	B3t	0.8–1.0	58.41	9.65	4.25	4.61	6.73	0.59	3.09
R23157	100-06	Iroquois	C	1.2–1.4	52.99	8.78	3.70	5.43	9.85	0.58	2.95
R23158	100-08	Iroquois	C	1.8–2.0	54.08	8.94	3.75	5.58	8.94	0.56	3.05
R23159	101-01	Iroquois	Ap	0.0–0.3	68.57	12.51	4.62	1.56	1.16	0.68	2.66
R23160	101-02	Iroquois	BA	0.3–0.4	64.28	16.23	5.97	1.83	0.89	0.64	2.83
R23161	101-03	Iroquois	Bgtj	0.4–0.6	63.29	17.29	6.29	2.11	0.87	0.63	3.16
R23162	101-04	Iroquois	Bgt	0.9–1.1	56.93	17.08	6.20	3.69	2.52	0.45	4.53
R23163	101-05	Iroquois	Cgtj	1.3–1.5	55.24	15.82	5.67	4.03	4.18	0.53	4.28
R23164	101-07	Iroquois	Cg	1.5–1.7	51.76	15.61	5.34	4.66	5.45	0.45	4.75
R21838	8-01	Jackson	B	0.0–0.3	53.40	7.90	3.09	1.11	12.11	0.58	1.54
R21839	8-02	Jackson	C	0.3–0.4	72.10	8.60	3.03	0.57	3.29	0.88	1.86
R21840	8-03	Jackson	C	0.4–0.5	79.00	9.10	3.15	0.50	0.67	0.95	1.92
R21841	8-06	Jackson	2B	1.0–1.2	81.00	8.50	2.03	0.44	0.52	1.09	2.05
R21893	8-12	Jackson	3A	2.4–2.7	79.00	8.30	4.81	0.57	0.63	0.87	1.64
R21894	8-22	Jackson	4C	4.1–4.2	76.30	10.90	3.47	0.90	1.07	1.39	2.24
R22179	38-01	Jasper	Ap	0.0–0.2	79.00	8.20	2.56	0.39	1.32	1.09	1.72

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Lab no.	Sample ID	County	Horizon	Depth interval (m)	SiO_2 (%)	Al_2O_3 (%)	Fe_2O_3 (%)	MgO (%)	CaO (%)	Na_2O (%)	K_2O (%)
R22180	38-02	Jasper	AE	0.2–0.4	80.00	8.90	2.85	0.40	0.48	1.08	1.76
R22181	38-03	Jasper	E	0.4–0.6	80.90	8.10	3.14	0.39	0.34	0.95	1.77
R22182	38-05	Jasper	Bt1	0.6–0.9	66.20	16.20	6.36	1.27	0.44	0.69	1.73
R22183	38-08	Jasper	2A1	1.5–1.9	80.40	9.50	3.12	0.53	0.47	0.78	1.48
R22184	38-13	Jasper	2Bt4	3.7–3.8	77.90	10.80	3.53	0.80	0.52	0.68	1.99
R22061	26-01	Jefferson	A	0.0–0.2	83.06	6.76	1.74	0.28	0.75	0.92	1.56
R22062	26-02	Jefferson	A	0.2–0.5	83.62	7.36	2.22	0.27	0.39	0.85	1.50
R22063	26-03	Jefferson	E	0.5–0.6	82.68	7.91	2.69	0.29	0.33	0.86	1.53
R22064	26-04	Jefferson	B	0.6–0.9	83.64	7.27	2.79	0.24	0.30	0.83	1.49
R22065	26-08	Jefferson	2C	1.5–1.7	75.66	11.89	3.75	0.59	0.36	0.71	1.58
R22066	26-15	Jefferson	2D	2.4–2.8	60.20	19.94	6.07	1.36	0.33	0.66	3.33
R22216	44-01	Jersey	Ap	0.0–0.3	81.50	7.80	2.27	0.38	0.67	1.23	2.05
R22217	44-02	Jersey	EB	0.3–0.5	78.40	9.50	3.40	0.60	0.60	1.20	2.10
R22218	44-03	Jersey	B	0.5–0.6	71.60	13.20	5.22	1.04	0.64	0.92	2.00
R22219	44-04	Jersey	Btj	0.6–0.9	71.70	13.00	5.36	1.04	0.62	0.93	2.06
R22220	44-13	Jersey	2AB	2.4–2.7	78.20	10.80	2.86	0.59	0.70	1.05	1.89
R22221	44-29	Jersey	2C	5.4–5.5	60.80	7.10	2.43	4.63	9.69	0.60	2.07
R23461	119-1	Jo Daviess	Ap	0.0–0.2	74.65	10.34	2.64	1.14	1.45	1.20	1.93
R23462	119-2	Jo Daviess	Ap	0.2–0.4	74.69	11.28	2.96	1.00	1.18	1.21	1.96
R23463	119-3	Jo Daviess	BA	0.4–0.6	72.43	12.88	3.97	1.16	1.16	1.20	2.00
R23464	119-5	Jo Daviess	Bt	0.7–0.9	70.87	14.29	4.41	1.33	1.28	1.17	2.06
R23465	119-6	Jo Daviess	Bt	0.9–1.0	71.89	14.06	3.79	1.32	1.29	1.22	2.32
R23466	119-11	Jo Daviess	2Cr	1.6–1.9	45.68	18.95	5.03	5.12	6.17	0.22	4.82
R23467	120-1	Jo Daviess	Ap	0.0–0.1	68.36	13.07	3.57	1.73	1.99	0.98	2.16
R23468	120-2	Jo Daviess	Bt	0.1–0.3	68.98	14.70	3.98	1.51	1.39	0.96	2.12
R23469	120-4	Jo Daviess	Bt	0.4–0.6	68.77	16.08	4.75	1.44	0.99	1.02	2.11
R23470	120-5	Jo Daviess	Btg	0.6–0.8	68.09	16.33	4.87	1.47	1.07	1.11	2.14
R23471	120-8	Jo Daviess	C	0.9–1.0	69.95	15.43	4.35	1.34	1.18	1.16	2.65
R23472	120-15	Jo Daviess	2Ab	1.4–1.6	69.36	15.80	4.39	1.30	1.08	0.94	2.50
R21766	3-01	Johnson	Ap	0.0–0.2	78.60	8.40	2.98	0.42	0.60	0.93	1.80
R21767	3-02	Johnson	B	0.2–0.4	78.20	9.70	3.30	0.49	0.52	0.94	1.90
R21768	3-03	Johnson	B	0.4–0.6	77.50	10.00	3.77	0.56	0.44	0.95	1.92
R21769	3-04	Johnson	B	0.6–0.9	77.10	10.90	4.20	0.69	0.32	0.91	1.97
R21770	3-05	Johnson	B	0.9–1.3	71.70	13.00	5.54	0.95	0.36	0.89	1.98
R21771	3-10	Johnson	B	2.0–2.2	75.00	11.40	3.76	0.84	0.97	1.23	2.26
R21772	3-14	Johnson	B	3.0–3.6	59.60	21.10	6.05	1.96	1.16	0.21	1.88
R23768	133-1	Kane	Ap	0.0–0.3	76.86	9.56	3.01	0.99	0.99	0.82	2.69
R23769	133-2	Kane	Btj	0.3–0.5	73.48	11.65	4.79	1.23	0.95	0.78	2.75
R23770	133-3	Kane	2Bt	0.5–0.6	74.33	11.21	4.65	1.22	1.02	0.83	2.81
R23771	133-4	Kane	2BC	0.6–0.7	75.62	10.66	4.15	1.19	1.15	0.88	2.87
R23772	133-5	Kane	2C1	0.8–1.0	59.08	7.81	2.66	5.35	7.46	0.72	2.26
R23773	133-6	Kane	2C2	1.0–1.2	56.81	6.96	2.29	6.06	8.67	0.69	2.15
R23790	135-1	Kane	Ap	0.0–0.3	72.36	11.32	3.94	1.14	1.03	0.80	2.25
R23791	135-2	Kane	Btj	0.3–0.5	69.01	13.36	5.92	1.48	0.93	0.60	2.49
R23792	135-3	Kane	Btj	0.5–0.6	70.01	12.42	6.38	1.49	0.85	0.57	2.89
R23793	135-4	Kane	2Bt	0.6–0.7	63.86	14.46	8.28	1.82	0.97	0.46	3.42
R23794	135-5	Kane	2CB	0.7–0.9	49.29	10.11	6.15	6.05	7.71	0.40	3.07
R23795	135-6	Kane	2C	0.9–1.2	40.21	7.44	4.06	8.98	12.30	0.33	2.37
R23141	98-01	Kankakee	Ap	0.0–0.2	75.62	8.32	3.68	1.07	1.18	0.70	2.05
R23142	98-02	Kankakee	Bt	0.2–0.4	67.15	8.62	12.66	1.33	1.11	0.51	2.19
R23143	98-03	Kankakee	Ab	0.4–0.6	74.56	7.40	3.65	1.61	2.01	0.63	1.80
R23144	98-05	Kankakee	Bt	0.6–0.7	76.34	7.90	7.48	1.04	0.68	0.50	2.05
R23145	98-06	Kankakee	Bt	0.7–0.9	66.28	7.20	16.40	0.97	0.65	0.47	1.94
R23146	98-07	Kankakee	Cr	0.9–1.1	28.44	4.07	2.23	13.71	19.12	0.16	1.70
R23165	102-1	Kankakee	A	0.0–0.2	81.21	7.51	2.21	0.78	0.74	0.71	1.73
R23166	102-2	Kankakee	E	0.2–0.5	83.74	7.12	1.94	0.76	0.73	0.73	1.69
R23167	102-3	Kankakee	Bt	0.5–0.6	81.63	8.27	2.45	0.89	0.75	0.70	1.68

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Lab no.	Sample ID	County	Horizon	Depth interval (m)	SiO_2 (%)	Al_2O_3 (%)	Fe_2O_3 (%)	MgO (%)	CaO (%)	Na_2O (%)	K_2O (%)
R23168	102-4	Kankakee	Bt	0.6–0.8	77.28	10.38	3.58	1.08	0.81	0.62	1.67
R23169	102-5	Kankakee	Btfr	0.8–1.0	73.67	10.83	4.59	1.38	1.16	0.52	1.85
R23170	102-6	Kankakee	Cr	1.0–1.2	57.42	5.20	1.82	6.85	9.91	0.47	1.37
R23796	136-1	Kendall	Ap1	0.0–0.2	71.56	9.88	3.45	1.03	1.95	0.82	2.18
R23797	136-4	Kendall	Btj	0.5–0.6	70.44	13.09	5.11	1.41	1.99	0.79	2.29
R23798	136-6	Kendall	Btj	0.8–0.9	70.75	12.87	5.60	1.38	1.26	0.83	2.45
R23799	136-8	Kendall	2Bt	1.1–1.4	77.57	9.35	4.45	1.20	0.84	0.68	2.27
R23800	136-9	Kendall	2C1	1.4–1.5	54.77	7.66	3.53	6.24	0.62	0.50	2.25
R23801	136-10	Kendall	2C2	1.5–1.7	45.43	7.17	3.45	7.96	0.52	0.43	2.21
R23083	91-01	Knox	Ap1	0.0–0.2	74.26	10.77	3.19	0.67	1.09	0.93	1.99
R23084	91-02	Knox	Ap2	0.2–0.4	73.59	10.97	3.41	0.70	0.97	0.95	1.99
R23085	91-03	Knox	BA	0.4–0.6	71.65	11.79	4.24	0.86	0.90	0.87	2.01
R23086	91-05	Knox	Btj	0.8–1.0	70.08	14.10	5.04	1.06	0.90	0.86	2.06
R23087	91-07	Knox	CBtj	1.1–1.3	73.74	11.93	4.39	1.00	1.07	1.04	2.12
R23088	91-11	Knox	C	1.9–2.1	69.65	10.75	3.52	2.39	3.16	1.04	2.10
R23756	131-1	Lake	A+C1	0.0–0.1	58.92	10.50	4.84	3.81	5.35	0.56	2.95
R23757	131-3	Lake	C3	0.3–0.5	60.25	14.28	7.18	2.98	2.32	0.44	3.46
R23758	131-4	Lake	2CB	0.5–0.6	50.91	12.31	5.28	5.58	6.99	0.38	3.51
R23759	131-5	Lake	2C	0.6–0.8	43.86	10.89	4.33	6.22	11.75	0.31	3.23
R23760	131-6	Lake	2C	0.8–1.0	44.79	10.99	4.50	6.29	11.05	0.36	3.32
R23761	131-7	Lake	2C	1.0–1.2	44.68	10.64	4.39	6.44	11.26	0.38	3.30
R23195	104-1	LaSalle	Ap	0.0–0.3	70.85	10.85	3.26	1.31	1.88	1.00	1.98
R23196	104-2	LaSalle	AB	0.3–0.5	71.30	12.81	3.64	1.14	1.17	0.99	1.96
R23197	104-3	LaSalle	Bt	0.5–0.6	68.28	15.80	4.56	1.41	1.12	0.88	1.92
R23198	104-4	LaSalle	Bt	0.6–0.8	68.09	15.69	5.32	1.45	1.17	0.99	2.01
R23199	104-6	LaSalle	C	0.9–1.1	61.27	11.78	3.74	3.93	5.33	1.00	2.05
R23200	104-8	LaSalle	C	1.2–1.5	54.14	11.03	3.43	4.81	8.80	0.79	2.17
R23414	114-1	LaSalle	Ap	0.0–0.2	70.55	11.28	3.27	1.17	1.43	0.99	2.10
R23415	114-2	LaSalle	A2	0.2–0.4	70.29	13.37	4.30	1.22	1.10	0.96	2.09
R23416	114-3	LaSalle	Bt	0.4–0.6	68.69	14.92	5.19	1.37	1.07	0.97	2.19
R23417	114-4	LaSalle	Bt	0.6–0.8	69.58	14.78	4.82	1.38	1.16	1.13	2.34
R23418	114-5	LaSalle	Btj	0.8–1.0	69.88	13.97	4.44	1.62	1.59	1.18	2.43
R23419	114-6	LaSalle	Ctj	1.0–1.2	60.71	11.78	3.59	3.88	5.56	1.07	2.21
R22150	34-01	Lawrence	Ap	0.0–0.2	80.90	7.20	1.90	0.31	0.55	0.94	1.95
R22151	34-02	Lawrence	A2	0.2–0.3	82.30	7.50	1.95	0.33	0.42	0.95	2.02
R22152	34-03	Lawrence	E	0.3–0.4	81.10	8.30	2.59	0.43	0.38	0.93	2.12
R22153	34-04	Lawrence	B1	0.4–0.5	77.10	10.30	3.79	0.71	0.36	0.92	2.14
R22154	34-10	Lawrence	2Btx4	1.2–1.5	82.00	7.90	2.99	0.49	0.41	0.88	1.71
R22155	34-13	Lawrence	3A	1.8–2.0	85.10	6.50	2.66	0.34	0.28	0.49	1.41
R23437	115-1	Lee	Ap	0.0–0.3	65.60	9.66	3.18	1.82	2.94	1.01	1.97
R23438	115-2	Lee	AB	0.3–0.6	68.09	10.07	3.26	2.08	3.82	1.07	1.93
R23439	115-3	Lee	BAg	0.6–0.7	65.97	9.81	4.91	1.98	5.15	1.05	1.87
R23440	115-5	Lee	Cg	0.9–1.1	58.74	9.34	7.78	2.87	6.77	0.98	1.91
R23441	115-7	Lee	Cg	1.2–1.4	59.98	8.59	3.13	4.38	8.24	1.01	1.97
R23442	115-9	Lee	Cg	1.5–1.7	61.47	7.07	3.55	4.41	7.63	0.95	1.87
R23443	116-1	Lee	Ap	0.0–0.2	82.57	6.83	2.18	0.85	0.88	0.61	1.50
R23444	116-3	Lee	Btj	0.3–0.5	82.03	7.84	2.57	0.89	0.76	0.59	1.48
R23445	116-4	Lee	Btj	0.5–0.6	81.70	8.21	2.84	0.96	0.76	0.59	1.44
R23446	116-5	Lee	Btj	0.6–0.8	85.72	6.36	2.23	0.84	0.67	0.48	1.19
R23447	116-6	Lee	BC	0.8–0.9	89.48	4.85	1.43	0.69	0.61	0.39	1.02
R23448	116-9	Lee	C	1.1–1.3	92.61	3.49	0.83	0.60	0.56	0.30	0.81
R23123	95-01	Livingston	Ap	0.0–0.3	71.97	12.39	3.17	0.84	1.36	0.81	2.00
R23124	95-02	Livingston	A	0.3–0.5	72.02	13.04	3.42	0.76	1.05	0.76	2.00
R23125	95-03	Livingston	Bgtj	0.5–0.6	69.25	15.81	4.82	1.06	0.97	0.72	1.92
R23126	95-05	Livingston	Bgt2	0.8–0.9	69.17	16.02	5.05	1.16	1.04	0.83	2.04
R23127	95-08	Livingston	2Cgt1	1.2–1.4	67.44	11.10	3.66	2.90	3.57	0.76	2.49

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Lab no.	Sample ID	County	Horizon	Depth interval (m)	SiO_2 (%)	Al_2O_3 (%)	Fe_2O_3 (%)	MgO (%)	CaO (%)	Na_2O (%)	K_2O (%)
R23128	95-13	Livingston	3Cg	2.0–2.3	50.78	13.65	4.55	5.50	6.89	0.38	3.92
R23129	96-01	Livingston	Ap	0.0–0.3	64.90	14.19	5.01	1.31	2.14	0.67	2.65
R23130	96-02	Livingston	Bgt	0.3–0.5	63.81	15.07	8.22	1.69	1.13	0.50	3.05
R23131	96-03	Livingston	2CBtj	0.5–0.6	47.85	10.34	5.29	6.85	8.57	0.27	2.86
R23132	96-04	Livingston	2CBtj	0.6–0.9	54.24	11.10	5.68	5.08	6.23	0.38	3.31
R23133	96-07	Livingston	2C	1.1–1.4	50.96	13.88	4.78	4.96	7.06	0.39	3.91
R23134	96-11	Livingston	4C	2.0–2.3	50.32	13.98	5.64	4.66	6.96	0.41	3.79
R22347	64-01	Logan	Ap	0.0–0.2	75.10	9.40	4.40	0.50	0.75	0.70	2.13
R22348	64-02	Logan	A	0.2–0.5	74.20	9.90	4.82	0.56	0.58	0.67	2.09
R22349	64-03	Logan	Bt1	0.5–0.6	73.00	10.70	5.32	0.75	0.57	0.77	2.16
R22350	64-06	Logan	BC	1.0–1.1	74.50	10.50	4.92	0.96	1.01	0.97	2.27
R22351	64-08	Logan	C	1.2–1.5	62.00	7.50	3.70	4.67	7.07	0.72	2.10
R22352	64-22	Logan	3BAb	4.1–4.3	75.60	10.90	5.53	0.90	0.54	0.53	1.80
R22686	74-01	Logan	Ap	0.0–0.2	68.20	13.00	3.79	1.01	1.37	0.97	2.02
R22687	74-03	Logan	AB	0.3–0.5	69.90	13.70	4.42	1.14	1.04	1.04	2.01
R22688	74-04	Logan	Bg	0.5–0.7	70.90	13.80	4.38	1.15	0.91	1.07	2.06
R22689	74-05	Logan	B	0.7–0.9	69.60	14.50	5.28	1.24	0.88	1.10	2.12
R22690	74-07	Logan	Bgtj	1.0–1.2	69.00	13.40	4.25	1.81	1.78	1.05	2.11
R22691	74-11	Logan	C	1.7–1.8	59.20	8.10	2.47	6.10	7.81	1.00	2.04
R22704	77-1	Logan	Ap	0.0–0.3	69.96	10.87	3.12	0.57	0.56	0.85	1.99
R22705	77-2	Logan	AB	0.3–0.5	66.21	13.65	4.07	0.84	0.46	0.73	1.96
R22706	77-5	Logan	Bt	0.5–1.0	67.87	14.61	4.85	0.92	0.42	0.91	1.98
R22707	77-8	Logan	Bt1	1.3–1.5	71.76	12.54	4.31	0.77	0.59	1.13	2.09
R22708	77-14	Logan	C	2.2–2.4	90.17	5.42	1.05	0.14	0.26	0.72	1.49
R22709	77-26	Logan	Ab	3.9–4.1	72.56	12.28	4.07	0.82	1.07	1.45	2.21
R22692	75-01	Macon	Ap	0.0–0.2	77.20	12.40	3.75	0.71	0.66	0.93	2.00
R22693	75-02	Macon	AB	0.2–0.4	69.50	15.20	4.62	1.05	0.48	0.75	1.82
R22694	75-03	Macon	Btj	0.4–0.6	67.10	17.00	5.65	1.18	0.53	0.69	1.83
R22695	75-04	Macon	Bt	0.6–0.8	68.70	15.80	5.64	1.10	0.52	0.82	1.94
R22696	75-06	Macon	Btj	1.0–1.1	72.50	13.20	4.49	1.18	0.90	0.92	2.30
R22697	75-10	Macon	C	1.6–1.8	61.40	9.50	3.11	4.42	7.02	0.54	2.59
R22210	43-01	Macoupin	Ap	0.0–0.2	82.10	7.60	2.05	0.27	0.56	1.17	1.76
R22211	43-03	Macoupin	E	0.3–0.5	75.50	10.50	4.70	0.59	0.55	1.08	1.81
R22212	43-05	Macoupin	Bt	0.6–0.9	69.70	13.60	6.57	1.06	0.57	0.92	1.82
R22213	43-08	Macoupin	C	1.3–1.5	76.70	10.90	3.05	0.76	0.98	1.55	2.15
R22214	43-12	Macoupin	3A	1.9–2.1	77.90	11.20	2.91	0.71	0.66	0.90	1.74
R22215	43-27	Macoupin	3CD	4.9–5.1	60.70	6.80	1.99	5.01	9.34	0.65	2.04
R22234	47-01	Macoupin	Ap	0.0–0.2	80.90	8.30	2.43	0.48	0.67	1.06	2.04
R22235	47-02	Macoupin	C1	0.2–0.6	80.10	8.70	2.59	0.57	0.73	1.07	2.06
R22236	47-04	Macoupin	C3	0.7–1.1	82.50	7.80	2.25	0.45	0.62	1.00	1.90
R22237	47-05	Macoupin	C4	1.1–1.2	80.10	8.80	2.59	0.60	0.73	1.09	2.08
R22238	47-08	Macoupin	2Bt1	1.8–2.0	81.00	8.70	2.89	0.52	0.55	0.98	1.93
R22239	47-16	Macoupin	2C7	4.3–4.5	78.20	9.90	3.72	0.73	0.65	0.94	2.00
R22104	28-01	Madison	A	0.0–0.3	80.00	8.60	2.25	0.45	0.74	1.09	2.04
R22105	28-02	Madison	B1	0.3–0.7	73.10	12.00	3.51	0.80	0.77	0.92	2.25
R22106	28-03	Madison	B2	0.7–1.1	77.90	10.20	2.55	0.53	0.64	1.05	2.24
R22107	28-04	Madison	B3	1.1–1.4	76.50	11.00	3.78	0.69	0.63	1.05	2.31
R22108	28-10	Madison	C3	2.9–3.1	80.80	9.00	2.59	0.51	0.67	1.14	2.11
R22209	28-15	Madison	D3	4.9–5.1	80.50	9.10	1.80	0.53	0.67	1.13	2.14
R22025	20-01	Marion	A	0.0–0.1	79.29	7.75	2.86	0.40	0.92	0.95	1.66
R22026	20-02	Marion	E	0.1–0.2	80.46	8.44	3.07	0.43	0.30	1.01	1.85
R22027	20-03	Marion	B	0.2–0.4	79.22	8.06	2.54	0.42	0.69	0.98	1.93
R22028	20-04	Marion	B	0.4–0.6	69.67	14.44	5.83	1.21	0.35	0.83	1.80
R22029	20-08	Marion	B	1.3–1.7	80.39	9.17	3.10	0.49	0.48	0.91	1.50
R22030	20-11	Marion	C	2.3–2.4	82.14	8.39	3.02	0.38	0.45	0.86	1.43
R22710	78-01	Mason	Ap	0.0–0.3	89.42	3.80	1.23	0.14	0.18	0.48	1.11
R22711	78-03	Mason	Bt1	0.4–0.6	67.50	14.71	4.28	0.86	0.17	0.44	1.60

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Lab no.	Sample ID	County	Horizon	Depth interval (m)	SiO_2 (%)	Al_2O_3 (%)	Fe_2O_3 (%)	MgO (%)	CaO (%)	Na_2O (%)	K_2O (%)
R22712	78-04	Mason	Bt1	0.6–0.7	75.96	11.12	3.29	0.61	0.13	0.45	1.32
R22713	78-09	Mason	C	1.3–1.4	92.82	3.32	0.71	0.08	0.12	0.47	1.10
R22714	78-12	Mason	b	1.6–1.8	91.08	3.82	1.07	0.14	0.12	0.52	1.08
R22715	78-17	Mason	C	2.7–2.9	78.70	2.50	0.84	1.89	3.97	0.55	0.72
R23017	80-01	McDonough	Ap	0.0–0.2	72.11	7.28	2.65	1.00	5.85	0.99	1.46
R23018	80-04	McDonough	C/A	0.3–0.4	78.03	9.04	2.85	0.82	1.45	1.18	1.72
R23019	80-08	McDonough	CB	0.8–0.9	75.47	8.58	3.14	0.81	3.24	1.03	1.55
R23020	80-10	McDonough	2CB	1.1–1.2	76.06	10.50	3.45	0.91	1.30	1.15	1.80
R23021	80-15	McDonough	4B	1.5–1.6	75.73	12.15	3.08	0.57	0.47	1.04	1.86
R23022	80-20	McDonough	5Ab	2.2–2.4	74.81	11.92	3.65	0.71	0.52	0.97	1.82
R23035	83-01	McDonough	A	0.0–0.2	72.03	11.11	2.92	0.80	1.32	1.03	1.96
R23036	83-02	McDonough	A	0.2–0.4	71.49	11.92	3.34	0.94	1.10	1.03	1.99
R23037	83-04	McDonough	Bgt	0.8–1.0	71.53	13.65	4.28	1.31	1.09	1.02	2.03
R23038	83-05	McDonough	Bgt	1.0–1.2	73.76	12.79	3.40	1.26	1.17	1.22	2.12
R23039	83-10	McDonough	BCtj	2.0–2.1	72.12	10.77	3.92	1.85	2.26	1.27	2.44
R23040	83-14	McDonough	2Ab	2.6–2.8	78.84	11.05	1.82	0.70	0.91	0.96	1.43
R23762	132-1	McHenry	Ap	0.0–0.2	73.83	10.24	3.86	1.10	1.02	0.73	2.17
R23763	132-2	McHenry	Btj	0.2–0.4	73.49	11.48	4.98	1.39	1.01	0.77	2.11
R23764	132-3	McHenry	Btj	0.4–0.6	70.66	12.77	5.29	1.45	1.00	0.71	2.02
R23765	132-4	McHenry	2Bt	0.6–0.7	75.34	10.29	4.66	1.37	1.08	0.68	2.62
R23766	132-5	McHenry	2CB	0.7–0.9	58.84	7.27	2.72	5.66	7.70	0.57	2.16
R23767	132-6	McHenry	2C1	0.9–1.0	52.04	6.81	2.54	6.95	10.12	0.67	2.09
R22674	72-01	McLean	Ap	0.0–0.3	72.10	11.30	3.33	0.74	0.80	0.95	2.10
R22675	72-02	McLean	AB	0.3–0.5	70.20	14.20	4.33	1.08	0.70	0.88	2.15
R22676	72-03	McLean	Bg	0.5–0.6	69.60	15.10	4.74	1.24	0.72	0.90	2.13
R22677	72-04	McLean	Bg	0.6–0.9	69.70	14.40	5.42	1.24	0.73	0.99	2.23
R22678	72-06	McLean	Bg	1.0–1.2	71.30	13.50	5.02	1.19	0.72	1.00	2.47
R22679	72-09	McLean	2C	1.7–2.0	69.20	11.20	3.71	2.78	2.71	0.66	2.79
R22680	73-01	McLean	Ap	0.0–0.2	73.70	11.50	3.26	0.64	0.67	0.94	2.01
R22681	73-02	McLean	AB	0.2–0.4	69.60	15.00	4.59	0.98	0.56	0.77	1.98
R22682	73-03	McLean	Bt	0.4–0.6	67.70	16.20	5.52	1.18	0.51	0.77	1.96
R22683	73-04	McLean	Btj	0.6–0.9	69.60	18.90	5.21	1.21	0.58	1.02	2.10
R22684	73-05	McLean	Btj	0.9–1.0	70.60	14.40	4.81	1.18	0.78	1.15	2.16
R22685	73-06	McLean	C	1.0–1.2	68.20	12.70	4.11	2.39	2.49	1.18	2.13
R23065	88-01	McLean	Ap1	0.0–0.2	71.62	11.48	3.82	0.88	1.08	0.71	2.17
R23066	88-02	McLean	Ap2	0.2–0.4	71.50	12.75	4.23	0.90	0.85	0.75	2.12
R23067	88-03	McLean	Btj	0.4–0.6	69.59	14.37	5.42	1.11	0.82	0.73	2.08
R23068	88-05	McLean	Bt	0.8–0.9	70.52	13.98	5.48	1.16	0.80	0.70	2.28
R23069	88-07	McLean	2BC	1.1–1.2	67.22	13.31	6.91	1.59	1.30	0.53	2.48
R23070	88-08	McLean	2CBt	1.2–1.4	49.50	7.12	3.35	7.98	10.68	0.39	1.81
R22270	53-01	Menard	Ap	0.0–0.2	71.10	10.20	3.34	0.89	0.88	1.04	2.10
R22271	53-02	Menard	AB	0.2–0.4	70.80	11.70	3.50	1.15	0.87	1.17	2.02
R22272	53-03	Menard	BAt	0.4–0.6	68.10	14.50	4.80	1.58	0.91	1.17	1.92
R22273	53-04	Menard	Bt	0.6–0.8	70.90	13.10	4.21	1.53	0.97	1.44	2.18
R22274	53-05	Menard	CB	0.8–1.0	66.30	11.60	3.36	3.37	3.32	1.44	2.19
R22275	53-11	Menard	C	2.3–2.4	60.30	8.30	3.33	4.38	7.76	0.65	2.67
R22342	63-01	Menard	Ap	0.0–0.2	77.40	8.30	3.46	0.92	1.34	0.85	2.16
R22343	63-02	Menard	Ap2	0.2–0.4	79.10	7.80	3.26	0.80	1.21	0.90	2.16
R22344	63-03	Menard	A	0.4–0.6	80.70	7.30	3.27	0.53	0.81	0.82	2.16
R22345	63-06	Menard	Ab	1.0–1.3	80.50	7.78	3.45	0.46	0.70	0.89	2.14
R22346	63-15	Menard	Bwg	2.7–2.9	80.20	7.80	3.55	0.62	0.89	0.90	2.08
R23384	109-1	Mercer	Ap	0.0–0.2	74.67	9.70	3.94	1.05	1.28	0.93	1.97
R23385	109-3	Mercer	A11	0.4–0.6	74.97	8.71	3.15	0.95	1.34	1.02	1.99
R23386	109-4	Mercer	A12	0.6–0.9	75.34	8.72	3.16	0.92	1.29	1.00	2.00
R23387	109-5	Mercer	Btj	0.6–1.1	75.79	10.20	4.51	1.02	0.97	0.84	1.96
R23388	109-7	Mercer	Bk	1.2–1.4	76.17	8.73	4.51	1.20	1.33	0.78	1.89
R23389	109-9	Mercer	2C2	1.6–1.8	68.79	8.45	3.81	2.37	5.23	0.76	1.77

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Lab no.	Sample ID	County	Horizon	Depth interval (m)	SiO_2 (%)	Al_2O_3 (%)	Fe_2O_3 (%)	MgO (%)	CaO (%)	Na_2O (%)	K_2O (%)
R22002	16-01	Monroe	A	0.0–0.1	72.40	11.33	4.63	0.90	0.74	0.88	2.17
R22003	16-02	Monroe	E	0.1–0.3	69.06	13.49	6.33	1.20	0.66	0.88	2.04
R22004	16-03	Monroe	B	0.3–0.6	66.60	14.60	6.41	1.51	0.77	0.89	2.04
R22005	16-04	Monroe	B	0.6–0.9	70.80	12.78	4.96	1.38	1.11	1.19	2.07
R22006	16-16	Monroe	2A	2.8–3.0	75.93	11.63	3.70	0.85	0.88	0.95	1.93
R22007	16-26	Monroe	2B	5.6–5.8	65.10	8.01	2.76	3.56	6.70	0.87	1.94
R22008	17-01	Monroe	A	0.0–0.2	70.36	12.22	3.95	1.14	1.16	1.14	2.52
R22009	17-02	Monroe	A	0.2–0.3	69.92	12.58	4.11	1.18	1.10	1.00	2.54
R22010	17-03	Monroe	A	0.3–0.5	70.20	12.90	4.14	1.23	1.06	1.03	2.49
R22011	17-04	Monroe	A	0.5–0.6	71.95	12.53	4.09	1.21	1.01	1.08	2.41
R22012	17-16	Monroe	C	2.4–3.1	78.50	10.03	2.80	0.78	1.15	1.57	2.29
R22204	42-01	Montgomery	Ap	0.0–0.2	82.60	7.10	2.29	0.39	0.52	0.84	1.85
R22205	42-02	Montgomery	A	0.2–0.4	80.00	8.00	2.80	0.45	0.58	0.87	1.85
R22206	42-04	Montgomery	AB	0.6–0.8	81.80	8.20	2.78	0.46	0.48	0.83	1.80
R22207	42-06	Montgomery	Bw	1.0–1.2	83.80	7.50	2.74	0.43	0.40	0.75	1.56
R22208	42-16	Montgomery	CA	2.8–3.1	87.10	6.20	1.94	0.34	0.46	0.73	1.20
R22209	42-23	Montgomery	D/A	4.3–4.6	76.10	12.10	2.89	0.90	0.79	1.21	2.16
R22240	48-01	Montgomery	Ap	0.0–0.2	78.50	8.50	2.55	0.44	0.85	1.03	2.05
R22241	48-03	Montgomery	Bt1	0.3–0.5	75.10	10.90	3.74	0.73	0.72	0.90	1.97
R22242	48-04	Montgomery	Bt2	0.5–0.6	70.40	13.40	5.31	1.10	0.75	0.80	1.84
R22243	48-06	Montgomery	Bt4	0.8–1.0	70.70	13.20	5.61	1.15	0.78	0.90	1.96
R22244	48-09	Montgomery	C	1.3–1.6	73.70	11.70	4.76	0.90	1.02	1.27	2.16
R22245	48-16	Montgomery	2C1	3.1–3.4	80.00	8.80	3.94	0.60	0.46	0.73	2.25
R22294	57-01	Morgan	Ap	0.0–0.2	77.50	9.50	2.47	0.50	0.59	1.18	2.16
R22295	57-02	Morgan	AE	0.2–0.4	73.61	12.26	4.45	0.77	0.42	0.87	2.35
R22296	57-03	Morgan	Btj	0.4–0.6	70.20	14.10	5.04	1.05	0.48	0.86	2.28
R22297	57-05	Morgan	Bt	0.8–1.0	71.30	13.70	4.98	1.06	0.53	1.05	2.26
R22298	57-11	Morgan	CB	2.0–2.3	75.90	11.00	4.32	0.69	0.95	1.34	2.26
R22299	57-16	Morgan	2A	3.2–3.4	77.40	9.70	4.12	0.65	0.95	1.25	2.28
R23504	122-1*	Ogle	Ap	0.0–0.2	58.61	9.89	6.10	2.03	2.91	0.76	1.90
R23505	122-2*	Ogle	AB	0.2–0.4	68.98	12.44	5.04	1.21	1.22	0.97	2.12
R23506	122-3*	Ogle	Btj	0.4–0.6	71.08	12.90	4.18	1.18	1.09	1.01	2.17
R23507	122-5	Ogle	Btj	0.9–1.0	70.54	14.01	4.80	1.36	1.11	1.07	2.17
R23508	122-8	Ogle	Bt	1.5–1.8	71.98	13.25	4.44	1.36	1.39	1.33	2.24
R23509	122-9	Ogle	C	1.7–2.0	63.19	11.02	3.49	3.73	5.00	1.15	2.19
R23510	123-1	Ogle	Ap	0.0–0.2	71.28	11.78	3.27	1.32	1.51	0.93	2.08
R23511	123-2	Ogle	AB	0.2–0.4	69.66	14.32	4.55	1.31	1.00	0.87	2.02
R23512	123-3	Ogle	Btj	0.4–0.6	69.91	14.55	4.69	1.30	0.97	0.93	2.05
R23513	123-4	Ogle	E′	0.6–0.8	71.10	15.05	3.28	1.11	1.04	1.18	2.31
R23514	123-7	Ogle	2Bg	0.9–1.1	67.71	18.16	2.87	1.38	0.97	0.80	2.25
R23515	123-8	Ogle	3AB	1.1–1.3	70.50	15.99	3.16	1.40	0.96	0.58	2.30
R23089	92-01	Peoria	Ap	0.0–0.2	70.72	10.78	4.10	0.77	1.03	0.81	2.07
R23090	92-02	Peoria	AB	0.2–0.3	69.38	13.64	4.35	1.00	0.83	0.91	2.14
R23091	92-03	Peoria	BA	0.3–0.5	69.93	14.31	5.05	0.99	0.88	0.79	2.13
R23092	92-04	Peoria	Bt	0.5–0.6	71.80	13.36	5.00	1.02	0.90	0.90	2.15
R23093	92-06	Peoria	BCtj	1.1–1.2	73.32	13.45	4.00	0.94	1.07	1.04	2.34
R23094	92-09	Peoria	C	1.6–1.7	65.84	12.31	3.25	2.94	4.05	1.17	2.12
R23095	93-01	Peoria	A/E	0.0–0.2	77.45	10.24	2.62	0.52	0.76	0.99	2.19
R23096	93-02	Peoria	EB	0.2–0.3	74.34	13.23	3.73	0.72	0.75	0.91	2.29
R23097	93-03	Peoria	Bt	0.3–0.5	71.92	14.05	4.79	0.84	0.81	0.81	2.29
R23098	93-04	Peoria	Bt	0.5–0.6	71.57	14.17	5.23	0.91	0.82	0.82	2.23
R23099	93-06	Peoria	Bt2	0.8–1.0	73.56	13.17	4.71	0.82	0.91	0.95	2.33
R23100	93-09	Peoria	2C	1.7–2.0	59.19	10.94	2.88	4.48	6.90	0.58	2.58
R21895	9-01	Perry	Ap	0.0–0.2	78.70	8.00	2.99	0.37	0.83	1.02	1.72
R21896	9-02	Perry	E	0.2–0.4	81.40	8.10	2.95	0.35	0.52	1.07	1.74
R21897	9-03	Perry	E	0.4–0.6	78.60	9.40	3.75	0.46	0.53	1.00	1.78
R21898	9-07	Perry	B	0.8–1.1	71.50	13.20	5.51	0.97	0.60	1.05	1.97

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Lab no.	Sample ID	County	Horizon	Depth interval (m)	SiO_2 (%)	Al_2O_3 (%)	Fe_2O_3 (%)	MgO (%)	CaO (%)	Na_2O (%)	K_2O (%)
R21899	9-12	Perry	B	1.8–2.1	78.90	10.40	2.21	0.62	1.00	1.31	2.02
R21900	9-20	Perry	3B	3.5–3.7	75.70	8.90	7.55	0.37	0.60	0.45	1.44
R21901	10-01	Perry	Ap	0.0–0.2	74.80	11.10	4.05	0.81	0.79	1.19	1.89
R21902	10-02	Perry	EB	0.2–0.4	76.00	10.80	3.68	0.77	0.83	1.25	1.98
R21903	10-03	Perry	EB	0.4–0.5	78.60	10.30	2.98	0.59	0.70	1.10	1.86
R21904	10-05	Perry	B	0.8–1.0	78.90	9.80	3.51	0.52	0.63	0.97	1.65
R21905	10-10	Perry	B	1.9–2.0	75.90	11.70	3.98	0.66	0.65	0.87	1.69
R21906	10-16	Perry	BC	4.4–4.6	79.60	9.00	3.67	0.54	0.54	0.89	1.72
R22222	45-01	Pike	Ap	0.0–0.3	79.10	7.90	2.21	0.64	2.12	1.14	1.98
R22223	45-02	Pike	E2	0.3–0.6	78.10	10.20	3.51	0.64	0.54	1.07	2.09
R22224	45-03	Pike	E2	0.6–0.9	73.10	12.60	5.08	0.97	0.47	0.99	2.06
R22225	45-05	Pike	Bt	1.0–1.2	72.30	12.70	5.56	1.05	0.56	1.03	2.15
R22226	45-09	Pike	C	1.8–2.0	75.90	10.80	4.10	0.83	0.99	1.47	2.32
R22227	45-17	Pike	2Bt	3.7–4.0	70.00	15.00	6.24	0.85	0.43	0.40	1.21
R22300	58-01	Pike	Ap	0.0–0.3	79.80	7.20	2.56	0.37	1.34	0.96	2.08
R22301	58-02	Pike	E	0.3–0.4	80.20	9.20	2.87	0.43	0.47	0.95	2.19
R22302	58-03	Pike	Bt	0.4–0.6	71.40	13.00	5.97	0.85	0.62	0.60	1.99
R22303	58-04	Pike	Bt	0.6–0.9	72.20	12.60	5.88	0.86	0.51	0.62	2.01
R22304	58-07	Pike	Btj	1.2–1.4	73.50	12.00	5.36	0.83	0.62	0.85	2.16
R22305	58-10	Pike	C	1.7–2.0	61.60	8.20	3.38	4.80	6.99	0.81	2.01
R22306	58-31	Pike	2Ab	5.6–5.7	76.20	10.50	3.50	0.75	1.26	1.46	2.26
R22307	59-01	Pike	Ap	0.0–0.1	73.80	11.50	4.43	0.68	0.56	0.86	2.00
R22308	59-02	Pike	Bt	0.1–0.3	71.20	13.70	5.51	0.93	0.46	0.84	2.03
R22309	59-03	Pike	Bt	0.3–0.5	72.10	12.90	5.98	0.86	0.38	0.76	1.99
R22310	59-06	Pike	Bt	0.9–1.0	73.40	11.90	5.79	0.84	0.51	0.90	2.15
R22311	59-13	Pike	3EB	2.1–2.2	77.10	10.20	4.49	0.60	0.62	0.91	2.01
R22312	59-16	Pike	4Bt	2.5–2.7	80.50	8.80	3.81	0.43	0.35	0.62	1.46
R21832	4-01	Pope	A	0.0–0.2	64.80	14.80	5.93	1.12	0.55	0.51	2.66
R21833	4-02	Pope	A	0.2–0.3	64.50	15.60	6.12	1.13	0.49	0.48	2.70
R21834	4-03	Pope	AB	0.3–0.5	64.20	16.30	6.44	1.16	0.50	0.47	2.76
R21835	4-04	Pope	B	0.5–0.6	63.90	16.50	6.62	1.14	0.31	0.48	2.78
R21836	4-08	Pope	B	1.1–1.2	63.20	17.30	7.04	1.28	0.30	0.46	2.82
R21837	4-12	Pope	B	1.7–1.8	63.60	17.00	6.84	1.27	0.35	0.49	2.84
R21773	5-01	Pope	A	0.0–0.1	78.70	8.10	2.40	0.40	0.43	0.72	1.81
R21774	5-02	Pope	E	0.1–0.2	79.80	8.60	2.59	0.41	0.26	0.70	1.80
R21775	5-03	Pope	B	0.2–0.4	78.00	10.00	3.43	0.54	0.24	0.71	1.88
R21776	5-04	Pope	B	0.4–0.6	74.10	11.90	4.62	0.77	0.25	0.74	1.87
R21777	5-07	Pope	B	1.2–1.5	75.90	10.80	4.46	0.78	0.40	1.16	2.12
R21778	5-14	Pope	3EB	2.4–2.6	80.40	9.00	3.07	0.60	0.41	0.77	1.45
R21826	1-01	Pulaski	Ap	0.0–0.2	68.10	13.40	4.90	1.09	1.00	0.85	2.41
R21827	1-02	Pulaski	AB	0.2–0.3	69.10	13.80	4.68	1.19	0.81	0.85	2.36
R21828	1-03	Pulaski	BA	0.3–0.5	68.30	14.20	4.75	1.28	0.76	0.79	2.36
R21829	1-04	Pulaski	B	0.5–0.6	68.30	14.40	4.79	1.33	0.77	0.78	2.36
R21830	1-08	Pulaski	B	1.2–1.4	67.30	15.30	5.17	1.56	0.77	0.76	2.44
R21831	1-11	Pulaski	B	2.4–2.6	66.20	15.40	5.53	1.68	0.89	0.70	2.36
R23201	105-1	Putnam	Ap	0.0–0.3	72.31	12.37	3.53	0.97	0.87	0.97	2.09
R23202	105-2	Putnam	AB	0.3–0.5	69.73	14.32	4.61	1.18	0.90	0.80	2.03
R23203	105-3	Putnam	Bt	0.5–0.6	68.24	16.01	5.00	1.33	0.92	0.84	1.99
R23204	105-5	Putnam	Bt2	0.8–1.0	70.76	14.60	4.61	1.23	1.03	1.11	2.15
R23205	105-7	Putnam	2C	1.2–1.4	52.72	13.29	4.25	5.00	7.31	0.49	3.27
R23206	105-12	Putnam	2C	2.2–2.4	49.95	13.11	3.93	5.41	8.37	0.44	3.36
R22144	33-01	Richland	Ap	0.0–0.2	75.20	9.10	3.02	0.50	0.77	0.96	1.42
R22145	33-02	Richland	A2	0.2–0.3	76.80	9.40	3.30	0.43	0.50	0.96	1.41
R22146	33-03	Richland	AB	0.3–0.5	80.50	8.50	2.80	0.39	0.75	1.01	1.46
R22147	33-04	Richland	B1	0.5–0.6	80.20	8.80	3.35	0.37	0.32	1.09	1.60
R22148	33-06	Richland	B3	0.7–1.3	74.30	12.50	4.12	0.68	0.45	1.02	1.58
R22149	33-10	Richland	C3g	2.6–2.7	71.00	13.90	5.41	0.78	0.51	0.84	1.66

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Lab no.	Sample ID	County	Horizon	Depth interval (m)	SiO_2 (%)	Al_2O_3 (%)	Fe_2O_3 (%)	MgO (%)	CaO (%)	Na_2O (%)	K_2O (%)
R21779	6-01	Saline	Ap	0.0–0.2	76.00	9.50	4.18	0.66	0.94	0.81	1.98
R21780	6-02	Saline	B	0.2–0.5	69.10	14.50	5.60	1.17	0.47	0.71	2.32
R21781	6-03	Saline	B	0.5–0.7	67.40	15.50	5.68	1.46	0.28	0.78	2.50
R21782	6-04	Saline	B	0.7–1.0	67.50	15.30	5.60	1.53	0.30	0.89	2.62
R21783	6-06	Saline	B	1.1–1.3	66.70	15.20	5.85	1.79	0.55	1.07	2.94
R21784	6-20	Saline	2B	3.8–4.0	47.80	13.70	5.40	4.54	9.57	0.78	3.16
R22282	55-01	Sangamon	A	0.0–0.2	74.60	10.90	3.54	0.76	0.74	1.05	2.29
R22283	55-03	Sangamon	A	0.3–0.5	77.00	10.10	3.16	0.67	0.83	1.19	2.21
R22284	55-06	Sangamon	A	0.9–1.1	77.80	9.48	2.97	0.66	0.84	1.19	2.19
R22285	55-08	Sangamon	A	1.3–1.5	78.60	9.30	2.91	0.67	0.79	1.16	2.17
R22286	55-11	Sangamon	Bw	2.1–2.3	79.30	9.10	2.85	0.65	0.75	1.16	2.13
R22287	55-28	Sangamon	2C	5.2–5.6	46.53	18.75	6.34	4.73	5.98	0.42	4.74
R22288	56-01	Sangamon	A	0.0–0.2	72.00	10.00	3.64	0.70	1.06	0.99	2.00
R22289	56-02	Sangamon	A	0.2–0.5	71.80	10.50	3.74	0.75	1.07	0.92	1.96
R22290	56-03	Sangamon	AB	0.5–0.6	70.90	12.00	4.28	0.92	0.91	0.98	1.88
R22291	56-05	Sangamon	Bt	0.8–1.0	67.60	14.10	6.37	1.24	0.86	1.08	1.92
R22292	56-07	Sangamon	Bt	1.2–1.5	71.10	12.40	5.87	1.08	0.89	1.22	2.14
R22293	56-11	Sangamon	C	2.6–2.7	72.60	11.50	3.31	1.49	2.03	1.74	2.30
R22252	50-01	Shelby	Ap	0.0–0.2	74.70	10.70	3.83	0.71	0.57	0.77	2.03
R22253	50-02	Shelby	AB	0.2–0.4	71.60	12.70	5.03	1.03	0.58	0.70	2.02
R22254	50-03	Shelby	BA	0.4–0.6	70.60	13.20	5.57	1.15	0.57	0.74	2.14
R22255	50-05	Shelby	Bt	0.8–1.1	72.00	12.80	5.09	1.26	0.69	0.66	2.89
R22256	50-07	Shelby	C	1.2–1.5	57.90	8.60	3.33	4.56	9.14	0.51	2.72
R22257	50-16	Shelby	D	3.1–3.4	56.60	8.30	3.12	4.81	9.24	0.52	2.65
R22098	27-1	St. Clair	Ap	0.0–0.2	81.10	8.00	1.97	0.35	0.71	1.20	1.97
R22099	27-2	St. Clair	A2	0.2–0.3	80.10	8.90	2.40	0.48	0.72	1.23	2.09
R22100	27-3	St. Clair	B	0.3–0.5	75.90	10.90	3.54	0.69	0.76	1.05	2.03
R22101	27-4	St. Clair	B2	0.5–0.8	71.70	12.70	5.15	1.03	0.72	0.90	1.97
R22102	27-9	St. Clair	C2	1.9–2.1	70.20	9.90	4.05	2.43	3.11	1.36	2.07
R22103	27-13	St. Clair	2A	3.6–3.9	74.00	10.20	2.57	1.73	2.54	1.54	2.26
R23498	121-1	Stephenson	Ap	0.0–0.2	71.40	9.63	3.37	1.66	1.97	0.87	1.99
R23499	121-2	Stephenson	C	0.2–0.4	77.09	9.52	3.11	0.99	0.97	0.97	1.99
R23500	121-3	Stephenson	2A1	0.4–0.6	74.60	10.42	3.50	1.05	0.98	0.91	2.04
R23501	121-5	Stephenson	3Ab	0.8–1.0	72.18	10.81	3.72	1.07	1.01	0.87	2.01
R23502	121-8	Stephenson	3BA	1.3–1.5	71.13	13.00	4.80	1.36	0.95	0.93	2.04
R23503	121-10	Stephenson	3CB	1.7–1.9	71.62	13.13	4.82	1.38	1.08	1.08	2.12
R23053	86-01	Tazewell	Ap	0.0–0.2	78.13	9.02	2.48	0.47	1.24	0.90	2.01
R23054	86-02	Tazewell	E	0.2–0.4	75.14	11.43	4.04	0.69	0.72	0.82	2.11
R23055	86-03	Tazewell	Bt	0.4–0.6	69.01	14.59	5.78	1.08	0.80	0.63	1.95
R23056	86-05	Tazewell	Bt	0.8–1.0	71.10	13.78	5.33	0.98	0.83	0.80	2.06
R23057	86-07	Tazewell	B3	1.2–1.5	72.22	12.94	5.12	1.03	0.92	0.90	2.34
R23058	86-12	Tazewell	C	2.1–2.3	64.26	10.06	3.38	3.67	5.16	0.90	2.11
R21759	2-01	Union	Ap	0.0–0.2	77.10	9.40	2.98	0.61	0.76	0.81	2.14
R21760	2-02	Union	B	0.2–0.4	74.50	11.50	4.18	0.87	0.47	0.79	2.28
R21761	2-03	Union	B	0.4–0.6	73.50	12.10	4.69	0.94	0.31	0.83	2.31
R21762	2-04	Union	E	0.6–0.8	73.70	11.70	4.77	0.94	0.31	0.93	2.30
R21763	2-06	Union	2B	0.8–1.2	73.30	12.20	4.59	0.99	0.41	1.01	2.26
R21764	2-13	Union	2A	2.4–3.1	76.10	10.70	3.63	0.83	0.97	1.38	2.39
R21765	2-26	Union	4B	4.9–5.2	78.50	10.90	3.11	0.46	0.24	0.49	1.53
R22377	68-01	Vermilion	Ap	0.0–0.2	77.80	8.21	3.83	0.43	0.66	0.61	1.94
R22378	68-02	Vermilion	AB	0.2–0.4	70.80	13.20	6.00	0.90	0.61	0.52	1.83
R22379	68-03	Vermilion	Btg	0.4–0.6	68.80	14.30	6.73	1.02	0.56	0.58	1.86
R22380	68-04	Vermilion	Btg	0.6–0.9	70.30	13.80	6.35	1.03	0.65	0.75	1.96
R22381	68-06	Vermilion	BC	1.0–1.2	80.90	7.86	4.12	0.67	0.46	0.71	2.34
R22382	68-09	Vermilion	C	1.7–1.8	59.70	8.00	3.73	4.26	8.38	0.47	2.99
R22506	69-01	Vermilion	Ap	0.0–0.2	98.80	12.60	4.74	0.88	0.57	0.45	2.92

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Lab no.	Sample ID	County	Horizon	Depth interval (m)	SiO_2 (%)	Al_2O_3 (%)	Fe_2O_3 (%)	MgO (%)	CaO (%)	Na_2O (%)	K_2O (%)
R22507	69-03	Vermilion	A	0.4–0.6	72.10	11.20	4.20	0.90	0.80	0.50	2.60
R22508	69-04	Vermilion	A	0.6–0.9	73.40	11.40	4.30	0.98	0.82	0.56	2.51
R22509	69-05	Vermilion	AB	0.9–1.1	77.40	9.60	4.27	0.84	0.64	0.54	2.29
R22510	69-08	Vermilion	2C1	1.4–1.8	57.90	9.70	4.53	4.32	6.99	0.38	3.62
R22511	69-11	Vermilion	2C2	2.1–2.4	57.20	9.52	4.17	4.71	7.36	0.35	3.58
R22043	23-01	Wabash	A	0.0–0.2	76.03	7.90	2.85	0.84	1.61	0.91	1.92
R22044	23-02	Wabash	A	0.2–0.3	73.48	12.43	4.59	0.91	0.30	0.92	1.82
R22045	23-03	Wabash	B	0.3–0.5	78.15	9.64	3.18	0.54	0.49	0.91	2.06
R22046	23-04	Wabash	A′	0.5–0.7	73.17	12.46	5.04	0.95	0.50	0.80	2.14
R22047	23-08	Wabash	C	1.5–1.8	74.00	11.39	4.94	0.98	0.65	1.11	2.60
R22048	23-14	Wabash	C	3.1–3.4	76.80	10.87	4.63	0.57	0.44	0.64	1.50
R23077	90-01	Warren	Ap	0.0–0.3	72.18	10.83	3.22	0.78	2.01	0.84	1.86
R23078	90-02	Warren	BA	0.3–0.5	73.04	11.94	3.96	0.72	0.96	0.87	1.90
R23079	90-03	Warren	Btj	0.5–0.7	72.19	13.28	4.62	0.92	0.89	0.87	1.93
R23080	90-05	Warren	Bw	0.9–1.1	71.88	13.80	4.77	1.01	1.03	1.01	1.96
R23081	90-07	Warren	BCtj	1.3–1.5	73.03	13.16	4.61	0.94	1.11	1.06	2.02
R23082	90-11	Warren	C	2.1–2.3	66.45	10.71	3.64	3.09	4.42	1.00	1.86
R21990	14-01	Washington	Ap	0.0–0.1	78.56	7.33	3.09	0.35	0.57	0.88	1.75
R21991	14-02	Washington	Ap	0.1–0.2	79.39	7.57	2.95	0.35	0.57	0.88	1.75
R21992	14-03	Washington	A	0.2–0.4	79.56	8.53	3.28	0.47	0.46	0.94	1.88
R21993	14-04	Washington	E	0.4–0.6	76.14	11.10	4.31	0.78	0.37	0.95	1.93
R21994	14-06	Washington	B	0.9–1.1	73.29	12.28	5.23	0.92	0.50	1.06	1.99
R21995	14-15	Washington	2B	2.0–2.2	78.67	9.94	3.40	0.55	0.61	1.12	1.75
R21996	15-01	Washington	A	0.0–0.3	81.10	8.10	2.10	0.27	0.56	1.08	1.52
R21997	15-02	Washington	A	0.3–0.5	79.72	8.87	3.48	0.34	0.38	1.09	1.59
R21998	15-03	Washington	E	0.5–0.6	67.83	14.07	7.06	0.83	0.38	0.80	1.46
R21999	15-04	Washington	B	0.9–1.0	62.54	17.55	7.87	1.12	0.40	0.64	1.40
R22000	15-13	Washington	B	2.1–2.7	77.37	11.27	2.75	0.58	0.71	1.10	1.84
R22001	15-20	Washington	C	4.6–4.9	73.98	11.89	5.41	0.76	0.55	0.83	1.87
R22031	21-01	Wayne	A	0.0–0.1	77.17	8.71	2.71	0.40	0.58	0.90	1.56
R22032	21-02	Wayne	A	0.1–0.3	79.84	8.78	2.74	0.37	0.43	0.89	1.57
R22033	21-03	Wayne	E	0.3–0.6	80.83	8.51	2.93	0.33	0.29	0.92	1.63
R22034	21-04	Wayne	B	0.6–0.9	70.86	14.46	4.72	0.73	0.31	0.76	1.55
R22035	21-07	Wayne	B	1.4–1.8	76.44	11.88	2.83	0.65	0.49	1.05	1.87
R22036	21-10	Wayne	B	2.0–2.3	75.36	12.36	3.62	0.60	0.47	0.80	1.66
R22055	25-01	Wayne	A	0.0–0.2	78.41	9.85	3.22	0.43	0.37	1.02	2.08
R22056	25-02	Wayne	C	0.2–0.3	78.55	10.07	3.25	0.41	0.29	1.03	2.07
R22057	25-03	Wayne	C	0.3–0.6	77.41	10.70	3.66	0.54	0.29	1.02	2.10
R22058	25-04	Wayne	C	0.6–0.9	75.46	11.88	3.99	0.64	0.31	0.96	2.15
R22059	25-22	Wayne	2C	2.6–2.7	68.65	14.05	5.66	1.28	0.93	0.88	2.70
R22060	25-29	Wayne	2C	4.4–4.8	67.01	16.02	6.12	1.05	0.45	0.78	2.54
R21985	13-01	White	Ap	0.0–0.2	84.50	6.00	1.85	0.21	0.79	0.92	1.68
R21986	13-02	White	B	0.2–0.4	84.28	7.07	2.20	0.29	0.55	0.90	1.95
R21987	13-03	White	B	0.4–0.6	80.72	8.65	3.16	0.43	0.57	0.91	2.05
R21988	13-04	White	B	0.6–0.9	80.19	9.09	3.35	0.45	0.62	0.95	2.05
R21989	13-18	White	C	3.2–4.0	86.99	5.97	1.77	0.37	0.75	1.26	1.35
R23449	117-1	Whiteside	Ap	0.0–0.2	74.77	9.39	3.18	1.14	1.47	1.11	1.90
R23450	117-2	Whiteside	A2	0.2–0.4	78.02	8.32	2.68	1.16	1.70	1.16	1.78
R23451	117-3	Whiteside	Ab	0.4–0.6	77.64	7.84	2.50	1.00	1.61	1.19	1.68
R23452	117-5	Whiteside	Ab	0.9–1.1	80.82	7.79	2.36	0.86	1.33	1.23	1.68
R23453	117-6	Whiteside	Ab	1.1–1.3	81.99	7.62	2.27	0.85	1.27	1.22	1.68
R23454	117-8	Whiteside	AB	1.5–1.7	82.86	7.55	2.28	0.85	1.28	1.26	1.69
R23534	127-1	Will	A	0.0–0.2	67.09	12.79	4.56	1.49	1.18	0.70	2.64
R23535	127-3	Will	Bgtj	0.3–0.5	64.51	14.95	5.72	2.19	1.37	0.68	3.25
R223536	127-4	Will	BCk	0.5–0.7	55.61	13.38	4.85	3.98	6.05	0.61	3.26
R23537	127-5	Will	BCk	0.7–0.9	52.09	12.57	4.38	4.17	8.51	0.54	3.22
R23538	127-6	Will	BCk	0.9–1.0	52.81	13.07	4.53	4.40	7.39	0.57	3.39

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Lab no.	Sample ID	County	Horizon	Depth interval (m)	SiO_2 (%)	Al_2O_3 (%)	Fe_2O_3 (%)	MgO (%)	CaO (%)	Na_2O (%)	K_2O (%)
R23539	127-7	Will	C	1.0–1.2	53.23	13.26	4.54	4.48	6.84	0.59	3.48
R23802	137-1	Will	Ap	0.0–0.3	71.19	11.10	4.10	1.33	1.31	0.72	2.32
R23803	137-2	Will	B1t	0.3–0.5	69.29	13.43	5.50	1.51	1.05	0.72	2.18
R23804	137-3	Will	B2tj	0.5–0.6	69.37	13.39	5.90	1.49	0.99	0.76	2.35
R23805	137-4	Will	B2tj	0.6–0.8	66.19	14.61	7.02	1.65	0.80	0.58	3.42
R23806	137-5	Will	B3t	0.8–1.0	65.34	14.74	7.44	1.74	0.83	0.57	3.66
R23807	137-6	Will	2C	1.0–1.2	57.84	12.96	5.19	4.07	4.77	0.57	3.30
R21785	7-01	Williamson	A	0.0–0.2	76.80	8.30	2.87	0.47	0.90	0.78	1.81
R21786	7-02	Williamson	BA	0.2–0.3	75.60	11.00	3.91	0.74	0.35	0.81	1.99
R21787	7-03	Williamson	B	0.3–0.5	74.10	11.30	4.31	0.85	0.28	0.82	1.99
R21788	7-06	Williamson	B	0.7–0.9	72.70	12.40	5.12	1.07	0.43	1.08	2.16
R21789	7-21	Williamson	BE	3.8–4.3	77.50	11.10	3.25	0.57	0.36	1.13	1.96
R23516	124-1	Winnebago	Ap	0.0–0.2	81.32	7.16	2.76	1.02	1.01	0.60	2.01
R23517	124-2	Winnebago	Btj	0.2–0.3	81.26	7.65	2.86	1.15	1.08	0.68	2.20
R23518	124-3	Winnebago	C	0.3–0.5	67.52	6.20	2.04	4.35	5.98	0.60	1.92
R23519	124-4	Winnebago	C	0.5–0.6	61.79	5.77	1.81	5.14	8.53	0.56	1.78
R23520	124-5	Winnebago	C	0.6–0.8	60.52	5.72	1.66	5.21	9.26	0.56	1.80
R23521	124-7	Winnebago	C	1.0–1.2	60.52	5.66	1.66	5.25	9.35	0.57	1.79
R23059	87-01	Woodford	Ap	0.0–0.2	77.80	9.35	3.15	0.48	0.79	0.88	1.91
R23060	87-02	Woodford	AE	0.4–0.5	79.40	9.18	2.70	0.42	0.74	0.88	1.90
R23061	87-03	Woodford	EB	0.4–0.6	79.45	9.09	2.78	0.43	0.70	0.88	1.89
R23062	87-04	Woodford	Bt	0.6–0.8	70.67	13.52	5.12	1.10	0.94	0.90	2.08
R23063	87-05	Woodford	BC	0.8–1.0	72.60	12.39	4.86	1.06	1.13	1.10	2.22
R23064	87-06	Woodford	C	1.0–1.2	62.56	10.29	3.77	3.97	5.39	0.93	2.01
R23117	94-01	Woodford	Ap	0.0–0.3	69.22	13.19	3.52	0.82	1.83	0.85	2.05
R23118	94-02	Woodford	A	0.3–0.5	70.59	12.54	4.19	0.90	1.13	0.83	2.03
R23119	94-04	Woodford	Bgt	0.6–0.8	69.96	14.85	4.79	1.09	1.04	0.84	2.06
R23120	94-06	Woodford	Bgtj	0.9–1.1	69.97	14.51	4.78	1.36	1.44	0.95	2.10
R23121	94-08	Woodford	C	1.3–1.4	57.69	11.56	3.10	4.87	6.90	0.88	1.78
R23122	94-12	Woodford	2C	2.0–2.2	52.92	7.76	2.36	6.54	10.56	0.44	1.22

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Lab no.	Sample ID	County	TiO_2 (%)	P_2O_5 (%)	MnO (%)	Tot. C (%)	Inc. C (%)	Org. C (%)	pH	Ba	Cr	Cu	Hg (µg/g)	Ni
R22313	60-01	Adams	0.72	0.13	0.11	2.72	0.05	2.67	6.66	360	10	20	18	8
R22314	60-02	Adams	0.69	0.11	0.09	1.19	0.03	1.16	5.98	238	20	20	18	8
R22315	60-03	Adams	0.72	0.08	0.11	0.62	0.04	0.58	6.12	253	18	19	11	5
R22316	60-06	Adams	0.63	0.10	0.10	0.59	0.03	0.56	5.54	243	80	32	34	18
R22317	60-21	Adams	0.69	0.04	0.10	0.19	0.03	0.16	6.85	<100	153	25	16	24
R22318	60-40	Adams	0.52	0.07	0.06	0.80	0.70	0.10	8.16	<100	205	25	20	42
R22110	29-01	Bond	0.71	0.15	0.12	2.13	0.07	2.06	6.56	693	20	20	28	7
R22111	29-02	Bond	0.77	0.12	0.13	1.34	0.04	1.30	6.65	703	21	19	20	9
R22112	29-03	Bond	0.79	0.10	0.13	0.93	0.04	0.89	6.49	745	24	19	17	6
R22113	29-04	Bond	0.79	0.11	0.09	0.53	0.06	0.47	5.41	665	59	28	22	16
R22114	29-09	Bond	0.60	0.06	0.04	0.24	0.05	0.19	7.10	541	62	18	13	25
R22115	29-14	Bond	0.26	0.05	0.08	0.14	0.04	0.10	7.02	380	<5	18	15	7
R23522	125-1	Boone	0.70	0.16	0.16	2.64	0.11	2.53	5.47	719	80	21	40	31
R23523	125-2	Boone	0.65	0.14	0.13	2.50	0.08	2.42	5.96	648	91	21	40	32
R23524	125-3	Boone	0.73	0.07	0.07	0.61	0.11	0.50	6.50	719	88	18	35	38
R23525	125-4	Boone	0.69	0.10	0.28	0.43	0.06	0.37	6.97	904	268	26	52	38
R23526	125-6	Boone	0.34	0.06	0.02	0.27	0.05	0.22	7.68	428	269	16	21	39
R23527	125-10	Boone	0.34	0.08	0.04	4.13	3.69	0.44	8.28	336	73	14	10	20
R22329	61-01	Brown	0.68	0.11	0.16	2.12	0.64	1.48	7.60	476	28	22	25	11
R22330	61-02	Brown	0.69	0.12	0.06	0.43	0.07	0.36	7.38	288	76	33	30	18
R22331	61-03	Brown	0.71	0.10	0.05	0.26	0.04	0.22	7.01	214	83	36	18	21
R22332	61-04	Brown	0.71	0.10	0.22	0.28	0.03	0.25	6.48	250	114	28	26	19
R22333	61-10	Brown	0.78	0.16	0.18	0.16	0.04	0.12	7.43	333	44	24	27	11
R22334	61-18	Brown	0.68	0.04	0.15	0.16	0.03	0.13	7.18	162	101	22	33	19
R23338	106-1	Bureau	0.72	0.15	0.12	1.65	0.11	1.54	7.11	768	116	24	44	33
R23339	106-2	Bureau	0.73	0.10	0.11	1.05	0.04	1.01	6.76	672	120	29	47	33
R23340	106-3	Bureau	0.71	0.09	0.09	0.61	0.08	0.53	6.76	668	172	30	45	40
R23341	106-4	Bureau	0.70	0.10	0.11	0.47	0.07	0.40	6.51	576	97	41	47	32
R23342	106-6	Bureau	0.70	0.14	0.10	0.28	0.06	0.22	7.14	554	163	31	25	42
R23343	106-8	Bureau	0.53	0.11	0.08	3.21	3.09	0.12	8.36	406	122	24	17	32
R23402	112-1	Bureau	0.69	0.19	0.14	2.10	0.23	1.87	7.00	754	79	22	30	21
R23403	112-3	Bureau	0.72	0.09	0.10	1.11	0.10	1.01	6.86	748	139	26	34	27
R23404	112-4	Bureau	0.67	0.09	0.10	0.66	0.12	0.54	6.58	812	76	27	42	27
R23405	112-6	Bureau	0.62	0.14	0.10	0.62	0.09	0.53	6.38	779	129	27	38	31
R23406	112-8	Bureau	0.61	0.15	0.12	0.37	0.06	0.31	6.60	743	66	22	32	36
R23407	112-10	Bureau	0.59	0.15	0.10	0.49	0.10	0.39	6.94	668	90	20	29	32
R23408	113-1	Bureau	0.71	0.11	0.09	1.97	0.15	1.82	5.67	767	79	23	41	27
R23409	113-2	Bureau	0.68	0.08	0.08	0.94	0.10	0.84	5.82	748	197	31	61	33
R23410	113-3	Bureau	0.67	0.08	0.08	0.66	0.13	0.53	6.15	713	146	28	46	41
R23411	113-4	Bureau	0.65	0.13	0.12	0.93	0.43	0.50	7.07	750	102	28	40	46
R23412	113-5	Bureau	0.53	0.13	0.10	3.09	2.75	0.34	8.22	599	84	27	22	29
R23413	113-6	Bureau	0.42	0.11	0.08	4.10	3.85	0.25	8.29	452	37	23	15	18
R23455	118-1	Carroll	0.71	0.16	0.18	1.64	0.42	1.22	6.86	695	56	20	26	29
R23456	118-2	Carroll	0.74	0.11	0.12	0.51	0.11	0.40	7.02	687	82	22	23	32
R23457	118-3	Carroll	0.73	0.10	0.08	0.37	0.09	0.28	7.32	763	79	24	39	28
R23458	118-5	Carroll	0.66	0.12	0.07	0.29	0.07	0.22	7.06	741	102	27	48	29
R23459	118-8	Carroll	0.65	0.15	0.12	0.24	0.10	0.14	5.84	821	103	29	42	38
R23460	118-11	Carroll	0.72	0.13	0.09	0.31	0.11	0.20	5.96	610	68	27	30	36
R22335	62-01	Cass	0.20	0.07	0.07	0.44	0.03	0.41	5.40	203	<5	17	8	9
R22336	62-02	Cass	0.20	0.07	0.07	0.27	0.03	0.24	6.06	185	285	17	10	23
R22337	62-03	Cass	0.20	0.07	0.07	0.29	0.03	0.26	5.81	177	<5	16	14	24
R22338	62-05	Cass	0.21	0.05	0.04	0.15	0.03	0.12	6.04	238	78	17	<7	17
R22339	62-07	Cass	0.16	0.05	0.03	0.14	0.02	0.12	6.34	140	166	19	<5	20
R22340	62-17	Cass	0.10	0.06	0.03	0.13	0.03	0.10	6.08	108	161	21	<5	129
R22341	62-18	Cass	0.08	0.03	0.02	0.06	0.02	0.04	6.52	<100	156	17	<5	28
R22359	65-01	Champaign	0.78	0.11	0.16	1.91	0.03	1.88	5.96	393	60	22	18	12
R22360	65-02	Champaign	0.79	0.10	0.15	1.68	0.02	1.66	7.09	439	68	23	24	14
R22361	65-03	Champaign	0.69	0.06	0.14	0.92	0.03	0.89	6.06	194	114	33	45	21

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Lab no.	Sample ID	County	TiO_2 (%)	P_2O_5 (%)	MnO (%)	Tot. C (%)	Inc. C (%)	Org. C (%)	pH	Ba	Cr	Cu	Hg (µg/g)	Ni
R22362	65-04	Champaign	0.67	0.06	0.14	0.59	0.04	0.55	6.16	227	137	32	38	35
R22363	65-05	Champaign	0.74	0.10	0.12	0.59	0.04	0.55	6.80	447	51	27	23	19
R22364	65-11	Champaign	0.48	0.06	0.07	2.51	2.23	0.28	7.96	138	<50	22	5	<5
R22512	70-01	Champaign	0.67	0.14	0.07	2.46	0.04	2.42	5.19	282	45	29	29	12
R22513	70-02	Champaign	0.55	0.16	0.04	3.79	0.03	3.76	5.58	256	66	35	31	17
R22514	70-03	Champaign	0.53	0.11	0.05	1.79	0.03	1.76	6.26	171	102	32	30	14
R22515	70-04	Champaign	0.59	0.13	0.12	0.81	0.03	0.78	6.61	267	101	28	38	17
R22516	70-05	Champaign	0.56	0.10	0.08	1.13	0.03	1.10	6.53	426	72	27	28	14
R22517	70-08	Champaign	0.34	0.09	0.03	1.06	0.72	0.34	8.06	260	4	31	18	7
R22518	71-01	Champaign	0.63	0.20	0.10	2.70	0.88	1.82	7.48	330	30	26	36	13
R22519	71-02	Champaign	0.69	0.14	0.10	1.54	0.08	1.46	7.40	364	74	28	40	18
R22520	71-03	Champaign	0.68	0.12	0.13	0.78	0.04	0.74	7.64	295	112	29	43	27
R22521	71-04	Champaign	0.50	0.13	0.10	3.20	2.43	0.77	8.16	203	14	23	21	14
R22522	71-05	Champaign	0.44	0.11	0.08	4.38	3.81	0.57	8.26	175	<5	23	16	8
R22523	71-10	Champaign	0.58	0.07	0.08	2.60	2.38	0.22	8.11	186	39	24	10	<5
R22698	76-01	Champaign	0.67	0.14	0.09	2.00	0.13	1.87	4.76	570	47	17	28	9
R22699	76-03	Champaign	0.76	0.09	0.07	0.88	0.05	0.83	6.20	922	173	24	47	20
R22700	76-04	Champaign	0.75	0.13	0.13	0.70	0.07	0.63	6.67	1,397	92	21	43	21
R22701	76-05	Champaign	0.76	0.14	0.19	0.52	0.06	0.46	7.40	1,267	50	21	31	16
R22702	76-06	Champaign	0.75	0.14	0.31	0.39	0.06	0.33	7.63	1,467	37	18	28	18
R22703	76-08	Champaign	0.43	0.07	0.11	1.74	1.57	0.17	8.06	786	56	16	12	8
R22246	49-01	Christian	0.79	0.16	0.06	1.59	0.03	1.56	6.50	608	ND	ND	21	ND
R22247	49-02	Christian	0.79	0.07	0.07	1.07	0.04	1.03	6.19	690	ND	ND	25	ND
R22248	49-03	Christian	0.81	0.10	0.08	0.60	0.04	0.56	6.22	723	ND	ND	42	ND
R22250	49-05	Christian	0.80	0.13	0.18	0.32	0.04	0.28	6.58	748	56	25	43	17
R22251	49-07	Christian	0.87	0.15	0.06	0.16	0.04	0.12	6.55	688	37	26	37	18
R22252	49-21	Christian	0.59	0.10	0.09	0.17	0.03	0.14	6.81	531	48	27	28	16
R22276	54-01	Christian	0.73	0.21	0.09	2.70	0.19	2.51	7.08	551	49	29	32	18
R22277	54-03	Christian	0.75	0.10	0.15	1.04	0.03	1.01	6.36	634	115	32	44	25
R22278	54-04	Christian	0.76	0.09	0.12	0.53	0.03	0.50	6.33	617	64	34	46	28
R22279	54-05	Christian	0.77	0.09	0.09	0.34	0.04	0.30	6.76	548	81	29	41	26
R22280	54-07	Christian	0.61	0.10	0.04	2.44	2.39	0.05	7.87	414	12	20	12	9
R22281	54-14	Christian	0.79	0.10	0.03	0.45	0.04	0.41	7.32	327	645	31	29	27
R22162	36-01	Clark	0.90	0.11	0.24	0.91	0.05	0.86	5.92	890	25	21	33	12
R22163	36-02	Clark	0.90	0.08	0.12	0.39	0.04	0.35	6.22	905	39	22	30	7
R22164	36-03	Clark	0.88	0.08	0.05	0.25	0.04	0.21	4.50	803	58	32	31	11
R22165	36-04	Clark	0.89	0.09	0.06	0.16	0.04	0.12	4.30	787	65	32	28	8
R22166	36-06	Clark	0.70	0.04	0.04	0.17	0.03	0.14	4.66	554	17	22	18	10
R22167	36-08	Clark	0.58	0.04	0.08	0.19	0.04	0.15	5.22	527	48	25	34	18
R22138	32-01	Clay	0.75	0.19	0.12	1.41	0.13	1.28	6.72	606	21	19	23	<5
R22139	32-02	Clay	0.80	0.10	0.13	1.02	0.13	0.89	5.28	640	23	19	23	<5
R22140	32-03	Clay	0.82	0.09	0.11	0.65	0.03	0.62	4.22	593	30	24	21	6
R22141	32-04	Clay	0.79	0.12	0.40	0.32	0.06	0.26	4.30	771	71	23	35	18
R22142	32-06	Clay	0.75	0.06	0.06	0.22	0.10	0.12	6.34	841	53	27	36	23
R22143	32-11	Clay	0.41	0.10	0.09	2.57	2.57	<0.01	7.93	481	<5	20	12	6
R22013	18-01	Clinton	0.70	0.13	0.07	1.50	0.06	1.44	6.73	579	6	19	18	<5
R22014	18-02	Clinton	0.71	0.09	0.06	0.96	0.03	0.93	6.76	560	7	20	25	<5
R22015	18-03	Clinton	0.75	0.06	0.06	0.70	0.01	0.69	6.62	635	<5	20	16	<5
R22016	18-04	Clinton	0.76	0.05	0.07	0.40	0.02	0.38	6.48	550	<5	19	15	<5
R22017	18-10	Clinton	0.73	0.18	0.09	0.05	0.01	0.04	6.34	1,030	71	32	55	33
R22018	18-16	Clinton	0.59	0.08	0.02	0.18	0.01	0.17	6.87	480	44	25	27	19
R22019	19-01	Clinton	0.59	0.16	0.20	3.38	1.99	1.39	6.92	461	<5	18	28	<5
R22020	19-02	Clinton	0.77	0.11	0.20	1.09	0.04	1.05	6.85	557	29	17	29	<5
R22021	19-03	Clinton	0.80	0.09	0.23	0.58	0.04	0.54	5.23	550	37	17	26	<5
R22022	19-04	Clinton	0.81	0.08	0.06	0.79	0.03	0.76	4.68	468	88	32	37	17
R22023	19-05	Clinton	0.79	0.09	0.04	0.77	0.03	0.74	4.80	558	95	40	35	17
R22024	19-13	Clinton	0.68	0.09	0.08	0.18	0.04	0.14	7.54	516	47	24	32	14
R22173	37-01	Coles	0.84	0.17	0.15	1.49	0.04	1.45	6.24	763	55	19	28	7

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Lab no.	Sample ID	County	TiO_2 (%)	P_2O_5 (%)	MnO (%)	Tot. C (%)	Inc. C (%)	Org. C (%)	pH	Ba	Cr	Cu	Hg (µg/g)	Ni
R22174	37-02	Coles	0.85	0.09	0.13	0.91	0.05	0.86	6.11	761	37	22	41	11
R22175	37-03	Coles	0.84	0.08	0.07	0.75	0.05	0.70	6.17	784	76	31	58	19
R22176	37-04	Coles	0.85	0.12	0.16	0.49	0.04	0.45	6.46	829	181	28	56	34
R22177	37-08	Coles	0.55	0.12	0.13	0.24	0.04	0.20	7.00	614	130	22	22	11
R22178	37-11	Coles	0.73	0.12	0.07	0.89	0.61	0.28	7.39	665	42	26	30	14
R22258	51-01	Coles	0.75	0.11	0.12	1.38	0.06	1.32	4.85	430	31	22	25	8
R22259	51-02	Coles	0.76	0.09	0.14	1.25	0.06	1.19	4.89	356	30	23	27	9
R22260	51-03	Coles	0.76	0.06	0.12	0.84	0.04	0.80	5.72	589	66	31	54	21
R22261	51-04	Coles	0.75	0.06	0.14	0.57	0.06	0.51	6.42	578	71	31	57	29
R22262	51-06	Coles	0.54	0.09	0.10	0.46	0.21	0.25	7.32	417	22	26	30	9
R22263	51-21	Coles	0.38	0.07	0.06	3.36	3.08	0.28	7.63	195	<5	20	17	<5
R23540	128-1	Cook	0.46	0.16	0.06	7.07	0.80	6.27	7.28	546	107	53	115	34
R23541	128-2	Cook	0.59	0.12	0.06	3.21	0.18	3.03	7.28	630	123	33	46	36
R23542	128-3	Cook	0.14	0.05	0.04	2.33	2.00	0.33	8.00	461	187	9	8	16
R23543	128-4	Cook	0.15	0.05	0.04	2.39	2.22	0.17	8.13	491	358	8	7	28
R23544	128-7	Cook	0.18	0.09	0.04	3.67	1.85	1.82	8.08	486	756	10	16	31
R23545	128-9	Cook	0.16	0.05	0.04	3.66	2.62	1.04	8.17	467	373	9	7	21
R23750	130-1	Cook	0.63	0.21	0.06	5.39	0.13	5.26	6.48	574	84	43	48	36
R23751	130-3	Cook	0.67	0.11	0.04	2.28	0.10	2.18	7.12	615	113	61	41	36
R23752	130-5	Cook	0.68	0.10	0.03	0.96	0.11	0.85	7.41	644	306	43	46	30
R23753	130-8	Cook	0.70	0.09	0.03	1.63	0.17	1.46	7.70	697	188	34	42	46
R23754	130-12	Cook	0.49	0.10	0.07	4.08	2.79	1.29	7.24	424	76	33	27	38
R23755	130-13	Cook	0.50	0.10	0.07	3.91	2.72	1.19	7.52	462	71	36	27	37
R22156	35-01	Crawford	0.76	0.26	0.12	0.96	0.04	0.92	5.99	727	10	22	27	7
R22157	35-02	Crawford	0.81	0.11	0.08	0.38	0.03	0.35	6.07	752	24	21	16	<5
R22158	35-03	Crawford	0.81	0.11	0.08	0.42	0.04	0.38	5.98	755	58	34	20	9
R22159	35-04	Crawford	0.80	0.11	0.10	0.40	0.02	0.38	6.03	778	66	34	39	12
R22160	35-06	Crawford	0.71	0.14	0.07	1.12	0.95	0.17	7.53	697	23	27	25	9
R22161	35-09	Crawford	0.67	0.08	0.05	0.16	0.08	0.08	6.76	659	5	25	28	14
R23528	126-1	DeKalb	0.69	0.21	0.10	3.48	0.15	3.33	6.22	686	77	25	45	28
R23529	126-2	DeKalb	0.69	0.16	0.03	2.87	0.13	2.74	6.51	771	81	28	42	33
R23530	126-3	DeKalb	0.70	0.14	0.05	1.19	0.06	1.13	6.68	733	78	31	64	37
R23531	126-5	DeKalb	0.69	0.14	0.37	0.49	0.05	0.44	7.34	936	290	32	51	66
R23532	126-7	DeKalb	0.68	0.17	0.18	0.39	0.06	0.33	7.59	832	279	27	41	38
R23533	126-11	DeKalb	0.35	0.10	0.07	3.66	3.42	0.24	8.31	420	60	17	17	21
R23774	134-1	DeKalb	0.72	0.26	0.17	2.55	0.23	3.32	6.80	753	122	23	34	22
R23775	134-2	DeKalb	0.72	0.10	0.10	1.04	0.08	0.96	5.81	751	109	23	50	27
R23776	134-3	DeKalb	0.70	0.11	0.11	0.69	0.09	0.60	5.59	676	382	28	55	41
R23777	134-4	DeKalb	0.68	0.11	0.12	0.52	0.08	0.44	5.87	701	94	28	39	34
R23778	134-5	DeKalb	0.59	0.11	0.11	0.47	0.14	0.33	6.82	681	144	28	40	61
R23779	134-6	DeKalb	0.38	0.08	0.06	3.96	3.94	0.02	8.22	404	82	20	18	27
R22264	52-1	Douglas	0.70	0.14	0.05	1.96	0.09	1.87	7.40	382	53	28	18	12
R22265	52-2	Douglas	0.74	0.08	0.06	0.85	0.04	0.81	7.24	464	ND	ND	27	ND
R22266	52-3	Douglas	0.71	0.10	0.05	0.97	0.05	0.92	6.91	469	54	30	34	14
R22267	52-5	Douglas	0.71	0.11	0.14	0.34	0.05	0.29	7.18	403	54	29	30	14
R22268	52-7	Douglas	0.78	0.10	0.19	0.40	0.22	0.18	7.74	547	41	24	14	10
R22269	52-14	Douglas	0.42	0.07	0.07	3.08	2.67	0.41	7.81	284	<5	26	6	<5
R22365	66-01	Douglas	0.71	0.10	0.15	1.14	0.04	1.10	5.34	346	109	27	11	22
R22366	66-02	Douglas	0.69	0.06	0.14	0.75	0.03	0.72	6.50	354	69	30	35	24
R22367	66-03	Douglas	0.67	0.06	0.14	0.52	0.03	0.49	7.05	389	109	30	38	29
R22368	66-04	Douglas	0.67	0.10	0.16	0.43	0.03	0.40	7.34	309	119	26	27	22
R22369	66-05	Douglas	0.63	0.11	0.13	0.57	0.31	0.26	7.52	265	79	27	19	16
R22370	66-06	Douglas	0.43	0.07	0.08	2.32	1.92	0.40	7.92	<100	25	24	8	8
R23744	129-1	DuPage	0.56	0.12	0.07	5.16	1.59	3.57	7.65	495	70	38	56	38
R23745	129-4	DuPage	0.51	0.09	0.08	5.27	2.51	2.76	7.65	405	110	36	39	42
R23746	129-5	DuPage	0.54	0.21	0.03	14.16	0.18	13.98	6.32	559	58	76	109	57
R23747	129-6	DuPage	0.66	0.13	0.04	4.37	0.15	4.22	6.82	735	78	43	54	67
R23748	129-7	DuPage	0.55	0.13	0.04	3.14	1.86	1.28	7.57	548	136	27	29	47

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Lab no.	Sample ID	County	TiO_2 (%)	P_2O_5 (%)	MnO (%)	Tot. C (%)	Inc. C (%)	Org. C (%)	pH	Ba	Cr	Cu	Hg (µg/g)	Ni
R23749	129-11	DuPage	0.47	0.09	0.08	4.41	3.42	0.99	7.91	366	82	30	22	38
R22204	67-01	Edgar	0.51	0.11	0.12	1.60	0.83	0.77	7.78	<100	48	26	17	11
R22205	67-02	Edgar	0.70	0.15	0.17	1.89	0.06	1.83	7.31	222	48	23	25	10
R22206	67-03	Edgar	0.75	0.12	0.19	1.58	0.03	1.55	6.84	286	41	22	22	11
R22207	67-05	Edgar	0.69	0.07	0.15	0.72	0.05	0.67	5.67	225	75	31	53	21
R22208	67-07	Edgar	0.60	0.05	0.13	0.54	0.05	0.49	6.44	240	68	30	25	23
R22209	67-09	Edgar	0.34	0.07	0.07	3.00	2.81	0.19	8.22	90	<5	20	3	<5
R22037	22-01	Edwards	0.66	0.17	0.10	2.62	0.10	2.52	6.58	435	<5	20	43	<5
R22038	22-02	Edwards	0.60	0.10	0.10	0.61	0.07	0.54	6.77	398	<5	17	30	<5
R22039	22-03	Edwards	0.64	0.08	0.07	0.38	0.02	0.36	6.66	424	<5	19	25	<5
R22040	22-04	Edwards	0.57	0.07	0.14	0.38	0.02	0.36	6.74	324	<5	18	24	<5
R22041	22-08	Edwards	0.66	0.05	0.02	0.26	0.04	0.22	6.36	450	<5	19	16	<5
R22042	22-14	Edwards	0.30	0.08	0.04	0.14	0.03	0.11	6.80	253	19	22	16	13
R22049	24-01	Edwards	0.88	0.11	0.16	1.13	0.04	1.09	5.42	584	ND	ND	34	ND
R22050	24-02	Edwards	0.91	0.07	0.10	0.55	0.04	0.51	6.02	581	28	24	34	6
R22051	24-03	Edwards	0.89	0.08	0.05	0.39	0.04	0.35	6.00	638	56	30	54	7
R22052	24-04	Edwards	0.89	0.09	0.05	0.32	0.04	0.28	5.48	556	69	33	78	7
R22053	24-10	Edwards	0.72	0.06	0.03	0.18	0.03	0.15	5.72	382	39	27	10	21
R22054	24-16	Edwards	0.75	0.06	0.04	0.18	0.03	0.15	6.42	324	40	22	27	9
R22185	39-1/2	Effingham	0.80	0.09	0.22	0.88	0.07	0.81	6.24	610	73	18	34	8
R22186	39-03	Effingham	0.81	0.06	0.04	0.42	0.04	0.38	4.02	483	89	32	89	13
R22187	39-04	Effingham	0.81	0.09	0.04	0.43	0.04	0.39	3.98	444	62	37	28	15
R22188	39-05	Effingham	0.83	0.10	0.06	0.34	0.03	0.31	4.24	534	56	32	11	11
R22189	39-07	Effingham	0.71	0.08	0.03	0.31	0.03	0.28	4.38	596	44	26	11	15
R22190	39-13	Effingham	0.58	0.06	0.43	0.24	0.03	0.21	6.50	705	86	18	38	18
R22116	30-01	Fayette	0.77	0.13	0.21	1.19	0.04	1.15	6.20	627	13	20	20	10
R22117	30-02	Fayette	0.82	0.10	0.10	0.50	0.04	0.46	4.52	605	31	20	18	9
R22118	30-03	Fayette	0.87	0.11	0.06	0.34	0.04	0.30	4.42	557	49	28	21	9
R22119	30-04	Fayette	0.78	0.11	0.06	0.27	0.04	0.23	4.20	555	57	34	20	15
R22120	30-08	Fayette	0.40	0.02	0.02	0.19	0.03	0.16	5.70	303	12	25	15	22
R22121	31-01	Fayette	0.69	0.12	0.02	1.38	0.03	1.35	4.38	425	50	27	31	19
R22122	31-02	Fayette	0.72	0.05	0.02	0.60	0.04	0.56	4.44	439	63	34	48	20
R22123	31-03	Fayette	0.62	0.04	0.03	0.24	0.03	0.21	6.08	647	34	26	39	29
R22124	31-04	Fayette	0.45	0.09	0.03	0.20	0.04	0.16	6.82	325	31	30	22	19
R22125	31-08	Fayette	0.41	0.06	0.03	0.29	0.20	0.09	7.61	289	7	25	20	13
R22126	31-20	Fayette	0.59	0.08	0.05	2.36	1.64	0.72	7.28	416	6	25	19	12
R22191	40-01	Fayette	0.77	0.11	0.27	3.65	0.05	3.60	5.84	314	20	19	37	9
R22192	40-02	Fayette	0.84	0.10	0.26	0.61	0.05	0.56	4.38	651	27	18	28	7
R22193	40-03	Fayette	0.82	0.09	0.10	0.43	0.04	0.39	4.53	569	43	23	27	8
R22194	40-04	Fayette	0.83	0.09	0.06	0.37	0.03	0.34	4.24	542	73	29	62	10
R22195	40-07	Fayette	0.79	0.13	0.06	0.29	0.04	0.25	4.19	703	75	36	14	12
R22196	40-14	Fayette	0.60	0.04	0.06	0.21	0.03	0.18	6.52	530	82	22	36	15
R22197	41-01	Fayette	0.78	0.10	0.39	1.15	0.05	1.10	6.98	672	37	19	34	9
R22198	41-02	Fayette	0.81	0.09	0.30	1.07	0.04	1.03	6.74	628	29	20	28	10
R22199	41-03	Fayette	0.84	0.08	0.22	0.84	0.04	0.80	5.22	596	46	20	27	9
R22200	41-04	Fayette	0.88	0.08	0.04	0.73	0.03	0.70	4.54	628	62	31	22	13
R22201	41-09	Fayette	0.75	0.06	0.06	0.27	0.02	0.25	6.87	534	24	24	33	10
R22202	41-23	Fayette	0.55	0.09	0.04	2.21	1.80	0.41	8.02	862	21	26	17	9
R23071	89-01	Ford	0.58	0.17	0.09	2.83	0.17	2.66	5.74	453	87	27	30	26
R23072	89-02	Ford	0.64	0.05	0.06	0.94	0.08	0.86	6.08	497	133	27	31	29
R23073	89-03	Ford	0.62	0.07	0.05	0.59	0.07	0.52	6.38	447	83	37	59	38
R23074	89-04	Ford	0.61	0.10	0.07	0.39	0.07	0.32	6.72	449	127	34	44	53
R23075	89-05	Ford	0.40	0.09	0.04	0.34	0.06	0.28	7.54	282	126	22	15	29
R23076	89-07	Ford	0.26	0.08	0.30	1.36	1.18	0.18	8.10	353	32	27	15	38
R22127	11-01	Franklin	0.79	0.10	0.10	1.39	0.05	1.34	5.42	416	47	24	25	21
R22128	11-02	Franklin	0.90	0.10	0.10	0.70	0.04	0.66	5.12	521	12	21	29	6
R22129	11-03	Franklin	0.87	0.09	0.09	0.63	0.04	0.59	4.86	555	15	22	24	6
R22130	11-05	Franklin	0.85	0.08	0.07	0.55	0.03	0.52	4.64	515	32	26	26	13

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Lab no.	Sample ID	County	TiO_2 (%)	P_2O_5 (%)	MnO (%)	Tot. C (%)	Inc. C (%)	Org. C (%)	pH	Ba	Cr	Cu	Hg (µg/g)	Ni
R22131	11-06	Franklin	0.82	0.07	0.15	0.15	0.03	0.12	4.83	582	8	18	30	8
R22132	11-34	Franklin	0.68	0.11	0.03	0.49	0.03	0.46	4.90	539	9	20	26	7
R23011	79-01	Fulton	0.85	0.15	0.25	1.54	0.12	1.42	5.00	684	50	19	30	24
R23012	79-02	Fulton	0.88	0.10	0.17	0.59	0.09	0.50	6.36	619	52	19	25	20
R23013	79-03	Fulton	0.86	0.11	0.10	0.47	0.09	0.39	6.48	618	78	25	35	24
R23014	79-04	Fulton	0.84	0.12	0.06	0.39	0.09	0.30	5.50	517	81	33	32	31
R23015	79-06	Fulton	0.86	0.12	0.08	0.30	0.11	0.19	5.26	457	83	34	33	46
R23016	79-11	Fulton	0.71	0.14	0.08	2.19	1.97	0.22	7.32	399	72	27	21	29
R23041	84-01	Fulton	0.79	0.09	0.12	0.94	0.09	0.85	6.36	640	84	22	33	30
R23042	84-02	Fulton	0.80	0.12	0.08	0.41	0.10	0.31	5.56	569	232	29	72	39
R23043	84-03	Fulton	0.76	0.13	0.07	0.33	0.07	0.26	4.87	511	88	31	28	40
R23044	84-05	Fulton	0.77	0.13	0.06	0.23	0.07	0.16	4.44	501	108	27	18	33
R23045	84-09	Fulton	0.26	0.07	0.05	0.19	0.07	0.12	5.58	232	101	17	16	57
R23046	84-14	Fulton	0.36	0.08	0.05	0.21	0.07	0.14	5.55	270	48	20	19	24
R23047	85-01	Fulton	0.69	0.15	0.16	0.73	0.08	0.65	7.32	683	119	19	33	34
R23048	85-02	Fulton	0.68	0.13	0.09	0.41	0.05	0.36	7.46	328	129	28	40	44
R23049	85-03	Fulton	0.68	0.12	0.08	0.36	0.09	0.27	6.98	509	90	30	31	32
R23050	85-05	Fulton	0.66	0.12	0.08	0.31	0.07	0.24	6.96	532	378	33	27	51
R23051	85-09	Fulton	0.65	0.11	0.10	0.40	0.08	0.32	7.29	487	62	27	25	43
R23052	85-13	Fulton	0.55	0.10	0.07	2.36	2.17	0.19	8.26	330	48	21	16	27
R22228	46-01	Greene	0.75	0.14	0.06	1.73	0.06	1.67	6.20	583	30	27	24	7
R22229	46-02	Greene	0.76	0.11	0.06	1.66	0.05	1.61	6.26	637	20	27	23	9
R22230	46-04	Greene	0.76	0.07	0.04	1.27	0.05	1.22	6.06	651	31	30	21	9
R22231	46-05	Greene	0.76	0.07	0.03	0.99	0.05	0.94	6.17	629	155	33	25	13
R22232	46-08	Greene	0.77	0.14	0.10	0.31	0.06	0.25	6.25	650	90	32	41	15
R22233	46-33	Greene	0.54	0.10	0.02	0.14	0.04	0.10	6.23	455	15	30	27	11
R23190	103-1	Grundy	0.59	0.22	0.05	4.04	0.20	3.84	7.47	465	633	31	80	38
R23191	103-2	Grundy	0.62	0.15	0.05	2.79	0.12	2.67	7.22	538	218	22	72	39
R23192	103-3	Grundy	0.66	0.12	0.07	1.39	0.14	1.25	7.50	587	181	23	54	59
R23193	103-4	Grundy	0.38	0.08	0.06	4.49	4.24	0.25	8.02	333	149	18	43	23
R23194	103-5	Grundy	0.61	0.13	0.14	1.38	0.74	0.64	7.81	606	297	28	56	44
R22133	12-02	Hamilton	0.74	0.17	0.06	1.15	0.06	1.09	6.31	458	60	32	23	16
R22134	12-03	Hamilton	0.74	0.10	0.07	0.66	0.05	0.61	6.48	493	63	30	23	15
R22135	12-04	Hamilton	0.72	0.09	0.08	0.60	0.05	0.55	6.50	517	57	27	23	13
R22136	12-06	Hamilton	0.75	0.09	0.11	0.46	0.04	0.42	6.68	515	54	27	24	17
R22137	12-19	Hamilton	0.80	0.11	0.06	0.27	0.05	0.22	7.05	442	41	26	24	12
R22203	12-27	Hamilton	0.80	0.13	0.06	1.54	1.15	0.39	7.78	633	51	35	26	11
R23023	81-01	Hancock	0.79	0.16	0.08	2.65	0.56	2.09	7.24	529	64	20	29	22
R23024	81-02	Hancock	0.87	0.09	0.09	1.36	0.11	1.25	6.94	594	113	24	26	28
R23025	81-03	Hancock	0.87	0.06	0.12	0.78	0.11	0.67	6.37	581	109	32	50	49
R23026	81-05	Hancock	0.80	0.04	0.08	0.35	0.05	0.30	6.62	479	176	27	39	42
R23027	81-07	Hancock	0.77	0.06	0.04	0.35	0.08	0.27	7.05	471	71	29	45	34
R23028	81-13	Hancock	0.70	0.07	0.05	0.20	0.08	0.12	7.52	471	140	27	41	47
R23029	82-01	Hancock	0.70	0.17	0.11	2.60	0.07	2.53	6.61	714	72	23	117	26
R23030	82-02	Hancock	0.73	0.11	0.10	0.81	0.08	0.73	5.00	689	120	28	43	31
R23031	82-03	Hancock	0.73	0.14	0.10	1.50	0.16	1.34	5.26	648	58	22	55	24
R23032	82-04	Hancock	0.75	0.14	0.13	0.41	0.14	0.27	5.45	670	76	31	48	37
R23033	82-09	Hancock	0.85	0.18	0.17	0.29	0.10	0.19	6.97	769	74	32	34	57
R23034	82-13	Hancock	0.78	0.17	0.06	1.24	1.11	0.13	7.77	490	58	21	20	24
R23344	107-1	Henry	0.74	0.15	0.09	1.42	0.11	1.31	5.79	629	146	33	42	34
R23345	107-2	Henry	0.75	0.10	0.08	0.56	0.07	0.49	6.62	547	162	33	39	38
R23346	107-3	Henry	0.76	0.09	0.08	0.45	0.08	0.37	6.62	602	93	29	35	34
R23347	107-4	Henry	0.77	0.10	0.09	0.50	0.06	0.44	6.44	604	86	30	33	34
R23348	107-6	Henry	0.80	0.09	0.09	0.47	0.10	0.37	6.52	562	79	28	22	35
R23349	107-9	Henry	0.65	0.06	0.05	0.40	0.09	0.31	6.14	411	132	30	39	43
R23350	108-1	Henry	0.66	0.17	0.12	4.13	0.15	3.98	5.84	606	60	28	30	26
R23351	108-2	Henry	0.69	0.12	0.15	2.59	0.09	2.50	5.68	674	81	28	40	29
R23352	108-3	Henry	0.70	0.10	0.11	1.50	0.06	1.44	5.76	695	116	32	54	31

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Lab no.	Sample ID	County	TiO_2 (%)	P_2O_5 (%)	MnO (%)	Tot. C (%)	Inc. C (%)	Org. C (%)	pH	Ba	Cr	Cu	Hg (µg/g)	Ni
R23353	108-5	Henry	0.70	0.11	0.10	0.55	0.10	0.45	5.92	651	114	36	46	40
R23354	108-7	Henry	0.71	0.13	0.13	0.54	0.17	0.37	7.10	647	79	31	33	46
R23355	108-10	Henry	0.60	0.12	0.04	2.67	2.45	0.22	8.50	434	94	22	21	21
R23390	110-1	Henry	0.42	0.07	0.07	1.15	0.15	1.00	7.16	471	219	18	28	28
R23391	110-2	Henry	0.43	0.08	0.07	0.60	0.06	0.54	7.00	493	228	26	22	37
R23392	110-3	Henry	0.42	0.09	0.08	0.46	0.07	0.39	6.97	432	142	28	29	36
R23393	110-5	Henry	0.25	0.07	0.05	0.28	0.06	0.22	6.72	493	441	21	26	42
R23394	110-7	Henry	0.20	0.06	0.03	0.18	0.06	0.12	6.43	344	583	16	13	27
R23395	110-9	Henry	0.17	0.05	0.03	0.21	0.06	0.15	5.46	392	326	16	12	20
R23396	111-1	Henry	0.42	0.13	0.03	2.24	0.12	2.12	6.26	508	147	29	34	23
R23397	111-2	Henry	0.41	0.11	0.02	1.40	0.16	1.24	6.97	438	152	25	30	22
R23398	111-3	Henry	0.45	0.11	0.02	1.02	0.09	0.93	7.34	482	72	22	29	19
R23399	111-4	Henry	0.45	0.13	0.03	0.77	0.08	0.69	7.80	452	220	19	38	22
R23400	111-5	Henry	0.33	0.09	0.02	1.27	0.42	0.85	7.90	401	461	22	25	28
R23401	111-6	Henry	0.12	0.05	0.02	1.40	1.14	0.26	8.14	291	299	16	8	33
R23135	97-01	Iroquois	0.63	0.14	0.04	2.19	0.20	1.99	7.00	468	70	26	27	36
R23136	97-02	Iroquois	0.64	0.12	0.03	1.69	0.16	1.53	7.00	483	271	26	29	41
R23137	97-03	Iroquois	0.62	0.11	0.05	0.87	0.12	0.75	7.08	517	160	24	33	62
R23138	97-05	Iroquois	0.65	0.09	0.04	0.91	0.53	0.38	7.88	585	154	20	31	39
R23139	97-07	Iroquois	0.66	0.12	0.08	2.86	2.54	0.32	7.97	468	71	24	15	43
R23140	97-09	Iroquois	0.63	0.12	0.10	3.57	2.97	0.60	8.00	295	76	26	18	50
R23147	99-01	Iroquois	0.25	0.12	0.03	1.33	0.09	1.24	5.06	430	33	10	17	30
R23148	99-02	Iroquois	0.28	0.04	0.02	0.48	0.09	0.39	5.08	415	196	10	12	33
R23149	99-03	Iroquois	0.28	0.03	0.02	0.26	0.04	0.22	4.76	436	62	10	11	19
R23150	99-06	Iroquois	0.25	0.05	0.03	0.32	0.07	0.25	4.84	449	111	13	16	47
R23152	99-08	Iroquois	0.19	0.04	0.02	0.17	0.09	0.08	6.97	386	47	9	7	13
R23153	99-09	Iroquois	0.20	0.05	0.03	0.14	0.08	0.06	7.44	413	46	10	3	18
R23153	100-01	Iroquois	0.64	0.16	0.10	2.32	0.10	2.22	7.06	552	63	28	123	32
R23154	100-02	Iroquois	0.68	0.08	0.10	1.35	0.09	1.26	7.16	563	79	31	41	51
R23155	100-03	Iroquois	0.69	0.07	0.11	0.94	0.08	0.86	7.10	562	74	31	37	54
R23156	100-05	Iroquois	0.54	0.08	0.09	3.24	2.41	0.83	8.18	399	69	28	23	42
R23157	100-06	Iroquois	0.49	0.07	0.08	4.00	3.50	0.50	8.33	227	66	24	18	34
R23158	100-08	Iroquois	0.51	0.06	0.08	3.87	3.34	0.53	8.28	330	61	26	17	34
R23159	101-01	Iroquois	0.79	0.13	0.11	2.27	0.12	2.15	7.30	583	94	22	26	31
R23160	101-02	Iroquois	0.81	0.06	0.09	1.31	0.07	1.24	7.35	673	108	26	36	38
R23161	101-03	Iroquois	0.80	0.07	0.07	0.75	0.08	0.67	7.45	617	92	31	55	43
R23162	101-04	Iroquois	0.80	0.07	0.09	1.43	1.00	0.43	7.86	631	90	30	24	64
R23163	101-05	Iroquois	0.74	0.08	0.08	2.08	1.61	0.47	8.12	494	79	26	24	52
R23164	101-07	Iroquois	0.71	0.07	0.06	2.56	2.03	0.53	8.25	465	79	24	18	48
R21838	8-01	Jackson	0.56	0.15	0.07	7.79	2.57	5.22	7.28	370	62	31	40	24
R21839	8-02	Jackson	0.71	0.08	0.08	3.60	0.54	3.06	7.44	449	53	26	38	24
R21840	8-03	Jackson	0.73	0.06	0.08	0.50	0.02	0.48	7.34	459	67	24	29	26
R21841	8-06	Jackson	0.75	0.15	0.05	0.58	0.03	0.55	7.31	532	60	24	21	25
R21893	8-12	Jackson	0.60	0.19	0.30	0.19	0.03	0.16	7.40	733	54	25	19	24
R21894	8-22	Jackson	0.79	0.20	0.05	0.16	0.03	0.13	7.41	680	43	26	25	9
R22179	38-01	Jasper	0.87	0.17	0.08	1.22	0.18	1.04	6.81	601	25	22	23	7
R22180	38-02	Jasper	0.92	0.09	0.06	0.60	0.04	0.56	5.16	613	27	23	23	8
R22181	38-03	Jasper	0.81	0.08	0.08	0.53	0.03	0.50	4.70	602	35	22	20	9
R22182	38-05	Jasper	0.78	0.08	0.11	0.55	0.03	0.52	4.37	693	117	34	56	24
R22183	38-08	Jasper	0.61	0.06	0.03	0.20	0.03	0.17	6.57	469	87	25	27	17
R22184	38-13	Jasper	0.50	0.07	0.03	0.13	0.03	0.10	7.18	371	141	25	28	18
R22061	26-01	Jefferson	0.76	0.13	0.14	1.01	0.07	0.94	6.74	457	<5	19	28	7
R22062	26-02	Jefferson	0.74	0.06	0.08	0.33	0.03	0.30	5.05	445	9	20	23	<5
R22063	26-03	Jefferson	0.74	0.06	0.07	0.28	0.03	0.25	4.38	410	17	20	19	<5
R22064	26-04	Jefferson	0.68	0.07	0.08	0.24	0.04	0.20	4.36	403	15	22	27	<5
R22065	26-08	Jefferson	0.72	0.07	0.02	0.17	0.03	0.14	4.12	547	79	31	8	20
R22066	26-15	Jefferson	1.02	0.14	0.04	0.57	0.04	0.53	6.80	798	122	49	16	27
R22216	44-01	Jersey	0.77	0.10	0.21	0.83	0.05	0.78	6.33	667	15	18	24	7

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Lab no.	Sample ID	County	TiO_2 (%)	P_2O_5 (%)	MnO (%)	Tot. C (%)	Inc. C (%)	Org. C (%)	pH	Ba	Cr	Cu	Hg (µg/g)	Ni
R22217	44-02	Jersey	0.80	0.10	0.10	0.40	0.04	0.36	5.40	704	40	20	30	7
R22218	44-03	Jersey	0.76	0.11	0.08	0.42	0.04	0.38	4.60	593	60	32	55	14
R22219	44-04	Jersey	0.76	0.10	0.12	0.32	0.03	0.29	4.58	579	55	29	35	15
R22220	44-13	Jersey	0.74	0.07	0.04	0.20	0.03	0.17	5.74	492	53	26	36	14
R22221	44-29	Jersey	0.40	0.07	0.06	2.87	2.77	0.10	7.86	279	<5	23	22	<5
R23461	119-1	Jo Daviess	0.68	0.11	0.15	2.24	0.26	1.98	6.88	635	60	18	33	21
R23462	119-2	Jo Daviess	0.71	0.10	0.18	1.62	0.11	1.51	6.76	866	54	21	37	27
R23463	119-3	Jo Daviess	0.71	0.08	0.15	0.99	0.10	0.89	6.98	791	110	19	38	36
R23464	119-5	Jo Daviess	0.73	0.10	0.08	0.59	0.07	0.52	7.28	734	94	21	35	37
R23465	119-6	Jo Daviess	0.74	0.12	0.06	0.40	0.07	0.33	7.48	773	89	20	31	36
R23466	119-11	Jo Daviess	0.60	0.16	0.06	2.89	2.62	0.27	8.32	621	56	14	12	26
R23467	120-1	Jo Daviess	0.67	0.22	0.13	2.00	0.58	1.42	7.51	710	57	21	40	26
R23468	120-2	Jo Daviess	0.68	0.13	0.12	1.20	0.28	0.92	7.22	666	91	22	46	26
R23469	120-4	Jo Daviess	0.67	0.12	0.07	0.48	0.07	0.41	6.72	686	90	27	51	30
R23470	120-5	Jo Daviess	0.68	0.14	0.13	0.56	0.06	0.50	6.74	706	99	27	52	37
R23471	120-8	Jo Daviess	0.74	0.15	0.08	0.45	0.08	0.37	6.98	680	94	25	27	39
R23472	120-15	Jo Daviess	0.82	0.12	0.04	0.51	0.09	0.42	6.83	799	71	20	39	28
R21766	3-01	Johnson	0.84	0.09	0.13	1.29	0.02	1.27	6.24	442	54	23	28	24
R21767	3-02	Johnson	0.85	0.05	0.10	0.33	0.02	0.31	6.56	454	89	26	25	37
R21768	3-03	Johnson	0.86	0.06	0.09	0.27	0.02	0.25	5.24	419	82	25	31	23
R21769	3-04	Johnson	0.87	0.07	0.06	0.20	0.02	0.18	4.22	472	58	29	41	26
R21770	3-05	Johnson	0.84	0.09	0.03	0.18	0.01	0.17	4.15	453	103	34	77	45
R21771	3-10	Johnson	0.82	0.33	0.09	0.15	0.01	0.14	6.04	594	62	27	19	34
R21772	3-14	Johnson	0.85	0.05	0.05	0.21	0.02	0.19	6.61	360	114	25	13	61
R23768	133-1	Kane	0.62	0.12	0.11	1.49	0.19	1.30	6.23	668	43	17	28	21
R23769	133-2	Kane	0.58	0.08	0.09	0.93	0.12	0.81	6.66	635	80	28	38	29
R23770	133-3	Kane	0.54	0.09	0.11	0.48	0.13	0.35	6.92	617	90	26	38	33
R23771	133-4	Kane	0.50	0.12	0.10	0.51	0.12	0.39	7.25	613	116	23	26	36
R23772	133-5	Kane	0.36	0.11	0.07	3.55	3.32	0.23	8.16	482	96	16	21	30
R23773	133-6	Kane	0.32	0.09	0.07	4.07	4.06	0.01	8.22	458	69	14	16	18
R23790	135-1	Kane	0.72	0.16	0.14	1.86	0.06	1.80	6.38	720	61	23	44	27
R23791	135-2	Kane	0.65	0.09	0.12	1.03	0.08	0.95	6.56	627	96	36	50	53
R23792	135-3	Kane	0.55	0.08	0.12	0.86	0.09	0.77	6.54	595	74	39	57	50
R23793	135-4	Kane	0.64	0.11	0.14	1.00	0.22	0.78	6.83	620	83	51	59	81
R23794	135-5	Kane	0.51	0.10	0.11	4.20	3.93	0.27	6.90	405	56	39	42	47
R23795	135-6	Kane	0.38	0.09	0.10	6.23	6.06	0.17	8.02	365	49	31	32	37
R23141	98-01	Kankakee	0.53	0.32	0.12	2.63	0.27	2.36	6.85	415	54	28	44	26
R23142	98-02	Kankakee	0.44	0.20	0.12	1.14	0.33	0.81	7.20	337	203	37	63	39
R23143	98-03	Kankakee	0.41	0.32	0.10	3.17	0.63	2.54	7.30	383	53	28	36	23
R23144	98-05	Kankakee	0.40	0.10	0.13	0.72	0.16	0.56	7.04	383	80	31	41	37
R23145	98-06	Kankakee	0.39	0.16	0.11	1.14	0.10	1.04	7.25	403	111	40	101	27
R23146	98-07	Kankakee	0.24	0.05	0.06	8.24	7.88	0.36	8.28	121	20	16	29	12
R23165	102-1	Kankakee	0.49	0.09	0.07	1.76	0.08	1.68	4.98	452	52	16	36	40
R23166	102-2	Kankakee	0.46	0.06	0.03	0.85	0.08	0.77	5.92	530	311	13	30	27
R23167	102-3	Kankakee	0.45	0.06	0.03	0.76	0.10	0.66	5.94	436	89	18	32	24
R23168	102-4	Kankakee	0.43	0.06	0.08	0.82	0.08	0.74	6.00	499	258	21	81	38
R23169	102-5	Kankakee	0.44	0.09	0.09	1.13	0.22	0.91	7.11	446	147	23	70	49
R23170	102-6	Kankakee	0.22	0.08	0.04	4.42	4.09	0.33	8.21	203	203	11	38	18
R23796	136-1	Kendall	0.69	0.31	0.17	3.55	0.47	3.08	6.02	785	62	24	50	26
R23797	136-4	Kendall	0.74	0.10	0.11	0.83	0.13	0.70	6.26	763	64	23	51	28
R23798	136-6	Kendall	0.66	0.10	0.13	0.56	0.10	0.46	5.48	658	120	32	46	40
R23799	136-8	Kendall	0.45	0.10	0.09	0.56	0.12	0.44	6.25	506	59	26	34	43
R23800	136-9	Kendall	0.37	0.10	0.08	4.14	3.86	0.28	8.08	388	47	26	25	27
R23801	136-10	Kendall	0.38	0.11	0.07	5.59	5.25	0.34	8.18	369	41	22	21	20
R23083	91-01	Knox	0.60	0.13	0.10	1.92	0.06	1.86	6.98	1,046	160	27	30	37
R23084	91-02	Knox	0.60	0.13	0.11	1.96	0.08	1.88	5.97	1,033	100	23	32	34
R23085	91-03	Knox	0.62	0.11	0.10	1.78	0.08	1.70	5.60	1,006	117	26	31	29
R23086	91-05	Knox	0.62	0.08	0.13	0.76	0.10	0.66	6.00	464	190	30	40	44

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Lab no.	Sample ID	County	TiO_2 (%)	P_2O_5 (%)	MnO (%)	Tot. C (%)	Inc. C (%)	Org. C (%)	pH	Ba	Cr	Cu	Hg (µg/g)	Ni
R23087	91-07	Knox	0.64	0.12	0.12	0.34	0.05	0.29	7.04	456	92	30	35	52
R23088	91-11	Knox	0.62	0.13	0.08	1.15	1.03	0.12	8.05	372	123	22	20	39
R23756	131-1	Lake	0.55	0.11	0.12	3.37	2.07	1.30	7.92	412	111	32	27	43
R23757	131-3	Lake	0.66	0.09	0.17	1.59	0.68	0.91	7.57	454	81	46	39	71
R23758	131-4	Lake	0.61	0.11	0.09	3.24	2.84	0.40	8.16	390	87	36	23	44
R23759	131-5	Lake	0.53	0.10	0.08	4.45	4.34	0.11	8.18	373	63	31	19	41
R23760	131-6	Lake	0.53	0.09	0.08	4.27	4.03	0.24	8.19	425	61	28	18	42
R23761	131-7	Lake	0.52	0.09	0.07	4.51	4.17	0.34	8.17	408	68	30	17	36
R23195	104-1	LaSalle	0.67	0.12	0.08	2.76	0.29	2.47	7.78	664	206	28	45	27
R23196	104-2	LaSalle	0.71	0.09	0.09	1.93	0.13	1.80	7.40	597	126	22	70	29
R23197	104-3	LaSalle	0.71	0.07	0.07	0.95	0.07	0.88	7.42	625	104	26	87	39
R23198	104-4	LaSalle	0.69	0.09	0.09	0.66	0.13	0.53	7.35	547	133	33	95	67
R23199	104-6	LaSalle	0.56	0.12	0.08	2.38	2.12	0.26	7.97	494	139	26	63	36
R23200	104-8	LaSalle	0.47	0.11	0.08	3.48	3.31	0.17	7.40	438	108	26	29	30
R23414	114-1	LaSalle	0.66	0.34	0.10	3.25	0.22	3.03	6.60	664	89	30	58	23
R23415	114-2	LaSalle	0.67	0.20	0.07	1.65	0.14	1.51	6.72	674	58	29	46	20
R23416	114-3	LaSalle	0.66	0.14	0.12	0.98	0.09	0.89	7.22	763	86	32	59	36
R23417	114-4	LaSalle	0.66	0.16	0.14	0.59	0.13	0.46	7.41	722	126	30	53	53
R23418	114-5	LaSalle	0.65	0.18	0.14	0.66	0.30	0.36	7.76	710	78	30	37	44
R23419	114-6	LaSalle	0.55	0.16	0.09	2.62	2.07	0.55	8.42	484	119	26	24	29
R22150	34-01	Lawrence	0.86	0.12	0.23	1.54	0.11	1.43	6.09	907	<5	20	40	9
R22151	34-02	Lawrence	0.90	0.09	0.21	0.74	0.32	0.42	6.30	958	37	21	38	18
R22152	34-03	Lawrence	0.90	0.07	0.13	0.41	0.04	0.37	6.28	886	15	21	42	6
R22153	34-04	Lawrence	0.91	0.08	0.06	0.24	0.03	0.21	5.14	848	44	29	44	8
R22154	34-10	Lawrence	0.64	0.06	0.05	0.16	0.02	0.14	4.58	651	27	24	14	17
R22155	34-13	Lawrence	0.57	0.05	0.04	0.15	0.05	0.10	5.03	592	13	24	14	9
R23437	115-1	Lee	0.56	0.36	0.03	5.31	0.57	4.74	7.56	634	131	43	62	47
R23438	115-2	Lee	0.59	0.24	0.04	2.88	0.97	1.91	8.03	625	164	32	46	28
R23439	115-3	Lee	0.58	0.21	0.05	2.17	1.27	0.90	8.06	587	71	26	47	27
R23440	115-5	Lee	0.52	0.20	0.09	2.51	2.22	0.29	8.13	568	116	15	33	38
R23441	115-7	Lee	0.50	0.14	0.08	3.20	3.14	0.06	8.32	536	77	22	22	26
R23442	115-9	Lee	0.40	0.14	0.05	3.26	3.09	0.17	8.26	398	136	18	16	21
R23443	116-1	Lee	0.45	0.12	0.08	1.30	0.29	1.01	7.25	489	118	17	22	21
R23444	116-3	Lee	0.47	0.09	0.08	0.90	0.11	0.79	7.32	484	52	21	24	23
R23445	116-4	Lee	0.46	0.10	0.07	0.70	0.10	0.60	7.48	428	122	23	30	27
R23446	116-5	Lee	0.32	0.09	0.06	0.43	0.07	0.36	7.42	380	174	19	26	27
R23447	116-6	Lee	0.22	0.07	0.04	0.24	0.07	0.17	7.48	240	68	17	19	34
R23448	116-9	Lee	0.13	0.05	0.02	0.30	0.06	0.24	7.20	212	158	16	71	28
R23123	95-01	Livingston	0.51	0.17	0.09	2.59	0.09	2.50	7.13	<100	102	29	27	31
R23124	95-02	Livingston	0.51	0.08	0.09	2.28	0.07	2.21	6.72	375	121	28	26	31
R23125	95-03	Livingston	0.55	0.05	0.11	0.95	0.08	0.87	6.60	396	134	34	49	44
R23126	95-05	Livingston	0.56	0.08	0.12	0.54	0.05	0.49	6.64	407	135	36	45	62
R23127	95-08	Livingston	0.45	0.09	0.10	1.90	1.39	0.51	8.18	250	219	27	27	39
R23128	95-13	Livingston	0.53	0.06	0.06	3.78	3.05	0.73	8.30	238	86	29	18	47
R23129	96-01	Livingston	0.61	0.14	0.07	2.98	0.42	2.56	7.49	385	112	31	39	34
R23130	96-02	Livingston	0.55	0.09	0.20	1.33	0.46	0.87	7.74	397	92	47	58	64
R23131	96-03	Livingston	0.38	0.06	0.15	4.76	3.98	0.80	8.16	250	72	37	33	36
R23132	96-04	Livingston	0.46	0.06	0.12	3.36	2.66	0.70	8.24	252	84	42	37	46
R23133	96-07	Livingston	0.52	0.06	0.06	3.17	2.75	0.42	8.14	265	97	29	22	48
R23134	96-11	Livingston	0.53	0.06	0.07	3.47	2.84	0.63	8.10	246	73	29	17	48
R22347	64-01	Logan	0.67	0.14	0.13	2.07	0.04	2.03	6.38	224	52	27	16	15
R22348	64-02	Logan	0.66	0.12	0.12	1.92	0.03	1.89	5.92	241	40	27	16	15
R22349	64-03	Logan	0.72	0.10	0.11	1.35	0.03	1.32	5.85	338	144	30	22	19
R22350	64-06	Logan	0.69	0.13	0.12	0.54	0.09	0.45	6.74	338	51	29	18	18
R22351	64-08	Logan	0.52	0.10	0.08	2.67	2.35	0.32	7.52	173	5	24	9	8
R22352	64-22	Logan	0.61	0.07	0.03	0.13	0.04	0.09	7.00	283	160	26	12	28
R22686	74-01	Logan	0.73	0.23	0.06	3.13	0.08	3.05	7.10	1,216	35	23	28	13
R22687	74-03	Logan	0.76	0.14	0.11	1.68	0.04	1.69	7.04	1,012	328	21	29	23

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Lab no.	Sample ID	County	TiO_2 (%)	P_2O_5 (%)	MnO (%)	Tot. C (%)	Inc. C (%)	Org. C (%)	pH	Ba	Cr	Cu	Hg (µg/g)	Ni
R22688	74-04	Logan	0.76	0.13	0.05	1.02	<0.01	0.94	7.51	1,055	140	20	33	32
R22689	74-05	Logan	0.75	0.14	0.22	0.73	0.07	0.66	7.74	1,084	72	17	47	22
R22690	74-07	Logan	0.73	0.14	0.07	1.35	0.42	0.93	7.95	1,100	113	21	32	18
R22691	74-11	Logan	0.52	0.12	0.08	3.15	2.90	0.25	8.11	612	<5	15	12	7
R22704	77-1	Logan	0.71	0.14	0.14	1.85	0.09	1.76	6.54	1,170	59	21	24	8
R22705	77-2	Logan	0.71	0.12	0.13	1.44	0.10	1.34	6.15	1,448	69	41	30	9
R22706	77-5	Logan	0.66	0.10	0.10	0.45	0.06	0.39	5.90	956	70	39	36	20
R22707	77-8	Logan	0.64	0.13	0.09	0.43	0.06	0.37	6.50	1,086	61	24	27	14
R22708	77-14	Logan	0.13	0.05	0.02	0.12	0.03	0.09	7.66	428	22	<5	6	16
R22709	77-26	Logan	0.71	0.14	0.04	0.35	0.04	0.31	8.17	723	64	53	29	9
R22692	75-01	Macon	0.83	0.14	0.17	1.75	0.05	1.70	6.26	792	39	16	39	9
R22693	75-02	Macon	0.78	0.09	0.10	1.19	0.05	1.14	5.46	971	70	20	37	13
R22694	75-03	Macon	0.71	0.06	0.09	0.80	0.05	0.75	5.96	890	165	22	44	20
R22695	75-04	Macon	0.70	0.07	0.10	0.70	0.05	0.65	6.58	782	135	24	43	22
R22696	75-06	Macon	0.67	0.11	0.11	0.49	0.18	0.31	7.68	574	51	21	26	17
R22697	75-10	Macon	0.37	0.06	0.05	2.52	2.36	0.16	8.17	347	<5	16	12	6
R22210	43-01	Macoupin	0.83	0.14	0.14	1.09	0.05	1.04	5.32	738	15	18	18	8
R22211	43-03	Macoupin	0.87	0.12	0.52	0.53	0.06	0.47	5.40	1,126	52	23	33	9
R22212	43-05	Macoupin	0.76	0.12	0.15	0.42	0.04	0.38	4.70	631	106	32	53	19
R22213	43-08	Macoupin	0.81	0.11	0.07	0.27	0.03	0.24	5.66	647	49	26	38	16
R22214	43-12	Macoupin	0.68	0.05	0.03	0.17	0.03	0.14	5.94	523	192	27	37	18
R22215	43-27	Macoupin	0.36	0.06	0.05	3.07	3.02	0.05	7.86	339	7	24	14	<5
R22234	47-01	Macoupin	0.71	0.11	0.09	0.91	0.05	0.86	6.94	557	20	24	21	8
R22235	47-02	Macoupin	0.76	0.10	0.09	0.77	0.07	0.70	7.48	575	14	24	22	8
R22236	47-04	Macoupin	0.58	0.09	0.08	0.61	0.04	0.57	7.30	552	23	20	19	8
R22237	47-05	Macoupin	0.72	0.10	0.08	0.70	0.07	0.63	4.57	599	15	23	22	9
R22238	47-08	Macoupin	0.63	0.09	0.10	0.44	0.03	0.41	6.80	547	25	23	13	10
R22239	47-16	Macoupin	0.66	0.11	0.06	0.41	0.06	0.35	6.87	524	112	30	9	18
R22104	28-01	Madison	0.65	0.10	0.06	1.16	0.04	1.12	6.82	562	<5	19	27	6
R22105	28-02	Madison	0.83	0.13	0.05	1.34	0.04	1.30	6.58	679	40	21	21	6
R22106	28-03	Madison	0.80	0.09	0.05	0.74	0.04	0.70	6.51	638	20	24	28	9
R22107	28-04	Madison	0.81	0.12	0.10	0.47	0.04	0.43	6.35	637	36	32	37	18
R22108	28-10	Madison	0.66	0.11	0.12	0.22	0.04	0.18	7.14	582	39	27	31	15
R22209	28-15	Madison	0.66	0.06	0.03	0.71	0.04	0.67	3.57	600	17	24	25	8
R22025	20-01	Marion	0.78	0.14	0.25	1.64	0.13	1.51	6.13	617	22	18	43	<5
R22026	20-02	Marion	0.86	0.10	0.18	0.27	0.03	0.24	4.18	588	33	18	35	<5
R22027	20-03	Marion	0.80	0.09	0.20	0.28	0.03	0.25	4.06	604	78	30	28	11
R22028	20-04	Marion	0.78	0.09	0.05	0.26	0.03	0.23	3.88	509	87	35	17	12
R22029	20-08	Marion	0.75	0.06	0.04	0.17	0.03	0.14	5.60	598	28	24	7	23
R22030	20-11	Marion	0.74	0.04	0.04	0.18	0.03	0.15	6.74	414	24	21	14	10
R22710	78-01	Mason	0.18	0.05	0.03	0.66	0.03	0.63	6.40	259	24	16	10	8
R22711	78-03	Mason	0.57	0.06	0.11	0.55	0.04	0.51	5.13	467	82	80	40	18
R22712	78-04	Mason	0.34	0.06	0.07	0.73	0.07	0.67	5.06	401	61	23	32	14
R22713	78-09	Mason	0.07	0.03	0.02	0.14	0.05	0.09	5.54	431	17	133	5	12
R22714	78-12	Mason	0.09	0.04	0.03	0.17	0.05	0.12	5.86	414	25	<5	9	13
R22715	78-17	Mason	0.10	0.04	0.03	1.44	1.39	0.05	8.71	273	16	<5	5	9
R23017	80-01	McDonough	0.52	0.10	0.09	2.16	1.28	0.88	7.55	259	124	19	20	22
R23018	80-04	McDonough	0.68	0.10	0.10	0.81	0.38	0.43	7.82	361	129	21	19	27
R23019	80-08	McDonough	0.54	0.09	0.11	1.17	0.75	0.42	7.76	300	68	20	18	26
R23020	80-10	McDonough	0.73	0.09	0.08	0.56	0.34	0.22	7.88	341	122	22	20	27
R23021	80-15	McDonough	0.82	0.13	0.08	1.01	0.09	0.92	7.46	483	59	23	27	29
R23022	80-20	McDonough	0.83	0.15	0.09	1.03	0.13	0.90	7.02	430	64	23	29	33
R23035	83-01	McDonough	0.79	0.19	0.11	2.87	0.11	2.76	6.16	579	16	24	32	24
R23036	83-02	McDonough	0.82	0.14	0.08	2.33	0.10	2.23	5.60	742	97	24	34	30
R23037	83-04	McDonough	0.82	0.11	0.12	0.42	0.11	0.31	6.10	790	84	27	56	39
R23038	83-05	McDonough	0.82	0.13	0.05	0.30	0.15	0.15	6.42	723	138	29	50	36
R23039	83-10	McDonough	0.85	0.15	0.08	0.70	0.61	0.09	8.03	594	62	27	28	32
R23040	83-14	McDonough	0.90	0.04	0.01	0.43	0.07	0.36	7.72	508	84	21	23	26

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Lab no.	Sample ID	County	TiO_2 (%)	P_2O_5 (%)	MnO (%)	Tot. C (%)	Inc. C (%)	Org. C (%)	pH	Ba	Cr	Cu	Hg (µg/g)	Ni
R23762	132-1	McHenry	0.66	0.19	0.13	1.92	0.11	1.81	6.14	644	102	21	58	36
R23763	132-2	McHenry	0.59	0.10	0.10	0.77	0.12	0.65	7.07	651	112	30	39	42
R23764	132-3	McHenry	0.70	0.09	0.12	0.88	0.12	0.76	6.63	728	117	28	44	39
R23765	132-4	McHenry	0.49	0.11	0.08	0.63	0.08	0.55	7.15	568	227	30	34	47
R23766	132-5	McHenry	0.38	0.09	0.06	3.77	3.65	0.12	8.14	416	33	18	21	20
R23767	132-6	McHenry	0.45	0.10	0.07	4.81	4.75	0.06	8.20	398	33	17	18	16
R22674	72-01	McLean	0.76	0.15	0.10	2.73	0.08	2.65	5.29	779	83	18	35	10
R22675	72-02	McLean	0.76	0.09	0.08	1.25	0.09	1.16	6.18	751	171	49	22	18
R22676	72-03	McLean	0.76	0.11	0.06	0.61	0.06	0.55	6.66	991	93	23	56	19
R22677	72-04	McLean	0.75	0.15	0.09	0.58	0.09	0.49	6.92	992	222	24	48	21
R22678	72-06	McLean	0.74	0.15	0.11	0.44	0.10	0.34	7.53	889	48	21	36	16
R22679	72-09	McLean	0.50	0.10	0.08	1.19	1.04	0.15	7.98	497	57	17	18	8
R22680	73-01	McLean	0.77	0.18	0.15	2.05	0.10	1.95	6.26	753	28	15	28	8
R22681	73-02	McLean	0.76	0.10	0.10	1.32	0.08	1.24	6.58	884	116	21	39	16
R22682	73-03	McLean	0.74	0.07	0.10	0.85	0.06	0.79	6.68	705	77	24	48	21
R22683	73-04	McLean	0.79	0.08	0.12	0.62	0.08	0.54	6.90	1,015	146	23	41	23
R22684	73-05	McLean	0.79	0.14	0.10	0.46	0.09	0.37	7.54	1,250	200	24	34	31
R22685	73-06	McLean	0.73	0.14	0.10	1.07	0.80	0.27	7.93	1,211	51	19	27	15
R23065	88-01	McLean	0.62	0.17	0.11	2.59	0.07	2.52	7.05	401	118	33	65	33
R23066	88-02	McLean	0.66	0.10	0.11	1.86	0.04	1.82	6.84	511	79	27	31	31
R23067	88-03	McLean	0.64	0.08	0.10	0.86	0.03	0.83	6.92	518	84	33	45	40
R23068	88-05	McLean	0.64	0.07	0.10	0.53	0.04	0.49	6.82	462	103	33	39	44
R23069	88-07	McLean	0.44	0.11	0.18	1.00	0.30	0.70	7.09	352	138	39	49	52
R23070	88-08	McLean	0.26	0.07	0.11	4.75	4.55	0.20	7.74	139	50	26	34	22
R22270	53-01	Menard	0.76	0.14	0.05	4.07	0.06	4.01	5.25	277	55	30	48	23
R22271	53-02	Menard	0.88	0.15	0.05	2.68	0.06	2.62	5.60	937	120	29	28	19
R22272	53-03	Menard	0.92	0.15	0.06	0.91	0.06	0.85	6.22	1,000	29	21	48	11
R22273	53-04	Menard	0.95	0.19	0.10	0.54	0.06	0.48	7.09	1,019	66	32	36	41
R22274	53-05	Menard	0.93	0.19	0.05	1.34	1.01	0.33	7.68	861	86	27	25	19
R22275	53-11	Menard	0.41	0.07	0.08	2.49	2.37	0.12	8.04	328	106	20	13	<5
R22342	63-01	Menard	0.63	0.11	0.10	1.23	0.29	0.94	6.96	140	55	26	12	15
R22343	63-02	Menard	0.64	0.09	0.10	0.87	0.21	0.66	7.37	207	95	23	10	11
R22344	63-03	Menard	0.63	0.09	0.10	0.84	0.14	0.70	7.34	209	42	23	10	8
R22345	63-06	Menard	0.60	0.11	0.10	0.72	0.02	0.70	7.04	208	80	23	11	11
R22346	63-15	Menard	0.57	0.10	0.13	0.58	0.12	0.46	7.26	197	28	22	7	10
R23384	109-1	Mercer	0.72	0.11	0.09	1.75	0.18	1.57	7.20	497	174	28	35	33
R23385	109-3	Mercer	0.71	0.13	0.17	2.69	0.17	2.52	7.26	646	98	26	44	31
R23386	109-4	Mercer	0.71	0.14	0.16	2.77	0.16	2.61	7.40	694	63	26	44	31
R23387	109-5	Mercer	0.70	0.09	0.07	0.81	0.08	0.73	7.25	570	110	28	32	30
R23388	109-7	Mercer	0.60	0.09	0.08	1.10	0.26	0.84	7.57	457	106	26	35	31
R23389	109-9	Mercer	0.51	0.10	0.07	1.90	1.70	0.20	8.20	513	84	23	22	30
R22002	16-01	Monroe	0.77	0.13	0.11	1.15	0.04	1.11	6.45	539	60	29	36	8
R22003	16-02	Monroe	0.74	0.13	0.14	0.40	0.04	0.36	5.18	556	98	34	37	13
R22004	16-03	Monroe	0.69	0.15	0.50	0.32	0.04	0.28	5.78	1,015	113	33	55	43
R22005	16-04	Monroe	0.73	0.15	0.26	0.26	0.08	0.18	7.10	798	78	24	62	40
R22006	16-16	Monroe	0.71	0.09	0.12	0.12	0.11	0.01	6.89	640	50	23	36	17
R22007	16-26	Monroe	0.50	0.09	0.05	2.36	2.31	0.05	7.78	354	<5	22	9	<5
R22008	17-01	Monroe	0.59	0.33	0.10	1.85	0.07	1.78	6.36	791	58	32	45	6
R22009	17-02	Monroe	0.60	0.35	0.10	1.81	0.07	1.74	5.98	845	52	33	46	6
R22010	17-03	Monroe	0.59	0.27	0.09	1.36	0.08	1.28	5.78	827	58	30	35	11
R22011	17-04	Monroe	0.57	0.16	0.09	0.93	0.08	0.85	5.94	804	64	29	25	9
R22012	17-16	Monroe	0.46	0.15	0.05	0.27	0.07	0.20	6.62	843	169	22	20	7
R22204	42-01	Montgomery	0.53	0.10	0.11	1.36	0.03	1.33	6.06	502	60	26	28	8
R22205	42-02	Montgomery	0.56	0.11	0.13	1.61	0.03	1.58	6.32	527	6	23	28	10
R22206	42-04	Montgomery	0.56	0.07	0.12	0.66	0.03	0.63	6.53	496	ND	ND	26	ND
R22207	42-06	Montgomery	0.45	0.08	0.12	0.39	0.02	0.37	6.50	472	28	20	22	10
R22208	42-16	Montgomery	0.29	0.09	0.03	0.26	0.03	0.23	6.77	353	<5	20	15	13
R22209	42-23	Montgomery	0.83	0.11	0.03	0.30	0.03	0.27	5.78	663	89	31	27	12

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Lab no.	Sample ID	County	TiO_2 (%)	P_2O_5 (%)	MnO (%)	Tot. C (%)	Inc. C (%)	Org. C (%)	pH	Ba	Cr	Cu	Hg (µg/g)	Ni
R22240	48-01	Montgomery	0.78	0.13	0.07	1.70	0.04	1.66	6.51	615	41	26	19	9
R22241	48-03	Montgomery	0.81	0.08	0.05	1.15	0.04	1.11	5.85	609	73	30	20	11
R22242	48-04	Montgomery	0.78	0.07	0.04	0.93	0.04	0.89	6.08	625	72	38	33	20
R22243	48-06	Montgomery	0.79	0.09	0.10	0.52	0.04	0.48	6.39	695	59	33	49	21
R22244	48-09	Montgomery	0.82	0.17	0.05	0.41	0.03	0.38	6.55	627	42	31	33	13
R22245	48-16	Montgomery	0.51	0.11	0.03	0.20	0.03	0.17	7.41	420	14	28	17	11
R22294	57-01	Morgan	0.77	0.27	0.12	1.06	0.07	0.99	5.36	724	20	23	17	8
R22295	57-02	Morgan	0.76	0.14	0.11	0.69	0.05	0.64	4.78	465	56	26	14	12
R22296	57-03	Morgan	0.78	0.14	0.09	0.75	0.05	0.70	4.96	592	68	31	40	19
R22297	57-05	Morgan	0.77	0.16	0.10	0.48	0.05	0.43	5.49	596	54	30	36	22
R22298	57-11	Morgan	0.79	0.16	0.09	0.25	0.03	0.22	6.06	194	45	24	19	14
R22299	57-16	Morgan	0.77	0.12	0.11	0.33	0.05	0.28	7.16	194	98	24	20	11
R23504	122-1*	Ogle	0.58	0.28	0.11	7.46	0.93	6.53	6.94	761	61	37	471	30
R23505	122-2*	Ogle	0.69	0.18	0.14	2.70	0.10	2.60	7.04	890	71	29	248	29
R23506	122-3*	Ogle	0.72	0.14	0.15	1.53	0.06	1.47	7.13	863	121	21	56	30
R23507	122-5	Ogle	0.68	0.11	0.13	0.55	0.09	0.46	6.40	801	138	24	48	32
R23508	122-8	Ogle	0.69	0.17	0.10	0.34	0.11	0.23	7.20	868	88	23	32	41
R23509	122-9	Ogle	0.62	0.12	0.10	2.25	2.01	0.24	7.92	622	60	19	29	26
R23510	123-1	Ogle	0.69	0.29	0.11	2.10	0.33	1.77	7.08	748	71	23	41	23
R23511	123-2	Ogle	0.71	0.13	0.10	1.06	0.08	0.98	6.86	834	83	26	42	36
R23512	123-3	Ogle	0.71	0.09	0.10	0.72	0.10	0.62	6.82	803	67	30	45	29
R23513	123-4	Ogle	0.79	0.06	0.06	0.60	0.07	0.53	6.74	822	69	29	98	48
R23514	123-7	Ogle	0.75	0.05	0.02	0.72	0.06	0.66	6.40	653	71	32	85	31
R23515	123-8	Ogle	0.73	0.05	0.02	0.69	0.08	0.61	6.44	609	86	34	43	37
R23089	92-01	Peoria	0.62	0.34	0.12	3.02	0.11	2.91	5.73	421	96	37	67	31
R23090	92-02	Peoria	0.78	0.19	0.10	1.53	0.09	1.44	5.52	588	77	32	43	40
R23091	92-03	Peoria	0.62	0.11	0.10	1.01	0.09	0.92	5.62	464	91	33	48	42
R23092	92-04	Peoria	0.64	0.10	0.10	0.59	0.09	0.50	5.96	421	97	32	39	43
R23093	92-06	Peoria	0.67	0.09	0.09	0.38	0.07	0.31	6.60	432	77	26	25	41
R23094	92-09	Peoria	0.60	0.13	0.07	1.69	1.46	0.23	7.87	317	126	21	24	30
R23095	93-01	Peoria	0.65	0.08	0.19	1.43	0.10	1.33	5.40	438	166	22	47	30
R23096	93-02	Peoria	0.63	0.06	0.10	0.50	0.08	0.42	5.36	470	123	26	29	32
R23097	93-03	Peoria	0.61	0.09	0.10	0.40	0.10	0.30	5.50	400	137	32	42	37
R23098	93-04	Peoria	0.60	0.11	0.08	0.36	0.08	0.28	5.74	391	118	37	37	44
R23099	93-06	Peoria	0.59	0.10	0.08	0.31	0.09	0.22	5.90	395	171	32	33	50
R23100	93-09	Peoria	0.36	0.09	0.05	2.92	2.89	0.03	8.21	291	103	22	18	29
R21895	9-01	Perry	0.76	0.21	0.32	1.71	0.05	1.66	7.22	824	29	25	104	6
R21896	9-02	Perry	0.82	0.10	0.26	0.31	0.03	0.28	7.07	739	24	19	68	<5
R21897	9-03	Perry	0.82	0.10	0.14	0.29	0.03	0.26	7.11	683	36	22	56	<5
R21898	9-07	Perry	0.76	0.12	0.12	0.18	0.03	0.15	3.84	785	100	28	22	16
R21899	9-12	Perry	0.75	0.10	0.03	0.17	0.03	0.14	5.68	775	28	25	61	17
R21900	9-20	Perry	0.59	0.21	0.04	0.17	0.02	0.15	5.88	398	45	33	37	35
R21901	10-01	Perry	0.78	0.07	0.07	0.74	0.03	0.71	5.56	738	61	29	31	15
R21902	10-02	Perry	0.78	0.06	0.08	0.33	0.02	0.31	6.92	699	45	27	14	11
R21903	10-03	Perry	0.77	0.05	0.06	0.17	0.02	0.15	6.75	579	42	22	10	12
R21904	10-05	Perry	0.71	0.11	0.06	0.10	0.02	0.08	7.12	481	36	19	26	8
R21905	10-10	Perry	0.75	0.06	0.09	0.12	0.02	0.10	6.74	494	77	23	29	13
R21906	10-16	Perry	0.61	0.09	0.02	0.09	0.02	0.07	7.04	422	36	22	25	7
R22222	45-01	Pike	0.77	0.10	0.13	1.24	0.05	1.19	6.33	622	22	20	24	8
R22223	45-02	Pike	0.81	0.08	0.09	0.45	0.05	0.40	5.40	673	37	26	30	9
R22224	45-03	Pike	0.79	0.09	0.09	0.33	0.05	0.28	4.60	555	69	33	33	14
R22225	45-05	Pike	0.80	0.12	0.09	0.16	0.05	0.11	4.58	604	66	35	19	16
R22226	45-09	Pike	0.85	0.13	0.10	0.20	0.05	0.15	5.74	686	70	27	31	12
R22227	45-17	Pike	0.88	0.04	0.02	0.64	0.06	0.58	7.86	432	88	38	6	32
R22300	58-01	Pike	0.72	0.16	0.16	1.34	0.18	1.16	7.56	376	13	18	11	7
R22301	58-02	Pike	0.75	0.07	0.06	0.40	0.03	0.37	7.56	320	47	20	25	5
R22302	58-03	Pike	0.65	0.13	0.03	0.42	0.06	0.36	7.18	200	90	32	37	48
R22303	58-04	Pike	0.66	0.13	0.03	0.39	0.04	0.35	6.52	138	87	34	39	18

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Lab no.	Sample ID	County	TiO_2 (%)	P_2O_5 (%)	MnO (%)	Tot. C (%)	Inc. C (%)	Org. C (%)	pH	Ba	Cr	Cu	Hg (µg/g)	Ni
R22304	58-07	Pike	0.65	0.13	0.10	0.36	0.06	0.30	6.76	171	75	33	39	26
R22305	58-10	Pike	0.57	0.12	0.06	2.59	2.39	0.20	8.22	197	38	23	15	11
R22306	58-31	Pike	0.83	0.15	0.03	0.48	0.04	0.44	4.81	276	28	26	21	14
R22307	59-01	Pike	0.74	0.10	0.07	1.16	0.08	1.08	6.41	408	62	29	25	14
R22308	59-02	Pike	0.74	0.14	0.06	0.40	0.07	0.33	5.59	471	59	30	30	18
R22309	59-03	Pike	0.67	0.13	0.11	0.24	0.04	0.20	5.16	204	66	30	26	18
R22310	59-06	Pike	0.69	0.13	0.12	0.20	0.04	0.16	5.47	270	62	29	34	19
R22311	59-13	Pike	0.79	0.09	0.11	0.21	0.03	0.18	6.04	163	110	26	28	20
R22312	59-16	Pike	0.71	0.05	0.12	0.23	0.04	0.19	6.12	151	41	23	35	23
R21832	4-01	Pope	1.04	0.21	0.24	1.77	0.03	1.74	5.81	563	68	39	76	49
R21833	4-02	Pope	1.06	0.17	0.25	1.31	0.04	1.27	5.73	567	68	36	49	46
R21834	4-03	Pope	1.08	0.17	0.23	0.78	0.04	0.74	4.48	514	71	34	33	42
R21835	4-04	Pope	1.05	0.18	0.23	0.87	0.03	0.84	4.32	534	70	36	31	42
R21836	4-08	Pope	1.02	0.17	0.14	0.50	0.03	0.47	4.32	573	73	36	44	46
R21837	4-12	Pope	1.02	0.19	0.13	0.36	0.03	0.33	4.42	569	74	35	45	43
R21773	5-01	Pope	0.88	0.13	0.26	1.84	0.02	1.82	5.83	534	47	24	52	25
R21774	5-02	Pope	0.89	0.10	0.24	0.85	0.02	0.83	5.35	515	50	22	39	27
R21775	5-03	Pope	0.89	0.09	0.16	0.49	0.01	0.48	4.90	493	55	27	44	27
R21776	5-04	Pope	0.89	0.11	0.09	0.33	0.02	0.31	4.50	401	60	28	51	26
R21777	5-07	Pope	0.86	0.08	0.04	0.15	0.01	0.14	4.08	431	53	27	31	24
R21778	5-14	Pope	0.76	0.05	0.07	0.20	0.02	0.18	5.90	333	67	23	41	28
R21826	1-01	Pulaski	0.77	0.22	0.18	1.73	0.06	1.67	6.56	701	59	40	42	35
R21827	1-02	Pulaski	0.76	0.16	0.18	0.91	0.02	0.89	6.21	732	62	31	39	33
R21828	1-03	Pulaski	0.76	0.15	0.10	0.74	0.02	0.72	5.90	675	66	31	38	30
R21829	1-04	Pulaski	0.76	0.16	0.14	0.75	0.03	0.72	5.62	644	66	34	37	35
R21830	1-08	Pulaski	0.75	0.15	0.08	0.47	0.03	0.44	5.94	703	73	37	34	37
R21831	1-11	Pulaski	0.72	0.12	0.09	0.37	0.03	0.34	6.20	665	66	34	40	36
R23201	105-1	Putnam	0.69	0.24	0.14	1.97	0.14	1.83	5.13	574	191	26	54	28
R23202	105-2	Putnam	0.66	0.11	0.11	1.25	0.16	1.09	5.62	574	89	28	47	36
R23203	105-3	Putnam	0.65	0.09	0.10	0.79	0.15	0.64	5.76	604	97	32	61	43
R23204	105-5	Putnam	0.66	0.11	0.12	0.63	0.12	0.51	6.81	613	120	28	36	40
R23205	105-7	Putnam	0.50	0.08	0.06	3.10	2.84	0.26	8.29	446	140	27	28	40
R23206	105-12	Putnam	0.48	0.07	0.06	3.75	3.45	0.30	8.39	318	58	26	18	38
R22144	33-01	Richland	0.86	0.15	0.08	3.77	0.23	3.54	5.84	733	26	27	30	14
R22145	33-02	Richland	0.77	0.09	0.05	2.56	0.07	2.49	4.73	586	32	31	124	15
R22146	33-03	Richland	0.82	0.08	0.02	0.62	0.07	0.55	4.27	679	20	27	19	6
R22147	33-04	Richland	0.91	0.05	0.02	0.33	0.09	0.24	4.28	594	29	28	19	5
R22148	33-06	Richland	0.82	0.07	0.07	0.31	0.07	0.24	4.48	1,040	83	29	31	23
R22149	33-10	Richland	0.79	0.04	0.09	0.16	0.06	0.10	6.54	752	70	25	28	26
R21779	6-01	Saline	0.82	0.09	0.10	1.12	0.08	1.04	6.85	431	53	25	22	21
R21780	6-02	Saline	0.81	0.05	0.04	0.50	0.02	0.48	4.46	389	72	31	11	26
R21781	6-03	Saline	0.79	0.05	0.03	0.54	0.02	0.52	4.03	550	75	32	5	31
R21782	6-04	Saline	0.79	0.07	0.04	0.34	0.02	0.32	4.74	622	71	33	4	33
R21783	6-06	Saline	0.76	0.13	0.11	0.33	0.02	0.31	6.34	590	73	35	35	64
R21784	6-20	Saline	0.69	0.12	0.07	2.89	2.71	0.18	8.06	406	64	35	17	38
R22282	55-01	Sangamon	0.80	0.15	0.09	1.48	0.05	1.43	5.56	659	26	25	23	14
R22283	55-03	Sangamon	0.72	0.11	0.07	0.98	0.04	0.94	6.15	557	61	22	16	15
R22284	55-06	Sangamon	0.66	0.14	0.07	1.07	0.03	1.04	6.35	503	20	23	16	11
R22285	55-08	Sangamon	0.62	0.12	0.07	0.85	0.04	0.81	6.43	524	111	22	12	14
R22286	55-11	Sangamon	0.60	0.12	0.07	0.61	0.03	0.58	6.56	477	106	19	11	12
R22287	55-28	Sangamon	0.76	0.14	0.08	2.34	1.57	0.77	7.66	548	ND	ND	14	ND
R22288	56-01	Sangamon	0.71	0.16	0.09	3.20	0.06	3.14	5.55	590	106	30	24	16
R22289	56-02	Sangamon	0.72	0.12	0.07	3.01	0.04	2.97	6.06	573	54	25	17	14
R22290	56-03	Sangamon	0.76	0.12	0.19	2.03	0.05	1.98	6.28	684	63	21	21	16
R22291	56-05	Sangamon	0.75	0.17	0.78	0.64	0.04	0.60	6.82	1,315	100	24	47	28
R22292	56-07	Sangamon	0.78	0.22	0.36	0.35	0.04	0.31	7.47	1,079	56	22	35	15
R22293	56-11	Sangamon	0.75	0.23	0.05	0.50	0.28	0.22	7.69	662	63	24	31	11
R22252	50-01	Shelby	0.81	0.09	0.15	1.56	0.05	1.51	5.24	596	44	22	24	11

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Lab no.	Sample ID	County	TiO_2 (%)	P_2O_5 (%)	MnO (%)	Tot. C (%)	Inc. C (%)	Org. C (%)	pH	Ba	Cr	Cu	Hg (µg/g)	Ni
R22253	50-02	Shelby	0.83	0.07	0.09	1.02	0.05	0.97	5.29	640	51	30	31	17
R22254	50-03	Shelby	0.81	0.07	0.09	0.78	0.04	0.74	5.55	587	57	32	37	20
R22255	50-05	Shelby	0.59	0.07	0.09	0.42	0.10	0.32	7.01	349	44	27	28	15
R22256	50-07	Shelby	0.40	0.07	0.07	2.94	2.84	0.10	7.97	244	<5	22	13	<5
R22257	50-16	Shelby	0.38	0.08	0.06	3.35	2.96	0.39	7.62	197	<5	23	15	<5
R22098	27-1	St. Clair	0.73	0.12	0.17	1.15	0.05	1.10	6.11	745	9	19	27	6
R22099	27-2	St. Clair	0.73	0.10	0.14	0.65	0.03	0.62	6.42	758	18	21	21	6
R22100	27-3	St. Clair	0.75	0.10	0.18	0.57	0.03	0.54	6.41	828	43	24	28	9
R22101	27-4	St. Clair	0.70	0.14	0.08	0.46	0.03	0.43	5.60	658	70	32	37	18
R22102	27-9	St. Clair	0.69	0.18	0.11	0.98	0.79	0.19	7.64	741	39	27	31	15
R22103	27-13	St. Clair	0.71	0.16	0.03	0.69	0.57	0.12	7.61	620	26	24	25	8
R23498	121-1	Stephenson	0.68	0.25	0.13	2.65	0.52	2.13	6.99	728	68	23	29	20
R23499	121-2	Stephenson	0.70	0.09	0.11	1.43	0.08	1.35	6.89	774	59	14	28	22
R23500	121-3	Stephenson	0.71	0.11	0.14	1.78	0.09	1.69	6.74	820	100	17	28	27
R23501	121-5	Stephenson	0.70	0.15	0.14	2.49	0.08	2.41	6.52	911	76	18	34	27
R23502	121-8	Stephenson	0.72	0.10	0.13	0.93	0.08	0.85	6.13	844	97	23	41	33
R23503	121-10	Stephenson	0.71	0.12	0.13	0.40	0.08	0.32	6.70	860	77	24	38	39
R23053	86-01	Tazewell	0.64	0.14	0.21	1.55	0.17	1.38	7.30	564	90	21	31	30
R23054	86-02	Tazewell	0.66	0.09	0.24	0.66	0.07	0.59	5.64	578	223	23	18	32
R23055	86-03	Tazewell	0.61	0.08	0.10	0.62	0.06	0.56	5.09	472	180	34	32	38
R23056	86-05	Tazewell	0.61	0.09	0.11	0.43	0.06	0.37	6.00	474	96	32	38	53
R23057	86-07	Tazewell	0.63	0.14	0.13	0.23	0.08	0.15	6.26	609	70	37	43	50
R23058	86-12	Tazewell	0.54	0.11	0.10	2.15	1.93	0.22	8.05	434	53	22	16	32
R21759	2-01	Union	0.80	0.09	0.10	1.17	0.06	1.11	6.78	603	62	27	28	27
R21760	2-02	Union	0.80	0.15	0.08	0.46	0.02	0.44	6.60	573	86	30	31	46
R21761	2-03	Union	0.80	0.15	0.11	0.32	0.02	0.30	5.03	592	60	32	41	31
R21762	2-04	Union	0.80	0.14	0.09	0.20	0.02	0.17	4.84	567	60	31	42	29
R21763	2-06	Union	0.80	0.12	0.10	0.14	0.02	0.12	5.00	628	62	33	42	30
R21764	2-13	Union	0.78	0.13	0.10	0.19	0.02	0.17	6.38	634	57	27	20	31
R21765	2-26	Union	0.82	0.04	0.02	0.14	0.01	0.13	6.27	349	55	25	28	32
R22377	68-01	Vermilion	0.70	0.16	0.21	1.75	0.06	1.69	6.22	266	31	20	16	10
R22378	68-02	Vermilion	0.74	0.08	0.06	0.86	0.04	0.82	6.20	333	79	35	31	17
R22379	68-03	Vermilion	0.71	0.07	0.17	0.65	0.03	0.62	5.80	273	109	35	45	26
R22380	68-04	Vermilion	0.71	0.06	0.12	0.47	0.03	0.44	6.60	173	189	35	41	36
R22381	68-06	Vermilion	0.43	0.06	0.11	0.27	0.04	0.23	7.58	226	11	24	15	11
R22382	68-09	Vermilion	0.45	0.06	0.08	2.81	2.58	0.23	8.30	138	<5	22	<5	<5
R22506	69-01	Vermilion	0.71	0.19	0.50	2.90	0.05	2.85	4.88	226	81	47	33	10
R22507	69-03	Vermilion	0.60	0.10	<0.05	2.61	0.03	2.58	5.64	209	108	45	41	14
R22508	69-04	Vermilion	0.56	0.08	0.02	1.64	0.03	1.61	6.33	220	128	47	39	24
R22509	69-05	Vermilion	0.47	0.08	0.09	0.73	0.02	0.71	6.36	174	114	34	32	20
R22510	69-08	Vermilion	0.55	0.07	0.14	2.84	2.32	0.52	8.03	149	15	24	12	5
R22511	69-11	Vermilion	0.52	0.06	0.10	3.05	2.58	0.47	8.04	118	17	27	11	1
R22043	23-01	Wabash	0.78	0.13	0.13	1.99	0.34	1.65	6.88	521	13	22	30	<5
R22044	23-02	Wabash	0.81	0.09	0.06	1.12	0.05	1.07	6.80	511	10	20	30	10
R22045	23-03	Wabash	0.84	0.08	0.16	0.50	0.04	0.46	6.67	633	26	24	36	10
R22046	23-04	Wabash	0.83	0.09	0.08	0.33	0.03	0.30	6.02	633	68	31	33	11
R22047	23-08	Wabash	0.80	0.12	0.14	0.22	0.04	0.18	6.20	618	47	30	41	15
R22048	23-14	Wabash	0.74	0.05	0.07	0.17	0.03	0.14	6.84	402	51	22	32	12
R23077	90-01	Warren	0.56	0.14	0.12	2.50	0.36	2.14	7.46	534	106	23	35	24
R23078	90-02	Warren	0.60	0.10	0.17	1.61	0.04	1.57	6.80	589	104	23	35	29
R23079	90-03	Warren	0.60	0.08	0.10	0.77	0.05	0.72	6.60	515	84	27	46	30
R23080	90-05	Warren	0.55	0.12	0.15	0.41	0.04	0.37	5.97	528	74	30	45	42
R23081	90-07	Warren	0.57	0.15	0.14	0.39	0.04	0.35	6.27	547	90	28	38	44
R23082	90-11	Warren	0.50	0.13	0.09	1.69	1.58	0.11	8.15	397	56	26	20	32
R21990	14-01	Washington	0.79	0.14	0.35	1.97	0.05	1.92	5.86	640	21	23	20	6
R21991	14-02	Washington	0.82	0.12	0.39	1.23	0.03	1.20	6.37	685	35	20	29	<5
R21992	14-03	Washington	0.85	0.11	0.34	0.39	0.06	0.33	6.40	672	34	19	31	<5
R21993	14-04	Washington	0.81	0.10	0.09	0.25	0.04	0.21	4.28	649	68	25	41	8

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Lab no.	Sample ID	County	TiO_2 (%)	P_2O_5 (%)	MnO (%)	Tot. C (%)	Inc. C (%)	Org. C (%)	pH	Ba	Cr	Cu	Hg (µg/g)	Ni
R21994	14-06	Washington	0.76	0.10	0.06	0.22	0.05	0.17	3.86	648	88	34	13	9
R21995	14-15	Washington	0.78	0.07	0.06	0.16	0.03	0.13	5.01	488	38	25	14	27
R21996	15-01	Washington	0.77	0.09	0.16	0.98	0.04	0.94	5.54	597	15	22	27	7
R21997	15-02	Washington	0.80	0.08	0.18	0.54	0.05	0.49	4.74	531	33	18	18	7
R21998	15-03	Washington	0.79	0.09	0.06	0.69	0.06	0.63		421	99	40	50	17
R21999	15-04	Washington	0.78	0.10	0.07	0.81	0.05	0.76	4.50	418	122	43	77	32
R22000	15-13	Washington	0.77	0.09	0.03	0.23	0.05	0.18	6.50	502	45	27	30	17
R22001	15-20	Washington	0.75	0.09	0.13	0.10	0.05	0.05	7.21	404	57	24	30	30
R22031	21-01	Wayne	0.83	0.15	0.04	1.99	0.03	1.96	5.14	471	29	27	37	8
R22032	21-02	Wayne	0.86	0.07	0.03	0.93	0.04	0.89	4.64	500	22	23	28	6
R22033	21-03	Wayne	0.90	0.08	0.04	0.48	0.03	0.45	4.45	467	29	23	23	<5
R22034	21-04	Wayne	0.85	0.08	0.02	0.54	0.04	0.50	4.21	418	100	32	48	27
R22035	21-07	Wayne	0.85	0.08	0.02	0.24	0.03	0.21	4.57	582	52	30	23	15
R22036	21-10	Wayne	0.90	0.09	0.04	0.26	0.04	0.22	5.12	558	58	29	29	26
R22055	25-01	Wayne	0.91	0.13	0.15	0.52	0.05	0.47	4.19	519	45	19	39	ND
R22056	25-02	Wayne	0.91	0.11	0.10	0.26	0.03	0.23	4.05	501	ND	ND	34	ND
R22057	25-03	Wayne	0.90	0.10	0.10	0.20	0.04	0.16	3.98	555	59	25	21	<5
R22058	25-04	Wayne	0.89	0.10	0.07	0.20	0.04	0.16	4.00	515	50	27	12	8
R22059	25-22	Wayne	0.84	0.13	0.19	0.32	0.10	0.22	7.42	733	71	27	35	15
R22060	25-29	Wayne	0.89	0.07	0.12	0.20	0.04	0.16	7.34	763	85	27	22	12
R21985	13-01	White	0.40	0.13	0.09	1.46	0.06	1.40	5.97	436	<5	24	92	<5
R21986	13-02	White	0.50	0.09	0.08	0.28	0.04	0.24	6.44	477	<5	20	23	<5
R21987	13-03	White	0.49	0.11	0.07	0.23	0.03	0.20	6.46	484	17	25	<2	<5
R21988	13-04	White	0.42	0.09	0.08	0.23	0.04	0.19	6.58	468	30	24	2	7
R21989	13-18	White	0.19	0.05	0.06	0.13	0.03	0.10	6.72	286	<5	21	<2	19
R23449	117-1	Whiteside	0.55	0.18	0.08	2.36	0.15	2.21	7.06	544	94	24	47	26
R23450	117-2	Whiteside	0.51	0.14	0.08	1.58	0.26	1.32	7.42	584	122	19	34	22
R23451	117-3	Whiteside	0.50	0.17	0.07	2.42	0.15	2.27	7.31	515	80	14	32	20
R23452	117-5	Whiteside	0.47	0.15	0.05	1.32	0.08	1.24	7.30	509	81	16	13	33
R23453	117-6	Whiteside	0.45	0.12	0.07	0.90	0.08	0.82	7.28	485	139	18	13	22
R23454	117-8	Whiteside	0.44	0.11	0.06	0.57	0.07	0.50	7.34	449	97	16	11	22
R23534	127-1	Will	0.74	0.11	0.09	2.97	0.11	2.86	6.88	645	71	28	36	31
R23535	127-3	Will	0.74	0.09	0.11	0.93	0.23	0.70	7.52	672	77	31	36	60
R23536	127-4	Will	0.62	0.10	0.07	2.59	2.06	0.53	8.06	599	72	27	24	42
R23537	127-5	Will	0.57	0.09	0.07	3.13	2.81	0.32	8.16	523	63	27	22	39
R23538	127-6	Will	0.59	0.10	0.08	2.99	2.78	0.21	8.18	500	63	27	21	44
R23539	127-7	Will	0.60	0.10	0.08	2.96	2.59	0.39	8.16	589	60	27	20	42
R23802	137-1	Will	0.71	0.18	0.13	2.20	0.17	2.05	7.32	692	73	23	29	29
R23803	137-2	Will	0.73	0.08	0.06	0.93	0.13	0.80	7.00	682	71	31	39	27
R23804	137-3	Will	0.70	0.08	0.08	0.68	0.14	0.54	6.87	671	90	37	46	32
R23805	137-4	Will	0.72	0.07	0.14	0.88	0.11	0.77	6.69	573	82	58	61	61
R23806	137-5	Will	0.70	0.08	0.09	0.91	0.11	0.80	7.04	654	84	61	61	70
R23807	137-6	Will	0.60	0.10	0.09	2.37	1.98	0.39	8.03	576	66	38	32	48
R21785	7-01	Williamson	0.83	0.12	0.20	1.97	0.11	1.86	6.48	552	55	24	60	27
R21786	7-02	Williamson	0.86	0.08	0.08	0.39	0.01	0.38	5.38	514	58	28	52	26
R21787	7-03	Williamson	0.86	0.08	0.05	0.29	0.01	0.28	4.14	492	63	29	59	26
R21788	7-06	Williamson	0.84	0.08	0.05	0.26	0.01	0.25	3.74	508	62	33	34	28
R21789	7-21	Williamson	0.84	0.05	0.03	0.09	0.01	0.08	5.83	389	49	25	23	23
R23516	124-1	Winnebago	0.38	0.11	0.06	1.17	0.17	1.00	7.10	396	183	21	26	24
R23517	124-2	Winnebago	0.36	0.07	0.06	0.64	0.17	0.47	7.60	529	340	20	20	27
R23518	124-3	Winnebago	0.28	0.07	0.04	2.90	2.64	0.26	8.14	388	59	17	15	18
R23519	124-4	Winnebago	0.25	0.07	0.04	3.85	3.61	0.24	8.38	353	40	13	19	12
R23520	124-5	Winnebago	0.24	0.06	0.04	4.01	3.85	0.16	8.50	361	47	14	20	12
R23521	124-7	Winnebago	0.24	0.06	0.03	3.97	3.91	0.06	8.54	310	58	11	11	11
R23059	87-01	Woodford	0.66	0.15	0.35	1.27	0.04	1.23	5.86	682	66	20	28	21
R23060	87-02	Woodford	0.66	0.12	0.27	1.00	0.05	0.95	6.12	606	43	16	28	20
R23061	87-03	Woodford	0.66	0.12	0.27	0.96	0.05	0.91	5.25	586	51	17	30	20
R23062	87-04	Woodford	0.69	0.10	0.12	0.51	0.05	0.46	5.42	550	151	32	46	48

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Lab no.	Sample ID	County	TiO_2 (%)	P_2O_5 (%)	MnO (%)	Tot. C (%)	Inc. C (%)	Org. C (%)	pH	Ba	Cr	Cu	Hg (µg/g)	Ni
R23063	87-05	Woodford	0.70	0.14	0.11	0.37	0.03	0.34	6.82	538	74	32	39	49
R23064	87-06	Woodford	0.59	0.13	0.19	2.20	1.97	0.23	7.94	374	87	27	25	31
R23117	94-01	Woodford	0.57	0.17	0.11	3.13	0.25	2.88	7.39	362	115	32	28	28
R23118	94-02	Woodford	0.60	0.10	0.12	2.51	0.07	2.44	6.99	408	68	31	31	30
R23119	94-04	Woodford	0.57	0.06	0.10	1.02	0.06	0.96	7.27	451	84	27	42	49
R23120	94-06	Woodford	0.57	0.12	0.11	0.67	0.19	0.48	7.68	443	173	36	36	41
R23121	94-08	Woodford	0.45	0.11	0.08	3.05	3.00	0.05	8.07	134	124	28	18	30
R23122	94-12	Woodford	0.21	0.06	0.08	4.77	4.76	0.01	8.46	<10	26	23	11	51

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Lab. no.	Sample ID	County	Pb	Rb	Sr	V	Zn	Zr
R22313	60-01	Adams	27	61	144	63	69	380
R22314	60-02	Adams	18	67	173	64	54	443
R22315	60-03	Adams	16	61	160	69	36	440
R22316	60-06	Adams	22	86	138	107	96	286
R22317	60-21	Adams	24	72	64	84	54	319
R22318	60-40	Adams	16	63	118	72	57	205
R22110	29-01	Bond	28	53	123	71	65	368
R22111	29-02	Bond	20	57	119	78	55	383
R22112	29-03	Bond	17	56	120	79	43	386
R22113	29-04	Bond	22	70	109	108	65	310
R22114	29-09	Bond	13	52	117	62	37	308
R22115	29-14	Bond	15	40	65	56	32	148
R23522	125-1	Boone	23	84	165	73	71	418
R23523	125-2	Boone	20	78	157	82	72	380
R23524	125-3	Boone	20	80	163	96	59	460
R23525	125-4	Boone	19	79	162	111	77	409
R23526	125-6	Boone	12	52	125	53	30	260
R23527	125-10	Boone	13	70	112	50	50	138
R22329	61-01	Brown	18	56	132	68	54	375
R22330	61-02	Brown	21	92	107	108	97	309
R22331	61-03	Brown	24	89	128	102	101	332
R22332	61-04	Brown	17	65	119	94	76	326
R22333	61-10	Brown	14	58	202	78	52	432
R22334	61-18	Brown	19	68	108	83	52	346
R23338	106-1	Bureau	31	90	137	100	89	411
R23339	106-2	Bureau	22	86	129	114	82	377
R23340	106-3	Bureau	21	80	130	108	80	381
R23341	106-4	Bureau	18	66	151	88	77	397
R23342	106-6	Bureau	19	72	172	89	72	521
R23343	106-8	Bureau	17	60	138	68	59	381
R23402	112-1	Bureau	22	86	158	78	71	512
R23403	112-3	Bureau	20	83	158	103	61	446
R23404	112-4	Bureau	18	73	179	106	64	453
R23405	112-6	Bureau	18	67	219	99	60	485
R23406	112-8	Bureau	17	63	219	81	50	543
R23407	112-10	Bureau	16	66	210	83	54	486
R23408	113-1	Bureau	24	86	146	99	87	429
R23409	113-2	Bureau	20	78	148	117	78	378
R23410	113-3	Bureau	18	72	176	108	72	417
R23411	113-4	Bureau	21	70	176	94	68	445
R23412	113-5	Bureau	16	61	165	73	59	356
R23413	113-6	Bureau	14	57	153	59	58	290
R23455	118-1	Carroll	21	82	169	70	68	545
R23456	118-2	Carroll	18	91	153	96	66	439
R23457	118-3	Carroll	18	84	160	100	68	452
R23458	118-5	Carroll	18	74	188	104	67	479
R23459	118-8	Carroll	19	79	194	102	72	436
R23460	118-11	Carroll	17	76	188	87	68	497
R22335	62-01	Cass	9	36	96	<35	36	192
R22336	62-02	Cass	9	36	109	<35	28	174
R22337	62-03	Cass	9	36	99	<35	31	166
R22338	62-05	Cass	9	37	108	<35	27	184
R22339	62-07	Cass	9	39	97	<35	29	140
R22340	62-17	Cass	8	38	97	<35	34	86
R22341	62-18	Cass	8	34	100	<35	27	67
R22359	65-01	Champaign	20	64	111	78	56	373
R22360	65-02	Champaign	19	71	110	90	63	339
R22361	65-03	Champaign	22	75	108	107	82	301
R22362	65-04	Champaign	21	71	130	99	82	335

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Lab. no.	Sample ID	County	Pb	Rb	Sr	V	Zn	Zr
R22363	65-05	Champaign	19	66	135	87	74	354
R22364	65-11	Champaign	18	91	104	59	71	163
R22512	70-01	Champaign	21	99	105	77	81	272
R22513	70-02	Champaign	21	107	113	82	96	215
R22514	70-03	Champaign	21	101	118	83	97	235
R22515	70-04	Champaign	19	81	96	80	83	213
R22516	70-05	Champaign	19	84	114	77	81	218
R22517	70-08	Champaign	19	55	104	46	84	167
R22518	71-01	Champaign	38	67	120	73	90	320
R22519	71-02	Champaign	22	77	114	91	78	343
R22520	71-03	Champaign	19	66	137	94	78	358
R22521	71-04	Champaign	16	47	136	61	59	329
R22522	71-05	Champaign	15	40	148	53	57	286
R22523	71-10	Champaign	18	124	88	79	83	137
R22698	76-01	Champaign	16	56	114	64	50	323
R22699	76-03	Champaign	17	63	99	93	69	248
R22700	76-04	Champaign	15	52	118	86	58	272
R22701	76-05	Champaign	13	45	140	80	49	298
R22702	76-06	Champaign	13	42	121	78	48	280
R22703	76-08	Champaign	12	54	90	51	40	144
R22246	49-01	Christian	ND	ND	131	ND	ND	346
R22247	49-02	Christian	ND	ND	131	ND	ND	317
R22248	49-03	Christian	ND	ND	131	ND	ND	310
R22250	49-05	Christian	18	54	133	84	66	322
R22251	49-07	Christian	16	63	182	76	60	401
R22252	49-21	Christian	19	71	123	75	64	237
R22276	54-01	Christian	41	65	112	77	108	299
R22277	54-03	Christian	21	64	90	98	73	284
R22278	54-04	Christian	22	68	106	94	84	299
R22279	54-05	Christian	21	66	118	89	78	304
R22280	54-07	Christian	15	54	117	52	57	297
R22281	54-14	Christian	18	52	157	80	41	343
R22162	36-01	Clark	20	60	98	71	52	388
R22163	36-02	Clark	18	69	97	87	54	343
R22164	36-03	Clark	22	87	98	100	76	321
R22165	36-04	Clark	23	83	98	99	73	313
R22166	36-06	Clark	13	60	113	66	43	310
R22167	36-08	Clark	19	75	74	87	53	194
R22138	32-01	Clay	18	55	112	66	46	382
R22139	32-02	Clay	16	63	104	78	38	348
R22140	32-03	Clay	17	72	105	81	44	354
R22141	32-04	Clay	16	66	114	101	59	295
R22142	32-06	Clay	15	77	115	87	59	257
R22143	32-11	Clay	14	58	116	62	57	158
R22013	18-01	Clinton	18	56	135	56	47	425
R22014	18-02	Clinton	18	58	135	56	44	435
R22015	18-03	Clinton	13	59	137	59	36	420
R22016	18-04	Clinton	14	57	138	64	33	422
R22017	18-10	Clinton	21	79	153	113	87	315
R22018	18-16	Clinton	17	68	137	72	51	304
R22019	19-01	Clinton	23	48	151	67	50	354
R22020	19-02	Clinton	24	55	115	73	46	451
R22021	19-03	Clinton	24	56	104	89	44	389
R22022	19-04	Clinton	24	90	94	123	83	309
R22023	19-05	Clinton	22	99	104	133	96	274
R22024	19-13	Clinton	17	74	136	87	58	312
R22173	37-01	Coles	18	66	103	64	54	292
R22174	37-02	Coles	16	80	86	77	81	231
R22175	37-03	Coles	22	99	90	105	107	156

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Lab. no.	Sample ID	County	Pb	Rb	Sr	V	Zn	Zr
R22176	37-04	Coles	19	75	95	106	89	163
R22177	37-08	Coles	15	70	109	64	57	120
R22178	37-11	Coles	16	87	102	69	75	137
R22258	51-01	Coles	20	64	123	69	50	399
R22259	51-02	Coles	20	65	118	78	50	377
R22260	51-03	Coles	22	78	110	106	78	289
R22261	51-04	Coles	21	71	120	103	76	299
R22262	51-06	Coles	18	77	122	71	63	234
R22263	51-21	Coles	13	68	<50	51	51	149
R23540	128-1	Cook	146	80	145	74	209	188
R23541	128-2	Cook	43	93	117	86	96	261
R23542	128-3	Cook	11	54	172	<35	21	63
R23543	128-4	Cook	9	52	182	<35	20	64
R23544	128-7	Cook	12	60	165	<35	20	69
R23545	128-9	Cook	10	54	159	<35	20	62
R23750	130-1	Cook	39	113	148	97	114	244
R23751	130-3	Cook	22	87	168	99	122	270
R23752	130-5	Cook	22	94	168	94	122	278
R23753	130-8	Cook	22	102	188	109	102	283
R23754	130-12	Cook	19	94	173	91	90	182
R23755	130-13	Cook	21	98	156	93	91	182
R22156	35-01	Crawford	16	54	121	61	46	364
R22157	35-02	Crawford	19	66	115	79	52	354
R22158	35-03	Crawford	22	83	97	101	77	298
R22159	35-04	Crawford	22	77	104	105	80	294
R22160	35-06	Crawford	16	63	128	73	64	298
R22161	35-09	Crawford	15	59	106	70	52	264
R23528	126-1	DeKalb	24	100	144	90	100	352
R23529	126-2	DeKalb	21	92	154	103	108	354
R23530	126-3	DeKalb	22	84	150	117	98	348
R23531	126-5	DeKalb	21	80	162	128	97	363
R23532	126-7	DeKalb	20	80	190	110	87	400
R23533	126-11	DeKalb	10	71	131	51	39	175
R23774	134-1	DeKalb	23	87	130	84	101	428
R23775	134-2	DeKalb	20	81	141	103	71	413
R23776	134-3	DeKalb	20	78	141	112	73	404
R23777	134-4	DeKalb	20	77	142	107	71	417
R23778	134-5	DeKalb	17	80	134	88	66	307
R23779	134-6	DeKalb	12	70	112	51	44	146
R22264	52-1	Douglas	22	93	111	80	79	311
R22265	52-2	Douglas	ND	ND	121	ND	ND	303
R22266	52-3	Douglas	22	91	133	92	81	296
R22267	52-5	Douglas	19	78	134	90	74	310
R22268	52-7	Douglas	16	92	113	85	65	196
R22269	52-14	Douglas	16	83	123	58	58	152
R22365	66-01	Douglas	19	65	105	83	73	325
R22366	66-02	Douglas	21	84	94	100	79	250
R22367	66-03	Douglas	19	79	116	97	77	274
R22368	66-04	Douglas	19	73	128	88	74	288
R22369	66-05	Douglas	19	77	127	80	70	275
R22370	66-06	Douglas	16	77	113	62	61	186
R23744	129-1	DuPage	28	101	122	90	99	208
R23745	129-4	DuPage	23	97	129	83	87	181
R23746	129-5	DuPage	38	87	125	102	107	198
R23747	129-6	DuPage	21	88	170	107	93	305
R23748	129-7	DuPage	21	73	171	91	81	314
R23749	129-11	DuPage	20	98	113	74	94	148
R22204	67-01	Edgar	20	72	119	70	67	239
R22205	67-02	Edgar	30	70	117	77	73	360

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Lab. no.	Sample ID	County	Pb	Rb	Sr	V	Zn	Zr
R22206	67-03	Edgar	19	72	106	85	59	328
R22207	67-05	Edgar	22	82	96	114	91	268
R22208	67-07	Edgar	21	71	120	83	68	305
R22209	67-09	Edgar	15	69	131	50	58	151
R22037	22-01	Edwards	20	53	92	60	57	361
R22038	22-02	Edwards	18	51	78	58	46	350
R22039	22-03	Edwards	16	55	83	50	38	370
R22040	22-04	Edwards	15	46	69	49	35	324
R22041	22-08	Edwards	15	58	117	60	40	352
R22042	22-14	Edwards	16	59	78	58	53	155
R22049	24-01	Edwards	ND	ND	96	ND	ND	489
R22050	24-02	Edwards	19	73	97	80	55	426
R22051	24-03	Edwards	23	96	95	106	78	343
R22052	24-04	Edwards	25	97	97	109	83	338
R22053	24-10	Edwards	19	74	95	86	62	343
R22054	24-16	Edwards	16	68	76	78	48	362
R22185	39-1/2	Effingham	20	50	103	69	42	422
R22186	39-03	Effingham	22	89	93	101	76	306
R22187	39-04	Effingham	24	91	104	100	80	312
R22188	39-05	Effingham	23	82	126	89	69	340
R22189	39-07	Effingham	18	67	115	75	52	334
R22190	39-13	Effingham	15	41	103	75	45	207
R22116	30-01	Fayette	20	48	98	64	45	430
R22117	30-02	Fayette	18	61	102	79	45	400
R22118	30-03	Fayette	21	74	102	100	58	353
R22119	30-04	Fayette	20	72	109	100	65	309
R22120	30-08	Fayette	15	49	115	68	39	219
R22121	31-01	Fayette	18	60	108	72	57	334
R22122	31-02	Fayette	21	75	101	94	74	293
R22123	31-03	Fayette	20	64	106	81	67	248
R22124	31-04	Fayette	22	66	115	79	74	220
R22125	31-08	Fayette	17	58	124	62	56	237
R22126	31-20	Fayette	15	59	121	70	52	269
R22191	40-01	Fayette	30	47	119	69	150	376
R22192	40-02	Fayette	19	56	102	76	51	355
R22193	40-03	Fayette	19	73	123	89	63	341
R22194	40-04	Fayette	22	87	105	98	78	314
R22195	40-07	Fayette	25	87	141	100	90	319
R22196	40-14	Fayette	16	82	93	69	57	202
R22197	41-01	Fayette	23	51	141	75	46	542
R22198	41-02	Fayette	20	60	141	78	45	487
R22199	41-03	Fayette	20	60	113	89	49	380
R22200	41-04	Fayette	21	88	93	103	78	289
R22201	41-09	Fayette	15	59	110	64	43	297
R22202	41-23	Fayette	18	71	119	66	66	190
R23071	89-01	Ford	28	93	112	83	97	356
R23072	89-02	Ford	21	92	106	107	78	356
R23073	89-03	Ford	26	92	96	130	99	316
R23074	89-04	Ford	24	88	126	126	99	340
R23075	89-05	Ford	19	60	118	61	53	384
R23076	89-07	Ford	21	51	86	38	57	162
R22127	11-01	Franklin	19	61	125	69	50	426
R22128	11-02	Franklin	16	63	104	71	45	416
R22129	11-03	Franklin	16	61	97	69	41	399
R22130	11-05	Franklin	17	69	94	79	69	393
R22131	11-06	Franklin	12	52	100	64	36	391
R22132	11-34	Franklin	15	60	144	70	42	424
R23011	79-01	Fulton	27	84	123	73	64	123
R23012	79-02	Fulton	24	89	120	82	48	120

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Lab. no.	Sample ID	County	Pb	Rb	Sr	V	Zn	Zr
R23013	79-03	Fulton	24	99	114	112	74	114
R23014	79-04	Fulton	23	97	107	126	99	107
R23015	79-06	Fulton	24	87	117	113	98	117
R23016	79-11	Fulton	19	72	143	81	63	143
R23041	84-01	Fulton	20	86	126	92	60	427
R23042	84-02	Fulton	22	88	123	116	77	376
R23043	84-03	Fulton	21	82	124	112	76	361
R23044	84-05	Fulton	19	80	134	101	66	403
R23045	84-09	Fulton	11	50	82	48	36	116
R23046	84-14	Fulton	13	57	94	53	42	183
R23047	85-01	Fulton	27	92	135	89	88	465
R23048	85-02	Fulton	24	90	125	109	81	405
R23049	85-03	Fulton	26	86	127	116	90	400
R23050	85-05	Fulton	20	82	136	113	94	389
R23051	85-09	Fulton	20	84	146	93	70	457
R23052	85-13	Fulton	18	74	137	74	56	376
R22228	46-01	Greene	20	76	132	66	67	357
R22229	46-02	Greene	18	79	143	68	64	352
R22230	46-04	Greene	18	90	142	79	70	359
R22231	46-05	Greene	19	93	141	88	84	338
R22232	46-08	Greene	21	74	143	96	83	316
R22233	46-33	Greene	20	84	107	66	66	194
R23190	103-1	Grundy	21	89	134	88	77	277
R23191	103-2	Grundy	18	88	137	96	70	282
R23192	103-3	Grundy	18	78	149	100	74	317
R23193	103-4	Grundy	10	50	108	68	42	258
R23194	103-5	Grundy	20	70	147	99	71	312
R22133	12-02	Hamilton	21	100	135	94	80	333
R22134	12-03	Hamilton	21	107	133	106	86	298
R22135	12-04	Hamilton	21	107	122	102	88	294
R22136	12-06	Hamilton	22	109	126	108	90	294
R22137	12-19	Hamilton	19	91	147	86	68	400
R22203	12-27	Hamilton	21	113	111	107	102	197
R23023	81-01	Hancock	29	74	126	88	63	462
R23024	81-02	Hancock	20	77	130	98	51	468
R23025	81-03	Hancock	26	86	132	126	69	381
R23026	81-05	Hancock	20	78	100	111	58	354
R23027	81-07	Hancock	22	87	97	112	64	333
R23028	81-13	Hancock	23	82	94	108	89	283
R23029	82-01	Hancock	147	88	131	87	110	446
R23030	82-02	Hancock	21	90	129	111	80	384
R23031	82-03	Hancock	29	91	132	94	72	458
R23032	82-04	Hancock	23	87	142	121	93	357
R23033	82-09	Hancock	21	82	174	117	94	360
R23034	82-13	Hancock	17	72	166	90	60	440
R23344	107-1	Henry	22	83	128	106	76	392
R23345	107-2	Henry	21	81	154	104	71	470
R23346	107-3	Henry	20	78	173	99	62	520
R23347	107-4	Henry	19	80	185	94	59	487
R23348	107-6	Henry	18	86	175	94	47	427
R23349	107-9	Henry	23	100	115	103	72	277
R23350	108-1	Henry	24	122	136	97	92	362
R23351	108-2	Henry	23	113	148	110	84	369
R23352	108-3	Henry	23	100	141	119	84	357
R23353	108-5	Henry	22	84	163	121	94	383
R23354	108-7	Henry	20	72	183	103	79	463
R23355	108-10	Henry	17	69	172	76	60	416
R23390	110-1	Henry	17	62	163	61	34	337
R23391	110-2	Henry	14	67	145	87	47	261

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Lab. no.	Sample ID	County	Pb	Rb	Sr	V	Zn	Zr
R23392	110-3	Henry	16	66	155	88	48	233
R23393	110-5	Henry	11	59	184	69	38	135
R23394	110-7	Henry	8	44	157	38	19	108
R23395	110-9	Henry	6	38	167	<35	13	108
R23396	111-1	Henry	17	61	151	71	52	245
R23397	111-2	Henry	13	60	143	72	48	238
R23398	111-3	Henry	13	58	154	69	43	260
R23399	111-4	Henry	13	60	164	69	47	279
R23400	111-5	Henry	11	56	143	56	37	210
R23401	111-6	Henry	7	37	103	<35	13	66
R23135	97-01	Iroquois	23	113	140	94	82	309
R23136	97-02	Iroquois	21	113	150	93	79	324
R23137	97-03	Iroquois	20	116	153	104	77	316
R23138	97-05	Iroquois	18	111	160	94	76	330
R23139	97-07	Iroquois	24	130	126	112	92	261
R23140	97-09	Iroquois	22	123	125	102	94	241
R23147	99-01	Iroquois	12	48	122	<35	28	187
R23148	99-02	Iroquois	9	47	126	38	16	242
R23149	99-03	Iroquois	10	47	134	<35	11	258
R23150	99-06	Iroquois	9	51	143	41	19	220
R23152	99-08	Iroquois	8	46	145	<35	12	174
R23153	99-09	Iroquois	8	47	167	<35	12	167
R23153	100-01	Iroquois	47	96	129	77	128	313
R23154	100-02	Iroquois	28	113	113	98	110	244
R23155	100-03	Iroquois	29	117	112	99	127	253
R23156	100-05	Iroquois	27	100	106	77	114	195
R23157	100-06	Iroquois	24	94	105	68	112	157
R23158	100-08	Iroquois	23	100	104	67	108	174
R23159	101-01	Iroquois	33	129	128	112	82	310
R23160	101-02	Iroquois	26	148	138	138	88	249
R23161	101-03	Iroquois	27	150	140	142	96	224
R23162	101-04	Iroquois	24	177	130	136	96	176
R23163	101-05	Iroquois	24	168	128	128	91	174
R23164	101-07	Iroquois	22	179	125	122	92	152
R21838	8-01	Jackson	38	67	179	70	110	255
R21839	8-02	Jackson	28	68	131	60	69	408
R21840	8-03	Jackson	18	68	119	64	23	405
R21841	8-06	Jackson	16	68	144	53	20	401
R21893	8-12	Jackson	25	59	152	91	64	333
R21894	8-22	Jackson	19	77	201	100	68	393
R22179	38-01	Jasper	20	58	105	63	47	233
R22180	38-02	Jasper	19	65	105	72	46	239
R22181	38-03	Jasper	19	65	122	72	46	386
R22182	38-05	Jasper	24	92	102	120	91	249
R22183	38-08	Jasper	18	74	115	72	48	249
R22184	38-13	Jasper	18	94	105	70	65	190
R22061	26-01	Jefferson	25	49	107	58	43	437
R22062	26-02	Jefferson	16	54	97	62	40	455
R22063	26-03	Jefferson	19	59	98	73	45	439
R22064	26-04	Jefferson	18	54	88	72	38	412
R22065	26-08	Jefferson	19	102	105	102	79	278
R22066	26-15	Jefferson	20	191	141	149	139	188
R22216	44-01	Jersey	20	58	136	61	44	423
R22217	44-02	Jersey	19	62	125	78	52	357
R22218	44-03	Jersey	21	87	115	99	94	306
R22219	44-04	Jersey	19	73	116	94	83	299
R22220	44-13	Jersey	18	67	125	77	49	319
R22221	44-29	Jersey	15	62	113	52	58	140

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Lab. no.	Sample ID	County	Pb	Rb	Sr	V	Zn	Zr
R23461	119-1	Jo Daviess	32	71	163	70	69	562
R23462	119-2	Jo Daviess	26	76	173	78	51	510
R23463	119-3	Jo Daviess	24	80	164	96	58	500
R23464	119-5	Jo Daviess	19	77	165	102	66	496
R23465	119-6	Jo Daviess	19	83	175	92	62	414
R23466	119-11	Jo Daviess	<5	176	117	101	61	101
R23467	120-1	Jo Daviess	23	98	142	92	79	390
R23468	120-2	Jo Daviess	20	94	138	101	73	400
R23469	120-4	Jo Daviess	19	79	153	114	77	370
R23470	120-5	Jo Daviess	20	80	163	119	78	362
R23471	120-8	Jo Daviess	20	88	175	94	60	395
R23472	120-15	Jo Daviess	17	107	144	106	52	368
R21766	3-01	Johnson	23	64	112	64	19	586
R21767	3-02	Johnson	19	72	119	73	20	540
R21768	3-03	Johnson	20	72	114	76	23	523
R21769	3-04	Johnson	20	79	105	86	34	462
R21770	3-05	Johnson	20	85	107	96	49	344
R21771	3-10	Johnson	17	90	148	76	41	337
R21772	3-14	Johnson	13	122	124	133	60	81
R23768	133-1	Kane	20	84	143	68	51	410
R23769	133-2	Kane	19	84	133	86	58	370
R23770	133-3	Kane	17	82	135	79	56	337
R23771	133-4	Kane	17	79	146	69	52	341
R23772	133-5	Kane	13	62	131	48	38	245
R23773	133-6	Kane	11	54	130	40	32	225
R23790	135-1	Kane	24	89	126	91	77	402
R23791	135-2	Kane	22	94	112	109	89	262
R23792	135-3	Kane	26	99	113	107	101	189
R23793	135-4	Kane	31	122	98	120	138	192
R23794	135-5	Kane	27	98	95	89	103	138
R23795	135-6	Kane	19	73	87	62	86	111
R23141	98-01	Kankakee	40	84	120	72	116	286
R23142	98-02	Kankakee	47	78	94	82	162	197
R23143	98-03	Kankakee	43	73	109	66	126	228
R23144	98-05	Kankakee	30	72	94	77	101	218
R23145	98-06	Kankakee	107	69	75	66	152	131
R23146	98-07	Kankakee	13	51	64	<35	41	71
R23165	102-1	Kankakee	20	71	113	62	57	330
R23166	102-2	Kankakee	13	64	133	57	40	379
R23167	102-3	Kankakee	16	66	133	70	53	332
R23168	102-4	Kankakee	19	71	122	94	77	302
R23169	102-5	Kankakee	19	84	114	98	94	256
R23170	102-6	Kankakee	11	52	110	40	42	186
R23796	136-1	Kendall	34	93	135	79	100	388
R23797	136-4	Kendall	22	81	122	113	73	377
R23798	136-6	Kendall	22	79	143	107	74	382
R23799	136-8	Kendall	17	71	126	76	62	253
R23800	136-9	Kendall	15	64	104	57	63	173
R23801	136-10	Kendall	14	62	107	56	62	164
R23083	91-01	Knox	24	92	122	88	78	421
R23084	91-02	Knox	22	92	122	92	76	430
R23085	91-03	Knox	21	94	121	111	77	457
R23086	91-05	Knox	23	89	118	124	87	398
R23087	91-07	Knox	22	80	146	106	74	456
R23088	91-11	Knox	18	78	143	88	60	439
R23756	131-1	Lake	23	106	125	90	81	188
R23757	131-3	Lake	24	139	102	122	82	204
R23758	131-4	Lake	20	109	98	94	60	151
R23759	131-5	Lake	16	108	119	87	59	127

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Lab. no.	Sample ID	County	Pb	Rb	Sr	V	Zn	Zr
R23760	131-6	Lake	17	110	119	91	61	127
R23761	131-7	Lake	16	109	128	87	59	136
R23195	104-1	LaSalle	23	90	135	83	84	368
R23196	104-2	LaSalle	22	92	128	92	68	358
R23197	104-3	LaSalle	22	90	129	117	80	331
R23198	104-4	LaSalle	21	83	139	119	80	343
R23199	104-6	LaSalle	20	71	150	90	67	326
R23200	104-8	LaSalle	18	79	149	76	66	221
R23414	114-1	LaSalle	46	99	142	86	161	381
R23415	114-2	LaSalle	23	76	126	90	90	386
R23416	114-3	LaSalle	21	81	145	117	88	381
R23417	114-4	LaSalle	22	78	156	112	83	386
R23418	114-5	LaSalle	21	74	157	101	74	369
R23419	114-6	LaSalle	19	68	141	81	64	334
R22150	34-01	Lawrence	19	61	105	62	48	401
R22151	34-02	Lawrence	17	61	98	61	45	408
R22152	34-03	Lawrence	16	64	99	74	48	389
R22153	34-04	Lawrence	19	83	97	92	67	353
R22154	34-10	Lawrence	17	61	114	66	51	282
R22155	34-13	Lawrence	15	55	71	64	42	265
R23437	115-1	Lee	33	71	165	83	110	356
R23438	115-2	Lee	20	71	181	84	68	398
R23439	115-3	Lee	18	66	165	88	71	358
R23440	115-5	Lee	18	68	162	88	72	280
R23441	115-7	Lee	14	67	178	76	53	330
R23442	115-9	Lee	14	57	159	56	47	318
R23443	116-1	Lee	18	58	113	56	47	310
R23444	116-3	Lee	13	59	104	68	42	303
R23445	116-4	Lee	14	57	114	73	40	257
R23446	116-5	Lee	11	44	95	56	30	190
R23447	116-6	Lee	8	34	86	41	18	115
R23448	116-9	Lee	<5	23	77	<35	11	58
R23123	95-01	Livingston	29	94	67	84	80	239
R23124	95-02	Livingston	21	99	110	91	72	321
R23125	95-03	Livingston	24	98	94	119	88	292
R23126	95-05	Livingston	22	90	114	120	82	313
R23127	95-08	Livingston	22	92	106	81	72	240
R23128	95-13	Livingston	24	151	70	107	93	141
R23129	96-01	Livingston	36	126	101	117	118	257
R23130	96-02	Livingston	40	124	76	123	198	199
R23131	96-03	Livingston	43	104	58	81	184	117
R23132	96-04	Livingston	34	119	62	94	182	142
R23133	96-07	Livingston	24	147	79	104	108	141
R23134	96-11	Livingston	29	154	79	103	109	132
R22347	64-01	Logan	22	68	128	73	67	385
R22348	64-02	Logan	19	72	126	77	71	388
R22349	64-03	Logan	21	73	102	87	78	379
R22350	64-06	Logan	18	63	148	74	68	412
R22351	64-08	Logan	19	54	66	55	58	320
R22352	64-22	Logan	22	99	94	90	85	252
R22686	74-01	Logan	16	66	113	71	59	295
R22687	74-03	Logan	15	58	116	78	53	295
R22688	74-04	Logan	16	65	118	80	61	309
R22689	74-05	Logan	13	45	115	84	46	276
R22690	74-07	Logan	15	64	117	75	58	297
R22691	74-11	Logan	11	38	117	40	37	285
R22704	77-1	Logan	13	38	112	44	12	301
R22705	77-2	Logan	16	43	102	47	12	281
R22706	77-5	Logan	19	57	107	45	14	286

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Lab. no.	Sample ID	County	Pb	Rb	Sr	V	Zn	Zr
R22707	77-8	Logan	19	52	137	44	12	347
R22708	77-14	Logan	12	25	108	<35	8	113
R22709	77-26	Logan	21	41	169	50	13	357
R22692	75-01	Macon	16	49	106	71	42	338
R22693	75-02	Macon	15	62	100	89	59	281
R22694	75-03	Macon	16	62	102	100	70	260
R22695	75-04	Macon	16	58	112	92	65	289
R22696	75-06	Macon	15	51	115	73	52	278
R22697	75-10	Macon	11	58	98	50	46	133
R22210	43-01	Macoupin	18	53	109	57	43	411
R22211	43-03	Macoupin	18	50	118	84	50	328
R22212	43-05	Macoupin	21	68	105	102	83	287
R22213	43-08	Macoupin	18	61	179	78	69	388
R22214	43-12	Macoupin	18	73	126	77	58	300
R22215	43-27	Macoupin	15	58	102	47	51	136
R22234	47-01	Macoupin	16	60	124	57	49	386
R22235	47-02	Macoupin	16	64	124	62	52	393
R22236	47-04	Macoupin	15	58	133	55	45	324
R22237	47-05	Macoupin	16	66	105	60	50	361
R22238	47-08	Macoupin	15	61	115	62	53	317
R22239	47-16	Macoupin	20	76	129	74	65	300
R22104	28-01	Madison	19	55	129	59	56	396
R22105	28-02	Madison	17	62	109	87	77	281
R22106	28-03	Madison	16	72	131	74	57	366
R22107	28-04	Madison	18	78	122	78	62	328
R22108	28-10	Madison	17	57	129	65	44	416
R22209	28-15	Madison	16	64	138	67	55	369
R22025	20-01	Marion	22	52	100	77	52	408
R22026	20-02	Marion	19	61	106	85	43	405
R22027	20-03	Marion	24	91	123	118	78	434
R22028	20-04	Marion	24	102	104	128	102	274
R22029	20-08	Marion	17	72	106	83	59	328
R22030	20-11	Marion	18	68	96	79	44	328
R22710	78-01	Mason	11	24	77	<35	7	134
R22711	78-03	Mason	17	51	88	50	13	238
R22712	78-04	Mason	16	39	75	37	11	140
R22713	78-09	Mason	12	22	88	<35	6	59
R22714	78-12	Mason	14	24	99	<35	8	89
R22715	78-17	Mason	11	20	88	<35	5	53
R23017	80-01	McDonough	22	57	121	59	49	319
R23018	80-04	McDonough	19	68	120	73	52	363
R23019	80-08	McDonough	20	63	120	69	48	310
R23020	80-10	McDonough	18	73	119	79	51	361
R23021	80-15	McDonough	18	81	137	83	63	367
R23022	80-20	McDonough	19	83	157	91	74	374
R23035	83-01	McDonough	21	103	118	94	80	389
R23036	83-02	McDonough	20	102	119	109	82	387
R23037	83-04	McDonough	24	90	127	127	90	358
R23038	83-05	McDonough	21	86	139	114	81	371
R23039	83-10	McDonough	19	80	148	97	77	438
R23040	83-14	McDonough	18	59	108	90	31	404
R23762	132-1	McHenry	24	82	131	89	90	383
R23763	132-2	McHenry	18	70	134	98	62	307
R23764	132-3	McHenry	21	74	123	112	71	378
R23765	132-4	McHenry	17	77	125	78	58	202
R23766	132-5	McHenry	11	58	113	49	38	152
R23767	132-6	McHenry	12	51	127	47	34	229
R22674	72-01	McLean	17	68	107	72	64	287
R22675	72-02	McLean	16	73	100	84	68	262

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Lab. no.	Sample ID	County	Pb	Rb	Sr	V	Zn	Zr
R22676	72-03	McLean	17	71	109	95	77	273
R22677	72-04	McLean	16	64	109	91	72	273
R22678	72-06	McLean	15	63	119	81	62	284
R22679	72-09	McLean	12	64	90	59	48	168
R22680	73-01	McLean	16	52	100	70	48	309
R22681	73-02	McLean	15	62	99	84	59	280
R22682	73-03	McLean	16	60	99	90	66	262
R22683	73-04	McLean	15	53	108	85	58	287
R22684	73-05	McLean	15	52	118	80	58	200
R22685	73-06	McLean	13	46	116	67	52	312
R23065	88-01	McLean	50	88	92	90	99	349
R23066	88-02	McLean	23	92	93	102	77	372
R23067	88-03	McLean	23	88	95	119	92	340
R23068	88-05	McLean	26	89	100	110	91	350
R23069	88-07	McLean	53	88	66	102	187	161
R23070	88-08	McLean	54	60	75	50	108	100
R22270	53-01	Menard	21	73	110	90	82	305
R22271	53-02	Menard	22	83	98	85	73	268
R22272	53-03	Menard	18	61	97	63	46	235
R22273	53-04	Menard	23	76	106	103	84	253
R22274	53-05	Menard	19	67	102	85	79	251
R22275	53-11	Menard	13	70	97	54	55	133
R22342	63-01	Menard	16	60	136	60	57	406
R22343	63-02	Menard	16	58	142	56	53	458
R22344	63-03	Menard	16	61	154	59	53	483
R22345	63-06	Menard	15	64	164	61	53	450
R22346	63-15	Menard	15	57	153	59	54	372
R23384	109-1	Mercer	19	82	141	88	64	478
R23385	109-3	Mercer	28	86	166	77	112	517
R23386	109-4	Mercer	29	86	166	80	102	542
R23387	109-5	Mercer	21	80	152	92	67	446
R23388	109-7	Mercer	20	76	156	86	64	370
R23389	109-9	Mercer	17	71	159	74	63	261
R22002	16-01	Monroe	24	83	113	106	74	359
R22003	16-02	Monroe	24	82	115	126	87	297
R22004	16-03	Monroe	19	62	150	172	81	254
R22005	16-04	Monroe	16	61	173	119	78	317
R22006	16-16	Monroe	16	77	126	89	58	281
R22007	16-26	Monroe	18	66	136	66	64	209
R22008	17-01	Monroe	72	93	169	110	138	217
R22009	17-02	Monroe	60	100	160	113	139	197
R22010	17-03	Monroe	38	97	165	118	111	188
R22011	17-04	Monroe	22	95	174	121	91	213
R22012	17-16	Monroe	18	73	255	78	63	323
R22204	42-01	Montgomery	16	53	106	52	53	270
R22205	42-02	Montgomery	15	56	96	57	49	278
R22206	42-04	Montgomery	ND	ND	94	ND	ND	240
R22207	42-06	Montgomery	14	46	86	54	44	180
R22208	42-16	Montgomery	13	43	86	38	46	121
R22209	42-23	Montgomery	20	89	119	81	84	306
R22240	48-01	Montgomery	20	67	131	67	57	382
R22241	48-03	Montgomery	19	81	122	85	71	328
R22242	48-04	Montgomery	24	91	112	102	92	298
R22243	48-06	Montgomery	22	79	122	102	86	300
R22244	48-09	Montgomery	21	77	152	88	78	342
R22245	48-16	Montgomery	19	81	96	65	61	201
R22294	57-01	Morgan	22	57	112	63	57	378
R22295	57-02	Morgan	19	82	116	88	76	318
R22296	57-03	Morgan	22	83	95	94	89	268

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Lab. no.	Sample ID	County	Pb	Rb	Sr	V	Zn	Zr
R22297	57-05	Morgan	21	73	113	88	84	288
R22298	57-11	Morgan	15	62	183	73	50	421
R22299	57-16	Morgan	14	62	194	72	50	441
R23504	122-1*	Ogle	308	88	147	82	348	303
R23505	122-2*	Ogle	110	98	148	99	519	389
R23506	122-3*	Ogle	26	101	154	99	83	400
R23507	122-5	Ogle	21	79	166	107	99	423
R23508	122-8	Ogle	18	72	196	99	73	429
R23509	122-9	Ogle	16	68	160	73	48	346
R23510	123-1	Ogle	26	81	143	82	93	463
R23511	123-2	Ogle	21	79	144	107	70	422
R23512	123-3	Ogle	19	63	135	99	60	415
R23513	123-4	Ogle	20	70	155	108	30	402
R23514	123-7	Ogle	22	99	136	104	76	281
R23515	123-8	Ogle	21	107	118	91	91	263
R23089	92-01	Peoria	69	92	112	101	138	449
R23090	92-02	Peoria	29	93	105	114	89	395
R23091	92-03	Peoria	24	89	104	117	88	407
R23092	92-04	Peoria	22	82	124	112	82	435
R23093	92-06	Peoria	20	82	136	98	63	477
R23094	92-09	Peoria	17	78	140	85	57	382
R23095	93-01	Peoria	27	87	124	81	69	495
R23096	93-02	Peoria	20	97	115	99	76	451
R23097	93-03	Peoria	24	96	107	106	91	410
R23098	93-04	Peoria	23	89	105	108	97	419
R23099	93-06	Peoria	22	83	125	94	86	482
R23100	93-09	Peoria	14	93	106	68	56	159
R21895	9-01	Perry	57	68	122	79	80	403
R21896	9-02	Perry	24	70	125	81	45	413
R21897	9-03	Perry	22	76	114	94	52	398
R21898	9-07	Perry	23	82	132	119	82	303
R21899	9-12	Perry	17	62	182	85	56	373
R21900	9-20	Perry	24	66	85	92	79	256
R21901	10-01	Perry	22	78	151	103	62	369
R21902	10-02	Perry	19	81	163	99	62	344
R21903	10-03	Perry	17	81	145	92	57	357
R21904	10-05	Perry	17	75	116	90	53	318
R21905	10-10	Perry	21	92	114	98	62	294
R21906	10-16	Perry	18	72	105	80	59	307
R22222	45-01	Pike	18	59	144	62	45	478
R22223	45-02	Pike	18	72	144	82	57	423
R22224	45-03	Pike	22	76	124	100	79	325
R22225	45-05	Pike	23	76	134	99	82	326
R22226	45-09	Pike	16	67	193	79	57	386
R22227	45-17	Pike	28	84	85	108	100	395
R22300	58-01	Pike	18	58	130	61	44	449
R22301	58-02	Pike	19	76	139	67	53	406
R22302	58-03	Pike	22	98	116	114	96	316
R22303	58-04	Pike	23	92	116	96	98	328
R22304	58-07	Pike	21	75	128	83	85	331
R22305	58-10	Pike	18	51	128	59	61	325
R22306	58-31	Pike	15	60	202	76	51	446
R22307	59-01	Pike	20	79	153	87	69	419
R22308	59-02	Pike	21	82	143	101	85	358
R22309	59-03	Pike	21	77	161	103	81	355
R22310	59-06	Pike	19	71	173	96	79	367
R22311	59-13	Pike	16	68	174	80	56	402
R22312	59-16	Pike	15	60	119	74	52	378
R21832	4-01	Pope	38	138	96	117	138	196

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Lab. no.	Sample ID	County	Pb	Rb	Sr	V	Zn	Zr
R21833	4-02	Pope	28	149	104	121	113	189
R21834	4-03	Pope	27	152	95	127	101	193
R21835	4-04	Pope	27	151	93	121	103	186
R21836	4-08	Pope	26	148	96	125	101	187
R21837	4-12	Pope	25	147	102	128	96	191
R21773	5-01	Pope	26	76	93	63	40	448
R21774	5-02	Pope	24	78	82	67	37	456
R21775	5-03	Pope	21	85	89	78	44	419
R21776	5-04	Pope	22	87	77	89	49	323
R21777	5-07	Pope	20	75	123	73	40	378
R21778	5-14	Pope	15	61	97	67	21	460
R21826	1-01	Pulaski	30	114	133	104	96	212
R21827	1-02	Pulaski	23	116	125	112	87	207
R21828	1-03	Pulaski	22	119	120	113	80	191
R21829	1-04	Pulaski	22	120	123	114	84	192
R21830	1-08	Pulaski	23	130	133	128	89	161
R21831	1-11	Pulaski	20	114	125	126	86	171
R23201	105-1	Putnam	31	92	137	92	96	419
R23202	105-2	Putnam	22	90	134	108	77	380
R23203	105-3	Putnam	20	82	137	116	78	348
R23204	105-5	Putnam	21	77	158	99	69	409
R23205	105-7	Putnam	20	120	107	92	76	146
R23206	105-12	Putnam	19	122	100	84	78	126
R22144	33-01	Richland	21	61	93	78	60	310
R22145	33-02	Richland	22	70	99	84	62	342
R22146	33-03	Richland	18	67	147	78	45	385
R22147	33-04	Richland	20	74	102	88	47	371
R22148	33-06	Richland	18	78	109	95	59	283
R22149	33-10	Richland	18	106	107	99	61	224
R21779	6-01	Saline	32	87	111	82	36	307
R21780	6-02	Saline	21	123	100	115	55	213
R21781	6-03	Saline	22	132	101	128	71	170
R21782	6-04	Saline	21	130	115	119	79	190
R21783	6-06	Saline	23	134	127	123	104	174
R21784	6-20	Saline	18	131	170	101	58	84
R22282	55-01	Sangamon	20	78	115	74	75	287
R22283	55-03	Sangamon	15	69	137	65	63	342
R22284	55-06	Sangamon	15	69	126	59	60	339
R22285	55-08	Sangamon	14	66	126	59	56	330
R22286	55-11	Sangamon	14	65	127	61	57	302
R22287	55-28	Sangamon	ND	ND	93	ND	ND	106
R22288	56-01	Sangamon	27	77	111	74	88	323
R22289	56-02	Sangamon	15	81	102	73	64	314
R22290	56-03	Sangamon	15	60	102	82	56	306
R22291	56-05	Sangamon	15	47	96	96	62	235
R22292	56-07	Sangamon	14	47	113	84	57	305
R22293	56-11	Sangamon	15	57	173	71	62	338
R22252	50-01	Shelby	21	64	102	83	53	326
R22253	50-02	Shelby	21	76	93	92	75	297
R22254	50-03	Shelby	21	76	102	98	78	307
R22255	50-05	Shelby	18	89	123	79	67	226
R22256	50-07	Shelby	16	79	141	57	61	150
R22257	50-16	Shelby	13	79	122	59	56	141
R22098	27-1	St. Clair	19	55	138	62	48	478
R22099	27-2	St. Clair	17	62	129	71	48	416
R22100	27-3	St. Clair	16	72	129	87	61	377
R22101	27-4	St. Clair	18	78	120	106	84	324
R22102	27-9	St. Clair	17	57	176	86	65	380
R22103	27-13	St. Clair	16	64	179	78	57	381

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Lab. no.	Sample ID	County	Pb	Rb	Sr	V	Zn	Zr
R23498	121-1	Stephenson	22	70	136	76	94	509
R23499	121-2	Stephenson	19	74	149	74	54	569
R23500	121-3	Stephenson	19	82	138	86	60	488
R23501	121-5	Stephenson	20	90	144	88	70	451
R23502	121-8	Stephenson	21	82	139	104	72	427
R23503	121-10	Stephenson	19	76	163	106	73	438
R23053	86-01	Tazewell	43	87	135	77	74	452
R23054	86-02	Tazewell	31	96	115	107	63	423
R23055	86-03	Tazewell	24	96	105	131	97	363
R23056	86-05	Tazewell	22	89	116	112	99	387
R23057	86-07	Tazewell	23	90	146	106	104	399
R23058	86-12	Tazewell	18	74	147	82	59	404
R21759	2-01	Union	21	80	100	71	43	469
R21760	2-02	Union	22	92	102	92	52	346
R21761	2-03	Union	23	92	104	98	55	328
R21762	2-04	Union	21	89	114	94	53	352
R21763	2-06	Union	22	89	127	95	58	358
R21764	2-13	Union	17	78	179	73	33	384
R21765	2-26	Union	16	64	67	66	24	435
R22377	68-01	Vermilion	20	65	117	74	61	393
R22378	68-02	Vermilion	22	90	104	108	86	307
R22379	68-03	Vermilion	24	73	105	108	85	294
R22380	68-04	Vermilion	19	74	105	99	81	271
R22381	68-06	Vermilion	19	64	140	56	69	226
R22382	68-09	Vermilion	19	79	108	55	66	167
R22506	69-01	Vermilion	28	136	92	88	108	185
R22507	69-03	Vermilion	22	114	104	85	113	209
R22508	69-04	Vermilion	22	110	110	86	115	210
R22509	69-05	Vermilion	18	83	119	74	90	217
R22510	69-08	Vermilion	18	92	90	70	80	159
R22511	69-11	Vermilion	19	98	89	67	77	158
R22043	23-01	Wabash	19	55	121	70	55	456
R22044	23-02	Wabash	21	58	95	69	57	294
R22045	23-03	Wabash	18	70	115	83	60	393
R22046	23-04	Wabash	23	95	106	109	91	317
R22047	23-08	Wabash	20	76	135	91	80	338
R22048	23-14	Wabash	20	78	96	92	58	373
R23077	90-01	Warren	44	90	130	86	101	456
R23078	90-02	Warren	21	91	142	103	78	458
R23079	90-03	Warren	20	82	136	111	77	417
R23080	90-05	Warren	21	79	156	114	66	399
R23081	90-07	Warren	20	77	177	109	89	422
R23082	90-11	Warren	17	70	168	90	63	401
R21990	14-01	Washington	23	54	105	73	51	459
R21991	14-02	Washington	21	54	116	78	51	463
R21992	14-03	Washington	21	61	109	87	50	435
R21993	14-04	Washington	20	81	116	108	72	368
R21994	14-06	Washington	23	80	155	113	86	348
R21995	14-15	Washington	17	74	127	87	59	351
R21996	15-01	Washington	19	60	115	71	45	411
R21997	15-02	Washington	20	56	106	87	40	396
R21998	15-03	Washington	27	96	84	136	93	290
R21999	15-04	Washington	29	112	74	152	116	242
R22000	15-13	Washington	19	93	125	92	68	348
R22001	15-20	Washington	19	83	96	99	81	289
R22031	21-01	Wayne	25	72	94	81	57	358
R22032	21-02	Wayne	20	69	96	80	46	366
R22033	21-03	Wayne	18	71	97	82	43	380
R22034	21-04	Wayne	24	107	95	118	83	285

Continued on next page

Lab. no.	Sample ID	County	Pb	Rb	Sr	V	Zn	Zr
R22035	21-07	Wayne	18	89	136	99	64	340
R22036	21-10	Wayne	21	108	116	105	65	308
R22055	25-01	Wayne	18	71	115	87	50	365
R22056	25-02	Wayne	ND	ND	116	ND	ND	366
R22057	25-03	Wayne	19	84	117	93	57	361
R22058	25-04	Wayne	20	97	114	97	71	334
R22059	25-22	Wayne	18	96	141	116	79	254
R22060	25-29	Wayne	19	122	130	127	105	223
R21985	13-01	White	32	41	142	45	71	266
R21986	13-02	White	14	55	139	55	42	278
R21987	13-03	White	15	69	138	73	51	247
R21988	13-04	White	16	66	146	76	55	254
R21989	13-18	White	11	37	158	37	41	99
R23449	117-1	Whiteside	20	74	166	70	69	350
R23450	117-2	Whiteside	16	62	179	62	52	406
R23451	117-3	Whiteside	16	58	184	49	44	460
R23452	117-5	Whiteside	11	56	189	48	37	462
R23453	117-6	Whiteside	11	52	190	50	33	390
R23454	117-8	Whiteside	10	52	201	48	30	402
R23534	127-1	Will	39	119	121	104	97	264
R23535	127-3	Will	22	131	112	121	84	215
R223536	127-4	Will	20	124	125	109	77	170
R23537	127-5	Will	18	120	122	101	72	148
R23538	127-6	Will	18	127	132	102	78	158
R23539	127-7	Will	19	130	123	99	80	158
R23802	137-1	Will	31	99	129	90	82	369
R23803	137-2	Will	22	87	131	117	74	374
R23804	137-3	Will	27	87	123	117	81	369
R23805	137-4	Will	36	118	105	126	139	219
R23806	137-5	Will	37	126	104	124	160	199
R23807	137-6	Will	22	112	117	98	88	189
R21785	7-01	Williamson	24	74	93	64	39	442
R21786	7-02	Williamson	22	87	95	92	40	352
R21787	7-03	Williamson	20	86	93	94	44	341
R21788	7-06	Williamson	22	82	127	90	52	324
R21789	7-21	Williamson	15	75	106	69	19	313
R23516	124-1	Winnebago	16	61	113	54	46	207
R23517	124-2	Winnebago	12	66	113	56	41	180
R23518	124-3	Winnebago	11	56	115	39	31	141
R23519	124-4	Winnebago	8	51	112	<35	26	120
R23520	124-5	Winnebago	9	50	120	<35	26	120
R23521	124-7	Winnebago	8	50	120	<35	24	103
R23059	87-01	Woodford	33	86	125	91	62	498
R23060	87-02	Woodford	28	83	116	81	56	490
R23061	87-03	Woodford	27	83	126	86	60	505
R23062	87-04	Woodford	23	91	124	116	101	362
R23063	87-05	Woodford	22	82	138	100	93	444
R23064	87-06	Woodford	19	72	137	87	76	374
R23117	94-01	Woodford	25	104	112	92	92	325
R23118	94-02	Woodford	22	104	102	102	83	352
R23119	94-04	Woodford	22	91	113	119	91	366
R23120	94-06	Woodford	23	87	132	110	90	368
R23121	94-08	Woodford	18	67	98	80	67	285
R23122	94-12	Woodford	12	44	56	<35	51	72

APPENDIX 6—LABORATORY NUMBER, SITE IDENTIFICATION, COUNTY, DEPTH INTERVAL, LOCATION, LAND COVER, LAND USE, AND ELEMENTAL CONCENTRATIONS (SMITH ET AL. 2013)

Note: ND, not determined.

Lab no.	Site ID	County	Depth interval (cm)	Latitude	Longitude	Land cover	Land use
C-348582	9896	Adams	0–5	39.9549	–90.9204	Planted/cultivated	Row crops
C-348589	9896	Adams	0–20	39.9549	–90.9204	Planted/cultivated	Row crops
C-348596	9896	Adams	130–155	39.9549	–90.9204	Planted/cultivated	Row crops
C-348613	12200	Adams	0–5	40.0222	–91.2606	Planted/cultivated	Row crops
C-348640	12200	Adams	0–20	40.0222	–91.2606	Planted/cultivated	Row crops
C-348752	12200	Adams	132–163	40.0222	–91.2606	Planted/cultivated	Row crops
C-348387	13128	Alexander	0–5	37.3097	–89.4474	Planted/cultivated	Row crops
C-348797	13128	Alexander	0–17	37.3097	–89.4474	Planted/cultivated	Row crops
C-348558	13128	Alexander	125–163	37.3097	–89.4474	Planted/cultivated	Row crops
C-348407	11252	Bond	0–5	38.817	–89.522	Planted/cultivated	Row crops
C-348817	11252	Bond	0–9	38.817	–89.522	Planted/cultivated	Row crops
C-348578	11252	Bond	118–145	38.817	–89.522	Planted/cultivated	Row crops
C-348790	6200	Boone	0–5	42.2371	–88.9006	Planted/cultivated	Row crops
C-348677	6200	Boone	0–23	42.2371	–88.9006	Planted/cultivated	Row crops
C-348897	6200	Boone	70–102	42.2371	–88.9006	Planted/cultivated	Row crops
C-348772	6056	Bureau	0–5	41.3196	–89.3313	Forested upland	Deciduous forest
C-348660	6056	Bureau	0–3	41.3196	–89.3313	Forested upland	Deciduous forest
C-348879	6056	Bureau	120–149	41.3196	–89.3313	Forested upland	Deciduous forest
C-348913	3080	Calhoun	0–5	39.3303	–90.68	Planted/cultivated	Pasture/hay
C-348831	3080	Calhoun	0–18	39.3303	–90.68	Planted/cultivated	Pasture/hay
C-348482	3080	Calhoun	128–159	39.3303	–90.68	Planted/cultivated	Pasture/hay
C-348611	7848	Cass	0–5	39.8751	–90.0942	Planted/cultivated	Row crops
C-348638	7848	Cass	0–25	39.8751	–90.0942	Planted/cultivated	Row crops
C-348750	7848	Cass	130–160	39.8751	–90.0942	Planted/cultivated	Row crops
C-348583	2472	Champaign	0–5	40.3134	–88.0177	Planted/cultivated	Row crops
C-348590	2472	Champaign	0–20	40.3134	–88.0177	Planted/cultivated	Row crops
C-348597	2472	Champaign	120–140	40.3134		Planted/cultivated	Row crops
C-348604	7592	Champaign	0–5	39.9975	–88.1178	Planted/cultivated	Row crops
C-348631	7592	Champaign	0–20	39.9975	–88.1178	Planted/cultivated	Row crops
C-348743	7592	Champaign	120–140	39.9975	–88.1178	Planted/cultivated	Row crops
C-348605	9640	Champaign	0–5	40.0874	–88.345	Planted/cultivated	Row crops
C-348632	9640	Champaign	0–18	40.0874	–88.345	Planted/cultivated	Row crops
C-348744	9640	Champaign	120–148	40.0874	–88.345	Planted/cultivated	Row crops
C-348918	2036	Christian	0–5	39.4642	–89.4766	Planted/cultivated	Row crops
C-348836	2036	Christian	0–20	39.4642	–89.4766	Planted/cultivated	Row crops
C-348487	2036	Christian	115–153	39.4642	–89.4766	Planted/cultivated	Row crops
C-348919	6132	Christian	0–5	39.5482	–89.3165	Planted/cultivated	Urban/recreational grasses
C-348837	6132	Christian	0–18	39.5482	–89.3165	Planted/cultivated	Urban/recreational grasses
C-348488	6132	Christian	129–160	39.5482	–89.3165	Planted/cultivated	Urban/recreational grasses
C-348920	10228	Christian	0–5	39.4609	–89.0262	Planted/cultivated	Row crops
C-348838	10228	Christian	0–20	39.4609	–89.0262	Planted/cultivated	Row crops
C-348489	10228	Christian	111–150	39.4609	–89.0262	Planted/cultivated	Row crops
C-348908	492	Clark	0–5	39.4624	–87.6186	Planted/cultivated	Row crops
C-348826	492	Clark	0–21	39.4624	–87.6186	Planted/cultivated	Row crops
C-348477	492	Clark	121–154	39.4624	–87.6186	Planted/cultivated	Row crops
C-348923	4588	Clark	0–5	39.2952	–87.8667	Planted/cultivated	Row crops
C-348841	4588	Clark	0–18	39.2952	–87.8667	Planted/cultivated	Row crops
C-348492	4588	Clark	123–153	39.2952	–87.8667	Planted/cultivated	Row crops
C-348922	11500	Clark	0–5	39.4402	–87.8134	Planted/cultivated	Urban/recreational grasses
C-348840	11500	Clark	0–20	39.4402	–87.8134	Planted/cultivated	Urban/recreational grasses
C-348491	11500	Clark	116–153	39.4402	–87.8134	Planted/cultivated	Urban/recreational grasses
C-348403	1012	Clay	0–5	38.7971	–88.3103	Planted/cultivated	Row crops

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Lab no.	Site ID	County	Depth interval (cm)	Latitude	Longitude	Land cover	Land use
C-348813	1012	Clay	0–18	38.7971	–88.3103	Planted/cultivated	Row crops
C-348574	1012	Clay	120–145	38.7971	–88.3103	Planted/cultivated	Row crops
C-348904	10996	Clinton	0–5	38.5833	–89.5635	Planted/cultivated	Pasture/hay
C-348822	10996	Clinton	0–20	38.5833	–89.5635	Planted/cultivated	Pasture/hay
C-348473	10996	Clinton	118–157	38.5833	–89.5635	Planted/cultivated	Pasture/hay
C-348906	3060	Coles	0–5	39.612	–88.4521	Planted/cultivated	Row crops
C-348824	3060	Coles	0–20	39.612	–88.4521	Planted/cultivated	Row crops
C-348475	3060	Coles	125–156	39.612	–88.4521	Planted/cultivated	Row crops
C-348921	7156	Coles	0–5	39.4717	–88.1873	Planted/cultivated	Urban/recreational grasses
C-348839	7156	Coles	0–23	39.4717	–88.1873	Planted/cultivated	Urban/recreational grasses
C-348490	7156	Coles	120–160	39.4717	–88.1873	Planted/cultivated	Urban/recreational grasses
C-348786	1448	Cook	0–5	41.9003	–87.7032	Planted/cultivated	Urban/recreational grasses
C-348673	1448	Cook	0–23	41.9003	–87.7032	Planted/cultivated	Urban/recreational grasses
C-348893	1448	Cook	111–157	41.9003	–87.7032	Planted/cultivated	Urban/recreational grasses
C-348784	5544	Cook	0–5	41.6414	–87.8563	Forested upland	Mixed forest
C-348672	5544	Cook	0–17	41.6414	–87.8563	Forested upland	Mixed forest
C-348891	5544	Cook	82–156	41.6414	–87.8563	Forested upland	Mixed forest
C-348788	10296	Cook	0–5	42.0255	–87.992	Herbaceous upland	Grasslands/herbaceous
C-348675	10296	Cook	0–23	42.0255	–87.992	Herbaceous upland	Grasslands/herbaceous
C-348895	10296	Cook	109–142	42.0255	–87.992	Herbaceous upland	Grasslands/herbaceous
C-348404	8684	Crawford	0–5	38.9603	–87.9149	Planted/cultivated	Row crops
C-348814	8684	Crawford	0–18	38.9603	–87.9149	Planted/cultivated	Row crops
C-348575	8684	Crawford	130–154	38.9603	–87.9149	Planted/cultivated	Row crops
C-348682	4776	Dewitt	0–5	40.2257	–88.9453	Planted/cultivated	Row crops
C-348655	4776	Dewitt	0–20	40.2257	–88.9453	Planted/cultivated	Row crops
C-348767	4776	Dewitt	135–156	40.2257	–88.9453	Planted/cultivated	Row crops
C-348818	3496	Douglas	0–5	39.8311	–88.2362	Planted/cultivated	Row crops
C-348819	3496	Douglas	0–20	39.8311	–88.2362	Planted/cultivated	Row crops
C-348579	3496	Douglas	130–160	39.8311	–88.2362	Planted/cultivated	Row crops
C-348905	11688	Douglas	0–5	39.7184	–88.4092	Planted/cultivated	Pasture/hay
C-348823	11688	Douglas	0–22	39.7184	–88.4092	Planted/cultivated	Pasture/hay
C-348474	11688	Douglas	120–157	39.7184	–88.4092	Planted/cultivated	Pasture/hay
C-348907	6672	Edgar	0–5	39.6686	–87.6914	Planted/cultivated	Pasture/hay
C-348825	6672	Edgar	0–21	39.6686	–87.6914	Planted/cultivated	Pasture/hay
C-348476	6672	Edgar	115–160	39.6686	–87.6914	Planted/cultivated	Pasture/hay
C-348585	1704	Fulton	0–5	40.4737	–90.4341	Planted/cultivated	Row crops
C-348592	1704	Fulton	0–18	40.4737	–90.4341	Planted/cultivated	Row crops
C-348599	1704	Fulton	120–150	40.4737	–90.4341	Planted/cultivated	Row crops
C-348914	5384	Greene	0–5	39.5051	–90.1671	Herbaceous upland	Grasslands/herbaceous
C-348832	5384	Greene	0–10	39.5051	–90.1671	Herbaceous upland	Grasslands/herbaceous
C-348483	5384	Greene	124–150	39.5051	–90.1671	Herbaceous upland	Grasslands/herbaceous
C-348775	6312	Grundy	0–5	41.446	–88.5413	Planted/cultivated	Row crops
C-348663	6312	Grundy	0–18	41.446	–88.5413	Planted/cultivated	Row crops
C-348882	6312	Grundy	121–156	41.446	–88.5413	Planted/cultivated	Row crops
C-348776	11432	Grundy	0–5	41.1382	–88.5769	Planted/cultivated	Row crops
C-348664	11432	Grundy	0–23	41.1382	–88.5769	Planted/cultivated	Row crops
C-348883	11432	Grundy	130–160	41.1382	–88.5769	Planted/cultivated	Row crops
C-348397	7924	Hamilton	0–5	38.1185	–88.4933	Planted/cultivated	Pasture/hay
C-348807	7924	Hamilton	0–18	38.1185	–88.4933	Planted/cultivated	Pasture/hay
C-348568	7924	Hamilton	122–158	38.1185	–88.4933	Planted/cultivated	Pasture/hay
C-348615	8104	Hancock	0–5	40.3221	–91.2	Planted/cultivated	Row crops
C-348642	8104	Hancock	0–20	40.3221	–91.2	Planted/cultivated	Row crops
C-348754	8104	Hancock	120–158	40.3221	–91.2	Planted/cultivated	Row crops
C-348624	1256	Henderson	0–5	40.9574	–90.9429	Forested upland	Deciduous forest
C-348651	1256	Henderson	0–8	40.9574	–90.9429	Forested upland	Deciduous forest
C-348763	1256	Henderson	127–159	40.9574	–90.9429	Forested upland	Deciduous forest
C-348778	4520	Iroquois	0–5	40.9678	–88.0166	Planted/cultivated	Row crops

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Lab no.	Site ID	County	Depth interval (cm)	Latitude	Longitude	Land cover	Land use
C-348666	4520	Iroquois	0–15	40.9678	–88.0166	Planted/cultivated	Row crops
C-348885	4520	Iroquois	55–80	40.9678	–88.0166	Planted/cultivated	Row crops
C-348781	9744	Iroquois	0–5	40.7162	–87.6471	Planted/cultivated	Row crops
C-348669	9744	Iroquois	0–16	40.7162	–87.6471	Planted/cultivated	Row crops
C-348888	9744	Iroquois	119–159	40.7162	–87.6471	Planted/cultivated	Row crops
C-348396	3828	Jefferson	0–5	38.1544	–89.0082	Herbaceous upland	Grasslands/herbaceous
C-348806	3828	Jefferson	0–25	38.1544	–89.0082	Herbaceous upland	Grasslands/herbaceous
C-348567	3828	Jefferson	116–155	38.1544	–89.0082	Herbaceous upland	Grasslands/herbaceous
C-348794	8168	Jo Daviess	0–5	42.3644	–90.0343	Planted/cultivated	Row crops
C-348681	8168	Jo Daviess	0–25	42.3644	–90.0343	Planted/cultivated	Row crops
C-348901	8168	Jo Daviess	119–150	42.3644	–90.0343	Planted/cultivated	Row crops
C-348391	1780	Johnson	0–5	37.5698	–88.7224	Planted/cultivated	Urban/recreational grasses
C-348801	1780	Johnson	0–19	37.5698	–88.7224	Planted/cultivated	Urban/recreational grasses
C-348562	1780	Johnson	99–149	37.5698	–88.7224	Planted/cultivated	Urban/recreational grasses
C-348785	10408	Kane	0–5	41.8348	–88.3703	Herbaceous upland	Grasslands/herbaceous
C-348768	10408	Kane	0–20	41.8348	–88.3703	Herbaceous upland	Grasslands/herbaceous
C-348892	10408	Kane	60–107	41.8348	–88.3703	Herbaceous upland	Grasslands/herbaceous
C-348780	424	Kankakee	0–5	41.1977	–87.9717	Planted/cultivated	Urban/recreational grasses
C-348668	424	Kankakee	0–20	41.1977	–87.9717	Planted/cultivated	Urban/recreational grasses
C-348887	424	Kankakee	20–31	41.1977	–87.9717	Planted/cultivated	Urban/recreational grasses
C-348782	7952	Kankakee	0–5	41.0257	–87.5682	Planted/cultivated	Row crops
C-348670	7952	Kankakee	0-26	41.0257	–87.5682	Planted/cultivated	Row crops
C-348889	7952	Kankakee	110–154	41.0257	–87.5682	Planted/cultivated	Row crops
C-348777	8616	Kankakee	0–5	41.0359	–88.2486	Planted/cultivated	Row crops
C-348665	8616	Kankakee	0–28	41.0359	–88.2486	Planted/cultivated	Row crops
C-348884	8616	Kankakee	110–120	41.0359	–88.2486	Planted/cultivated	Row crops
C-348626	5800	Knox	0–5	40.8614	–90.4378	Planted/cultivated	Row crops
C-348653	5800	Knox	0–20	40.8614	–90.4378	Planted/cultivated	Row crops
C-348765	5800	Knox	117–150	40.8614	–90.4378	Planted/cultivated	Row crops
C-348620	10152	Knox	0–5	41.0237	–90.0622	Planted/cultivated	Pasture/hay
C-348647	10152	Knox	0–20	41.0237	–90.0622	Planted/cultivated	Pasture/hay
C-348759	10152	Knox	120–150	41.0237	–90.0622	Planted/cultivated	Pasture/hay
C-348774	3240	LaSalle	0–5	41.2671	–88.6948	Planted/cultivated	Row crops
C-348662	3240	LaSalle	0–18	41.2671	–88.6948	Planted/cultivated	Row crops
C-348881	3240	LaSalle	122–135	41.2671	–88.6948	Planted/cultivated	Row crops
C-348774	3240	LaSalle	0–5	41.2671	–88.6948	Planted/cultivated	Row crops
C-348662	3240	LaSalle	0–18	41.2671	–88.6948	Planted/cultivated	Row crops
C-348881	3240	LaSalle	122–135	41.2671	–88.6948	Planted/cultivated	Row crops
C-348773	7336	LaSalle	0–5	41.5197	–89.0827	Forested upland	Mixed forest
C-348661	7336	LaSalle	0–23	41.5197	–89.0827	Forested upland	Mixed forest
C-348880	7336	LaSalle	123–159	41.5197	–89.0827	Forested upland	Mixed forest
C-348791	5032	Lee	0–5	41.7693	–89.235	Planted/cultivated	Row crops
C-348678	5032	Lee	0–20	41.7693	–89.235	Planted/cultivated	Row crops
C-348898	5032	Lee	80–110	41.7693	–89.235	Planted/cultivated	Row crops
C-348792	9128	Lee	0–5	41.8475	–89.0969	Planted/cultivated	Pasture/hay
C-348679	9128	Lee	0–20	41.8475	–89.0969	Planted/cultivated	Pasture/hay
C-348899	9128	Lee	130–155	41.8475	–89.0969	Planted/cultivated	Pasture/hay
C-348586	680	Logan	0–5	40.3111	–89.3168	Planted/cultivated	Row crops
C-348593	680	Logan	0–20	40.3111	–89.3168	Planted/cultivated	Row crops
C-348600	680	Logan	125–140	40.3111	–89.3168	Planted/cultivated	Row crops
C-348609	8872	Logan	0–5	39.9688	–89.3873	Planted/cultivated	Row crops
C-348636	8872	Logan	0–20	39.9688	–89.3873	Planted/cultivated	Row crops
C-348748	8872	Logan	120–157	39.9688	–89.3873	Planted/cultivated	Row crops
C-348911	264	Madison	0–5	38.8895	–89.6857	Planted/cultivated	Row crops
C-348829	264	Madison	0–21	38.8895	–89.6857	Planted/cultivated	Row crops
C-348480	264	Madison	121–158	38.8895	–89.6857	Planted/cultivated	Row crops
C-348406	4084	Marion	0–5	38.7366	–89.1244	Planted/cultivated	Pasture/hay

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Lab no.	Site ID	County	Depth interval (cm)	Latitude	Longitude	Land cover	Land use
C-348816	4084	Marion	0–20	38.7366	–89.1244	Planted/cultivated	Pasture/hay
C-348577	4084	Marion	117–151	38.7366	–89.1244	Planted/cultivated	Pasture/hay
C-348405	5108	Marion	0–5	38.7209	–88.752	Forested upland	Deciduous forest
C-348815	5108	Marion	0–18	38.7209	–88.752	Forested upland	Deciduous forest
C-348576	5108	Marion	121–156	38.7209	–88.752	Forested upland	Deciduous forest
C-348619	1960	Marshall	0–5	41.0609	–89.5918	Planted/cultivated	Row crops
C-348646	1960	Marshall	0–25	41.0609	–89.5918	Planted/cultivated	Row crops
C-348758	1960	Marshall	114–155	41.0609	–89.5918	Planted/cultivated	Row crops
C-348606	6568	McLean	0–5	40.5596	–88.7989	Planted/cultivated	Row crops
C-348633	6568	McLean	0–23	40.5596	–88.7989	Planted/cultivated	Row crops
C-348745	6568	McLean	136–157	40.5596	–88.7989	Planted/cultivated	Row crops
C-348587	6824	McDonough	0–5	40.4299	–90.4483	Planted/cultivated	Pasture/hay
C-348594	6824	McDonough	0-25	40.4299	–90.4483	Planted/cultivated	Pasture/hay
C-348601	6824	McDonough	130–150	40.4299	–90.4483	Planted/cultivated	Pasture/hay
C-348625	12968	McDonough	0–5	40.5208	–90.7135	Barren	Transitional
C-348652	12968	McDonough	0–25	40.5208	–90.7135	Barren	Transitional
C-348764	12968	McDonough	122–159	40.5208	–90.7135	Barren	Transitional
C-348789	2104	McHenry	0–5	42.4228	–88.3066	Herbaceous upland	Grasslands/herbaceous
C-348676	2104	McHenry	0–20	42.4228	–88.3066	Herbaceous upland	Grasslands/herbaceous
C-348896	2104	McHenry	102–154	42.4228	–88.3066	Herbaceous upland	Grasslands/herbaceous
C-348607	10664	McLean	0–5	40.6165	–88.8123	Planted/cultivated	Row crops
C-348634	10664	McLean	0–19	40.6165	–88.8123	Planted/cultivated	Row crops
C-348746	10664	McLean	124–159	40.6165	–88.8123	Planted/cultivated	Row crops
C-348623	3816	Mercer	0–5	41.3091	–91.0038	Planted/cultivated	Pasture/hay
C-348650	3816	Mercer	0–20	41.3091	–91.0038	Planted/cultivated	Pasture/hay
C-348762	3816	Mercer	125–153	41.3091	–91.0038	Planted/cultivated	Pasture/hay
C-348916	1288	Montgomery	0–5	39.2797	–89.6607	Planted/cultivated	Pasture/hay
C-348834	1288	Montgomery	0–18	39.2797	–89.6607	Planted/cultivated	Pasture/hay
C-348485	1288	Montgomery	110–153	39.2797	–89.6607	Planted/cultivated	Pasture/hay
C-348912	7176	Morgan	0–5	39.6541	–90.2838	Forested upland	Mixed forest
C-348830	7176	Morgan	0–25	39.6541	–90.2838	Forested upland	Mixed forest
C-348481	7176	Morgan	121–151	39.6541	–90.2838	Forested upland	Mixed forest
C-348915	9480	Morgan	0–5	39.5418	–90.034	Planted/cultivated	Row crops
C-348833	9480	Morgan	0–25	39.5418	–90.034	Planted/cultivated	Row crops
C-348484	9480	Morgan	124–157	39.5418	–90.034	Planted/cultivated	Row crops
C-348618	3752	Peoria	0–5	40.9175	–89.6396	Planted/cultivated	Row crops
C-348645	3752	Peoria	0–25	40.9175	–89.6396	Planted/cultivated	Row crops
C-348757	3752	Peoria	129–160	40.9175	–89.6396	Planted/cultivated	Row crops
C-348612	10248	Pike	0–5	39.7917	–90.6572	Planted/cultivated	Row crops
C-348639	10248	Pike	0–23	39.7917	–90.6572	Planted/cultivated	Row crops
C-348751	10248	Pike	120–153	39.7917	–90.6572	Planted/cultivated	Row crops
C-348392	13044	Pope	0–5	37.5943	–88.4315	Forested upland	Deciduous forest
C-348802	13044	Pope	0–2	37.5943	–88.4315	Forested upland	Deciduous forest
C-348563	13044	Pope	89–115	37.5943	–88.4315	Forested upland	Deciduous forest
C-348388	2804	Randolph	0–5	37.9019	–89.8154	Planted/cultivated	Urban/recreational grasses
C-348798	2804	Randolph	0–19	37.9019	–89.8154	Planted/cultivated	Urban/recreational grasses
C-348559	2804	Randolph	124–151	37.9019	–89.8154	Planted/cultivated	Urban/recreational grasses
C-348389	8200	Randolph	0–5	38.062	–90.0358	Planted/cultivated	Row crops
C-348799	8200	Randolph	0–20	38.062	–90.0358	Planted/cultivated	Row crops
C-348560	8200	Randolph	120–160	38.062	–90.0358	Planted/cultivated	Row crops
C-348402	1516	Richland	0–5	38.6902	–87.9456	Planted/cultivated	Pasture/hay
C-348812	1516	Richland	0–18	38.6902	–87.9456	Planted/cultivated	Pasture/hay
C-348573	1516	Richland	123–160	38.6902	–87.9456	Planted/cultivated	Pasture/hay
C-348394	9972	Saline	0–5	37.666	–88.5551	Planted/cultivated	Pasture/hay
C-348804	9972	Saline	0–22	37.6666	–88.5551	Planted/cultivated	Pasture/hay
C-348565	9972	Saline	130–159	37.6666	–88.5551	Planted/cultivated	Pasture/hay
C-348610	11944	Sangamon	0–5	39.7973	–89.7578	Planted/cultivated	Pasture/hay
C-348637	11944	Sangamon	0–23	39.7973	–89.7578	Planted/cultivated	Pasture/hay

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Lab no.	Site ID	County	Depth interval (cm)	Latitude	Longitude	Land cover	Land use
C-348749	11944	Sangamon	126–153	39.7973	–89.7578	Planted/cultivated	Pasture/hay
C-348616	2728	Schuyler	0–5	40.2298	–90.8907	Herbaceous upland	Grasslands/herbaceous
C-348643	2728	Schuyler	0–20	40.2298	–90.8907	Herbaceous upland	Grasslands/herbaceous
C-348755	2728	Schuyler	131–159	40.2298	–90.8907	Herbaceous upland	Grasslands/herbaceous
C-348909	4104	St. Clair	0–5	38.506	–89.756	Planted/cultivated	Row crops
C-348827	4104	St. Clair	0–20	38.506	–89.756	Planted/cultivated	Row crops
C-348478	4104	St. Clair	117–157	38.506	–89.756	Planted/cultivated	Row crops
C-348621	4008	Stephenson	0–5	41.211	–90.197	Planted/cultivated	Row crops
C-348648	4008	Stephenson	0–20	41.211	–90.197	Planted/cultivated	Row crops
C-348760	4008	Stephenson	121–153	41.211	–90.197	Planted/cultivated	Row crops
C-348793	5096	Stephenson	0–5	42.241	–89.6503	Planted/cultivated	Row crops
C-348680	5096	Stephenson	0–25	42.241	–89.6503	Planted/cultivated	Row crops
C-348900	5096	Stephenson	132–160	42.241	–89.6503	Planted/cultivated	Row crops
C-348603	9192	Stephenson	0–5	42.4849	–89.703	Planted/cultivated	Row crops
C-348630	9192	Stephenson	0–17	42.4849	–89.703	Planted/cultivated	Row crops
C-348742	9192	Stephenson	118–147	42.4849	–89.703	Planted/cultivated	Row crops
C-348617	10920	Tazewell	0–5	40.5935	–89.6424	Forested upland	Deciduous forest
C-348644	10920	Tazewell	0–12	40.5935	–89.6424	Forested upland	Deciduous forest
C-348756	10920	Tazewell	123–157	40.5935	–89.6424	Forested upland	Deciduous forest
C-348401	9204	Wayne	0–5	38.501	–88.4292	Planted/cultivated	Pasture/hay
C-348811	9204	Wayne	0–9	38.501	–88.4292	Planted/cultivated	Pasture/hay
C-348572	9204	Wayne	119–153	38.501	–88.4292	Planted/cultivated	Pasture/hay
C-348400	12020	White	0–5	38.1839	–88.3259	Planted/cultivated	Row crops
C-348810	12020	White	0–20	38.1839	–88.3259	Planted/cultivated	Row crops
C-348571	12020	White	119–150	38.1839	–88.3259	Planted/cultivated	Row crops
C-348398	5356	White	0–5	38.2136	–88.1738	Planted/cultivated	Row crops
C-348808	5356	White	0–18	38.2136	–88.1738	Planted/cultivated	Row crops
C-348569	5356	White	117–150	38.2136	–88.1738	Planted/cultivated	Row crops
C-348771	936	Whiteside	0–5	41.6734	–89.9209	Planted/cultivated	Urban/recreational grasses
C-348659	936	Whiteside	0–20	41.6734	–89.9209	Planted/cultivated	Urban/recreational grasses
C-348878	936	Whiteside	121–150	41.6734	–89.9209	Planted/cultivated	Urban/recreational grasses
C-348627	7080	Whiteside	0–5	41.5848	–90.1458	Planted/cultivated	Row crops
C-348654	7080	Whiteside	0–20	41.5848	–90.1458	Planted/cultivated	Row crops
C-348766	7080	Whiteside	125–161	41.5848	–90.1458	Planted/cultivated	Row crops
C-348783	12712	Will	0–5	41.6085	–88.1795	Herbaceous upland	Grasslands/herbaceous
C-348671	12712	Will	0–8	41.6085	–88.1795	Herbaceous upland	Grasslands/herbaceous
C-348890	12712	Will	18–29	41.6085	–88.1795	Herbaceous upland	Grasslands/herbaceous
C-348395	5876	Williamson	0–5	37.762	–88.7798	Planted/cultivated	Pasture/hay
C-348805	5876	Williamson	0–19	37.762	–88.7798	Planted/cultivated	Pasture/hay
C-348566	5876	Williamson	122–160	37.762	–88.7798	Planted/cultivated	Pasture/hay
C-348390	6900	Williamson	0–5	37.6374	–89.0542	Forested upland	Mixed forest
C-348800	6900	Williamson	0–18	37.6374	–89.0542	Forested upland	Mixed forest
C-348561	6900	Williamson	89–125	37.6374	–89.0542	Forested upland	Mixed forest

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Lab no.	Site ID	County	Al_2O_3 (wt%)	Fe_2O_3 (wt%)	MgO (wt%)	CaO (wt%)	NaO (wt%)	K_2O (wt%)	TiO_2 (wt%)	SO_3 (wt%)	P_2O_5 (wt%)
C-348582	9896	Adams	10.28	4.68	1.04	0.97	1.20	2.39	0.65	1.62	0.15
C-348589	9896	Adams	7.31	2.25	0.46	0.84	1.15	1.93	0.58	0.07	0.17
C-348596	9896	Adams	7.14	2.15	0.45	0.90	1.15	1.90	0.57	0.07	0.18
C-348613	12200	Adams	8.24	2.57	0.73	1.76	1.01	1.88	0.52	1.29	0.18
C-348640	12200	Adams	8.86	2.85	0.63	1.50	1.08	1.99	0.50	0.07	0.16
C-348752	12200	Adams	11.11	4.48	1.01	0.91	1.17	2.07	0.57	0.05	0.15
C-348387	13128	Alexander	9.31	2.59	0.88	1.34	1.39	2.36	0.38	0.96	0.26
C-348797	13128	Alexander	9.07	2.50	0.86	1.20	1.27	2.10	0.42	0.12	0.22
C-348558	13128	Alexander	15.11	5.26	2.22	2.27	0.55	2.43	0.67	0.12	0.16
C-348407	11252	Bond	8.67	3.13	0.78	1.04	0.97	2.01	0.48	1.21	0.19
C-348817	11252	Bond	8.42	2.96	0.73	0.91	0.90	1.89	0.52	0.07	0.16
C-348578	11252	Bond	9.29	3.20	0.73	0.63	1.02	1.86	0.63	0.05	0.06
C-348790	6200	Boone	8.01	2.70	1.09	1.47	0.81	1.78	0.45	1.12	0.14
C-348677	6200	Boone	8.10	2.76	0.99	1.33	0.82	1.77	0.43	0.10	0.12
C-348897	6200	Boone	7.82	3.65	1.46	1.57	0.65	1.55	0.32	0.05	0.09
C-348772	6056	Bureau	6.42	2.30	3.15	5.53	0.74	2.01	0.32	0.79	0.14
C-348660	6056	Bureau	6.86	2.43	3.42	6.00	0.75	2.07	0.32	0.17	0.14
C-348879	6056	Bureau	5.10	1.94	3.35	6.02	0.63	1.86	0.18	0.07	0.07
C-348913	3080	Calhoun	7.23	1.77	0.36	0.90	1.23	1.96	0.48	1.21	0.14
C-348831	3080	Calhoun	7.29	1.82	0.35	0.74	1.24	2.02	0.52	0.05	0.13
C-348482	3080	Calhoun	10.07	4.20	0.85	0.85	1.28	2.16	0.52	0.05	0.14
C-348611	7848	Cass	8.41	2.77	0.70	0.99	0.90	2.01	0.52	1.29	0.20
C-348638	7848	Cass	8.84	3.03	0.61	0.92	0.93	2.12	0.47	0.10	0.18
C-348750	7848	Cass	8.86	3.86	3.83	5.08	1.01	1.96	0.45	0.05	0.12
C-348583	2472	Champaign	11.28	4.92	1.43	0.76	0.86	3.02	0.60	1.50	0.14
C-348590	2472	Champaign	10.07	3.30	1.09	1.02	0.75	2.11	0.55	0.12	0.17
C-348597	2472	Champaign	9.27	3.00	1.01	0.94	0.71	2.02	0.52	0.12	0.17
C-348604	7592	Champaign	9.16	3.17	0.86	0.90	0.82	2.07	0.55	1.37	0.19
C-348631	7592	Champaign	8.93	3.12	0.70	0.73	0.81	2.05	0.45	0.12	0.15
C-348743	7592	Champaign	8.29	3.26	4.24	5.36	0.78	2.52	0.38	0.07	0.06
C-348605	9640	Champaign	8.46	2.67	0.81	0.78	0.80	2.29	0.50	1.25	0.21
C-348632	9640	Champaign	8.25	2.59	0.66	0.62	0.78	2.29	0.43	0.10	0.17
C-348744	9640	Champaign	12.11	4.83	1.56	0.48	0.62	2.68	0.50	0.05	0.07
C-348918	2036	Christian	8.50	2.87	0.61	1.52	0.89	1.99	0.43	1.08	0.24
C-348836	2036	Christian	8.82	3.00	0.65	1.44	0.93	2.12	0.48	0.12	0.23
C-348487	2036	Christian	10.31	4.85	0.93	0.90	1.16	2.34	0.53	0.05	0.16
C-348919	6132	Christian	9.07	6.44	0.58	1.11	0.89	1.54	0.42	1.04	0.23
C-348837	6132	Christian	10.94	12.10	0.65	1.62	1.05	1.48	0.50	0.90	0.30
C-348488	6132	Christian	9.97	3.19	0.83	0.99	1.21	1.98	0.53	0.02	0.13
C-348920	10228	Christian	6.99	2.15	0.41	0.73	1.05	1.90	0.43	1.08	0.21
C-348838	10228	Christian	6.82	2.19	0.43	0.74	1.00	1.69	0.45	0.10	0.24
C-348489	10228	Christian	11.16	4.42	1.09	0.83	1.08	2.24	0.53	0.05	0.14
C-348908	492	Clark	7.67	2.49	0.50	0.91	1.09	2.04	0.43	1.08	0.13
C-348826	492	Clark	8.29	2.69	0.50	0.80	1.12	1.92	0.52	0.05	0.13
C-348477	492	Clark	10.84	4.16	0.86	0.83	1.20	2.16	0.52	0.02	0.14
C-348923	4588	Clark	7.46	2.20	0.45	0.87	0.98	1.77	0.45	1.12	0.13
C-348841	4588	Clark	7.61	2.27	0.46	0.94	1.01	1.81	0.48	0.12	0.13
C-348492	4588	Clark	10.60	3.62	0.71	0.81	1.06	1.82	0.48	0.07	0.08
C-348922	11500	Clark	7.01	2.49	0.40	0.56	0.81	1.76	0.43	1.08	0.15
C-348840	11500	Clark	7.23	2.56	0.41	0.50	0.82	1.81	0.48	0.05	0.12
C-348491	11500	Clark	8.97	2.76	0.58	0.55	0.82	1.64	0.45	0.02	0.04
C-348403	1012	Clay	7.69	2.47	0.45	0.42	0.70	1.47	0.38	0.96	0.18
C-348813	1012	Clay	7.71	2.66	0.40	0.38	0.69	1.39	0.43	0.05	0.14
C-348574	1012	Clay	7.67	3.02	3.33	5.22	0.86	1.93	0.38	0.10	0.09
C-348904	10996	Clinton	6.91	2.42	0.61	2.77	0.98	1.63	0.38	0.96	0.31
C-348822	10996	Clinton	7.69	2.86	0.68	3.37	1.08	1.88	0.45	0.15	0.34

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Lab no.	Site ID	County	Al_2O_3 (wt%)	Fe_2O_3 (wt%)	MgO (wt%)	CaO (wt%)	NaO (wt%)	K_2O (wt%)	TiO_2 (wt%)	SO_3 (wt%)	P_2O_5 (wt%)
C-348473	10996	Clinton	11.58	3.85	0.99	0.92	1.35	2.29	0.55	0.07	0.16
C-348906	3060	Coles	8.63	3.00	0.70	0.66	0.82	2.11	0.45	1.12	0.17
C-348824	3060	Coles	9.09	3.13	0.73	0.64	0.84	1.98	0.50	0.07	0.18
C-348475	3060	Coles	10.96	4.19	3.86	4.59	0.70	3.60	0.47	0.05	0.08
C-348921	7156	Coles	4.89	1.33	0.91	1.59	0.74	1.71	0.18	0.46	0.07
C-348839	7156	Coles	5.01	1.44	0.98	1.64	0.74	1.75	0.22	0.07	0.06
C-348490	7156	Coles	5.52	1.70	1.11	1.90	0.75	1.80	0.23	0.12	0.05
C-348786	1448	Cook	9.58	3.58	1.72	2.34	0.65	2.35	0.40	1.00	0.20
C-348673	1448	Cook	10.39	3.83	1.59	2.06	0.74	2.25	0.40	0.22	0.19
C-348893	1448	Cook	11.64	4.42	4.23	7.12	0.55	1.82	0.40	0.15	0.08
C-348784	5544	Cook	8.29	2.97	0.76	0.62	0.78	2.27	0.40	1.00	0.07
C-348672	5544	Cook	8.01	2.87	0.76	0.64	0.77	2.40	0.37	0.05	0.06
C-348891	5544	Cook	10.99	4.68	4.64	6.17	0.62	1.61	0.45	0.10	0.07
C-348788	10296	Cook	9.80	3.49	1.01	1.02	0.74	2.23	0.47	1.17	0.16
C-348675	10296	Cook	10.13	3.72	0.96	1.05	0.78	2.16	0.48	0.12	0.15
C-348895	10296	Cook	11.94	4.49	5.65	9.04	0.61	1.80	0.42	0.07	0.08
C-348404	8684	Crawford	7.48	2.87	0.58	1.04	0.85	1.80	0.47	1.17	0.34
C-348814	8684	Crawford	7.54	2.82	0.53	0.90	0.81	1.57	0.48	0.07	0.29
C-348575	8684	Crawford	7.37	2.69	0.58	0.53	0.82	1.74	0.53	0.05	0.06
C-348682	4776	Dewitt	8.82	3.09	0.75	1.18	0.93	2.24	0.50	1.25	0.40
C-348655	4776	Dewitt	8.75	3.09	0.70	1.09	0.92	2.25	0.48	0.12	0.47
C-348767	4776	Dewitt	8.90	3.43	4.08	5.96	0.63	2.39	0.38	0.07	0.07
C-348818	3496	Douglas	8.76	3.00	0.70	0.71	0.84	2.14	0.45	1.12	0.27
C-348819	3496	Douglas	8.93	3.07	0.71	0.70	0.82	1.87	0.45	0.07	0.25
C-348579	3496	Douglas	6.29	2.22	0.60	0.62	0.82	1.95	0.28	0.02	0.07
C-348905	11688	Douglas	8.44	2.85	0.66	1.01	0.86	1.65	0.43	1.08	0.21
C-348823	11688	Douglas	8.73	3.03	0.68	1.05	0.88	2.11	0.47	0.10	0.22
C-348474	11688	Douglas	10.18	4.00	2.84	3.05	0.86	3.11	0.45	0.05	0.09
C-348907	6672	Edgar	5.38	2.83	0.70	2.07	0.50	1.55	0.28	0.71	0.73
C-348825	6672	Edgar	6.37	2.46	0.68	1.72	0.61	1.69	0.38	0.35	0.76
C-348476	6672	Edgar	8.80	3.39	1.87	1.90	0.84	2.48	0.33	0.05	0.08
C-348585	1704	Fulton	9.60	3.99	1.09	0.99	1.06	1.87	0.58	1.46	0.18
C-348592	1704	Fulton	7.56	2.23	0.48	0.64	1.15	1.92	0.63	0.07	0.14
C-348599	1704	Fulton	7.27	2.15	0.46	0.62	1.11	1.88	0.60	0.07	0.16
C-348914	5384	Greene	7.42	2.52	0.46	0.78	0.88	1.90	0.42	1.04	0.41
C-348832	5384	Greene	7.25	2.53	0.40	0.53	0.74	1.82	0.43	0.07	0.33
C-348483	5384	Greene	12.56	5.09	1.48	0.50	0.61	3.17	0.50	0.05	0.06
C-348775	6312	Grundy	8.97	3.03	0.95	1.36	0.85	1.78	0.48	1.21	0.20
C-348663	6312	Grundy	8.63	2.89	0.83	1.16	0.82	1.69	0.45	0.12	0.21
C-348882	6312	Grundy	5.80	2.30	6.28	10.77	0.84	1.81	0.23	0.07	0.08
C-348776	11432	Grundy	9.46	3.19	0.88	1.08	0.88	1.94	0.47	1.17	0.33
C-348664	11432	Grundy	10.22	3.52	0.98	1.13	0.90	2.33	0.48	0.12	0.34
C-348883	11432	Grundy	12.35	5.13	1.38	0.91	0.97	2.93	0.53	0.05	0.16
C-348397	7924	Hamilton	7.08	2.52	0.43	0.53	0.71	1.72	0.47	1.17	0.28
C-348807	7924	Hamilton	8.10	2.77	0.46	0.50	0.75	1.74	0.60	0.10	0.19
C-348568	7924	Hamilton	10.90	3.86	0.90	0.60	1.20	2.12	0.73	0.07	0.10
C-348615	8104	Hancock	8.12	2.22	0.68	1.32	1.01	1.84	0.52	1.29	0.35
C-348642	8104	Hancock	7.99	2.33	0.63	1.40	0.97	1.83	0.45	0.12	0.41
C-348754	8104	Hancock	10.82	4.72	0.65	0.46	0.40	1.07	0.45	0.05	0.03
C-348624	1256	Henderson	5.04	1.36	0.40	1.45	1.02	1.33	0.22	0.54	0.10
C-348651	1256	Henderson	4.80	1.26	0.30	1.06	1.00	1.29	0.15	0.07	0.08
C-348763	1256	Henderson	4.80	1.26	0.28	0.64	1.06	1.31	0.15	<0.03	0.03
C-348778	4520	Iroquois	8.93	3.20	0.95	0.88	0.65	2.25	0.43	1.08	0.16
C-348666	4520	Iroquois	9.41	3.46	0.96	0.87	0.65	2.42	0.43	0.12	0.14
C-348885	4520	Iroquois	11.28	4.58	4.31	7.37	0.47	2.99	0.48	0.10	0.06
C-348781	9744	Iroquois	8.42	2.59	0.66	0.83	0.86	1.94	0.42	1.04	0.21
C-348669	9744	Iroquois	8.46	2.63	0.65	0.81	0.85	2.01	0.40	0.10	0.20
C-348888	9744	Iroquois	9.18	3.86	2.42	3.72	1.01	2.43	0.37	0.07	0.11

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Lab no.	Site ID	County	Al_2O_3 (wt%)	Fe_2O_3 (wt%)	MgO (wt%)	CaO (wt%)	NaO (wt%)	K_2O (wt%)	TiO_2 (wt%)	SO_3 (wt%)	P_2O_5 (wt%)
C-348396	3828	Jefferson	7.35	2.73	0.38	0.57	0.96	1.61	0.48	1.21	0.20
C-348806	3828	Jefferson	7.44	2.47	0.38	0.52	0.92	1.52	0.53	0.05	0.12
C-348567	3828	Jefferson	9.86	3.49	0.70	0.57	0.94	1.76	0.65	0.07	0.08
C-348794	8168	Jo Daviess	8.80	3.05	1.49	2.03	0.93	1.83	0.48	1.21	0.30
C-348681	8168	Jo Daviess	9.27	3.12	1.44	1.92	1.01	2.11	0.48	0.10	0.33
C-348901	8168	Jo Daviess	13.75	5.18	2.57	2.20	0.43	1.81	0.53	0.07	0.26
C-348391	1780	Johnson	8.50	3.06	0.50	0.34	0.78	1.95	0.53	1.33	0.12
C-348801	1780	Johnson	8.50	2.96	0.50	0.32	0.73	1.80	0.62	0.07	0.09
C-348562	1780	Johnson	8.97	3.23	0.76	0.64	1.17	1.94	0.63	0.05	0.06
C-348785	10408	Kane	8.67	2.96	0.76	0.92	0.94	2.08	0.50	1.25	0.40
C-348768	10408	Kane	8.84	3.00	0.78	0.85	0.97	2.14	0.52	0.12	0.39
C-348892	10408	Kane	10.07	5.11	6.98	8.53	0.54	2.02	0.42	0.10	0.11
C-348780	424	Kankakee	8.22	3.15	1.06	1.45	0.77	1.80	0.42	1.04	0.15
C-348668	424	Kankakee	8.58	3.29	0.96	1.19	0.78	1.84	0.40	0.10	0.14
C-348887	424	Kankakee	10.77	4.72	1.53	1.34	0.70	1.95	0.42	0.07	0.10
C-348782	7952	Kankakee	4.04	1.90	0.30	0.67	0.67	1.24	0.15	0.37	0.11
C-348670	7952	Kankakee	4.51	2.16	0.32	0.73	0.73	1.35	0.15	0.05	0.14
C-348889	7952	Kankakee	3.66	0.44	0.15	0.35	0.73	1.39	0.05	<0.03	0.01
C-348777	8616	Kankakee	8.76	3.33	1.64	2.27	0.58	1.70	0.42	1.04	0.18
C-348665	8616	Kankakee	8.92	3.35	1.56	2.01	0.59	2.30	0.38	0.12	0.15
C-348884	8616	Kankakee	10.99	4.96	5.22	6.16	0.46	2.53	0.47	0.10	0.06
C-348626	5800	Knox	8.41	2.60	0.68	1.09	1.02	1.90	0.52	1.29	0.18
C-348653	5800	Knox	9.48	3.00	0.65	0.95	1.09	2.04	0.50	0.07	0.14
C-348765	5800	Knox	10.54	4.25	1.03	0.98	1.15	1.98	0.53	0.05	0.15
C-348620	10152	Knox	11.62	4.78	2.84	10.35	0.38	2.65	0.52	1.29	0.34
C-348647	10152	Knox	12.01	4.63	2.42	9.28	0.35	2.60	0.50	1.67	0.26
C-348759	10152	Knox	11.07	4.35	1.87	1.82	0.96	1.94	0.53	0.17	0.09
C-348774	3240	LaSalle	11.03	4.12	1.62	1.72	0.73	2.36	0.53	1.33	0.15
C-348662	3240	LaSalle	10.98	4.08	1.72	1.96	0.73	2.57	0.52	0.10	0.14
C-348881	3240	LaSalle	10.16	4.36	6.42	8.56	0.46	2.89	0.42	0.12	0.07
C-348773	7336	LaSalle	8.24	2.56	1.81	2.77	1.02	1.87	0.43	1.08	0.16
C-348661	7336	LaSalle	8.39	2.62	1.84	2.70	1.05	1.89	0.43	0.12	0.16
C-348880	7336	LaSalle	6.54	2.17	2.40	4.50	0.81	1.66	0.28	0.10	0.13
C-348791	5032	Lee	7.84	2.53	2.04	2.83	0.73	2.27	0.38	0.96	0.26
C-348678	5032	Lee	8.48	2.73	1.53	1.97	0.77	2.34	0.40	0.10	0.30
C-348898	5032	Lee	7.63	1.93	1.64	2.03	0.50	2.19	0.28	0.05	0.06
C-348792	9128	Lee	8.86	2.93	0.78	0.95	0.89	1.80	0.47	1.17	0.18
C-348679	9128	Lee	8.80	2.95	0.75	0.84	0.90	1.70	0.47	0.12	0.15
C-348899	9128	Lee	6.93	2.65	3.91	5.67	0.73	1.82	0.27	0.05	0.07
C-348586	680	Logan	8.59	2.83	0.73	1.33	0.92	1.99	0.55	1.37	0.18
C-348593	680	Logan	8.46	2.80	0.70	0.87	0.86	1.93	0.53	0.10	0.14
C-348600	680	Logan	9.29	3.76	2.57	3.16	1.08	2.16	0.53	0.10	0.15
C-348609	8872	Logan	7.93	2.45	0.60	0.80	1.04	2.24	0.55	1.37	0.22
C-348636	8872	Logan	8.08	2.49	0.50	0.53	1.04	2.24	0.48	0.07	0.16
C-348748	8872	Logan	11.01	4.55	0.99	0.69	0.98	2.14	0.57	0.05	0.12
C-348911	264	Madison	6.69	2.73	0.40	1.23	1.06	1.77	0.40	1.00	0.55
C-348829	264	Madison	6.74	2.65	0.41	1.30	1.06	1.72	0.42	0.15	0.52
C-348480	264	Madison	10.18	3.09	0.70	0.90	1.27	2.18	0.53	0.05	0.10
C-348406	4084	Marion	5.86	2.25	0.50	1.55	0.84	1.47	0.37	0.92	0.66
C-348816	4084	Marion	6.82	2.43	0.38	0.87	0.93	1.54	0.45	0.12	0.30
C-348577	4084	Marion	8.27	2.80	0.65	0.78	1.09	1.75	0.55	0.10	0.08
C-348405	5108	Marion	7.18	2.02	0.38	0.35	0.88	1.98	0.52	1.29	0.10
C-348815	5108	Marion	7.57	2.12	0.38	0.22	0.88	1.82	0.58	0.05	0.07
C-348576	5108	Marion	7.40	2.43	0.55	0.38	0.80	1.65	0.57	0.05	0.03
C-348619	1960	Marshall	8.93	2.97	0.85	1.16	0.85	1.92	0.55	1.37	0.21
C-348646	1960	Marshall	9.05	3.00	0.71	1.01	0.86	1.92	0.48	0.10	0.18
C-348758	1960	Marshall	10.73	4.48	1.51	1.66	1.15	2.06	0.52	0.05	0.12
C-348606	6568	McLean	9.46	3.60	0.88	0.90	0.92	2.34	0.55	1.37	0.22

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C-348633	6568	McLean	8.92	3.32	0.71	0.71	0.88	2.31	0.43	0.10	0.20
C-348745	6568	McLean	11.83	4.53	1.26	0.66	0.80	2.41	0.50	0.05	0.06
C-348587	6824	McDonough	8.03	2.69	0.66	1.13	0.89	1.80	0.53	1.33	0.18
C-348594	6824	McDonough	8.82	2.93	0.71	0.99	0.94	1.94	0.58	0.12	0.16
C-348601	6824	McDonough	9.39	3.25	0.90	1.01	1.05	1.67	0.58	0.05	0.11
C-348625	12968	McDonough	7.03	2.30	0.55	0.99	1.02	1.83	0.50	1.25	0.25
C-348652	12968	McDonough	7.73	2.56	0.50	0.80	1.04	1.93	0.48	0.10	0.19
C-348764	12968	McDonough	10.81	3.88	0.99	0.92	1.13	1.96	0.55	0.05	0.13
C-348789	2104	McHenry	9.24	3.56	1.14	1.09	0.59	1.94	0.45	1.12	0.14
C-348676	2104	McHenry	9.60	3.63	1.03	0.85	0.62	2.24	0.43	0.10	0.13
C-348896	2104	McHenry	8.48	3.20	8.69	15.11	0.46	1.83	0.35	0.07	0.08
C-348607	10664	McLean	9.29	3.30	0.88	1.22	0.80	1.99	0.53	1.33	0.18
C-348634	10664	McLean	9.79	3.45	0.76	0.98	0.84	2.08	0.48	0.07	0.14
C-348746	10664	McLean	7.37	3.05	4.18	5.83	0.65	2.12	0.30	0.07	0.06
C-348623	3816	Mercer	7.82	2.32	0.51	1.01	1.35	1.96	0.53	1.33	0.16
C-348650	3816	Mercer	8.16	2.36	0.45	0.91	1.40	2.05	0.50	0.07	0.13
C-348762	3816	Mercer	9.96	3.32	0.88	1.25	1.59	2.00	0.47	0.05	0.12
C-348916	1288	Montgomery	6.50	1.74	0.41	1.29	0.88	1.67	0.38	0.96	0.22
C-348834	1288	Montgomery	6.54	1.82	0.36	1.05	0.89	1.64	0.42	0.07	0.18
C-348485	1288	Montgomery	10.62	3.92	0.80	0.69	0.84	1.65	0.50	0.05	0.05
C-348912	7176	Morgan	6.50	1.97	0.38	0.77	0.86	1.89	0.42	1.04	0.10
C-348830	7176	Morgan	6.95	2.13	0.38	0.56	0.93	2.07	0.48	0.05	0.09
C-348481	7176	Morgan	9.77	4.15	0.78	0.50	0.65	1.94	0.37	0.05	0.04
C-348915	9480	Morgan	8.84	2.86	0.58	0.63	1.00	2.31	0.50	1.25	0.11
C-348833	9480	Morgan	8.92	2.97	0.60	0.57	0.94	2.21	0.52	0.05	0.09
C-348484	9480	Morgan	10.35	3.92	0.80	0.80	1.24	2.27	0.57	0.02	0.13
C-348618	3752	Peoria	8.67	3.02	0.75	0.80	0.82	1.93	0.53	1.33	0.24
C-348645	3752	Peoria	9.33	3.22	0.66	0.67	0.89	2.05	0.50	0.10	0.20
C-348757	3752	Peoria	8.10	2.99	4.89	6.98	0.82	2.37	0.33	0.07	0.08
C-348612	10248	Pike	7.16	2.15	0.50	1.37	1.17	2.25	0.50	1.25	0.41
C-348639	10248	Pike	6.50	1.93	0.38	0.97	1.06	2.04	0.38	0.07	0.32
C-348751	10248	Pike	9.90	3.79	0.73	0.81	1.24	2.24	0.55	0.02	0.13
C-348392	13044	Pope	6.40	1.94	0.35	0.85	0.74	1.65	0.42	1.04	0.11
C-348802	13044	Pope	4.00	1.10	0.33	3.51	0.38	0.84	0.28	0.27	0.15
C-348563	13044	Pope	8.92	3.37	0.78	0.60	1.13	1.92	0.60	0.05	0.06
C-348388	2804	Randolph	6.80	1.62	0.32	0.48	1.12	2.04	0.47	1.17	0.06
C-348798	2804	Randolph	6.95	1.64	0.32	0.42	1.08	1.92	0.53	0.05	0.04
C-348559	2804	Randolph	10.47	3.32	1.09	1.19	1.42	2.07	0.58	0.07	0.10
C-348389	8200	Randolph	7.39	1.84	0.41	1.25	1.20	2.17	0.45	1.12	0.45
C-348799	8200	Randolph	7.46	1.80	0.40	1.20	1.17	2.00	0.52	0.07	0.36
C-348560	8200	Randolph	10.14	3.95	0.99	0.80	1.16	2.07	0.57	0.05	0.17
C-348402	1516	Richland	6.91	2.60	0.41	0.59	0.89	1.57	0.43	1.08	0.25
C-348812	1516	Richland	7.22	2.59	0.40	0.55	0.89	1.48	0.52	0.05	0.15
C-348573	1516	Richland	8.03	2.70	0.60	0.62	0.85	1.55	0.57	0.05	0.07
C-348394	9972	Saline	6.40	2.43	0.45	0.92	0.71	1.67	0.45	1.12	0.27
C-348804	9972	Saline	7.10	2.69	0.41	0.73	0.75	1.67	0.57	0.10	0.17
C-348565	9972	Saline	9.24	3.36	0.80	0.71	1.21	1.95	0.68	0.05	0.10
C-348610	11944	Sangamon	7.61	2.45	0.55	0.76	0.98	2.05	0.53	1.33	0.17
C-348637	11944	Sangamon	8.31	2.72	0.50	0.60	1.09	2.25	0.47	0.07	0.14
C-348749	11944	Sangamon	9.20	3.50	3.05	3.85	1.04	2.40	0.50	0.07	0.11
C-348616	2728	Schuyler	7.54	2.16	0.51	0.81	1.09	1.89	0.55	1.37	0.11
C-348643	2728	Schuyler	7.76	2.49	0.45	0.70	1.12	1.96	0.52	0.07	0.10
C-348755	2728	Schuyler	10.22	3.85	0.91	0.78	1.12	1.98	0.55	0.05	0.11
C-348909	4104	St. Clair	7.56	2.20	0.50	1.20	1.05	2.02	0.43	1.08	0.36
C-348827	4104	St. Clair	7.80	2.35	0.51	1.30	1.08	1.92	0.47	0.17	0.37
C-348478	4104	St. Clair	11.16	4.39	1.06	0.97	1.21	2.23	0.52	0.07	0.21
C-348621	4008	Stephenson	9.20	3.10	0.81	1.06	0.97	1.88	0.55	1.37	0.19
C-348648	4008	Stephenson	8.65	2.95	0.65	0.80	0.89	1.74	0.45	0.10	0.13

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Lab no.	Site ID	County	Al_2O_3 (wt%)	Fe_2O_3 (wt%)	MgO (wt%)	CaO (wt%)	NaO (wt%)	K_2O (wt%)	TiO_2 (wt%)	SO_3 (wt%)	P_2O_5 (wt%)
C-348760	4008	Stephenson	10.96	4.20	1.01	0.90	1.09	1.96	0.52	0.05	0.13
C-348793	5096	Stephenson	9.20	3.17	1.09	1.29	0.93	1.75	0.50	1.25	0.18
C-348680	5096	Stephenson	9.46	3.25	1.11	1.27	0.93	1.95	0.50	0.10	0.16
C-348900	5096	Stephenson	7.73	3.19	4.23	5.51	0.90	1.78	0.35	0.07	0.11
C-348603	9192	Stephenson	8.73	2.83	1.16	1.52	0.94	2.06	0.52	1.29	0.30
C-348630	9192	Stephenson	8.93	2.86	0.99	1.30	0.97	2.08	0.45	0.15	0.27
C-348742	9192	Stephenson	17.08	8.55	1.43	0.70	0.24	1.53	0.57	0.05	0.13
C-348617	10920	Tazewell	5.57	2.32	2.06	3.65	0.71	1.57	0.23	0.58	0.14
C-348644	10920	Tazewell	5.93	2.63	2.25	4.16	0.77	1.66	0.22	0.15	0.13
C-348756	10920	Tazewell	6.12	2.10	1.08	1.61	0.81	1.63	0.27	0.05	0.08
C-348401	9204	Wayne	5.78	1.77	0.30	0.57	0.77	1.34	0.40	1.00	0.21
C-348811	9204	Wayne	5.48	1.60	0.32	0.62	0.70	1.21	0.43	0.12	0.25
C-348572	9204	Wayne	8.24	2.82	0.53	0.38	0.86	1.48	0.55	0.10	0.05
C-348400	12020	White	8.76	3.43	0.55	1.65	1.20	2.43	0.52	1.29	0.38
C-348810	12020	White	7.31	2.55	0.43	0.97	0.97	1.83	0.48	0.07	0.24
C-348571	12020	White	9.56	3.62	4.18	7.51	0.93	2.29	0.53	0.12	0.13
C-348398	5356	White	9.67	3.98	0.71	0.46	0.77	2.24	0.50	1.25	0.24
C-348808	5356	White	9.92	4.00	0.70	0.46	0.73	2.13	0.57	0.07	0.17
C-348569	5356	White	9.31	3.49	0.70	0.36	0.80	2.01	0.62	0.05	0.08
C-348771	936	Whiteside	5.80	2.83	2.29	4.18	0.78	1.30	0.28	0.71	0.18
C-348659	936	Whiteside	7.40	3.76	2.14	3.93	0.97	1.51	0.35	0.12	0.20
C-348878	936	Whiteside	7.05	2.77	1.38	2.52	1.00	1.49	0.35	0.22	0.14
C-348627	7080	Whiteside	9.07	3.92	1.08	1.25	0.84	1.87	0.47	1.17	0.22
C-348654	7080	Whiteside	10.16	4.46	1.06	1.19	0.90	2.01	0.45	0.10	0.22
C-348766	7080	Whiteside	8.97	4.13	0.96	1.09	1.01	1.88	0.40	0.02	0.13
C-348783	12712	Will	7.59	3.12	3.98	5.53	0.73	1.55	0.38	0.96	0.16
C-348671	12712	Will	7.84	3.13	3.60	4.94	0.74	1.77	0.40	0.12	0.17
C-348890	12712	Will	5.61	2.70	9.37	12.91	0.62	1.37	0.22	0.12	0.10
C-348395	5876	Williamson	9.63	3.39	0.83	1.78	0.89	1.81	0.48	1.21	0.10
C-348805	5876	Williamson	9.82	3.43	0.76	1.22	0.85	1.86	0.58	0.10	0.12
C-348566	5876	Williamson	9.54	3.40	0.71	0.46	0.94	2.01	0.70	0.07	0.08
C-348390	6900	Williamson	7.50	2.36	0.43	0.76	0.74	1.84	0.48	1.21	0.11
C-348800	6900	Williamson	7.31	2.16	0.40	0.81	0.71	1.71	0.52	0.07	0.08
C-348561	6900	Williamson	10.90	4.23	0.99	0.36	1.01	2.16	0.68	0.07	0.11

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Lab no.	Site ID	County	MnO (wt%)	Tot. C (%)	Inorg. C (%)	Org. C (%)	Ag (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Bi (mg/kg)
C-348582	9896	Adams	0.16				<1	10.6	685	1.5	0.17
C-348589	9896	Adams	0.19	1.24	ND	1.24	<1	9.6	613	1.2	0.18
C-348596	9896	Adams	0.16	1.43	ND	1.43		8.1	619	1.0	0.17
C-348613	12200	Adams	0.09				<1	6.4	590	1.1	0.33
C-348640	12200	Adams	0.11	2.11	ND	2.11	<1	6.3	638	1.2	0.21
C-348752	12200	Adams	0.14	0.15	ND	0.15		10.4	718	1.8	0.24
C-348387	13128	Alexander	0.05				<1	7.8	731	1.2	0.16
C-348797	13128	Alexander	0.05	2.30	ND	2.30	<1	6.4	784	1.4	0.17
C-348558	13128	Alexander	0.09	0.81	0.10	0.70		9.2	687	2.2	0.38
C-348407	11252	Bond	0.13				<1	9.1	534	1.1	0.26
C-348817	11252	Bond	0.13	2.08	ND	2.08	<1	8.7	534	1.2	0.18
C-348578	11252	Bond	0.08	0.11	ND	0.11		4.9	533	1.7	0.16
C-348790	6200	Boone	0.11				<1	5.1	568	1.2	0.17
C-348677	6200	Boone	0.11	2.54	0.20	2.30	<1	8.0	586	1.1	0.16
C-348897	6200	Boone	0.08	0.83	0.40	0.40		6.6	372	1.1	0.13
C-348772	6056	Bureau	0.06				<1	5.0	440	1.0	0.17
C-348660	6056	Bureau	0.07	5.69	1.90	3.80	<1	6.1	470	1.0	0.13
C-348879	6056	Bureau	0.05	2.49	2.30	0.20		5.3	330	0.7	0.07
C-348913	3080	Calhoun	0.11				<1	4.1	607	0.9	0.20
C-348831	3080	Calhoun	0.11	1.19	ND	1.19	<1	4.5	658	1.0	0.10
C-348482	3080	Calhoun	0.09	0.11	ND	0.11		9.7	597	1.5	0.26
C-348611	7848	Cass	0.10				<1	8.3	571	1.2	0.23
C-348638	7848	Cass	0.11	2.52	ND	2.52	<1	7.9	602	1.3	0.21
C-348750	7848	Cass	0.12	1.98	2.00	ND		9.1	517	1.3	0.18
C-348583	2472	Champaign	0.09				<1	11.8	497	1.9	0.17
C-348590	2472	Champaign	0.04	2.93	ND	2.93	<1	6.6	493	1.5	0.24
C-348597	2472	Champaign	0.04	3.14	ND	3.14		6.4	445	1.4	0.22
C-348604	7592	Champaign	0.10				<1	8.2	525	1.3	0.17
C-348631	7592	Champaign	0.11	3.08	ND	3.08	<1	8.0	517	1.3	0.22
C-348743	7592	Champaign	0.07	2.16	2.10	0.10		7.0	376	1.2	0.16
C-348605	9640	Champaign	0.07				<1	5.4	501	1.3	0.16
C-348632	9640	Champaign	0.06	2.17	ND	2.17	<1	5.8	488	1.2	0.20
C-348744	9640	Champaign	0.09	0.27	ND	0.27		9.4	471	2.1	0.22
C-348918	2036	Christian	0.06				<1	6.8	565	1.3	0.24
C-348836	2036	Christian	0.06	3.03	0.10	2.90	<1	7.6	553	1.3	0.20
C-348487	2036	Christian	0.09	0.23	ND	0.23		10.9	571	1.5	0.21
C-348919	6132	Christian	0.06				<1	9.3	658	2.9	0.12
C-348837	6132	Christian	0.06	11.50	ND	11.50	<1	11.9	658	4.4	0.13
C-348488	6132	Christian	0.04	0.25	ND	0.25		5.6	552	1.5	0.18
C-348920	10228	Christian	0.10				<1	6.6	567	1.0	0.23
C-348838	10228	Christian	0.09	1.64	0.10	1.50	<1	7.6	570	1.1	0.16
C-348489	10228	Christian	0.11	0.18	ND	0.18		8.3	625	1.5	0.24
C-348908	492	Clark	0.06				<1	6.8	522	1.1	0.19
C-348826	492	Clark	0.06	0.94	ND	0.94	<1	7.1	512	1.2	0.16
C-348477	492	Clark	0.05	0.16	ND	0.16		9.8	568	1.5	0.22
C-348923	4588	Clark	0.07				<1	5.3	515	1.1	0.19
C-348841	4588	Clark	0.06	1.32	ND	1.32	<1	5.8	500	1.0	0.16
C-348492	4588	Clark	0.03	0.25	ND	0.25		10.8	568	1.8	0.19
C-348922	11500	Clark	0.10				<1	8.7	479	1.1	0.21
C-348840	11500	Clark	0.10	1.40	ND	1.40	<1	7.4	475	1.0	0.15
C-348491	11500	Clark	0.03	0.07	ND	0.07		5.4	515	1.2	0.15
C-348403	1012	Clay	0.05				<1	5.8	362	0.8	0.10
C-348813	1012	Clay	0.07	1.66	ND	1.66	<1	5.7	392	0.9	0.16
C-348574	1012	Clay	0.11	1.79	1.90	ND		6.2	385	1.2	0.13

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Lab no.	Site ID	County	MnO (wt%)	Tot. C (%)	Inorg. C (%)	Org. C (%)	Ag (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Bi (mg/kg)
C-348904	10996	Clinton	0.09				<1	7.3	607	1.1	0.14
C-348822	10996	Clinton	0.10	2.93	0.30	2.60	<1	7.8	626	1.2	0.29
C-348473	10996	Clinton	0.10	0.19	ND	0.19		12.6	806	1.4	0.24
C-348906	3060	Coles	0.12				<1	8.4	565	1.3	0.11
C-348824	3060	Coles	0.10	2.22	ND	2.22	<1	8.0	548	1.4	0.20
C-348475	3060	Coles	0.07	1.63	1.80	ND		7.7	420	1.5	0.21
C-348921	7156	Coles	0.04				<1	3.7	372	0.6	0.19
C-348839	7156	Coles	0.05	1.63	0.50	1.10	<1	3.7	377	0.7	0.09
C-348490	7156	Coles	0.02	1.08	0.60	0.50		3.4	358	0.7	0.11
C-348786	1448	Cook	0.05				<1	8.0	453	2.2	0.10
C-348673	1448	Cook	0.05	5.61	0.30	5.30	<1	8.2	444	2.1	0.28
C-348893	1448	Cook	0.06	3.39	2.40	1.00		9.7	391	<0.1	0.20
C-348784	5544	Cook	0.07				<1	11.0	441	1.3	0.12
C-348672	5544	Cook	0.07	1.53	ND	1.53	<1	16.5	450	1.6	0.16
C-348891	5544	Cook	0.07	2.79	2.10	0.70		15.7	377	1.7	0.24
C-348788	10296	Cook	0.08				<1	8.8	516	1.6	0.14
C-348675	10296	Cook	0.11	3.99	ND	3.99	<1	9.5	560	1.5	0.23
C-348895	10296	Cook	0.08	3.42	3.00	0.40		8.2	441	1.7	0.18
C-348404	8684	Crawford	0.15				<1	10.6	494	1.1	0.19
C-348814	8684	Crawford	0.15	1.62	ND	1.62	<1	8.9	517	1.0	0.16
C-348575	8684	Crawford	0.06	0.11	ND	0.11		5.8	468	1.0	0.14
C-348682	4776	Dewitt	0.11				<1	8.1	625	1.4	0.14
C-348655	4776	Dewitt	0.11	2.45	ND	2.45	<1	8.0	582	1.3	0.23
C-348767	4776	Dewitt	0.07	2.18	2.20	ND		5.8	405	1.5	0.14
C-348818	3496	Douglas	0.08				<1	7.4	533	1.3	0.23
C-348819	3496	Douglas	0.08	2.04	ND	2.04	<1	7.0	531	1.3	0.22
C-348579	3496	Douglas	0.03	0.13	ND	0.13		4.8	363	0.8	0.10
C-348905	11688	Douglas	0.12				<1	8.6	571	1.2	0.14
C-348823	11688	Douglas	0.12	2.69	ND	2.69	<1	7.8	573	1.3	0.22
C-348474	11688	Douglas	0.08	1.14	1.00	0.10		9.5	438	1.7	0.22
C-348907	6672	Edgar	0.13				<1	7.4	413	0.8	0.22
C-348825	6672	Edgar	0.14	9.33	ND	9.33	<1	5.9	472	0.9	0.14
C-348476	6672	Edgar	0.06	0.68	0.90	ND		8.1	441	1.5	0.23
C-348585	1704	Fulton	0.13				<1	10.1	603	1.5	0.19
C-348592	1704	Fulton	0.12	0.89	ND	0.89	<1	7.2	575	1.1	0.18
C-348599	1704	Fulton	0.12	1.05	ND	1.05		6.9	566	1.0	0.18
C-348914	5384	Greene	0.06				<1	5.5	488	1.0	0.22
C-348832	5384	Greene	0.06	1.93	ND	1.93	<1	5.3	452	1.0	0.13
C-348483	5384	Greene	0.08	0.10	ND	0.10		9.1	478	2.1	0.22
C-348775	6312	Grundy	0.10				<1	10.9	598	1.5	0.17
C-348663	6312	Grundy	0.10	3.57	ND	3.57	<1	13.1	591	1.5	0.24
C-348882	6312	Grundy	0.06	4.21	4.30	ND		5.9	336	0.7	0.09
C-348776	11432	Grundy	0.07				<1	7.0	551	1.4	0.23
C-348664	11432	Grundy	0.07	3.54	ND	3.54	<1	8.7	576	1.5	0.22
C-348883	11432	Grundy	0.11	0.56	ND	0.56		11.4	581	1.9	0.22
C-348397	7924	Hamilton	0.12				<1	8.6	492	1.0	0.22
C-348807	7924	Hamilton	0.15	2.40	ND	2.40	<1	8.1	569	1.3	0.17
C-348568	7924	Hamilton	0.05	0.17	ND	0.17		6.2	653	1.8	0.18
C-348615	8104	Hancock	0.06				<1	5.6	564	1.0	0.05
C-348642	8104	Hancock	0.08	3.05	ND	3.05	<1	6.3	556	1.1	0.21
C-348754	8104	Hancock	0.13	0.30	ND	0.30		6.6	402	1.5	0.21
C-348624	1256	Henderson	0.07				<1	2.3	340	0.6	0.17
C-348651	1256	Henderson	0.06	3.49	ND	3.49	<1	2.0	341	0.6	0.19
C-348763	1256	Henderson	0.03	0.10	ND	0.10		1.3	346	0.6	<0.04
C-348778	4520	Iroquois	0.05				<1	6.7	460	1.2	0.14
C-348666	4520	Iroquois	0.06	3.29	ND	3.29	<1	9.2	471	1.4	0.20
C-348885	4520	Iroquois	0.06	2.88	2.50	0.40		10.7	391	1.8	0.19
C-348781	9744	Iroquois	0.03				<1	4.4	478	1.3	0.20

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Lab no.	Site ID	County	MnO (wt%)	Tot. C (%)	Inorg. C (%)	Org. C (%)	Ag (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Bi (mg/kg)
C-348669	9744	Iroquois	0.03	2.79	ND	2.79	<1	5.2	471	1.3	0.19
C-348888	9744	Iroquois	0.05	1.39	1.10	0.30		7.7	435	1.3	0.16
C-348396	3828	Jefferson	0.10				<1	9.9	473	0.9	0.12
C-348806	3828	Jefferson	0.08	1.30	ND	1.30	<1	7.8	486	1.1	0.19
C-348567	3828	Jefferson	0.13	0.29	ND	0.29		6.7	587	1.6	0.20
C-348794	8168	Jo Daviess	0.11				<1	6.8	573	1.3	0.21
C-348681	8168	Jo Daviess	0.12	2.66	0.50	2.20	<1	7.1	587	1.3	0.20
C-348901	8168	Jo Daviess	0.11	1.06	0.50	0.60		8.9	538	2.3	0.19
C-348391	1780	Johnson	0.13				<1	8.6	523	1.0	0.23
C-348801	1780	Johnson	0.12	1.48	ND	1.48	<1	7.7	550	1.1	0.17
C-348562	1780	Johnson	0.04	0.11	ND	0.11		6.5	483	1.2	0.16
C-348785	10408	Kane	0.14				<1	7.4	576	1.3	0.23
C-348768	10408	Kane	0.14	2.37	ND	2.37	<1	8.5	608	1.5	0.20
C-348892	10408	Kane	0.09	3.62	3.50	0.10		12.5	379	1.4	0.18
C-348780	424	Kankakee	0.08				<1	5.7	430	1.2	0.16
C-348668	424	Kankakee	0.08	2.67	ND	2.67	<1	6.3	485	1.4	0.19
C-348887	424	Kankakee	0.10	1.45	0.20	1.30		10.0	469	1.5	0.22
C-348782	7952	Kankakee	0.02				<1	13.5	314	0.6	0.18
C-348670	7952	Kankakee	0.02	1.38	ND	1.38	<1	11.9	331	0.6	0.06
C-348889	7952	Kankakee	0.00	0.06	ND	0.06		1.4	318	0.4	<0.04
C-348777	8616	Kankakee	0.06				<1	7.0	433	1.5	0.12
C-348665	8616	Kankakee	0.05	3.65	0.70	3.00	<1	6.9	449	1.5	0.20
C-348884	8616	Kankakee	0.07	3.14	2.70	0.40		13.2	358	1.8	0.22
C-348626	5800	Knox	0.09				<1	6.5	568	1.1	0.17
C-348653	5800	Knox	0.11	2.01	ND	2.01	<1	8.1	621	1.2	0.20
C-348765	5800	Knox	0.13	0.12	ND	0.12		10.5	684	1.7	0.21
C-348620	10152	Knox	0.12				<1	21.6	336	2.5	0.15
C-348647	10152	Knox	0.11	4.66	2.20	2.50	<1	17.6	365	2.6	0.25
C-348759	10152	Knox	0.10	0.67	0.50	0.20		10.6	587	1.7	0.25
C-348774	3240	LaSalle	0.09				<1	8.4	538	1.8	0.09
C-348662	3240	LaSalle	0.09	2.81	0.30	2.50	<1	9.5	528	1.8	0.22
C-348881	3240	LaSalle	0.06	3.93	3.60	0.30		11.0	357	1.7	0.21
C-348773	7336	LaSalle	0.06				<1	4.7	514	1.2	0.11
C-348661	7336	LaSalle	0.06	2.79	0.80	2.00	<1	5.2	541	1.2	0.17
C-348880	7336	LaSalle	0.09	2.60	1.60	1.00		3.6	388	0.9	0.11
C-348791	5032	Lee	0.09				<1	5.5	607	1.2	0.20
C-348678	5032	Lee	0.09	2.24	0.40	1.80	<1	6.6	640	1.1	0.15
C-348898	5032	Lee	0.04	0.85	0.80	0.00		4.0	704	1.0	0.09
C-348792	9128	Lee	0.11				<1	6.3	612	1.4	0.16
C-348679	9128	Lee	0.12	3.36	ND	3.36	<1	6.7	613	1.3	0.20
C-348899	9128	Lee	0.06	2.16	2.30	ND		7.1	395	0.9	0.11
C-348586	680	Logan	0.12				<1	8.0	571	1.2	0.14
C-348593	680	Logan	0.12	2.50	ND	2.50	<1	7.7	562	1.2	0.22
C-348600	680	Logan	0.09	0.99	0.90	0.10		10.0	509	1.3	0.21
C-348609	8872	Logan	0.22				<1	6.5	650	1.2	0.18
C-348636	8872	Logan	0.19	1.32	ND	1.32	<1	7.2	651	1.2	0.16
C-348748	8872	Logan	0.09	0.21	ND	0.21		10.6	579	1.6	0.24
C-348911	264	Madison	0.08				<1	7.4	609	1.0	
C-348829	264	Madison	0.07	2.66	ND	2.66	<1	7.4	611	1.0	0.15
C-348480	264	Madison	0.05	0.13	ND	0.13		6.0	593	1.1	0.19
C-348406	4084	Marion	0.15				<1	9.8	429	0.8	0.18
C-348816	4084	Marion	0.14	2.58	ND	2.58	<1	10.5	504	1.4	0.20
C-348577	4084	Marion	0.06	0.12	ND	0.12		4.8	526	1.1	0.15
C-348405	5108	Marion	0.22				<1	8.4	590	1.0	0.19
C-348815	5108	Marion	0.21	1.23	ND	1.23	<1	5.9	606	1.3	0.16
C-348576	5108	Marion	0.03	0.14	ND	0.14		4.3	452	1.0	0.12
C-348619	1960	Marshall	0.10				<1	7.7	566	1.2	0.19

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Lab no.	Site ID	County	MnO (wt%)	Tot. C (%)	Inorg. C (%)	Org. C (%)	Ag (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Bi (mg/kg)
C-348646	1960	Marshall	0.11	2.56	ND	2.56	<1	6.8	581	1.3	0.25
C-348758	1960	Marshall	0.15	0.49	0.40	0.10		10.0	661	1.5	0.22
C-348606	6568	McLean	0.11				<1	8.6	510	1.4	0.23
C-348633	6568	McLean	0.10	2.09	ND	2.09	<1	7.9	484	1.3	0.19
C-348745	6568	McLean	0.07	0.40	ND	0.40		8.9	567	1.9	0.27
C-348587	6824	McDonough	0.10				<1	6.6	512	1.1	0.11
C-348594	6824	McDonough	0.11	2.25	ND	2.25	<1	7.6	563	1.3	0.20
C-348601	6824	McDonough	0.03	0.26	ND	0.26		5.5	474	1.3	0.18
C-348625	12968	McDonough	0.17				<1	6.8	656	1.0	0.16
C-348652	12968	McDonough	0.20	2.21	ND	2.21	<1	7.1	671	1.2	0.20
C-348764	12968	McDonough	0.10	0.17	ND	0.17		10.7	712	1.8	0.21
C-348789	2104	McHenry	0.08				<1	5.7	459	1.6	0.17
C-348676	2104	McHenry	0.09	2.79	ND	2.79	<1	6.6	464	1.4	0.18
C-348896	2104	McHenry	0.06	5.73	5.80	ND		4.8	322	1.3	0.13
C-348607	10664	McLean	0.14				<1	17.8	554	1.3	0.20
C-348634	10664	McLean	0.13	2.23	ND	2.23	<1	17.6	588	1.4	0.24
C-348746	10664	McLean	0.07	2.35	2.30	0.10		6.5	318	1.3	0.13
C-348623	3816	Mercer	0.09				<1	4.3	584	1.0	0.30
C-348650	3816	Mercer	0.11	1.61	ND	1.61	<1	4.1	602	1.0	0.17
C-348762	3816	Mercer	0.08	0.12	ND	0.12		6.5	647	1.4	0.16
C-348916	1288	Montgomery	0.05				<1	4.3	483	0.9	0.15
C-348834	1288	Montgomery	0.05	2.12	ND	2.12	<1	4.7	482	0.9	0.12
C-348485	1288	Montgomery	0.06	0.13	ND	0.13		6.5	499	1.5	0.20
C-348912	7176	Morgan	0.14				<1	5.2	560	0.9	0.07
C-348830	7176	Morgan	0.13	1.73	ND	1.73	<1	5.1	562	1.0	0.12
C-348481	7176	Morgan	0.08	0.13	ND	0.13		9.0	408	1.3	0.17
C-348915	9480	Morgan	0.12				<1	7.6	638	1.2	0.13
C-348833	9480	Morgan	0.12	1.11	ND	1.11	<1	8.0	609	1.2	0.19
C-348484	9480	Morgan	0.08	0.20	ND	0.20		6.3	578	1.4	0.17
C-348618	3752	Peoria	0.12				<1	8.5	552	1.2	0.20
C-348645	3752	Peoria	0.13	2.28	ND	2.28	<1	8.6	564	1.3	0.29
C-348757	3752	Peoria	0.06	2.62	2.60	0.00		6.1	453	1.3	0.12
C-348612	10248	Pike	0.13				<1	4.7	537	0.9	0.13
C-348639	10248	Pike	0.11	1.57	ND	1.57	<1	5.4	489	0.9	0.11
C-348751	10248	Pike	0.10	0.37	ND	0.37		7.2	545	1.3	0.17
C-348392	13044	Pope	0.13				<1	5.6	512	1.2	0.15
C-348802	13044	Pope	0.30	23.00	ND	23.00	<1	2.7	624	1.6	0.10
C-348563	13044	Pope	0.03	0.18	ND	0.18		8.1	468	1.3	0.17
C-348388	2804	Randolph	0.02				<1	3.1	508	0.7	0.20
C-348798	2804	Randolph	0.02	1.28	ND	1.28	<1	3.1	546	0.8	0.11
C-348559	2804	Randolph	0.07	0.12	ND	0.12		4.4	610	1.5	0.17
C-348389	8200	Randolph	0.15				<1	4.3	661	0.9	0.18
C-348799	8200	Randolph	0.16	1.69	0.10	1.60	<1	4.7	688	0.9	0.12
C-348560	8200	Randolph	0.09	0.10	ND	0.10		9.7	644	1.5	0.24
C-348402	1516	Richland	0.07				<1	7.0	436	1.0	0.33
C-348812	1516	Richland	0.09	0.98	ND	0.98	<1	6.9	435	1.1	0.18
C-348573	1516	Richland	0.06	0.09	ND	0.09		4.5	404	1.3	0.15
C-348394	9972	Saline	0.24				<1	7.8	544	1.0	0.21
C-348804	9972	Saline	0.28	2.26	ND	2.26	<1	8.3	596	1.3	0.16
C-348565	9972	Saline	0.04	0.11	ND	0.11		6.0	517	1.4	0.18
C-348610	11944	Sangamon	0.17				<1	7.5	561	1.1	0.22
C-348637	11944	Sangamon	0.18	1.12	ND	1.12	<1	8.3	643	1.2	0.17
C-348749	11944	Sangamon	0.07	1.43	1.30	0.10		8.1	516	1.4	0.18
C-348616	2728	Schuyler	0.11				<1	6.9	596	1.1	0.25
C-348643	2728	Schuyler	0.14	1.58	ND	1.58	<1	6.9	652	1.2	0.23
C-348755	2728	Schuyler	0.07	0.15	ND	0.15		8.8	663	1.4	0.20
C-348909	4104	St. Clair	0.09				<1	5.9	661	1.0	0.19
C-348827	4104	St. Clair	0.08	2.98	0.10	2.90	<1	5.3	648	1.0	0.15

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Lab no.	Site ID	County	MnO (wt%)	Tot. C (%)	Inorg. C (%)	Org. C (%)	Ag (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Bi (mg/kg)
C-348478	4104	St. Clair	0.09	0.18	ND	0.18		12.3	658	1.3	0.26
C-348621	4008	Stephenson	0.10				<1	6.5	556	1.2	0.16
C-348648	4008	Stephenson	0.12	2.17	ND	2.17	<1	6.8	536	1.3	0.22
C-348760	4008	Stephenson	0.07	0.31	ND	0.31		9.4	609	1.6	0.22
C-348793	5096	Stephenson	0.15				<1	8.8	647	1.3	0.16
C-348680	5096	Stephenson	0.15	2.40	0.10	2.30	<1	8.8	651	1.4	0.20
C-348900	5096	Stephenson	0.08	2.25	2.20	0.00		7.0	479	1.0	0.15
C-348603	9192	Stephenson	0.14				<1	6.8	631	1.2	0.19
C-348630	9192	Stephenson	0.14	3.80	0.10	3.70	<1	6.6	631	1.2	0.18
C-348742	9192	Stephenson	0.18	0.44	ND	0.44		17.0	563	2.9	0.32
C-348617	10920	Tazewell	0.05				<1	4.4	317	0.8	0.23
C-348644	10920	Tazewell	0.06	3.55	1.30	2.30	<1	6.0	329	0.9	0.17
C-348756	10920	Tazewell	0.06	1.19	0.40	0.80		5.4	396	1.0	0.11
C-348401	9204	Wayne	0.09				<1	5.4	374	0.7	0.19
C-348811	9204	Wayne	0.00	4.19	ND	4.19	<1	5.8	394	0.8	0.13
C-348572	9204	Wayne	0.05	0.08	ND	0.08		5.0	548	1.2	0.15
C-348400	12020	White	0.13				<1	9.1	504	1.0	0.18
C-348810	12020	White	0.10	1.89	ND	1.89	<1	7.6	514	1.1	0.31
C-348571	12020	White	0.10	2.20	2.50	ND		8.0	462	1.4	0.18
C-348398	5356	White	0.07				<1	12.0	499	1.2	0.15
C-348808	5356	White	0.08	1.44	ND	1.44	<1	10.8	528	1.5	0.21
C-348569	5356	White	0.05	0.15	ND	0.15		6.7	465	1.2	0.16
C-348771	936	Whiteside	0.11				<1	6.5	360	0.7	0.25
C-348659	936	Whiteside	0.10	3.11	1.10	2.00	<1	8.1	446	1.1	0.14
C-348878	936	Whiteside	0.04	4.29	0.50	3.80		3.2	434	1.0	0.10
C-348627	7080	Whiteside	0.12				<1	5.1	503	1.3	0.15
C-348654	7080	Whiteside	0.15	2.22	ND	2.22	<1	5.5	542	1.4	0.20
C-348766	7080	Whiteside	0.33	0.13	ND	0.13		7.8	718	1.3	0.14
C-348783	12712	Will	0.11				<1	7.3	468	1.3	0.20
C-348671	12712	Will	0.12	3.93	1.70	2.20	<1	7.5	483	1.4	0.17
C-348890	12712	Will	0.08	5.77	5.40	0.40		7.0	288	0.8	0.10
C-348395	5876	Williamson	0.07				<1	9.4	462	1.1	0.19
C-348805	5876	Williamson	0.09	1.47	0.10	1.40	<1	7.2	547	1.4	0.23
C-348566	5876	Williamson	0.09	0.11	ND	0.11		5.6	491	1.3	0.17
C-348390	6900	Williamson	0.09				<1	6.7	559	0.9	0.20
C-348800	6900	Williamson	0.12	5.10	ND	5.10	<1	6.0	596	1.0	0.15
C-348561	6900	Williamson	0.06	0.29	ND	0.29		11.5	584	1.4	0.26

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Lab no.	Site ID	County	Cd (mg/kg)	Ce (mg/kg)	Co (mg/kg)	Cr (mg/kg)	Cs (mg/kg)	Cu (mg/kg)	Ga (mg/kg)	Hg (µg/g)	In (mg/kg)
C-348582	9896	Adams	0.5	77.0	14.6	45	<5	22.8	13.0	0.03	0.04
C-348589	9896	Adams	0.2	65.2	11.7	37	<5	13.3	8.6	0.02	0.02
C-348596	9896	Adams	0.2	65.2	10.7	32	<5	10.9	8.5	0.02	0.03
C-348613	12200	Adams	0.2	56.7	7.7	38	<5	15.0	10.1	0.02	0.03
C-348640	12200	Adams	0.2	61.9	9.1	42	<5	15.0	11.0	0.02	0.03
C-348752	12200	Adams	0.5	83.0	15.5	45	5	24.4	14.3	0.03	0.05
C-348387	13128	Alexander	0.4	49.5	6.3	31	<5	21.8	9.4	0.03	0.03
C-348797	13128	Alexander	0.5	54.1	7.4	32	<5	16.3	10.3	0.03	0.03
C-348558	13128	Alexander	0.3	60.0	12.5	65	8	31.8	18.3	0.04	0.07
C-348407	11252	Bond	0.1	58.7	11.1	40	<5	16.9	10.3	0.04	0.04
C-348817	11252	Bond	0.1	53.4	10.8	40	<5	15.7	10.6	0.04	0.03
C-348578	11252	Bond	0.1	74.6	10.3	33	<5	14.3	11.7	0.02	0.03
C-348790	6200	Boone	0.2	53.8	10.5	46	<5	16.8	9.4	0.03	0.03
C-348677	6200	Boone	0.2	51.8	9.9	46	<5	15.3	10.0	0.03	0.03
C-348897	6200	Boone	<0.1	40.5	7.5	27	<5	17.1	10.1	0.04	0.03
C-348772	6056	Bureau	2.3	39.8	8.7	30	<5	15.5	7.3	0.03	0.08
C-348660	6056	Bureau	2.8	40.3	9.0	31	<5	16.7	7.8	0.03	0.10
C-348879	6056	Bureau	0.4	25.5	7.1	14	<5	10.2	6.0	0.01	0.02
C-348913	3080	Calhoun	0.2	48.3	7.6	35	<5	12.4	7.9	0.03	0.02
C-348831	3080	Calhoun	0.2	54.6	8.5	29	<5	11.5	9.4	0.03	0.03
C-348482	3080	Calhoun	0.2	66.7	10.8	34	<5	30.7	11.9	0.02	0.04
C-348611	7848	Cass	0.3	57.7	7.7	45	<5	18.2	10.0	0.03	0.03
C-348638	7848	Cass	0.3	61.3	9.1	37	<5	18.0	10.5	0.03	0.04
C-348750	7848	Cass	0.4	56.8	12.0	35	<5	20.8	10.4	0.02	0.04
C-348583	2472	Champaign	0.4	65.7	15.7	47	5	23.7	14.5	0.03	0.05
C-348590	2472	Champaign	0.3	60.2	9.1	50	<5	19.3	12.9	0.03	0.04
C-348597	2472	Champaign	0.3	58.5	8.3	47	<5	17.5	12.4	0.03	0.05
C-348604	7592	Champaign	0.2	59.8	10.2	44	<5	18.7	10.8	0.03	0.04
C-348631	7592	Champaign	0.1	63.1	12.0	37	<5	16.5	11.4	0.03	0.03
C-348743	7592	Champaign	0.1	48.7	10.4	29	<5	16.0	9.5	0.01	0.03
C-348605	9640	Champaign	0.2	51.7	7.0	42	<5	16.0	10.4	0.02	0.04
C-348632	9640	Champaign	0.2	52.7	7.0	36	<5	15.3	10.4	0.02	0.04
C-348744	9640	Champaign	0.2	66.3	15.3	56	8	21.3	15.3	0.03	0.05
C-348918	2036	Christian	0.3	51.9	7.9	37	<5	20.1	10.0	0.03	0.03
C-348836	2036	Christian	0.3	53.7	7.4	47	<5	21.2	10.8	0.03	0.03
C-348487	2036	Christian	0.3	70.4	11.6	40	<5	22.8	11.9	0.03	0.05
C-348919	6132	Christian	0.6	51.7	12.3	59	<5	32.1	11.5	0.04	0.03
C-348837	6132	Christian	0.9	51.6	15.4	75	6	46.2	11.6	0.04	<0.02
C-348488	6132	Christian	0.2	57.8	7.3	38	<5	18.6	11.4	0.04	0.04
C-348920	10228	Christian	0.2	50.6	8.8	36	<5	17.0	7.5	0.02	0.02
C-348838	10228	Christian	0.2	55.3	8.6	32	<5	13.1	8.8	0.03	0.03
C-348489	10228	Christian	0.4	73.2	11.7	39	5	24.7	13.2	0.04	0.05
C-348908	492	Clark	0.2	52.5	6.4	29	<5	13.1	8.7	0.02	0.03
C-348826	492	Clark	0.2	51.5	6.1	33	<5	14.2	9.2	0.04	0.03
C-348477	492	Clark	0.1	59.1	9.2	38	<5	23.8	11.6	0.05	0.05
C-348923	4588	Clark	0.2	55.3	6.6	32	<5	14.5	9.2	0.02	0.03
C-348841	4588	Clark	0.2	54.5	6.4	28	<5	15.3	10.0	0.02	0.03
C-348492	4588	Clark	0.1	65.7	8.8	34	<5	21.6	12.0	0.04	0.04
C-348922	11500	Clark	0.1	52.2	8.8	33	<5	12.5	8.9	0.03	0.03
C-348840	11500	Clark	<0.1	56.7	7.8	32	<5	11.0	8.8	0.03	0.03
C-348491	11500	Clark	<0.1	51.3	5.4	25	<5	13.8	10.4	0.03	0.03
C-348403	1012	Clay	<0.1	43.8	7.0	29	<5	15.0	9.3	0.03	0.03
C-348813	1012	Clay	<0.1	45.2	8.9	25	<5	14.0	10.4	0.03	0.03
C-348574	1012	Clay	0.1	45.8	9.5	23	<5	13.4	10.7	0.01	0.03
C-348904	10996	Clinton	0.3	46.1	5.7	38	<5	21.4	7.8	0.04	0.02
C-348822	10996	Clinton	0.3	48.9	6.4	42	<5	22.7	8.4	0.04	0.02

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C-348473	10996	Clinton	0.3	63.9	10.4	44	<5	25.0	11.4	0.04	0.04
C-348906	3060	Coles	0.3	61.4	15.1	47	<5	18.7	11.8	0.03	0.04
C-348824	3060	Coles	0.2	57.7	11.8	42	<5	17.5	11.7	0.03	0.04
C-348475	3060	Coles	<0.1	47.5	10.4	40	6	19.1	11.0	0.01	0.05
C-348921	7156	Coles	0.1	24.1	4.0	26	<5	14.1	5.3	0.02	<0.02
C-348839	7156	Coles	0.1	28.1	5.2	24	<5	8.2	6.7	0.02	<0.02
C-348490	7156	Coles	0.1	30.7	5.0	16	<5	9.0	6.1	0.03	<0.02
C-348786	1448	Cook	1.0	39.6	10.4	67	5	52.9	12.2	0.17	0.05
C-348673	1448	Cook	0.8	51.3	11.6	59	6	44.9	13.2	0.13	0.05
C-348893	1448	Cook	0.2	51.0	15.5	49	6	31.9	15.7	0.03	0.05
C-348784	5544	Cook	0.3	46.4	13.3	43	<5	22.6	9.3	0.04	0.04
C-348672	5544	Cook	0.2	45.4	15.4	42	<5	22.4	11.5	0.03	0.04
C-348891	5544	Cook	0.2	51.7	19.7	51	6	35.5	14.3	0.03	0.05
C-348788	10296	Cook	0.5	57.4	11.7	49	5	24.5	11.7	0.05	0.04
C-348675	10296	Cook	0.3	61.9	14.5	52	5	23.2	12.5	0.04	0.04
C-348895	10296	Cook	0.2	50.0	14.5	45	6	29.4	14.2	0.03	0.04
C-348404	8684	Crawford	0.2	54.4	10.5	36	<5	16.9	8.3	0.04	0.03
C-348814	8684	Crawford	0.2	50.8	9.8	36	<5	15.9	8.6	0.04	0.03
C-348575	8684	Crawford	0.2	49.5	8.0	28	<5	12.6	9.7	0.02	0.03
C-348682	4776	Dewitt	0.3	60.5	11.6	43	<5	20.2	10.5	0.04	0.03
C-348655	4776	Dewitt	0.3	62.2	10.7	43	<5	21.0	10.7	0.04	0.03
C-348767	4776	Dewitt	0.1	46.3	11.2	29	5	14.3	10.6	0.02	0.04
C-348818	3496	Douglas	0.2	51.6	9.8	42	<5	19.0	10.7	0.25	0.03
C-348819	3496	Douglas	0.3	58.2	11.4	45	<5	18.5	12.6	0.04	0.04
C-348579	3496	Douglas	<0.1	31.5	4.7	18	<5	11.8	7.5	0.01	0.02
C-348905	11688	Douglas	0.3	61.1	12.0	42	<5	22.8	11.2	0.05	0.04
C-348823	11688	Douglas	0.3	56.1	11.4	46	<5	23.3	10.7	0.05	0.03
C-348474	11688	Douglas	0.2	57.2	12.0	38	6	20.6	12.4	0.02	0.05
C-348907	6672	Edgar	0.3	35.4	7.9	31	<5	23.1	6.0	0.15	<0.02
C-348825	6672	Edgar	0.3	44.0	10.1	36	<5	21.6	8.0	0.05	0.03
C-348476	6672	Edgar	0.1	46.5	8.8	29	5	17.8	11.0	0.02	0.04
C-348585	1704	Fulton	0.5	76.5	14.5	38	<5	26.4	13.5	0.03	0.05
C-348592	1704	Fulton	0.2	57.6	9.1	34	<5	11.6	9.0	0.13	0.03
C-348599	1704	Fulton	0.1	59.3	9.4	30	<5	10.6	9.2	0.17	0.03
C-348914	5384	Greene	0.2	52.6	9.4	33	<5	26.3	9.5	0.03	0.03
C-348832	5384	Greene	0.2	54.0	9.9	27	<5	26.6	10.6	0.03	0.03
C-348483	5384	Greene	0.1	60.3	13.3	47	7	22.5	15.0	0.03	0.05
C-348775	6312	Grundy	0.4	58.2	8.1	49	<5	19.0	10.9	0.06	0.04
C-348663	6312	Grundy	0.4	58.0	8.9	49	<5	17.6	11.4	0.06	0.04
C-348882	6312	Grundy	0.2	31.6	7.0	18	<5	12.1	7.8	0.02	0.03
C-348776	11432	Grundy	0.4	58.4	9.5	53	<5	25.6	11.0	0.04	0.04
C-348664	11432	Grundy	0.5	60.6	9.8	54	5	26.3	12.1	0.04	0.04
C-348883	11432	Grundy	0.5	63.1	17.5	51	6	26.9	16.1	0.04	0.05
C-348397	7924	Hamilton	0.2	60.6	14.2	39	<5	16.2	8.4	0.06	0.03
C-348807	7924	Hamilton	0.2	65.4	17.5	34	<5	16.4	9.1	0.06	0.03
C-348568	7924	Hamilton	<0.1	76.1	17.6	39	<5	19.3	12.9	<0.01	0.04
C-348615	8104	Hancock	0.2	54.2	6.2	38	<5	19.6	9.9	0.04	0.03
C-348642	8104	Hancock	0.3	54.8	7.5	36	<5	20.5	9.7	0.05	0.03
C-348754	8104	Hancock	<0.1	70.0	24.7	34	5	17.6	14.9	0.03	0.05
C-348624	1256	Henderson	0.3	22.2	4.5	16	<5	9.1	6.0	0.04	<0.02
C-348651	1256	Henderson	0.3	20.4	4.6	10	<5	6.9	6.2	0.03	<0.02
C-348763	1256	Henderson	<0.1	19.9	4.6	7	<5	5.1	5.2	0.01	<0.02
C-348778	4520	Iroquois	0.2	50.2	10.1	48	<5	17.1	10.4	0.04	0.04
C-348666	4520	Iroquois	0.2	51.5	11.9	46	5	18.2	11.2	0.04	0.04
C-348885	4520	Iroquois	0.2	49.7	15.7	53	6	24.4	14.9	0.02	0.05
C-348781	9744	Iroquois	0.3	47.2	5.6	38	<5	17.2	9.7	0.04	0.03
C-348669	9744	Iroquois	0.3	44.3	5.7	37	<5	20.6	10.6	0.04	0.04
C-348888	9744	Iroquois	0.2	49.4	11.3	38	<5	20.6	13.1	0.03	0.04

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Lab no.	Site ID	County	Cd (mg/kg)	Ce (mg/kg)	Co (mg/kg)	Cr (mg/kg)	Cs (mg/kg)	Cu (mg/kg)	Ga (mg/kg)	Hg (µg/g)	In (mg/kg)
C-348396	3828	Jefferson	0.1	53.6	6.9	32	<5	13.3	7.3	0.02	0.03
C-348806	3828	Jefferson	<0.1	61.9	6.8	32	<5	11.2	8.3	0.02	0.03
C-348567	3828	Jefferson	0.1	72.2	10.2	38	<5	14.3	12.2	0.02	0.04
C-348794	8168	Jo Daviess	0.2	59.2	12.0	51	<5	16.7	10.2	0.04	0.03
C-348681	8168	Jo Daviess	0.3	62.1	12.1	46	<5	18.1	11.1	0.04	0.03
C-348901	8168	Jo Daviess	0.1	58.6	15.4	55	6	19.4	19.0	0.03	0.06
C-348391	1780	Johnson	0.1	67.7	15.3	40	<5	16.3	9.8	0.04	0.03
C-348801	1780	Johnson	0.1	70.2	14.8	39	<5	15.0	9.6	0.04	0.03
C-348562	1780	Johnson	<0.1	64.6	8.7	33	<5	18.1	11.8	0.01	0.03
C-348785	10408	Kane	0.4	58.9	12.8	48	<5	20.2	9.9	0.05	0.03
C-348768	10408	Kane	0.8	59.2	13.3	49	<5	19.7	10.2	0.06	0.03
C-348892	10408	Kane	0.3	43.2	14.9	41	<5	35.3	11.7	0.03	0.04
C-348780	424	Kankakee	0.3	63.3	9.1	43	<5	13.7	9.3	0.04	0.03
C-348668	424	Kankakee	0.3	54.4	10.7	40	<5	13.7	11.0	0.03	0.04
C-348887	424	Kankakee	0.2	51.2	11.0	44	<5	17.9	13.6	0.05	0.04
C-348782	7952	Kankakee	0.2	17.0	2.8	10	<5	5.1	4.4	0.02	<0.02
C-348670	7952	Kankakee	0.2	18.7	3.4	14	<5	7.1	5.4	0.02	<0.02
C-348889	7952	Kankakee	<0.1	11.9	1.6	3	<5	2.9	4.0	<0.01	<0.02
C-348777	8616	Kankakee	0.3	52.4	11.6	50	5	21.4	11.1	0.03	0.04
C-348665	8616	Kankakee	0.3	49.7	10.5	48	5	22.2	11.8	0.03	0.04
C-348884	8616	Kankakee	0.2	52.1	18.6	48	6	33.4	15.0	0.03	0.05
C-348626	5800	Knox	0.1	59.1	8.6	41	<5	16.1	10.7	0.02	0.03
C-348653	5800	Knox	0.2	58.7	9.7	45	<5	16.6	11.7	0.02	0.03
C-348765	5800	Knox	0.5	70.1	13.7	43	<5	26.1	12.4	0.04	0.04
C-348620	10152	Knox	0.3	55.2	16.7	62	6	29.1	15.8	0.07	0.05
C-348647	10152	Knox	0.3	60.0	17.5	64	7	26.5	18.1	0.06	0.06
C-348759	10152	Knox	0.2	70.5	13.4	45	5	23.3	13.4	0.03	0.05
C-348774	3240	LaSalle	0.4	67.2	16.2	62	6	21.1	13.5	0.03	0.05
C-348662	3240	LaSalle	0.3	60.4	15.3	61	6	21.2	13.0	0.03	0.04
C-348881	3240	LaSalle	0.3	49.9	19.5	52	6	32.3	15.6	0.03	0.05
C-348773	7336	LaSalle	0.5	50.2	7.3	44	<5	15.4	9.5	0.06	0.03
C-348661	7336	LaSalle	0.5	49.7	7.2	38	<5	15.7	9.2	0.06	0.03
C-348880	7336	LaSalle	0.3	37.9	7.5	29	<5	9.6	8.9	0.02	0.02
C-348791	5032	Lee	0.2	47.3	9.0	35	<5	15.4	9.1	0.02	0.03
C-348678	5032	Lee	0.2	48.1	9.5	40	<5	15.2	10.2	0.03	0.03
C-348898	5032	Lee	<0.1	31.3	7.1	16	<5	13.7	9.5	0.02	0.02
C-348792	9128	Lee	0.3	57.2	9.3	48	<5	24.8	10.3	0.04	0.03
C-348679	9128	Lee	0.3	55.3	9.4	48	<5	20.3	10.4	0.05	0.03
C-348899	9128	Lee	0.2	37.1	7.7	18	<5	14.4	8.8	0.02	0.03
C-348586	680	Logan	0.3	68.6	11.7	45	<5	18.5	12.4	0.03	0.04
C-348593	680	Logan	0.3	63.2	10.3	46	<5	16.6	10.8	0.03	0.04
C-348600	680	Logan	0.3	63.5	11.9	49	<5	22.9	11.7	0.02	0.04
C-348609	8872	Logan	0.4	62.3	13.3	40	<5	16.7	9.1	0.04	0.03
C-348636	8872	Logan	0.4	65.5	14.1	35	<5	15.5	10.2	0.03	0.03
C-348748	8872	Logan	0.1	74.9	13.4	44	5	27.3	12.8	0.03	0.05
C-348911	264	Madison	0.6	52.9	7.1	36	<5	17.2	8.4	0.04	0.03
C-348829	264	Madison	0.5	48.5	6.4	38	<5	166.0	8.1	0.04	0.03
C-348480	264	Madison	0.2	59.6	7.6	32	<5	17.4	10.6	0.03	0.04
C-348406	4084	Marion	0.4	44.2	6.4	34	<5	17.0	6.8	0.05	0.02
C-348816	4084	Marion	0.4	49.5	8.6	42	<5	14.9	9.1	0.05	0.03
C-348577	4084	Marion	0.1	51.8	7.3	29	<5	13.0	10.4	0.03	0.03
C-348405	5108	Marion	0.2	60.3	15.4	35	<5	11.4	7.7	0.05	0.03
C-348815	5108	Marion	0.2	63.6	17.4	36	<5	12.8	8.6	0.04	0.03
C-348576	5108	Marion	<0.1	54.3	5.9	26	<5	12.5	9.2	<0.01	0.03
C-348619	1960	Marshall	0.4	60.6	9.1	45	<5	16.8	12.0	0.03	0.04
C-348646	1960	Marshall	0.4	61.3	9.6	48	<5	15.7	11.9	0.03	0.04
C-348758	1960	Marshall	0.4	69.7	15.7	45	<5	25.9	12.6	0.03	0.04
C-348606	6568	McLean	0.3	67.1	13.5	49	<5	23.0	12.0	0.06	0.04

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C-348633	6568	McLean	0.2	62.5	12.4	40	<5	19.4	11.0	0.04	0.04
C-348745	6568	McLean	0.2	70.7	14.4	54	6	21.4	14.9	0.05	0.05
C-348587	6824	McDonough	0.2	60.9	9.6	42	<5	16.5	10.2	0.03	0.03
C-348594	6824	McDonough	0.2	65.2	10.7	45	<5	16.6	11.0	0.03	0.04
C-348601	6824	McDonough	<0.1	54.8	7.3	41	<5	17.1	11.7	0.04	0.04
C-348625	12968	McDonough	0.3	61.6	9.2	39	<5	13.5	8.5	0.04	0.03
C-348652	12968	McDonough	0.3	64.0	10.6	37	<5	12.7	10.1	0.03	0.03
C-348764	12968	McDonough	0.3	78.8	14.9	41	<5	24.9	12.7	0.04	0.05
C-348789	2104	McHenry	0.2	52.0	12.1	53	<5	18.4	11.4	0.03	0.04
C-348676	2104	McHenry	0.1	54.9	12.7	48	<5	18.0	12.3	0.03	0.04
C-348896	2104	McHenry	0.1	42.6	11.2	31	<5	18.8	12.4	0.02	0.04
C-348607	10664	McLean	0.2	65.4	13.3	65	<5	54.5	11.8	0.02	0.04
C-348634	10664	McLean	0.2	66.5	13.2	54	<5	49.7	12.7	0.02	0.04
C-348746	10664	McLean	0.2	32.5	8.5	28	<5	17.5	8.3	0.01	0.04
C-348623	3816	Mercer	0.2	57.0	7.8	34	<5	11.2	9.6	0.02	0.02
C-348650	3816	Mercer	0.2	53.0	7.5	34	<5	10.4	9.7	0.03	<0.02
C-348762	3816	Mercer	0.2	58.1	9.7	30	<5	16.9	10.9	0.03	0.03
C-348916	1288	Montgomery	0.1	41.8	5.7	27	<5	13.9	7.0	0.03	0.02
C-348834	1288	Montgomery	0.1	47.3	6.4	28	<5	11.9	8.2	0.03	0.02
C-348485	1288	Montgomery	<0.1	57.3	8.5	31	<5	17.2	12.2	0.03	0.04
C-348912	7176	Morgan	0.2	50.8	9.2	32	<5	17.4	8.1	0.04	0.02
C-348830	7176	Morgan	0.2	50.2	8.8	32	<5	81.2	8.1	0.04	0.02
C-348481	7176	Morgan	<0.1	44.4	7.9	32	<5	19.6	9.5	0.04	0.04
C-348915	9480	Morgan	0.2	59.6	12.5	41	<5	19.5	10.4	0.03	0.03
C-348833	9480	Morgan	0.2	62.9	13.6	41	<5	16.2	12.0	0.03	0.04
C-348484	9480	Morgan	0.2	61.3	9.6	34	<5	21.1	11.7	0.03	0.04
C-348618	3752	Peoria	0.4	60.4	12.4	43	<5	19.7	11.2	0.08	0.04
C-348645	3752	Peoria	0.4	65.8	12.9	46	<5	18.9	12.1	0.07	0.04
C-348757	3752	Peoria	0.1	43.0	9.7	22	<5	15.3	9.5	0.02	0.03
C-348612	10248	Pike	0.4	59.5	9.3	33	<5	17.4	9.4	0.05	0.03
C-348639	10248	Pike	0.4	54.4	8.6	26	<5	15.2	8.5	0.06	0.03
C-348751	10248	Pike	0.2	64.2	11.3	45	<5	20.6	11.9	0.03	0.04
C-348392	13044	Pope	0.3	64.3	10.7	32	<5	11.3	7.4	0.07	0.03
C-348802	13044	Pope	0.7	55.4	10.7	23	<5	11.4	4.2	0.10	<0.02
C-348563	13044	Pope	<0.1	69.7	7.5	37	<5	18.8	11.5	0.02	0.04
C-348388	2804	Randolph	<0.1	47.6	3.8	25	<5	8.6	7.3	0.03	0.02
C-348798	2804	Randolph	<0.1	52.6	4.6	27	<5	7.4	7.6	0.03	0.02
C-348559	2804	Randolph	0.2	62.6	9.5	33	<5	18.0	13.2	0.03	0.04
C-348389	8200	Randolph	0.3	58.9	9.0	28	<5	11.3	8.1	0.03	0.03
C-348799	8200	Randolph	0.2	60.6	9.5	29	<5	10.6	7.8	0.02	0.02
C-348560	8200	Randolph	0.1	66.9	12.0	37	<5	22.9	13.0	0.03	0.05
C-348402	1516	Richland	0.2	54.6	6.7	30	<5	14.0	8.1	0.04	0.03
C-348812	1516	Richland	0.1	49.5	6.3	26	<5	12.5	8.3	0.04	0.03
C-348573	1516	Richland	0.2	70.4	7.9	24	<5	12.4	10.5	0.01	0.03
C-348394	9972	Saline	0.3	64.5	13.2	34	<5	14.1	7.2	0.03	0.03
C-348804	9972	Saline	0.2	76.4	16.0	39	<5	14.1	7.9	0.03	0.03
C-348565	9972	Saline	<0.1	73.2	10.2	34	<5	19.5	11.4	0.01	0.04
C-348610	11944	Sangamon	0.2	61.0	12.0	40	<5	14.1	9.2	0.02	0.03
C-348637	11944	Sangamon	0.2	64.3	13.7	39	<5	14.5	9.8	0.03	0.03
C-348749	11944	Sangamon	0.2	63.3	10.4	34	<5	18.4	11.0	0.02	0.04
C-348616	2728	Schuyler	0.2	57.4	7.0	36	<5	11.8	8.9	0.02	0.03
C-348643	2728	Schuyler	0.2	63.1	9.8	38	<5	11.5	9.5	0.02	0.03
C-348755	2728	Schuyler	0.2	69.0	10.8	43	<5	18.7	12.4	0.03	0.04
C-348909	4104	St. Clair	0.3	51.3	6.7	33	<5	20.2	8.5	0.03	0.03
C-348827	4104	St. Clair	0.3	49.5	6.0	41	<5	21.0	8.6	0.03	0.02
C-348478	4104	St. Clair	0.3	64.6	12.5	42	<5	27.1	11.4	0.04	0.05
C-348621	4008	Stephenson	0.2	58.4	8.5	40	<5	18.3	10.7	0.03	0.03
C-348648	4008	Stephenson	0.2	63.2	10.0	45	<5	15.1	12.0	0.04	0.03

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C-348760	4008	Stephenson	0.2	67.5	10.4	48	<5	22.4	12.8	0.04	0.04
C-348793	5096	Stephenson	0.2	63.7	12.5	50	<5	17.9	10.7	0.02	0.04
C-348680	5096	Stephenson	0.2	62.1	13.3	49	<5	16.4	11.5	0.03	0.04
C-348900	5096	Stephenson	0.2	47.0	9.8	30	<5	19.6	11.2	0.03	0.03
C-348603	9192	Stephenson	0.2	57.8	11.7	49	<5	20.9	10.7	0.06	0.03
C-348630	9192	Stephenson	0.2	58.0	11.3	40	<5	18.8	10.5	0.07	0.03
C-348742	9192	Stephenson	0.2	87.5	13.5	68	7	37.9	21.5	0.11	0.08
C-348617	10920	Tazewell	0.7	30.1	6.2	21	<5	45.2	6.7	0.07	0.02
C-348644	10920	Tazewell	0.8	29.9	6.6	25	<5	26.8	7.0	0.07	0.02
C-348756	10920	Tazewell	0.4	37.2	8.3	25	<5	12.7	7.7	0.03	0.02
C-348401	9204	Wayne	<0.1	41.4	4.6	21	<5	12.8	5.4	0.04	<0.02
C-348811	9204	Wayne	0.1	52.2	5.5	22	<5	11.9	5.9	0.09	0.02
C-348572	9204	Wayne	<0.1	60.3	8.5	25	<5	12.5	10.0	0.01	0.03
C-348400	12020	White	0.4	50.4	8.9	38	<5	23.7	7.7	0.08	0.03
C-348810	12020	White	0.4	55.5	9.3	33	<5	19.0	8.1	0.10	0.03
C-348571	12020	White	0.3	56.0	11.2	31	<5	18.9	12.6	0.02	0.04
C-348398	5356	White	0.1	61.5	11.4	38	<5	50.7	11.0	0.03	0.04
C-348808	5356	White	0.1	67.8	12.0	40	<5	22.6	11.2	0.03	0.04
C-348569	5356	White	<0.1	55.6	8.8	33	<5	19.1	10.8	0.03	0.04
C-348771	936	Whiteside	0.3	31.6	6.6	26	<5	12.7	6.5	0.03	<0.02
C-348659	936	Whiteside	0.5	43.1	8.7	35	<5	16.5	9.0	0.04	0.03
C-348878	936	Whiteside	0.2	37.5	7.4	34	<5	11.8	8.8	0.03	0.02
C-348627	7080	Whiteside	0.4	59.1	11.0	45	<5	20.5	12.4	0.04	0.04
C-348654	7080	Whiteside	0.5	57.9	11.4	52	<5	22.8	12.7	0.03	0.04
C-348766	7080	Whiteside	0.6	50.3	13.3	35	<5	17.7	10.9	0.04	0.03
C-348783	12712	Will	0.3	47.4	9.8	42	<5	18.8	8.5	0.04	0.03
C-348671	12712	Will	0.3	47.3	10.9	42	<5	19.7	9.6	0.04	0.03
C-348890	12712	Will	0.2	28.6	6.9	26	<5	17.4	6.8	0.02	0.03
C-348395	5876	Williamson	0.1	55.4	8.7	40	<5	16.1	9.8	0.02	0.04
C-348805	5876	Williamson	0.3	68.7	12.4	41	<5	18.5	11.0	0.03	0.04
C-348566	5876	Williamson	<0.1	65.2	13.0	34	<5	18.2	11.4	0.02	0.04
C-348390	6900	Williamson	0.3	56.3	9.2	36	<5	13.4	8.4	0.07	0.03
C-348800	6900	Williamson	0.4	60.2	10.7	30	<5	12.3	8.1	0.07	0.03
C-348561	6900	Williamson	<0.1	66.1	10.8	41	<5	21.2	13.5	0.03	0.04

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Lab no.	Site ID	County	La (mg/kg)	Li (mg/kg)	Mo (mg/kg)	Nb (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Rb (mg/kg)	Sb (mg/kg)	Sc (mg/kg)
C-348582	9896	Adams	38.8	24	1.8	11.3	42.6	18.9	74.6	0.7	9.0
C-348589	9896	Adams	31.6	15	0.75	10.2	12.7	29.9	69.1	0.84	5.0
C-348596	9896	Adams	32.4	14	0.68	10.6	10.8	27.9	68.6	0.84	4.4
C-348613	12200	Adams	30.8	17	0.5	9.0	13.5	19.3	74.6	0.7	6.1
C-348640	12200	Adams	32.2	17	0.54	10.3	14.4	20.7	78.7	0.71	6.7
C-348752	12200	Adams	39.3	27	1.63	12.1	34.3	19.8	72.8	1.01	10.0
C-348387	13128	Alexander	27.2	22	0.6	8.5	16.1	24.8	62.6	0.7	4.9
C-348797	13128	Alexander	28.8	23	0.66	9.1	17.8	21.4	67.2	1.04	5.9
C-348558	13128	Alexander	32.4	46	1.47	12.7	32.4	30.2	104.0	1.24	13.0
C-348407	11252	Bond	31.0	23	1.2	10.8	14.7	25.0	63.9	0.9	5.8
C-348817	11252	Bond	28.3	23	1.11	9.8	14.7	21.1	67.1	0.89	6.0
C-348578	11252	Bond	36.2	30	0.95	9.3	30.3	16.5	74.5	0.48	7.7
C-348790	6200	Boone	27.6	20	0.8	9.0	17.0	27.2	66.2	0.7	6.3
C-348677	6200	Boone	26.1	20	0.77	8.3	16.6	25.3	67.3	0.57	6.1
C-348897	6200	Boone	26.3	20	0.79	5.6	26.2	11.0	52.1	0.52	7.0
C-348772	6056	Bureau	19.4	20	1.6	5.5	17.0	19.5	54.7	0.5	5.1
C-348660	6056	Bureau	19.6	22	1.63	5.8	17.7	20.9	57.3	0.56	5.3
C-348879	6056	Bureau	12.7	15	1.66	3.1	13.2	13.3	47.7	0.29	3.6
C-348913	3080	Calhoun	26.0	13	0.4	8.4	10.9	16.7	58.5	0.5	4.4
C-348831	3080	Calhoun	29.7	14	0.51	10.4	11.2	29.9	67.4	9.08	4.6
C-348482	3080	Calhoun	35.4	19	1.48	10.4	25.3	17.9	72.7	0.85	8.9
C-348611	7848	Cass	30.6	19	0.8	9.6	16.3	21.4	77.3	0.7	6.9
C-348638	7848	Cass	32.2	19	0.78	9.4	16.4	23.9	80.6	0.73	6.9
C-348750	7848	Cass	29.1	24	1.24	8.6	27.1	16.2	56.8	0.78	7.8
C-348583	2472	Champaign	33.2	34	1.9	10.8	33.1	23.1	101.0	0.9	10.2
C-348590	2472	Champaign	32.0	29	0.64	10.9	19.5	23.0	95.4	0.60	9.0
C-348597	2472	Champaign	31.6	28	0.61	10.3	17.6	21.9	92.8	0.60	7.9
C-348604	7592	Champaign	32.4	24	1.0	9.6	18.4	22.7	79.3	0.8	7.3
C-348631	7592	Champaign	33.2	23	0.99	9.6	17.4	23.9	81.6	0.77	7.1
C-348743	7592	Champaign	23.5	28	1.26	6.7	23.5	16.0	84.7	0.47	7.3
C-348605	9640	Champaign	28.1	22	0.8	8.9	15.5	22.5	83.6	0.6	6.9
C-348632	9640	Champaign	28.7	21	0.78	9.6	14.9	23.8	85.1	0.57	6.7
C-348744	9640	Champaign	33.2	49	1.34	9.4	39.4	20.2	94.5	0.59	11.3
C-348918	2036	Christian	27.2	22	0.9	8.7	16.1	29.3	69.0	0.6	6.7
C-348836	2036	Christian	28.5	24	1.13	10.0	16.5	32.2	72.7	0.73	7.0
C-348487	2036	Christian	36.5	24	1.07	10.4	28.0	19.4	77.0	0.71	9.3
C-348919	6132	Christian	26.3	21	12.3	10.3	29.2	27.2	76.9	0.9	8.5
C-348837	6132	Christian	25.7	23	22.30	10.3	40.5	20.3	74.8	0.82	10.9
C-348488	6132	Christian	30.1	23	0.47	9.6	18.5	16.6	64.8	0.58	8.3
C-348920	10228	Christian	24.7	16	0.7	8.4	10.9	21.4	56.8	0.7	4.8
C-348838	10228	Christian	27.3	14	0.98	9.8	10.9	23.7	65.0	0.78	5.1
C-348489	10228	Christian	36.0	27	0.79	10.6	31.4	20.3	77.0	0.68	9.9
C-348908	492	Clark	26.4	19	0.7	8.4	12.7	18.5	59.6	0.6	5.6
C-348826	492	Clark	26.3	18	0.70	8.9	13.7	18.9	60.2	0.56	6.2
C-348477	492	Clark	32.7	33	1.08	9.9	26.2	18.9	59.5	0.55	7.9
C-348923	4588	Clark	28.5	19	0.7	9.2	12.4	20.1	62.3	0.7	5.4
C-348841	4588	Clark	28.2	21	0.70	10.0	12.3	19.5	62.8	0.67	5.1
C-348492	4588	Clark	33.6	27	0.85	9.5	24.2	17.7	61.7	0.66	8.7
C-348922	11500	Clark	26.2	19	1.0	8.4	11.5	19.4	66.1	0.6	5.0
C-348840	11500	Clark	27.8	20	0.93	9.3	11.2	18.2	62.7	0.58	5.0
C-348491	11500	Clark	27.7	28	0.60	8.1	23.3	15.2	66.2	0.48	7.3
C-348403	1012	Clay	22.5	23	0.8	8.1	13.0	19.4	51.9	0.6	5.6
C-348813	1012	Clay	21.9	22	0.95	8.6	12.7	18.4	61.5	0.61	5.8
C-348574	1012	Clay	23.2	28	1.37	6.5	19.0	13.1	69.9	0.37	6.5
C-348904	10996	Clinton	23.9	17	0.9	7.9	13.4	36.5	55.4	0.7	4.9
C-348822	10996	Clinton	25.4	19	1.10	8.1	14.1	39.8	62.0	0.74	5.2

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C-348473	10996	Clinton	33.5	28	0.72	10.5	28.9	18.2	60.6	0.77	7.1
C-348906	3060	Coles	30.8	24	0.9	10.9	16.8	28.2	84.5	0.8	6.8
C-348824	3060	Coles	29.6	23	0.87	10.4	17.8	25.0	80.5	0.76	7.6
C-348475	3060	Coles	23.7	47	0.76	8.1	30.1	16.0	85.1	0.40	7.7
C-348921	7156	Coles	12.1	10	0.4	3.7	7.7	16.5	46.8	0.2	2.7
C-348839	7156	Coles	14.0	12	0.56	4.2	8.9	21.2	53.7	0.31	2.9
C-348490	7156	Coles	15.3	13	0.43	4.0	10.7	20.1	53.5	0.34	3.5
C-348786	1448	Cook	22.1	38	3.1	9.2	31.4	103.0	84.3	2.2	8.9
C-348673	1448	Cook	25.7	36	2.56	7.9	29.2	75.9	93.0	1.87	9.6
C-348893	1448	Cook	25.7	53	7.24	7.8	38.4	17.1	98.6	0.83	11.1
C-348784	5544	Cook	22.3	28	3.8	7.1	21.7	31.3	68.0	0.9	6.3
C-348672	5544	Cook	22.5	26	3.85	11.3	21.2	30.4	84.5	0.93	7.8
C-348891	5544	Cook	25.3	42	11.40	9.0	38.6	23.9	47.1	1.30	10.3
C-348788	10296	Cook	29.3	37	1.5	9.4	21.4	31.5	86.4	0.8	8.4
C-348675	10296	Cook	30.5	37	1.36	9.5	23.3	29.5	91.0	0.72	8.7
C-348895	10296	Cook	24.6	60	3.22	7.8	34.2	15.9	123.0	0.63	10.1
C-348404	8684	Crawford	26.9	21	1.1	9.4	12.8	30.1	58.6	0.9	4.8
C-348814	8684	Crawford	24.6	19	1.00	8.9	13.9	25.0	64.3	0.77	5.5
C-348575	8684	Crawford	27.1	23	0.91	8.6	19.8	14.4	64.2	0.43	5.9
C-348682	4776	Dewitt	29.6	24	1.0	9.8	17.4	32.4	77.4	0.8	6.9
C-348655	4776	Dewitt	31.8	20	0.98	10.0	16.0	53.9	84.0	0.75	6.8
C-348767	4776	Dewitt	23.0	40	1.36	6.8	24.4	17.1	99.3	0.44	8.0
C-348818	3496	Douglas	26.0	25	0.8	8.9	17.1	25.5	78.3	0.7	7.0
C-348819	3496	Douglas	30.0	27	0.96	10.4	17.8	27.7	76.6	0.72	7.1
C-348579	3496	Douglas	16.7	14	0.44	4.2	13.2	12.3	57.1	0.35	4.7
C-348905	11688	Douglas	30.3	23	0.9	10.1	16.0	27.3	63.5	0.7	6.5
C-348823	11688	Douglas	28.5	25	0.83	9.3	17.4	26.7	76.1	0.69	6.9
C-348474	11688	Douglas	28.7	43	1.00	9.3	28.2	24.6	83.1	0.64	8.6
C-348907	6672	Edgar	16.9	15	1.1	5.9	11.4	20.2	52.2	0.5	4.0
C-348825	6672	Edgar	21.2	16	1.30	8.1	12.2	25.7	65.3	0.60	4.8
C-348476	6672	Edgar	24.3	30	0.77	7.1	25.2	16.3	73.2	0.50	7.4
C-348585	1704	Fulton	37.6	23	2.2	11.3	38.3	19.6	70.4	1.1	8.6
C-348592	1704	Fulton	29.4	15	0.80	10.8	10.0	26.7	70.0	0.79	5.2
C-348599	1704	Fulton	29.4	14	0.84	10.8	9.1	27.1	70.8	0.82	4.9
C-348914	5384	Greene	25.5	19	1.7	8.5	13.3	27.3	65.6	0.9	5.4
C-348832	5384	Greene	25.6	20	1.32	8.9	12.2	20.7	68.5	0.63	5.4
C-348483	5384	Greene	31.3	50	2.13	9.6	36.3	19.9	108.0	0.66	11.3
C-348775	6312	Grundy	31.4	25	1.1	10.4	17.9	38.7	87.0	0.7	7.6
C-348663	6312	Grundy	30.9	24	1.15	10.5	18.5	40.0	89.8	0.76	7.6
C-348882	6312	Grundy	15.4	18	2.21	4.6	13.4	11.3	50.1	0.44	4.8
C-348776	11432	Grundy	29.6	28	1.2	9.4	20.3	21.9	72.7	0.7	7.9
C-348664	11432	Grundy	31.0	30	1.26	9.6	22.2	23.2	86.2	0.70	8.2
C-348883	11432	Grundy	33.2	37	3.15	10.6	35.9	19.8	104.0	0.90	10.8
C-348397	7924	Hamilton	28.9	22	1.3	10.3	15.3	32.7	55.9	0.8	5.1
C-348807	7924	Hamilton	29.2	25	1.34	11.3	15.0	27.4	62.0	0.87	5.9
C-348568	7924	Hamilton	39.1	33	0.93	10.8	21.0	16.8	78.1	0.49	9.8
C-348615	8104	Hancock	30.2	19	0.7	9.6	13.1	21.3	72.7	0.7	6.0
C-348642	8104	Hancock	29.6	18	0.75	9.8	13.9	25.8	70.1	0.70	5.9
C-348754	8104	Hancock	27.3	35	1.48	10.3	23.1	17.7	62.6	0.76	9.2
C-348624	1256	Henderson	10.7	6	0.3	2.8	10.6	21.0	38.5	0.3	2.5
C-348651	1256	Henderson	10.4	5	0.28	2.5	10.3	20.4	39.2	0.27	2.2
C-348763	1256	Henderson	9.8	6	0.16	2.0	11.0	6.7	34.0	0.18	2.1
C-348778	4520	Iroquois	25.2	32	2.4	7.9	22.4	26.1	74.4	0.6	7.5
C-348666	4520	Iroquois	25.7	34	2.49	8.1	22.9	33.5	85.4	0.71	8.1
C-348885	4520	Iroquois	24.8	53	4.95	9.2	34.5	18.9	98.0	0.77	10.8
C-348781	9744	Iroquois	24.4	24	0.9	7.6	15.6	24.3	69.8	0.5	6.9
C-348669	9744	Iroquois	23.6	25	0.88	8.0	16.1	24.5	76.2	0.52	7.4
C-348888	9744	Iroquois	25.2	30	4.08	8.0	23.2	18.3	77.1	0.78	8.0

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C-348396	3828	Jefferson	28.0	19	0.8	8.8	10.8	20.3	51.3	0.7	4.4
C-348806	3828	Jefferson	31.4	19	0.82	9.8	11.4	18.2	60.0	0.72	5.5
C-348567	3828	Jefferson	35.7	26	1.01	10.9	24.9	16.5	78.5	0.62	8.5
C-348794	8168	Jo Daviess	29.1	22	0.8	9.4	18.3	21.0	66.3	0.7	6.9
C-348681	8168	Jo Daviess	30.3	24	0.84	9.5	18.6	29.1	73.8	1.90	7.0
C-348901	8168	Jo Daviess	31.7	42	0.53	11.5	34.7	18.3	65.9	0.43	12.9
C-348391	1780	Johnson	31.8	25	1.2	11.4	17.7	22.7	63.4	0.8	5.8
C-348801	1780	Johnson	31.5	26	1.13	11.2	18.7	19.7	76.3	0.80	6.2
C-348562	1780	Johnson	33.0	23	1.00	10.6	16.7	15.0	68.3	0.56	7.6
C-348785	10408	Kane	28.2	22	2.0	9.9	18.0	28.9	72.6	1.0	6.5
C-348768	10408	Kane	29.0	24	1.89	10.3	18.0	30.1	75.0	0.88	7.0
C-348892	10408	Kane	22.2	35	6.61	6.7	34.6	18.0	77.9	1.00	9.4
C-348780	424	Kankakee	33.5	25	0.9	7.7	18.0	21.7	61.3	0.6	6.7
C-348668	424	Kankakee	28.5	25	0.93	8.2	18.8	21.1	69.1	0.61	7.2
C-348887	424	Kankakee	27.6	36	1.05	8.5	28.2	15.3	71.8	0.63	9.0
C-348782	7952	Kankakee	8.8	7	1.1	2.3	5.8	14.0	33.1	0.3	2.1
C-348670	7952	Kankakee	9.8	7	1.17	2.8	6.6	15.1	37.8	0.27	2.6
C-348889	7952	Kankakee	6.4	4	0.13	1.0	4.2	6.3	34.5	0.11	1.1
C-348777	8616	Kankakee	26.6	81	2.4	8.1	20.7	27.3	90.7	0.7	8.2
C-348665	8616	Kankakee	25.7	32	2.35	7.9	20.5	28.9	96.4	0.68	8.4
C-348884	8616	Kankakee	26.4	40	12.50	9.0	38.6	22.8	82.6	1.10	11.0
C-348626	5800	Knox	31.6	17	0.7	9.5	13.6	18.2	77.5	0.6	6.2
C-348653	5800	Knox	30.8	19	0.75	10.4	14.9	18.2	81.1	0.69	6.5
C-348765	5800	Knox	35.8	27	1.75	10.7	39.1	17.8	64.9	1.05	9.3
C-348620	10152	Knox	27.1	35	2.1	9.0	37.6	39.0	109.0	1.0	11.1
C-348647	10152	Knox	29.1	32	2.01	11.3	37.3	34.4	113.0	0.99	11.8
C-348759	10152	Knox	34.4	30	1.41	11.1	29.0	18.0	69.0	1.01	9.3
C-348774	3240	LaSalle	32.8	41	2.0	10.4	28.9	23.6	94.2	0.8	10.2
C-348662	3240	LaSalle	29.9	41	1.97	10.0	28.8	22.2	93.1	0.74	9.5
C-348881	3240	LaSalle	24.9	45	10.70	8.8	35.3	21.9	109.0	1.07	9.9
C-348773	7336	LaSalle	26.5	21	0.8	8.1	16.3	21.5	63.1	0.6	6.1
C-348661	7336	LaSalle	25.7	21	0.71	7.8	16.7	22.8	65.9	0.57	6.0
C-348880	7336	LaSalle	19.7	17	0.43	5.8	15.7	11.8	59.8	0.31	5.2
C-348791	5032	Lee	23.3	18	0.9	7.1	17.5	38.4	61.8	0.6	5.9
C-348678	5032	Lee	24.6	20	0.91	7.7	19.0	19.2	72.7	0.58	6.1
C-348898	5032	Lee	15.3	16	0.71	5.3	16.3	12.1	100.0	0.36	4.6
C-348792	9128	Lee	29.9	22	0.9	9.8	17.7	24.3	72.0	0.7	7.1
C-348679	9128	Lee	28.2	23	0.86	9.5	17.5	23.4	71.0	0.65	6.6
C-348899	9128	Lee	19.2	23	0.89	5.0	16.9	11.4	99.3	0.48	5.6
C-348586	680	Logan	35.5	20	1.0	12.1	16.2	28.0	93.7	0.8	6.7
C-348593	680	Logan	31.5	19	0.91	10.4	15.2	25.1	84.1	0.74	6.7
C-348600	680	Logan	32.5	24	1.25	9.8	28.7	19.4	68.7	0.87	8.4
C-348609	8872	Logan	34.3	17	1.1	9.6	19.9	23.8	71.4	0.7	5.7
C-348636	8872	Logan	36.6	17	1.21	10.3	18.1	22.6	79.4	0.70	5.8
C-348748	8872	Logan	38.3	29	1.68	10.5	30.1	19.6	85.1	0.90	9.5
C-348911	264	Madison	27.2	14	1.2	9.0	10.4	47.0	64.0	1.1	4.4
C-348829	264	Madison	25.1	15	1.03	8.2	10.6	43.5	59.8	0.95	4.6
C-348480	264	Madison	31.0	28	0.55	10.3	25.1	17.4	55.5	0.57	6.7
C-348406	4084	Marion	22.0	15	1.0	8.5	8.9	54.1	53.3	0.9	3.9
C-348816	4084	Marion	25.2	17	1.40	11.5	9.5	51.6	67.9	1.03	5.5
C-348577	4084	Marion	28.7	22	0.72	9.0	20.1	14.8	62.7	0.46	6.5
C-348405	5108	Marion	31.7	21	0.9	10.4	15.1	27.8	56.6	0.7	4.1
C-348815	5108	Marion	32.7	21	0.95	10.8	15.7	23.2	64.3	0.73	5.1
C-348576	5108	Marion	26.5	23	0.80	8.6	13.3	13.5	62.2	0.50	6.0
C-348619	1960	Marshall	33.0	22	0.9	10.5	15.5	24.4	90.1	0.8	6.9
C-348646	1960	Marshall	32.7	22	0.90	11.1	16.4	24.8	88.3	0.76	7.0
C-348758	1960	Marshall	37.3	31	1.82	10.2	39.7	19.2	65.5	1.15	8.8
C-348606	6568	McLean	33.1	25	1.4	9.4	22.0	32.0	81.4	0.8	7.7

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Lab no.	Site ID	County	La (mg/kg)	Li (mg/kg)	Mo (mg/kg)	Nb (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Rb (mg/kg)	Sb (mg/kg)	Sc (mg/kg)
C-348633	6568	McLean	31.0	22	1.28	8.4	20.2	29.3	76.9	0.71	7.5
C-348745	6568	McLean	35.2	45	1.94	10.6	30.9	20.9	96.5	0.61	10.6
C-348587	6824	McDonough	31.9	18	0.8	9.6	16.2	25.2	71.0	0.7	6.4
C-348594	6824	McDonough	33.6	20	0.82	10.6	17.7	25.6	75.6	0.79	7.0
C-348601	6824	McDonough	30.5	27	0.43	9.5	18.8	14.6	54.7	0.42	8.2
C-348625	12968	McDonough	32.6	15	0.9	9.0	14.7	25.3	69.3	0.6	5.0
C-348652	12968	McDonough	32.4	16	0.85	10.3	16.8	24.1	75.2	0.70	5.4
C-348764	12968	McDonough	37.4	27	1.28	10.7	37.4	17.6	65.3	0.95	9.8
C-348789	2104	McHenry	26.5	34	0.9	8.1	24.4	18.0	70.3	0.5	8.5
C-348676	2104	McHenry	27.1	35	0.94	8.2	23.3	19.1	84.2	0.50	8.5
C-348896	2104	McHenry	21.1	43	0.95	7.2	24.2	10.7	89.5	0.36	7.9
C-348607	10664	Mclean	32.8	25	1.2	9.9	20.5	25.1	85.5	1.0	7.4
C-348634	10664	Mclean	33.4	25	1.19	10.7	19.1	24.8	89.1	1.01	7.9
C-348746	10664	Mclean	15.8	27	1.65	5.6	20.8	15.9	51.9	0.50	6.6
C-348623	3816	Mercer	30.4	12	0.6	8.4	13.7	16.0	66.2	0.5	5.2
C-348650	3816	Mercer	28.7	12	0.63	9.0	14.3	17.1	67.0	0.48	5.4
C-348762	3816	Mercer	29.3	19	0.79	8.5	23.8	13.6	60.3	0.66	7.4
C-348916	1288	Montgomery	21.2	15	0.6	6.7	10.2	16.4	52.3	0.5	4.6
C-348834	1288	Montgomery	23.8	16	0.61	9.8	9.7	16.9	57.6	0.54	4.7
C-348485	1288	Montgomery	31.4	29	0.84	9.3	23.1	18.2	77.2	0.53	8.7
C-348912	7176	Morgan	27.2	15	0.7	8.3	14.6	19.5	61.7	0.6	4.9
C-348830	7176	Morgan	26.7	16	0.69	8.3	15.0	18.2	60.7	0.56	5.1
C-348481	7176	Morgan	22.4	30	1.19	6.5	26.4	17.2	57.4	0.54	6.2
C-348915	9480	Morgan	29.8	22	1.0	9.9	17.7	20.4	73.8	0.8	6.3
C-348833	9480	Morgan	31.6	23	1.09	11.2	17.7	21.6	79.6	0.89	6.7
C-348484	9480	Morgan	32.4	26	0.87	9.5	22.0	16.3	76.9	0.58	8.8
C-348618	3752	Peoria	31.9	21	1.3	9.8	18.3	45.6	77.2	0.9	6.9
C-348645	3752	Peoria	34.5	22	1.30	11.0	18.0	41.3	84.2	0.91	7.0
C-348757	3752	Peoria	21.5	32	1.25	6.0	22.7	12.7	68.2	0.48	6.6
C-348612	10248	Pike	32.3	13	1.2	8.9	15.0	24.8	69.5	0.6	5.0
C-348639	10248	Pike	29.9	11	1.03	7.9	14.1	22.4	64.9	0.50	4.5
C-348751	10248	Pike	30.4	22	0.98	9.6	21.2	16.4	71.0	0.59	8.5
C-348392	13044	Pope	33.6	20	0.9	9.1	13.4	31.7	47.0	0.6	4.1
C-348802	13044	Pope	31.4	11	0.62	5.9	13.9	19.7	29.5	0.46	2.5
C-348563	13044	Pope	34.3	22	1.07	11.1	17.8	15.6	68.1	0.52	8.5
C-348388	2804	Randolph	25.0	15	0.6	8.5	8.2	23.1	51.6	0.5	3.7
C-348798	2804	Randolph	27.0	16	0.58	8.9	9.3	21.6	55.9	1.00	4.2
C-348559	2804	Randolph	34.0	24	0.62	9.4	29.9	16.2	80.6	0.58	8.3
C-348389	8200	Randolph	31.1	16	0.6	9.7	14.1	19.8	60.9	0.7	4.3
C-348799	8200	Randolph	30.2	16	0.60	10.0	14.5	16.5	73.2	0.60	4.6
C-348560	8200	Randolph	34.2	21	1.29	10.5	24.4	18.8	72.6	1.04	8.5
C-348402	1516	Richland	28.1	19	0.7	9.4	11.2	23.7	51.8	0.8	4.9
C-348812	1516	Richland	24.8	18	0.82	9.5	10.5	20.2	55.2	0.67	5.5
C-348573	1516	Richland	39.8	28	0.95	9.2	29.3	15.9	67.2	0.48	6.5
C-348394	9972	Saline	30.6	20	1.1	9.1	15.2	26.2	55.8	0.9	4.0
C-348804	9972	Saline	33.8	24	1.19	10.3	17.7	24.8	59.9	1.00	4.9
C-348565	9972	Saline	37.3	26	0.97	10.8	20.2	15.4	66.9	0.53	8.1
C-348610	11944	Sangamon	30.6	16	0.9	10.1	14.1	24.2	70.7	0.8	5.7
C-348637	11944	Sangamon	31.8	17	0.97	9.2	15.1	25.8	72.7	0.77	6.1
C-348749	11944	Sangamon	32.4	27	0.91	9.4	24.0	16.4	65.0	0.63	8.5
C-348616	2728	Schuyler	30.0	16	0.6	9.8	11.9	20.1	70.6	0.7	5.3
C-348643	2728	Schuyler	32.8	16	0.67	11.1	12.7	23.4	72.9	0.82	5.4
C-348755	2728	Schuyler	35.1	29	1.06	11.1	29.3	16.5	72.3	0.67	8.9
C-348909	4104	St. Clair	26.4	17	0.9	8.9	13.1	26.8	69.8	0.7	5.1
C-348827	4104	St. Clair	25.5	16	0.81	8.4	13.6	26.6	68.6	0.69	5.4
C-348478	4104	St. Clair	35.3	27	0.90	10.5	31.3	19.6	62.4	0.90	7.3
C-348621	4008	Stephenson	31.0	23	0.9	9.2	18.4	20.4	74.5	0.6	6.9
C-348648	4008	Stephenson	32.7	20	0.94	10.3	16.9	20.8	80.4	0.69	6.7

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Lab no.	Site ID	County	La (mg/kg)	Li (mg/kg)	Mo (mg/kg)	Nb (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Rb (mg/kg)	Sb (mg/kg)	Sc (mg/kg)
C-348760	4008	Stephenson	36.5	29	1.14	10.4	26.3	16.9	67.5	0.92	9.1
C-348793	5096	Stephenson	30.2	23	0.9	10.2	18.3	23.3	70.1	0.7	7.2
C-348680	5096	Stephenson	30.3	23	0.89	10.1	17.7	22.7	78.8	0.71	7.0
C-348900	5096	Stephenson	24.3	21	0.90	7.5	22.8	13.8	56.7	0.72	6.9
C-348603	9192	Stephenson	29.3	20	1.0	9.3	18.2	26.3	74.9	0.7	6.6
C-348630	9192	Stephenson	30.1	20	0.94	9.2	18.2	28.3	75.0	0.63	6.4
C-348742	9192	Stephenson	40.8	63	2.00	11.2	60.7	23.7	77.2	1.38	16.4
C-348617	10920	Tazewell	15.5	14	1.1	3.7	14.7	49.2	48.9	0.9	4.0
C-348644	10920	Tazewell	15.3	15	1.24	4.0	14.7	52.4	49.4	0.79	4.2
C-348756	10920	Tazewell	18.9	16	0.84	5.7	16.1	17.9	53.5	0.56	4.8
C-348401	9204	Wayne	22.0	16	0.7	6.7	8.6	17.5	38.2	0.5	3.0
C-348811	9204	Wayne	26.4	12	0.87	8.0	8.3	17.1	46.0	0.56	3.7
C-348572	9204	Wayne	31.6	21	0.84	8.4	14.6	15.2	58.4	0.47	6.6
C-348400	12020	White	25.7	23	1.4	8.6	12.1	50.6	56.7	1.1	4.4
C-348810	12020	White	27.6	20	1.33	9.2	12.2	45.1	59.4	1.04	5.0
C-348571	12020	White	29.1	30	1.61	8.9	25.8	15.8	80.6	0.62	8.5
C-348398	5356	White	30.3	27	1.4	10.5	20.7	28.5	66.1	0.9	7.3
C-348808	5356	White	31.7	29	1.39	10.8	22.8	27.0	68.3	1.17	8.3
C-348569	5356	White	27.3	27	1.01	9.4	19.3	15.2	72.4	0.56	8.0
C-348771	936	Whiteside	16.4	12	0.5	4.6	13.1	14.1	39.8	0.3	4.5
C-348659	936	Whiteside	22.0	16	0.62	6.6	17.2	20.2	51.0	0.52	6.2
C-348878	936	Whiteside	19.4	15	0.37	6.5	12.8	11.1	47.1	0.29	5.5
C-348627	7080	Whiteside	30.9	22	0.4	8.5	20.5	22.6	76.8	0.4	7.5
C-348654	7080	Whiteside	30.3	27	0.45	8.9	22.8	22.4	76.9	0.45	8.5
C-348766	7080	Whiteside	25.6	21	0.74	7.2	31.0	13.6	49.7	0.52	7.5
C-348783	12712	Will	23.8	22	1.8	7.3	18.5	34.6	51.6	1.0	6.1
C-348671	12712	Will	24.4	23	1.83	7.8	18.6	35.8	62.8	0.79	6.6
C-348890	12712	Will	15.0	18	2.41	4.4	16.9	13.7	39.5	0.53	5.3
C-348395	5876	Williamson	28.3	30	0.8	8.8	20.1	17.0	58.2	0.6	6.3
C-348805	5876	Williamson	32.6	31	1.04	10.8	21.2	18.7	77.5	0.82	7.5
C-348566	5876	Williamson	30.9	28	1.03	10.3	20.9	15.9	75.2	0.64	7.8
C-348390	6900	Williamson	27.8	20	0.9	10.3	16.6	20.6	59.1	0.7	4.7
C-348800	6900	Williamson	28.4	20	0.79	9.9	17.6	20.9	58.2	0.71	5.0
C-348561	6900	Williamson	33.9	24	1.64	11.7	20.3	20.2	78.6	1.01	9.0

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Lab no.	Site ID	County	Se (mg/kg)	Sn (mg/kg)	Sr (mg/kg)	Te (mg/kg)	Th (mg/kg)	Tl (mg/kg)	U (mg/kg)	V (mg/kg)	W (mg/kg)
C-348582	9896	Adams	<0.2	1.5	137.0	<0.1	10.9	0.6	3.1	81	1.2
C-348589	9896	Adams	0.5	1.0	115.0	<0.1	9.6	0.4	3.4	62	1.1
C-348596	9896	Adams	0.5	1.0	114.0	<0.1	9.9	0.4	3.5	50	1.2
C-348613	12200	Adams	0.6	1.1	115.0	<0.1	9.7	0.5	3.1	62	1.0
C-348640	12200	Adams	0.6	1.4	119.0	<0.1	10.2	0.5	3.3	64	1.1
C-348752	12200	Adams	<0.2	1.6	142.0	<0.1	12.0	0.7	3.2	89	1.2
C-348387	13128	Alexander	0.4	1.4	171.0	<0.1	9.0	0.5	2.5	51	0.8
C-348797	13128	Alexander	0.5	1.5	169.0	<0.1	8.6	0.5	2.5	60	1.1
C-348558	13128	Alexander	0.3	2.1	122.0	<0.1	11.8	0.8	2.8	148	2.1
C-348407	11252	Bond	0.5	1.5	93.3	<0.1	11.3	0.6	3.4	61	0.9
C-348817	11252	Bond	0.5	2.3	93.4	<0.1	8.9	0.5	2.9	66	1.0
C-348578	11252	Bond	<0.2	1.4	118.0	<0.1	9.2	0.5	2.6	69	0.9
C-348790	6200	Boone	0.5	1.5	92.2	<0.1	8.4	0.5	2.4	61	1.0
C-348677	6200	Boone	0.3	1.2	94.0	<0.1	8.1	0.5	2.2	62	0.9
C-348897	6200	Boone	0.2	0.9	83.3	<0.1	5.8	0.4	1.4	70	0.5
C-348772	6056	Bureau	0.4	0.9	102.0	<0.1	5.5	0.5	1.9	40	0.6
C-348660	6056	Bureau	0.3	1.0	105.0	<0.1	6.2	0.5	2.1	40	0.6
C-348879	6056	Bureau	<0.2	0.6	92.3	<0.1	5.0	0.3	1.3	30	0.2
C-348913	3080	Calhoun	<0.2	1.9	125.0	<0.1	7.3	0.4	2.0	39	0.6
C-348831	3080	Calhoun	0.2	4.4	125.0	<0.1	8.0	0.4	2.3	42	0.8
C-348482	3080	Calhoun	<0.2	1.4	145.0	0.1	10.2	0.7	2.9	81	1.1
C-348611	7848	Cass	0.6	1.2	98.5	<0.1	10.1	0.6	3.2	65	1.2
C-348638	7848	Cass	0.7	1.1	98.5	<0.1	10.3	0.5	3.3	67	1.1
C-348750	7848	Cass	<0.2	1.2	117.0	<0.1	8.5	0.6	2.3	66	0.9
C-348583	2472	Champaign	<0.2	1.7	95.6	<0.1	10.8	0.7	3.0	96	1.3
C-348590	2472	Champaign	0.5	1.7	87.3	<0.1	10.4	0.6	3.5	75	1.3
C-348597	2472	Champaign	0.5	1.5	82.8	<0.1	10.2	0.6	3.5	67	1.3
C-348604	7592	Champaign	0.4	1.3	92.3	<0.1	9.9	0.6	3.1	67	1.2
C-348631	7592	Champaign	0.5	1.4	87.0	<0.1	10.3	0.6	3.3	64	1.1
C-348743	7592	Champaign	<0.2	1.2	95.2	<0.1	7.6	0.5	2.0	51	0.8
C-348605	9640	Champaign	0.3	1.4	87.4	<0.1	8.9	0.5	2.8	58	1.1
C-348632	9640	Champaign	0.4	1.4	83.2	<0.1	9.2	0.5	2.9	54	1.1
C-348744	9640	Champaign	<0.2	1.9	77.9	<0.1	10.2	0.7	2.8	80	1.2
C-348918	2036	Christian	0.5	1.6	109.0	<0.1	8.1	0.5	2.4	59	0.7
C-348836	2036	Christian	0.5	2.2	111.0	<0.1	8.6	0.5	2.7	61	0.9
C-348487	2036	Christian	<0.2	1.4	125.0	<0.1	10.4	0.6	3.1	75	1.1
C-348919	6132	Christian	1.7	1.2	108.0	<0.1	8.9	1.1	4.5	64	1.1
C-348837	6132	Christian	2.8	1.1	135.0	<0.1	9.0	1.4	6.3	89	1.2
C-348488	6132	Christian	<0.2	1.4	133.0	<0.1	9.2	0.5	2.6	63	0.9
C-348920	10228	Christian	0.4	0.9	106.0	<0.1	7.4	0.4	2.4	44	0.6
C-348838	10228	Christian	0.4	1.1	104.0	<0.1	8.4	0.4	2.8	50	0.8
C-348489	10228	Christian	<0.2	1.6	120.0	<0.1	10.9	0.7	2.9	79	1.0
C-348908	492	Clark	0.2	0.9	113.0	<0.1	7.8	0.4	2.4	48	0.6
C-348826	492	Clark	0.3	1.1	119.0	<0.1	7.8	0.5	2.4	55	0.7
C-348477	492	Clark	<0.2	1.3	123.0	<0.1	10.3	0.6	2.5	72	1.0
C-348923	4588	Clark	0.3	1.0	102.0	<0.1	8.4	0.4	2.6	45	0.6
C-348841	4588	Clark	0.4	1.2	105.0	<0.1	8.3	0.4	2.6	46	0.8
C-348492	4588	Clark	0.2	1.3	118.0	<0.1	9.4	0.5	3.0	70	0.9
C-348922	11500	Clark	0.4	0.8	87.1	<0.1	8.2	0.4	2.6	51	0.6
C-348840	11500	Clark	0.5	0.9	88.0	<0.1	9.6	0.4	2.5	53	0.7
C-348491	11500	Clark	<0.2	1.2	100.0	<0.1	7.9	0.5	2.1	55	0.7
C-348403	1012	Clay	0.4	1.1	72.2	<0.1	8.8	0.5	2.7	49	0.6
C-348813	1012	Clay	0.4	1.1	79.4	<0.1	7.3	0.5	2.3	54	0.8
C-348574	1012	Clay	<0.2	1.3	106.0	<0.1	6.6	0.4	1.8	49	0.9
C-348904	10996	Clinton	0.6	1.4	125.0	<0.1	7.2	0.4	2.7	44	0.7
C-348822	10996	Clinton	0.7	1.6	139.0	<0.1	7.6	0.4	3.0	54	0.8

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Lab no.	Site ID	County	Se (mg/kg)	Sn (mg/kg)	Sr (mg/kg)	Te (mg/kg)	Th (mg/kg)	Tl (mg/kg)	U (mg/kg)	V (mg/kg)	W (mg/kg)
C-348473	10996	Clinton	<0.2	1.4	140.0	<0.1	11.3	0.7	3.7	84	0.8
C-348906	3060	Coles	0.4	1.3	88.9	<0.1	9.7	0.6	2.9	57	1.0
C-348824	3060	Coles	0.4	1.3	92.4	<0.1	9.4	0.6	2.8	69	0.9
C-348475	3060	Coles	<0.2	1.5	85.6	<0.1	9.0	0.5	2.0	68	0.8
C-348921	7156	Coles	<0.2	0.8	90.0	<0.1	2.9	0.2	0.8	21	0.2
C-348839	7156	Coles	<0.2	0.9	90.1	<0.1	3.8	0.3	1.0	25	0.3
C-348490	7156	Coles	0.3	7.1	87.3	<0.1	4.1	0.3	1.5	28	0.4
C-348786	1448	Cook	0.9	6.0	106.0	<0.1	7.4	0.9	3.5	73	1.5
C-348673	1448	Cook	0.8	4.4	118.0	<0.1	8.2	0.9	4.1	69	1.1
C-348893	1448	Cook	0.4	1.8	97.8	<0.1	7.9	0.9	3.7	98	0.9
C-348784	5544	Cook	0.4	1.6	93.8	<0.1	6.8	0.7	3.0	56	0.7
C-348672	5544	Cook	0.3	1.5	93.6	<0.1	6.7	0.7	2.9	55	1.1
C-348891	5544	Cook	<0.2	1.7	80.9	<0.1	8.2	1.5	4.7	77	1.0
C-348788	10296	Cook	0.6	1.7	92.7	<0.1	9.0	0.7	3.5	71	1.1
C-348675	10296	Cook	0.6	1.7	95.7	<0.1	9.6	0.7	3.7	78	1.0
C-348895	10296	Cook	<0.2	1.6	106.0	<0.1	7.5	0.8	2.8	82	0.7
C-348404	8684	Crawford	0.4	1.7	86.3	<0.1	9.6	0.5	3.1	52	0.8
C-348814	8684	Crawford	0.5	1.4	90.1	<0.1	7.8	0.5	2.6	56	0.9
C-348575	8684	Crawford	<0.2	1.2	98.3	<0.1	7.8	0.4	2.1	52	0.8
C-348682	4776	Dewitt	0.2	2.0	107.0	<0.1	9.5	0.6	3.0	65	1.0
C-348655	4776	Dewitt	0.4	3.3	103.0	<0.1	10.1	0.6	3.0	60	1.3
C-348767	4776	Dewitt	<0.2	1.2	91.3	<0.1	7.0	0.4	1.8	57	0.8
C-348818	3496	Douglas	0.4	1.5	93.9	<0.1	7.9	0.5	2.5	61	0.8
C-348819	3496	Douglas	0.4	2.1	93.7	<0.1	9.2	0.6	2.9	64	1.0
C-348579	3496	Douglas	<0.2	0.7	96.9	<0.1	4.8	0.3	1.2	38	0.5
C-348905	11688	Douglas	0.4	1.5	94.5	<0.1	9.5	0.6	2.8	57	0.9
C-348823	11688	Douglas	0.5	1.5	96.9	<0.1	8.7	0.6	2.7	64	0.9
C-348474	11688	Douglas	<0.2	1.8	95.7	<0.1	10.5	0.7	2.4	63	0.8
C-348907	6672	Edgar	0.4	1.7	82.1	<0.1	5.2	0.3	1.6	35	0.5
C-348825	6672	Edgar	0.4	2.3	87.5	<0.1	6.4	0.4	2.0	45	0.8
C-348476	6672	Edgar	<0.2	1.3	91.4	<0.1	8.1	0.5	1.8	54	0.8
C-348585	1704	Fulton	<0.2	1.4	122.0	<0.1	11.5	0.7	3.0	85	1.2
C-348592	1704	Fulton	0.6	1.2	111.0	<0.1	9.6	0.5	3.3	60	1.1
C-348599	1704	Fulton	0.6	2.0	108.0	<0.1	10.0	0.5	3.4	57	1.2
C-348914	5384	Greene	0.3	1.0	100.0	<0.1	7.7	0.4	2.4	44	0.6
C-348832	5384	Greene	0.3	1.1	85.3	<0.1	8.1	0.5	2.4	48	0.7
C-348483	5384	Greene	<0.2	1.9	87.1	0.1	9.8	0.7	2.9	84	1.2
C-348775	6312	Grundy	0.6	2.5	99.9	<0.1	9.4	0.6	3.3	67	1.2
C-348663	6312	Grundy	0.5	1.6	94.5	<0.1	10.0	0.6	3.5	69	1.1
C-348882	6312	Grundy	<0.2	0.6	114.0	<0.1	4.4	0.4	1.5	34	0.3
C-348776	11432	Grundy	0.6	1.4	104.0	<0.1	8.9	0.6	3.5	71	1.1
C-348664	11432	Grundy	0.6	1.5	109.0	<0.1	9.8	0.7	3.8	75	1.1
C-348883	11432	Grundy	0.2	1.6	120.0	<0.1	9.8	0.7	3.0	101	1.0
C-348397	7924	Hamilton	0.4	1.4	73.5	<0.1	10.3	0.5	3.2	50	0.9
C-348807	7924	Hamilton	0.4	1.5	84.0	<0.1	10.0	0.5	3.1	54	1.3
C-348568	7924	Hamilton	0.4	1.5	131.0	<0.1	10.6	0.6	3.3	79	1.0
C-348615	8104	Hancock	0.4	2.1	110.0	<0.1	10.1	0.5	3.0	49	1.1
C-348642	8104	Hancock	0.4	1.8	108.0	<0.1	9.6	0.5	3.1	54	1.1
C-348754	8104	Hancock	0.3	1.6	65.3	<0.1	9.4	0.6	2.2	72	1.0
C-348624	1256	Henderson	<0.2	0.8	127.0	<0.1	2.5	0.2	0.7	24	0.3
C-348651	1256	Henderson	<0.2	1.0	114.0	<0.1	2.6	0.3	0.8	21	0.5
C-348763	1256	Henderson	<0.2	0.3	117.0	<0.1	2.2	0.2	0.6	23	0.1
C-348778	4520	Iroquois	0.5	2.3	81.0	<0.1	7.8	0.7	3.2	65	0.9
C-348666	4520	Iroquois	0.5	2.7	82.8	<0.1	8.3	0.7	3.5	61	0.9
C-348885	4520	Iroquois	<0.2	1.6	84.3	<0.1	8.1	0.9	3.6	82	0.9
C-348781	9744	Iroquois	0.5	1.4	101.0	<0.1	7.4	0.6	3.3	55	0.8
C-348669	9744	Iroquois	0.5	1.7	102.0	<0.1	7.6	0.6	3.5	55	0.9
C-348888	9744	Iroquois	<0.2	1.3	120.0	<0.1	7.3	0.7	2.4	61	0.7

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C-348396	3828	Jefferson	0.5	0.9	87.1	<0.1	9.7	0.4	3.1	52	0.9
C-348806	3828	Jefferson	0.4	1.0	91.0	<0.1	9.5	0.4	3.1	55	1.4
C-348567	3828	Jefferson	0.2	1.3	101.0	<0.1	10.5	0.6	3.1	76	1.1
C-348794	8168	Jo Daviess	0.5	1.2	106.0	<0.1	9.0	0.5	2.8	67	1.0
C-348681	8168	Jo Daviess	0.3	1.4	113.0	<0.1	9.9	0.5	3.2	66	1.0
C-348901	8168	Jo Daviess	<0.2	2.0	82.9	<0.1	9.2	0.6	2.1	89	0.9
C-348391	1780	Johnson	0.4	1.2	76.7	<0.1	11.5	0.6	3.4	57	0.9
C-348801	1780	Johnson	0.5	1.3	79.4	<0.1	10.2	0.5	3.2	62	1.0
C-348562	1780	Johnson	<0.2	1.3	126.0	<0.1	9.4	0.5	2.6	66	1.0
C-348785	10408	Kane	0.4	1.6	106.0	<0.1	8.9	0.6	2.9	64	1.1
C-348768	10408	Kane	0.5	1.7	108.0	<0.1	9.1	0.6	3.0	67	1.2
C-348892	10408	Kane	<0.2	1.2	83.6	<0.1	6.2	1.2	3.4	71	0.7
C-348780	424	Kankakee	0.4	1.4	88.8	<0.1	9.8	0.5	1.8	60	0.9
C-348668	424	Kankakee	0.3	1.3	91.9	<0.1	9.0	0.6	2.0	62	0.9
C-348887	424	Kankakee	0.3	1.2	84.9	<0.1	7.7	0.6	1.7	86	0.8
C-348782	7952	Kankakee	0.2	1.1	84.3	<0.1	2.3	0.2	0.8	19	0.3
C-348670	7952	Kankakee	<0.2	1.7	90.3	<0.1	2.5	0.3	1.0	22	0.4
C-348889	7952	Kankakee	<0.2	0.2	85.0	<0.1	1.4	0.2	0.4	9	<0.1
C-348777	8616	Kankakee	0.6	2.0	80.0	<0.1	7.9	0.8	4.2	64	0.9
C-348665	8616	Kankakee	0.5	1.5	82.8	<0.1	8.2	0.8	4.2	64	0.9
C-348884	8616	Kankakee	0.2	1.6	79.5	<0.1	8.2	1.2	5.1	83	0.9
C-348626	5800	Knox	0.6	2.7	108.0	<0.1	9.7	0.5	3.2	63	1.1
C-348653	5800	Knox	0.6	1.2	113.0	<0.1	10.0	0.6	3.4	60	1.2
C-348765	5800	Knox	<0.2	1.4	137.0	<0.1	9.9	0.7	2.7	88	1.4
C-348620	10152	Knox	0.6	1.9	364.0	<0.1	9.9	0.6	2.1	72	1.2
C-348647	10152	Knox	0.5	2.3	343.0	<0.1	10.9	0.7	2.4	76	1.5
C-348759	10152	Knox	0.2	1.4	112.0	<0.1	10.8	0.7	2.9	92	1.1
C-348774	3240	LaSalle	0.5	1.7	93.8	<0.1	10.2	0.8	4.3	87	1.2
C-348662	3240	LaSalle	0.4	1.7	94.0	<0.1	9.9	0.8	4.3	85	1.2
C-348881	3240	LaSalle	0.2	1.7	80.5	<0.1	7.9	1.3	5.0	79	0.9
C-348773	7336	LaSalle	0.5	1.5	115.0	<0.1	7.6	0.5	2.3	55	0.8
C-348661	7336	LaSalle	0.4	1.5	116.0	<0.1	7.8	0.5	2.3	55	0.8
C-348880	7336	LaSalle	<0.2	0.8	100.0	<0.1	5.4	0.4	1.4	44	0.5
C-348791	5032	Lee	0.4	1.3	104.0	<0.1	6.7	0.5	2.0	53	0.7
C-348678	5032	Lee	0.2	1.8	108.0	<0.1	7.5	0.5	2.2	54	0.8
C-348898	5032	Lee	<0.2	0.7	104.0	<0.1	4.4	0.5	1.3	39	0.3
C-348792	9128	Lee	0.5	1.7	103.0	<0.1	8.8	0.5	2.6	66	1.0
C-348679	9128	Lee	0.4	1.4	103.0	<0.1	8.9	0.5	2.5	62	1.0
C-348899	9128	Lee	<0.2	0.8	95.6	<0.1	5.8	0.4	1.4	45	0.4
C-348586	680	Logan	0.4	1.5	99.7	<0.1	11.5	0.6	3.5	64	1.3
C-348593	680	Logan	0.5	1.6	92.6	<0.1	10.3	0.6	3.0	64	1.3
C-348600	680	Logan	<0.2	1.3	120.0	<0.1	9.9	0.6	2.6	74	1.2
C-348609	8872	Logan	0.4	1.2	108.0	<0.1	9.8	0.6	2.9	51	1.1
C-348636	8872	Logan	0.4	1.5	102.0	<0.1	10.3	0.5	3.1	56	1.2
C-348748	8872	Logan	0.2	1.5	114.0	<0.1	11.2	0.7	3.1	86	1.1
C-348911	264	Madison	0.4	3.4	121.0	<0.1	8.0	0.4	3.2	42	0.8
C-348829	264	Madison	0.5	4.5	121.0	<0.1	7.4	0.4	3.0	45	0.7
C-348480	264	Madison	<0.2	1.3	131.0	<0.1	10.3	0.6	2.4	63	0.8
C-348406	4084	Marion	0.5	4.3	91.7	<0.1	8.1	0.4	2.7	33	0.7
C-348816	4084	Marion	0.5	1.7	96.2	<0.1	9.0	0.5	3.0	49	1.4
C-348577	4084	Marion	<0.2	1.1	124.0	<0.1	8.7	0.5	2.3	59	0.9
C-348405	5108	Marion	0.4	1.1	85.2	<0.1	9.7	0.6	2.8	44	0.8
C-348815	5108	Marion	0.5	1.1	88.5	<0.1	8.7	0.5	2.6	52	0.9
C-348576	5108	Marion	<0.2	1.1	91.6	<0.1	7.6	0.4	2.2	55	0.8
C-348619	1960	Marshall	0.6	2.2	94.9	<0.1	10.4	0.6	3.6	69	1.3
C-348646	1960	Marshall	0.6	1.4	93.4	<0.1	10.5	0.7	3.6	64	1.3
C-348758	1960	Marshall	<0.2	1.3	133.0	<0.1	10.6	0.7	2.9	87	1.0
C-348606	6568	McLean	0.4	1.6	101.0	<0.1	10.6	0.6	3.4	69	1.1

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C-348633	6568	McLean	0.4	1.8	92.6	<0.1	9.9	0.5	3.2	64	1.1
C-348745	6568	McLean	<0.2	1.7	91.5	<0.1	10.9	0.8	3.4	92	1.1
C-348587	6824	McDonough	0.4	2.6	95.5	<0.1	10.2	0.5	3.1	59	1.1
C-348594	6824	McDonough	0.5	1.4	102.0	<0.1	10.9	0.5	3.1	65	1.2
C-348601	6824	McDonough	<0.2	1.2	113.0	<0.1	9.4	0.5	2.0	64	1.1
C-348625	12968	McDonough	0.6	1.1	114.0	<0.1	9.7	0.4	2.6	41	1.0
C-348652	12968	McDonough	0.7	2.2	112.0	<0.1	9.9	0.5	2.8	54	1.2
C-348764	12968	McDonough	<0.2	1.3	134.0	<0.1	10.7	0.7	2.7	93	1.0
C-348789	2104	McHenry	0.5	1.6	75.9	<0.1	8.1	0.5	2.4	73	1.0
C-348676	2104	McHenry	0.4	1.4	79.2	<0.1	8.4	0.6	2.6	71	0.9
C-348896	2104	McHenry	<0.2	1.3	108.0	<0.1	6.2	0.5	1.9	57	0.6
C-348607	10664	McLean	0.6	1.6	92.5	<0.1	10.4	0.6	3.5	75	1.1
C-348634	10664	McLean	0.6	1.5	92.2	<0.1	11.1	0.6	3.7	76	1.3
C-348746	10664	McLean	<0.2	1.0	87.0	<0.1	5.2	0.4	1.7	42	0.7
C-348623	3816	Mercer	0.2	1.0	142.0	<0.1	8.9	0.4	2.3	42	0.9
C-348650	3816	Mercer	0.3	1.1	143.0	<0.1	8.5	0.5	2.3	50	1.5
C-348762	3816	Mercer	<0.2	1.1	184.0	<0.1	8.4	0.5	2.1	72	0.8
C-348916	1288	Montgomery	0.3	0.7	104.0	<0.1	6.2	0.3	1.7	32	0.5
C-348834	1288	Montgomery	0.3	0.9	101.0	<0.1	7.4	0.4	2.0	39	0.6
C-348485	1288	Montgomery	<0.2	1.5	100.0	<0.1	9.0	0.6	2.4	68	0.9
C-348912	7176	Morgan	0.3	0.8	99.8	<0.1	7.6	0.4	2.1	33	0.5
C-348830	7176	Morgan	0.4	1.0	102.0	<0.1	7.7	0.4	2.1	44	0.6
C-348481	7176	Morgan	<0.2	1.1	80.7	<0.1	7.5	0.5	2.0	59	0.5
C-348915	9480	Morgan	0.3	1.0	108.0	<0.1	9.0	0.5	2.8	58	0.7
C-348833	9480	Morgan	0.4	1.2	103.0	<0.1	9.9	0.6	3.0	63	0.9
C-348484	9480	Morgan	<0.2	1.3	137.0	<0.1	9.1	0.6	2.4	74	0.9
C-348618	3752	Peoria	0.5	3.9	91.2	<0.1	9.8	0.6	3.0	66	1.1
C-348645	3752	Peoria	0.6	2.2	93.2	<0.1	10.7	0.7	3.1	62	1.3
C-348757	3752	Peoria	<0.2	0.9	108.0	<0.1	6.4	0.5	1.9	54	0.6
C-348612	10248	Pike	0.4	1.5	124.0	<0.1	9.2	0.5	2.6	40	1.0
C-348639	10248	Pike	0.3	1.2	109.0	<0.1	8.5	0.4	2.3	35	0.8
C-348751	10248	Pike	<0.2	1.2	132.0	<0.1	9.7	0.6	2.6	67	0.9
C-348392	13044	Pope	0.4	1.1	96.3	<0.1	9.0	0.5	2.7	33	0.7
C-348802	13044	Pope	0.5	0.8	148.0	<0.1	4.3	0.3	1.5	21	0.6
C-348563	13044	Pope	<0.2	1.3	139.0	<0.1	9.5	0.5	2.6	68	1.1
C-348388	2804	Randolph	0.2	1.0	103.0	<0.1	8.6	0.5	2.4	34	0.5
C-348798	2804	Randolph	0.3	1.0	106.0	<0.1	8.5	0.4	2.3	40	0.7
C-348559	2804	Randolph	<0.2	1.4	159.0	<0.1	9.9	0.5	2.1	75	1.1
C-348389	8200	Randolph	<0.2	0.9	115.0	<0.1	9.3	0.5	2.6	41	0.8
C-348799	8200	Randolph	0.3	0.9	120.0	<0.1	8.4	0.5	2.4	45	1.0
C-348560	8200	Randolph	<0.2	1.5	136.0	<0.1	10.7	0.7	2.8	83	1.3
C-348402	1516	Richland	0.4	1.3	84.9	<0.1	9.5	0.5	3.0	46	0.8
C-348812	1516	Richland	0.4	1.2	91.8	<0.1	7.5	0.4	2.4	55	0.9
C-348573	1516	Richland	<0.2	1.2	97.9	<0.1	9.2	0.5	2.3	56	1.0
C-348394	9972	Saline	0.4	3.0	87.6	<0.1	9.5	0.5	3.0	45	0.8
C-348804	9972	Saline	0.4	1.2	85.9	<0.1	9.7	0.5	3.1	53	1.1
C-348565	9972	Saline	<0.2	1.4	127.0	<0.1	10.1	0.5	2.8	66	1.1
C-348610	11944	Sangamon	0.5	1.1	99.6	<0.1	9.7	0.5	3.2	55	1.1
C-348637	11944	Sangamon	0.5	1.1	104.0	<0.1	10.0	0.4	3.2	60	1.0
C-348749	11944	Sangamon	<0.2	1.3	118.0	<0.1	9.4	0.5	2.4	60	0.9
C-348616	2728	Schuyler	0.5	1.0	111.0	<0.1	9.8	0.4	3.0	57	1.0
C-348643	2728	Schuyler	0.6	1.1	109.0	<0.1	10.2	0.5	3.2	58	1.3
C-348755	2728	Schuyler	<0.2	1.4	128.0	<0.1	10.8	0.6	2.8	81	1.0
C-348909	4104	St. Clair	0.5	1.1	121.0	<0.1	7.9	0.5	2.7	47	0.8
C-348827	4104	St. Clair	0.5	1.4	127.0	<0.1	7.7	0.5	2.5	52	0.8
C-348478	4104	St. Clair	<0.2	1.5	134.0	<0.1	11.5	0.8	3.1	86	1.0
C-348621	4008	Stephenson	0.5	1.5	110.0	<0.1	9.7	0.5	2.6	65	1.0
C-348648	4008	Stephenson	0.6	1.4	97.5	<0.1	10.2	0.6	2.8	59	1.1

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Lab no.	Site ID	County	Se (mg/kg)	Sn (mg/kg)	Sr (mg/kg)	Te (mg/kg)	Th (mg/kg)	Tl (mg/kg)	U (mg/kg)	V (mg/kg)	W (mg/kg)
C-348760	4008	Stephenson	<0.2	1.5	129.0	<0.1	10.0	0.6	2.6	88	1.1
C-348793	5096	Stephenson	0.6	1.6	106.0	<0.1	9.6	0.6	2.6	72	1.2
C-348680	5096	Stephenson	0.5	1.3	108.0	<0.1	9.7	0.6	2.7	69	1.0
C-348900	5096	Stephenson	<0.2	1.0	112.0	<0.1	6.7	0.5	1.8	64	0.6
C-348603	9192	Stephenson	0.5	1.8	107.0	<0.1	9.5	0.5	2.8	64	1.2
C-348630	9192	Stephenson	0.5	2.1	106.0	<0.1	9.3	0.5	2.7	58	1.0
C-348742	9192	Stephenson	<0.2	2.3	58.2	<0.1	12.7	0.8	2.8	125	1.3
C-348617	10920	Tazewell	0.4	5.1	90.9	<0.1	5.1	0.4	1.6	34	0.6
C-348644	10920	Tazewell	0.4	3.6	93.0	<0.1	4.6	0.4	1.6	35	0.7
C-348756	10920	Tazewell	0.3	1.1	91.5	<0.1	5.4	0.4	1.7	39	0.6
C-348401	9204	Wayne	0.3	0.9	74.5	<0.1	7.2	0.3	2.4	36	0.5
C-348811	9204	Wayne	0.3	0.9	73.8	<0.1	7.3	0.3	2.5	37	0.8
C-348572	9204	Wayne	0.2	1.1	90.0	<0.1	8.5	0.5	2.6	58	0.9
C-348400	12020	White	0.5	3.9	131.0	<0.1	8.6	0.5	3.1	46	0.7
C-348810	12020	White	0.5	3.2	109.0	<0.1	8.0	0.4	2.8	47	1.0
C-348571	12020	White	<0.2	1.5	123.0	<0.1	8.6	0.6	2.5	72	1.0
C-348398	5356	White	0.4	1.5	84.3	<0.1	11.1	0.7	3.7	64	0.8
C-348808	5356	White	0.4	2.2	90.1	<0.1	10.2	0.6	3.2	77	1.2
C-348569	5356	White	<0.2	1.2	95.3	<0.1	8.8	0.5	2.3	72	0.9
C-348771	936	Whiteside	0.5	0.9	98.2	<0.1	4.4	0.3	1.3	41	0.4
C-348659	936	Whiteside	0.5	1.1	115.0	<0.1	6.6	0.4	1.9	55	0.7
C-348878	936	Whiteside	0.5	0.8	114.0	<0.1	5.8	0.3	1.4	44	0.5
C-348627	7080	Whiteside	0.5	1.3	99.4	<0.1	9.9	0.5	2.4	67	1.0
C-348654	7080	Whiteside	0.4	1.7	104.0	<0.1	9.1	0.6	2.4	68	1.0
C-348766	7080	Whiteside	<0.2	1.0	131.0	<0.1	8.0	0.5	1.6	80	0.7
C-348783	12712	Will	0.4	2.1	89.4	<0.1	7.0	0.5	2.4	58	0.8
C-348671	12712	Will	0.3	1.6	89.7	<0.1	7.4	0.5	2.5	57	0.9
C-348890	12712	Will	<0.2	0.7	87.9	<0.1	3.8	0.4	1.7	43	0.4
C-348395	5876	Williamson	0.4	1.2	97.3	<0.1	9.8	0.5	2.8	63	0.6
C-348805	5876	Williamson	0.4	1.4	98.3	<0.1	10.3	0.5	3.1	69	1.2
C-348566	5876	Williamson	<0.2	1.3	104.0	<0.1	9.7	0.5	2.4	70	1.0
C-348390	6900	Williamson	0.5	1.3	94.3	<0.1	9.6	0.6	2.7	49	1.0
C-348800	6900	Williamson	0.5	1.5	101.0	<0.1	8.8	0.5	2.5	52	1.0
C-348561	6900	Williamson	0.2	1.6	105.0	<0.1	11.9	0.7	3.4	89	1.3

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Lab no.	Site ID	County	Y (mg/kg)	Zn (mg/kg)
C-348582	9896	Adams	28.3	69
C-348589	9896	Adams	17.2	56
C-348596	9896	Adams	17.0	50
C-348613	12200	Adams	18.2	61
C-348640	12200	Adams	19.5	59
C-348752	12200	Adams	25.5	70
C-348387	13128	Alexander	14.2	99
C-348797	13128	Alexander	17.4	89
C-348558	13128	Alexander	22.8	126
C-348407	11252	Bond	14.6	54
C-348817	11252	Bond	15.0	58
C-348578	11252	Bond	32.3	44
C-348790	6200	Boone	14.9	74
C-348677	6200	Boone	15.0	68
C-348897	6200	Boone	24.2	52
C-348772	6056	Bureau	12.1	201
C-348660	6056	Bureau	12.8	220
C-348879	6056	Bureau	8.7	71
C-348913	3080	Calhoun	14.4	45
C-348831	3080	Calhoun	17.4	41
C-348482	3080	Calhoun	24.1	64
C-348611	7848	Cass	18.2	82
C-348638	7848	Cass	17.9	89
C-348750	7848	Cass	21.1	69
C-348583	2472	Champaign	23.4	92
C-348590	2472	Champaign	21.4	77
C-348597	2472	Champaign	20.6	73
C-348604	7592	Champaign	19.0	71
C-348631	7592	Champaign	19.6	60
C-348743	7592	Champaign	15.0	55
C-348605	9640	Champaign	16.5	77
C-348632	9640	Champaign	16.1	68
C-348744	9640	Champaign	22.3	81
C-348918	2036	Christian	16.6	95
C-348836	2036	Christian	17.8	95
C-348487	2036	Christian	23.2	60
C-348919	6132	Christian	20.8	179
C-348837	6132	Christian	22.9	288
C-348488	6132	Christian	21.3	52
C-348920	10228	Christian	12.0	60
C-348838	10228	Christian	13.9	58
C-348489	10228	Christian	22.2	76
C-348908	492	Clark	15.7	50
C-348826	492	Clark	15.7	46
C-348477	492	Clark	22.4	58
C-348923	4588	Clark	17.0	51
C-348841	4588	Clark	17.4	46
C-348492	4588	Clark	20.6	46
C-348922	11500	Clark	13.9	45
C-348840	11500	Clark	13.2	42
C-348491	11500	Clark	20.3	34
C-348403	1012	Clay	10.6	48
C-348813	1012	Clay	11.8	46
C-348574	1012	Clay	15.3	54

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Lab no.	Site ID	County	Y (mg/kg)	Zn (mg/kg)
C-348904	10996	Clinton	13.1	110
C-348822	10996	Clinton	14.3	128
C-348473	10996	Clinton	20.1	70
C-348906	3060	Coles	17.7	70
C-348824	3060	Coles	17.3	69
C-348475	3060	Coles	12.9	61
C-348921	7156	Coles	7.4	34
C-348839	7156	Coles	9.2	39
C-348490	7156	Coles	8.9	36
C-348786	1448	Cook	15.6	188
C-348673	1448	Cook	18.1	141
C-348893	1448	Cook	15.6	67
C-348784	5544	Cook	11.4	79
C-348672	5544	Cook	12.8	75
C-348891	5544	Cook	16.3	80
C-348788	10296	Cook	17.7	83
C-348675	10296	Cook	18.1	86
C-348895	10296	Cook	14.8	66
C-348404	8684	Crawford	11.8	69
C-348814	8684	Crawford	12.6	71
C-348575	8684	Crawford	18.7	38
C-348682	4776	Dewitt	17.2	103
C-348655	4776	Dewitt	17.7	101
C-348767	4776	Dewitt	14.7	52
C-348818	3496	Douglas	15.8	84
C-348819	3496	Douglas	18.5	80
C-348579	3496	Douglas	12.2	39
C-348905	11688	Douglas	17.8	79
C-348823	11688	Douglas	16.7	88
C-348474	11688	Douglas	16.6	64
C-348907	6672	Edgar	9.0	113
C-348825	6672	Edgar	12.0	99
C-348476	6672	Edgar	15.6	56
C-348585	1704	Fulton	28.4	72
C-348592	1704	Fulton	14.7	47
C-348599	1704	Fulton	14.9	40
C-348914	5384	Greene	15.9	301
C-348832	5384	Greene	14.9	147
C-348483	5384	Greene	18.0	71
C-348775	6312	Grundy	18.7	99
C-348663	6312	Grundy	19.3	97
C-348882	6312	Grundy	12.2	40
C-348776	11432	Grundy	18.2	114
C-348664	11432	Grundy	19.9	117
C-348883	11432	Grundy	23.1	83
C-348397	7924	Hamilton	12.4	75
C-348807	7924	Hamilton	15.8	71
C-348568	7924	Hamilton	27.9	67
C-348615	8104	Hancock	16.4	103
C-348642	8104	Hancock	16.1	127
C-348754	8104	Hancock	17.7	41
C-348624	1256	Henderson	7.4	42
C-348651	1256	Henderson	7.4	37
C-348763	1256	Henderson	6.6	14
C-348778	4520	Iroquois	14.9	93

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Lab no.	Site ID	County	Y (mg/kg)	Zn (mg/kg)
C-348666	4520	Iroquois	15.6	89
C-348885	4520	Iroquois	15.9	85
C-348781	9744	Iroquois	15.4	88
C-348669	9744	Iroquois	16.6	84
C-348888	9744	Iroquois	17.9	76
C-348396	3828	Jefferson	12.5	42
C-348806	3828	Jefferson	16.1	43
C-348567	3828	Jefferson	21.9	52
C-348794	8168	Jo Daviess	15.9	92
C-348681	8168	Jo Daviess	17.8	89
C-348901	8168	Jo Daviess	22.7	57
C-348391	1780	Johnson	14.2	60
C-348801	1780	Johnson	16.0	62
C-348562	1780	Johnson	22.4	52
C-348785	10408	Kane	14.8	116
C-348768	10408	Kane	15.2	139
C-348892	10408	Kane	16.6	78
C-348780	424	Kankakee	19.0	62
C-348668	424	Kankakee	20.2	59
C-348887	424	Kankakee	21.6	64
C-348782	7952	Kankakee	6.1	35
C-348670	7952	Kankakee	7.4	41
C-348889	7952	Kankakee	3.0	9
C-348777	8616	Kankakee	16.2	85
C-348665	8616	Kankakee	16.8	86
C-348884	8616	Kankakee	17.6	87
C-348626	5800	Knox	17.3	68
C-348653	5800	Knox	18.3	65
C-348765	5800	Knox	27.4	74
C-348620	10152	Knox	19.5	47
C-348647	10152	Knox	21.7	41
C-348759	10152	Knox	22.6	74
C-348774	3240	LaSalle	20.1	82
C-348662	3240	LaSalle	19.2	78
C-348881	3240	LaSalle	17.2	89
C-348773	7336	LaSalle	15.6	82
C-348661	7336	LaSalle	15.8	85
C-348880	7336	LaSalle	13.3	53
C-348791	5032	Lee	14.6	83
C-348678	5032	Lee	15.4	86
C-348898	5032	Lee	12.3	39
C-348792	9128	Lee	17.7	78
C-348679	9128	Lee	16.8	74
C-348899	9128	Lee	13.3	42
C-348586	680	Logan	21.4	79
C-348593	680	Logan	18.3	75
C-348600	680	Logan	22.8	78
C-348609	8872	Logan	19.1	72
C-348636	8872	Logan	19.9	83
C-348748	8872	Logan	25.7	84
C-348911	264	Madison	15.1	150
C-348829	264	Madison	14.0	149
C-348480	264	Madison	18.5	47
C-348406	4084	Marion	9.0	143
C-348816	4084	Marion	12.6	102

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Lab no.	Site ID	County	Y (mg/kg)	Zn (mg/kg)
C-348577	4084	Marion	20.3	39
C-348405	5108	Marion	14.6	50
C-348815	5108	Marion	17.9	50
C-348576	5108	Marion	17.1	39
C-348619	1960	Marshall	18.8	80
C-348646	1960	Marshall	18.9	81
C-348758	1960	Marshall	27.2	77
C-348606	6568	McLean	20.4	84
C-348633	6568	McLean	19.0	73
C-348745	6568	McLean	24.4	93
C-348587	6824	McDonough	18.3	67
C-348594	6824	McDonough	19.1	71
C-348601	6824	McDonough	20.6	44
C-348625	12968	McDonough	16.2	63
C-348652	12968	McDonough	17.7	61
C-348764	12968	McDonough	28.6	77
C-348789	2104	McHenry	17.5	62
C-348676	2104	McHenry	17.7	58
C-348896	2104	McHenry	14.8	48
C-348607	10664	McLean	18.8	123
C-348634	10664	McLean	20.0	108
C-348746	10664	McLean	11.2	75
C-348623	3816	Mercer	18.1	48
C-348650	3816	Mercer	18.4	48
C-348762	3816	Mercer	19.6	47
C-348916	1288	Montgomery	12.0	70
C-348834	1288	Montgomery	13.8	54
C-348485	1288	Montgomery	20.6	47
C-348912	7176	Morgan	15.9	41
C-348830	7176	Morgan	15.4	40
C-348481	7176	Morgan	13.8	53
C-348915	9480	Morgan	16.1	57
C-348833	9480	Morgan	16.9	59
C-348484	9480	Morgan	22.3	50
C-348618	3752	Peoria	18.0	101
C-348645	3752	Peoria	19.2	97
C-348757	3752	Peoria	14.9	47
C-348612	10248	Pike	20.1	119
C-348639	10248	Pike	18.6	91
C-348751	10248	Pike	22.0	67
C-348392	13044	Pope	18.0	55
C-348802	13044	Pope	24.9	75
C-348563	13044	Pope	24.3	55
C-348388	2804	Randolph	9.5	27
C-348798	2804	Randolph	11.9	29
C-348559	2804	Randolph	29.5	60
C-348389	8200	Randolph	15.2	50
C-348799	8200	Randolph	17.2	51
C-348560	8200	Randolph	24.6	80
C-348402	1516	Richland	13.9	49
C-348812	1516	Richland	13.7	47
C-348573	1516	Richland	31.4	41
C-348394	9972	Saline	14.6	64
C-348804	9972	Saline	19.0	70

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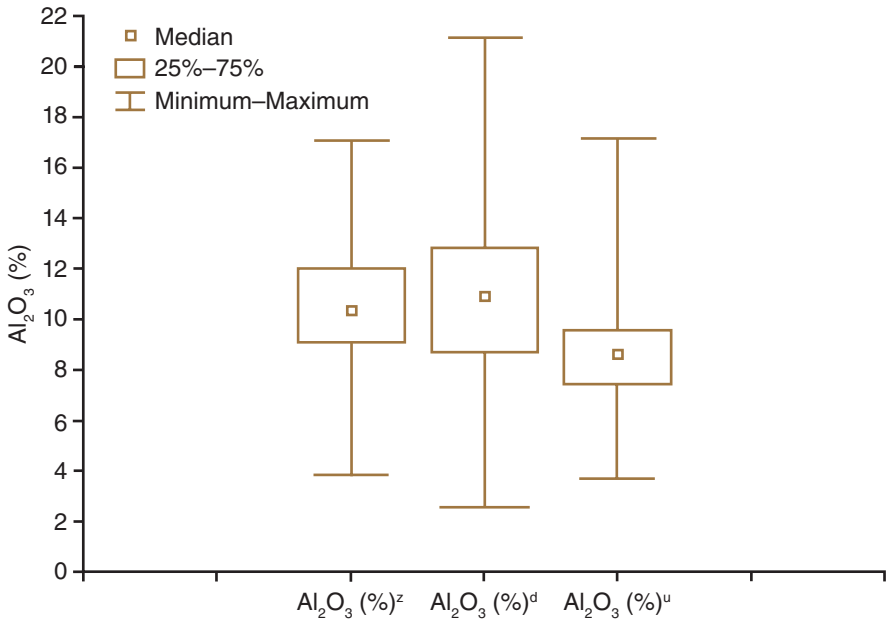
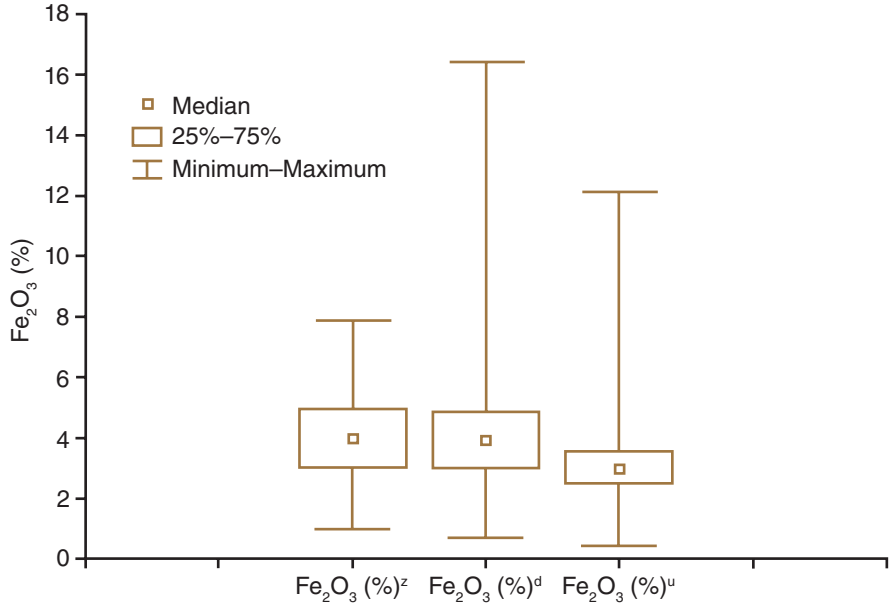
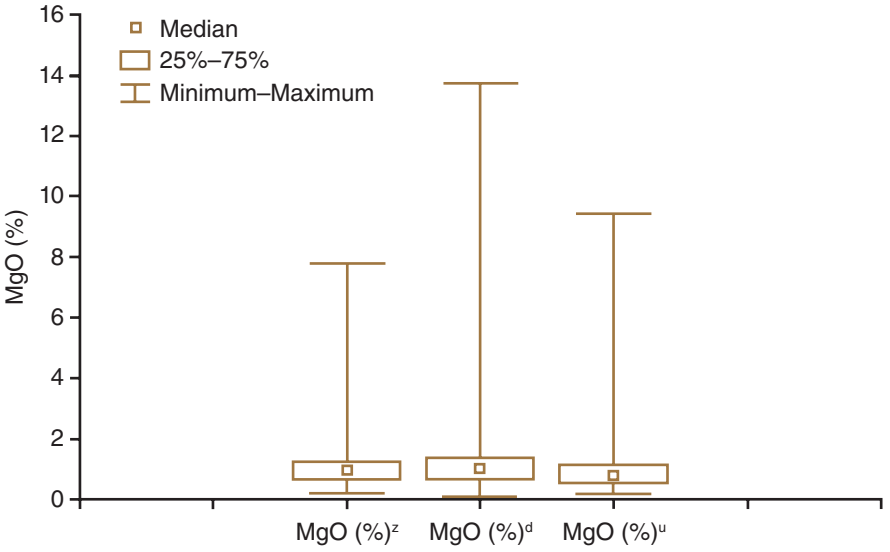
Lab no.	Site ID	County	Y (mg/kg)	Zn (mg/kg)
C-348565	9972	Saline	28.4	59
C-348610	11944	Sangamon	16.8	52
C-348637	11944	Sangamon	16.2	56
C-348749	11944	Sangamon	22.7	69
C-348616	2728	Schuyler	15.1	44
C-348643	2728	Schuyler	16.1	47
C-348755	2728	Schuyler	24.1	63
C-348909	4104	St. Clair	13.9	95
C-348827	4104	St. Clair	13.7	88
C-348478	4104	St. Clair	22.1	84
C-348621	4008	Stephenson	18.3	72
C-348648	4008	Stephenson	19.5	61
C-348760	4008	Stephenson	25.4	68
C-348793	5096	Stephenson	17.0	77
C-348680	5096	Stephenson	16.5	72
C-348900	5096	Stephenson	20.0	55
C-348603	9192	Stephenson	16.3	84
C-348630	9192	Stephenson	16.1	73
C-348742	9192	Stephenson	45.1	161
C-348617	10920	Tazewell	10.4	113
C-348644	10920	Tazewell	11.1	123
C-348756	10920	Tazewell	12.9	58
C-348401	9204	Wayne	10.3	53
C-348811	9204	Wayne	13.5	61
C-348572	9204	Wayne	17.9	40
C-348400	12020	White	11.6	111
C-348810	12020	White	13.4	102
C-348571	12020	White	20.1	66
C-348398	5356	White	15.0	102
C-348808	5356	White	17.1	102
C-348569	5356	White	15.4	62
C-348771	936	Whiteside	11.4	52
C-348659	936	Whiteside	15.9	66
C-348878	936	Whiteside	13.7	60
C-348627	7080	Whiteside	20.2	92
C-348654	7080	Whiteside	20.5	98
C-348766	7080	Whiteside	18.2	61
C-348783	12712	Will	14.8	91
C-348671	12712	Will	14.7	93
C-348890	12712	Will	12.7	68
C-348395	5876	Williamson	14.2	53
C-348805	5876	Williamson	17.6	85
C-348566	5876	Williamson	19.4	53
C-348390	6900	Williamson	10.5	48
C-348800	6900	Williamson	12.5	51
C-348561	6900	Williamson	18.7	74

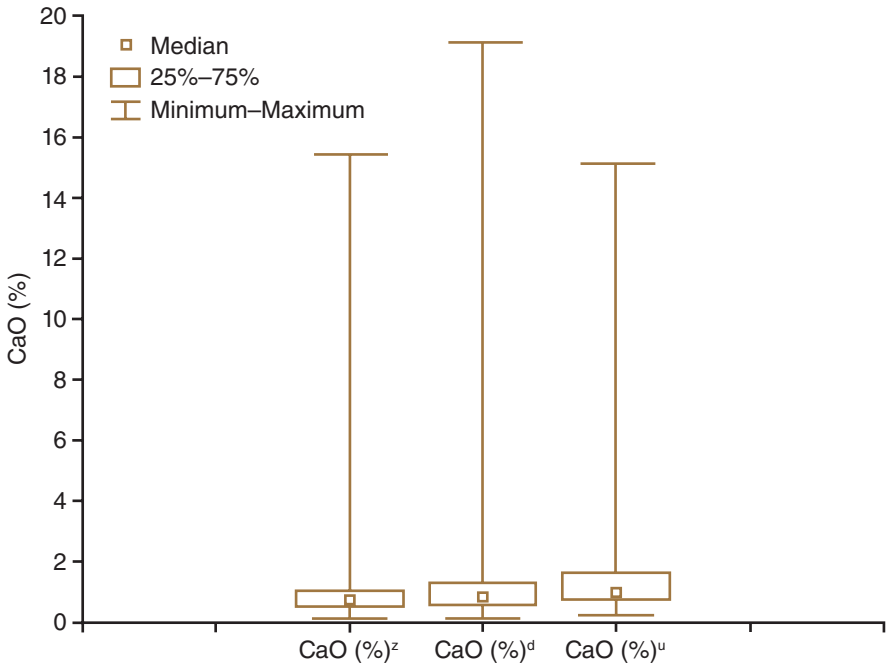
APPENDIX 7—BOX AND WHISKER PLOTS OF CONCENTRATIONS OF VARIOUS ELEMENTS AND COMPOUNDS IN ILLINOIS SOILS (ZHANG AND FROST 2002; DREHER AND FOLLMER SERIES; SMITH ET AL. 2013)

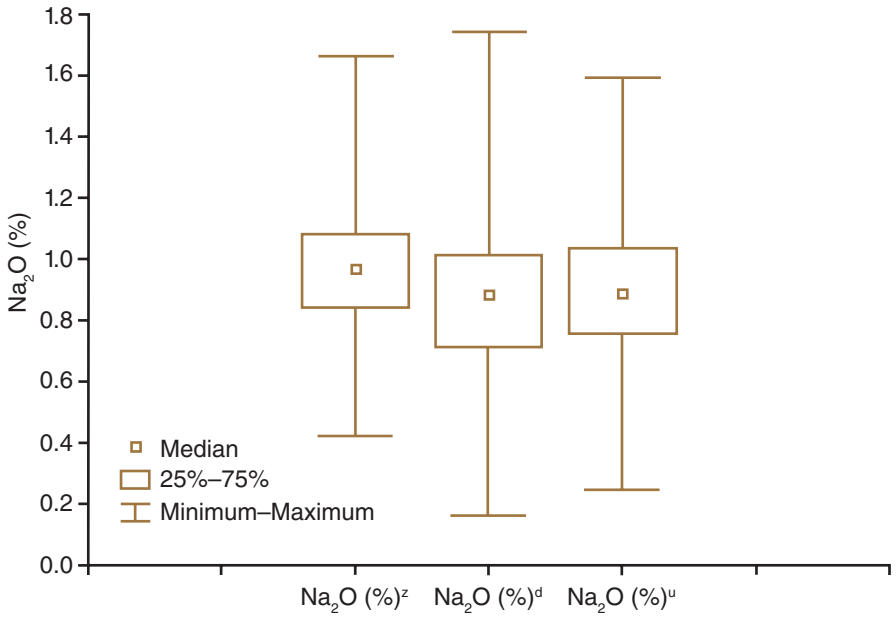
Note: [z]Zhang and Frost (2002); [d]Dreher and Follmer Series (Dreher et al. 2002, 2003a, 2003b; Dreher and Follmer 2004a, 2004b, 2004c, 2005); [u]U.S. Geological Survey (Smith et al. 2013).

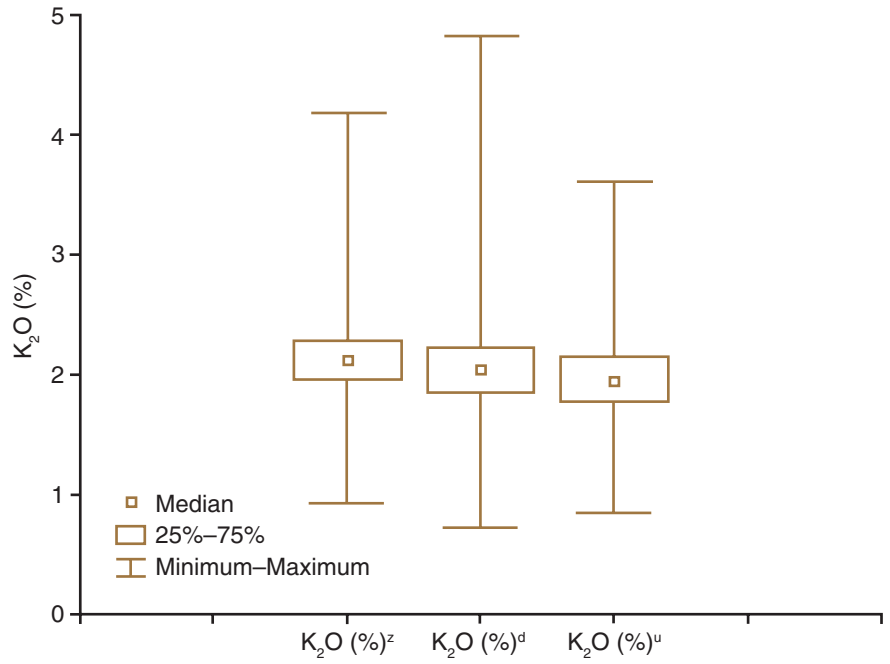


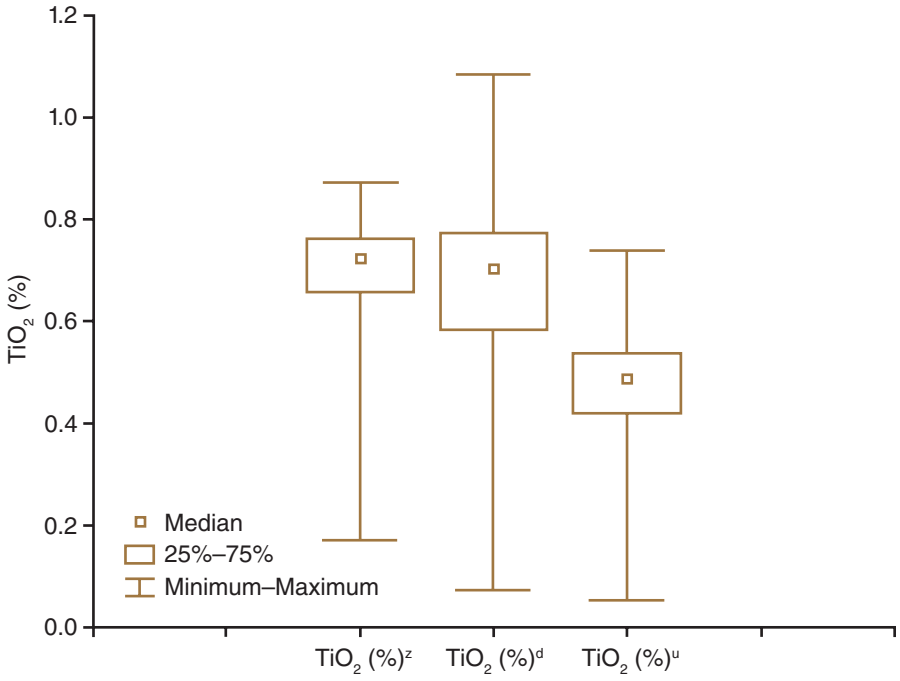


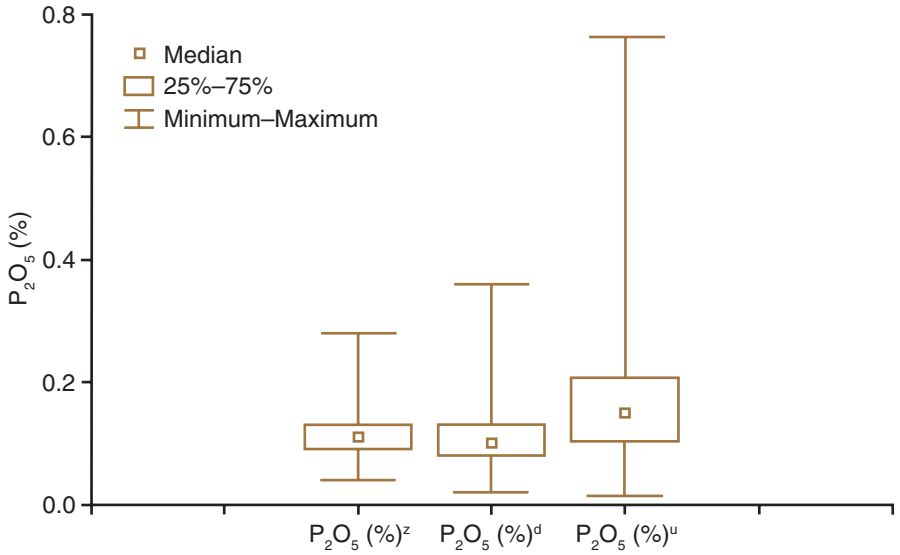

Median
25%–75%
Minimum–Maximum
MgO (%)
16
14
12
10
8
6
4
2
0
MgO (%)z
MgO (%)d
MgO (%)u

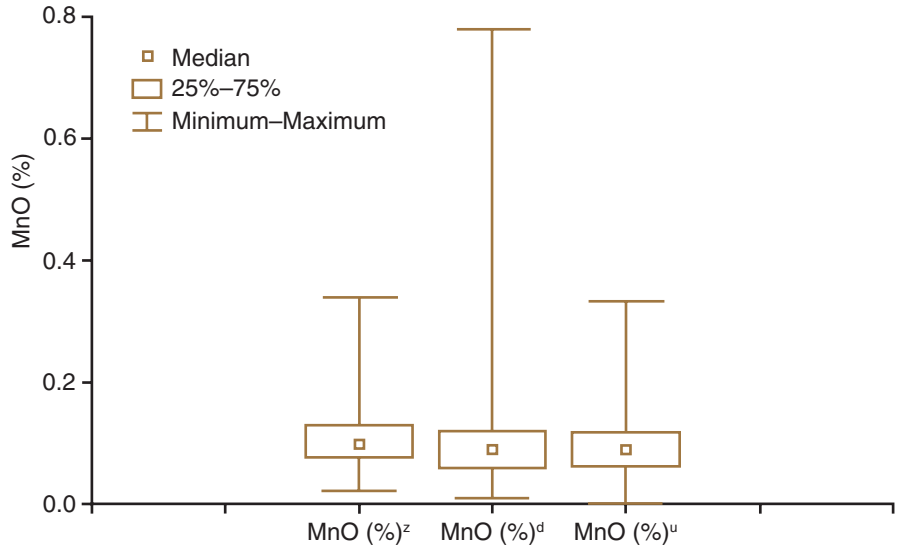

Median
25%–75%
Minimum–Maximum
CaO (%)
20
18
16
14
12
10
8
6
4
2
0
CaO (%)z
CaO (%)d
CaO (%)u

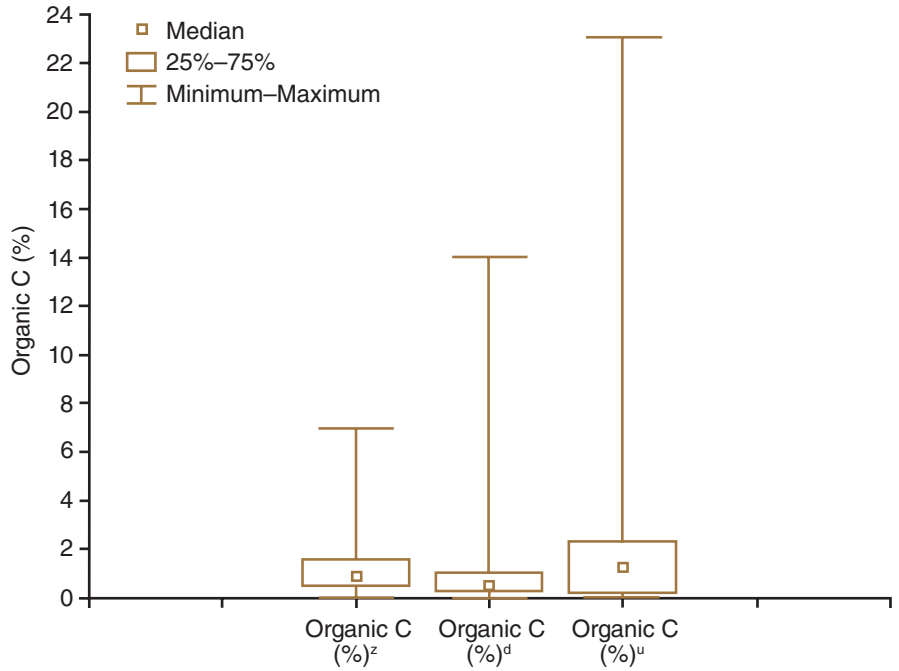

1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Na2O (%)
Median
25%–75%
Minimum–Maximum
Na2O (%)z
Na2O (%)d
Na2O (%)u

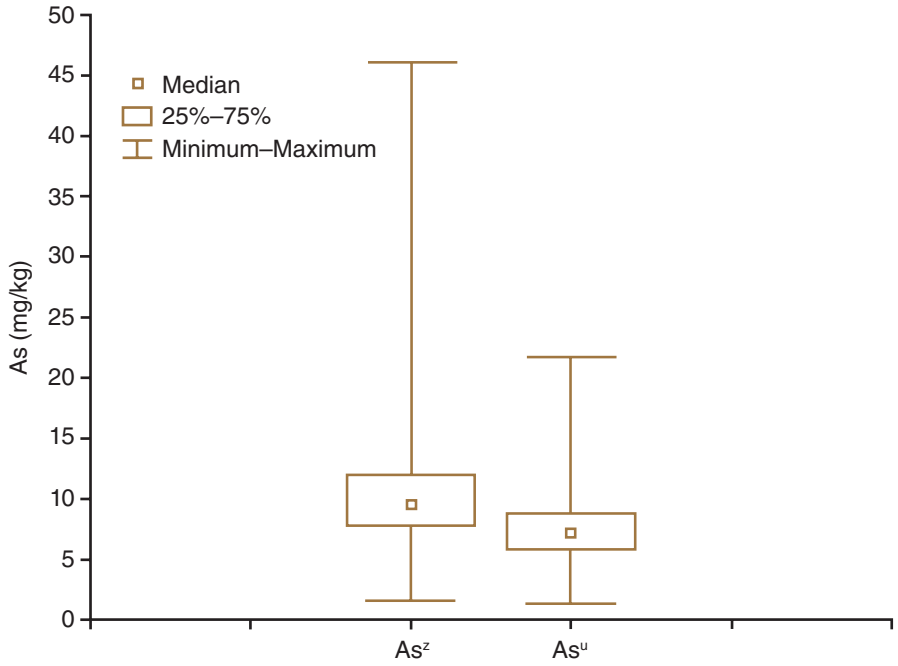

5
4
3
2
1
0
K2O (%)
Median
25%–75%
Minimum–Maximum
K2O (%)z
K2O (%)d
K2O (%)u

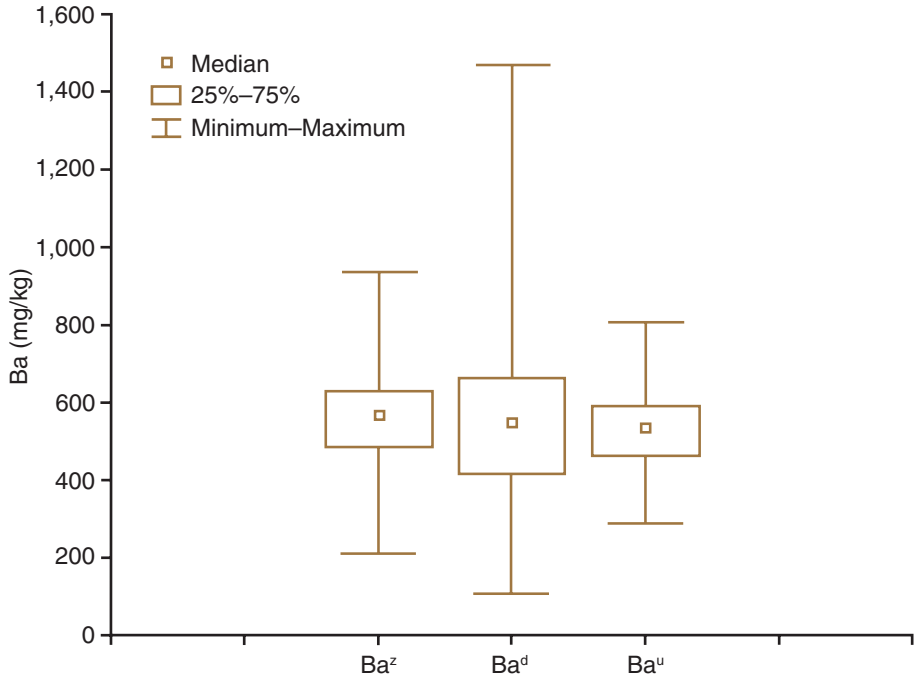

1.2
1.0
0.8
0.6
0.4
0.2
0.0
TiO2 (%)
Median
25%–75%
Minimum–Maximum
TiO2 (%)z
TiO2 (%)d
TiO2 (%)u

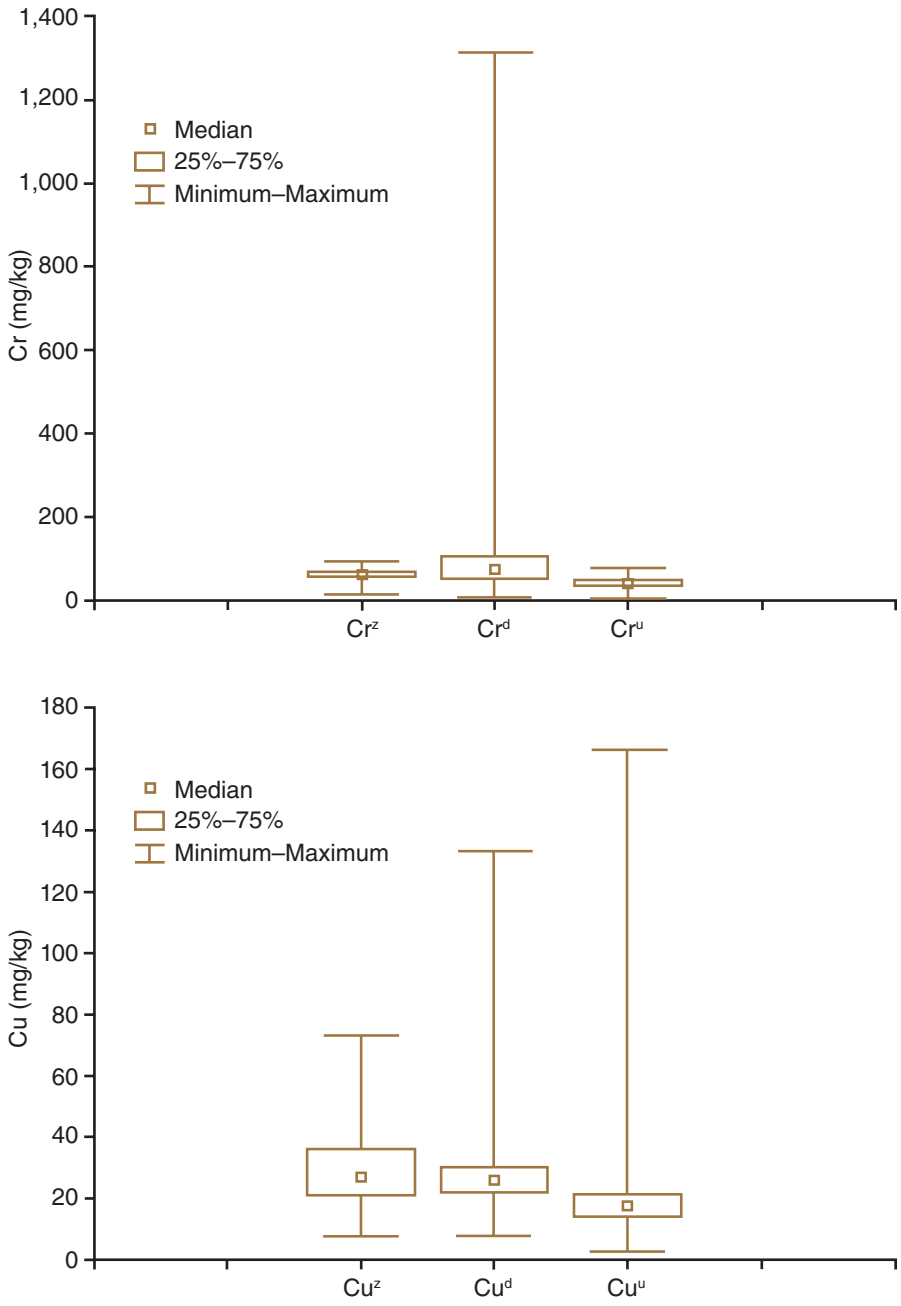

0.8
0.6
0.4
0.2
0.0
P2O5 (%)
Median
25%–75%
Minimum–Maximum
P2O5 (%)z
P2O5 (%)d
P2O5 (%)u

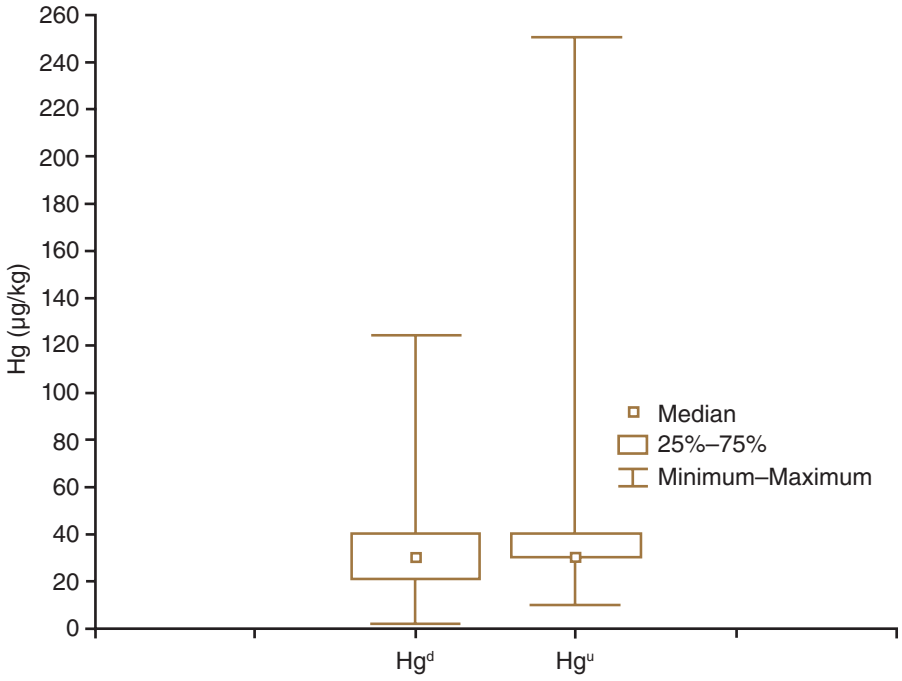

Median
25%–75%
Minimum–Maximum
MnO (%)
0.8
0.6
0.4
0.2
0.0
MnO (%)z
MnO (%)d
MnO (%)u

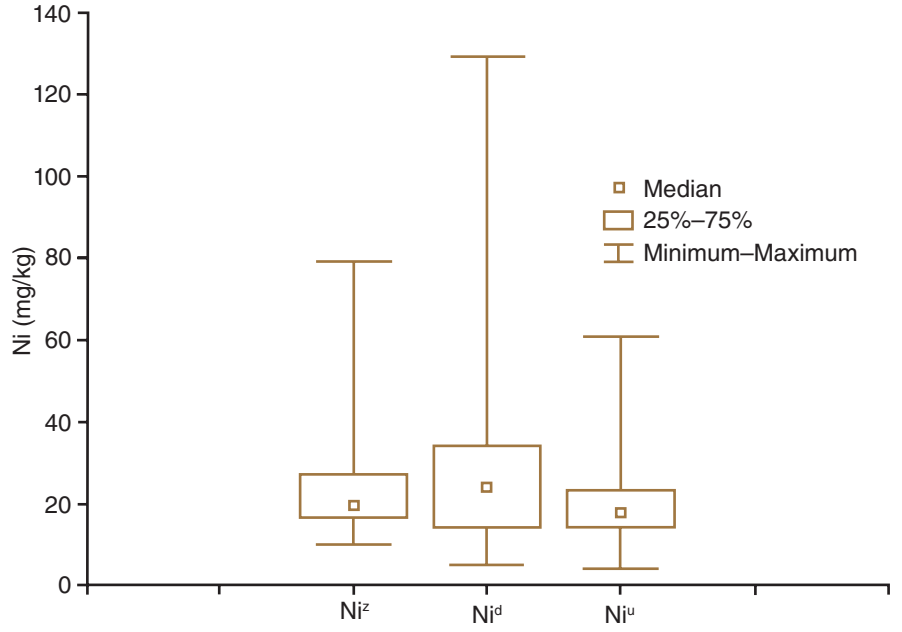

Median
25%–75%
Minimum–Maximum
Organic C (%)
24
22
20
18
16
14
12
10
8
6
4
2
0
Organic C (%)z
Organic C (%)d
Organic C (%)u

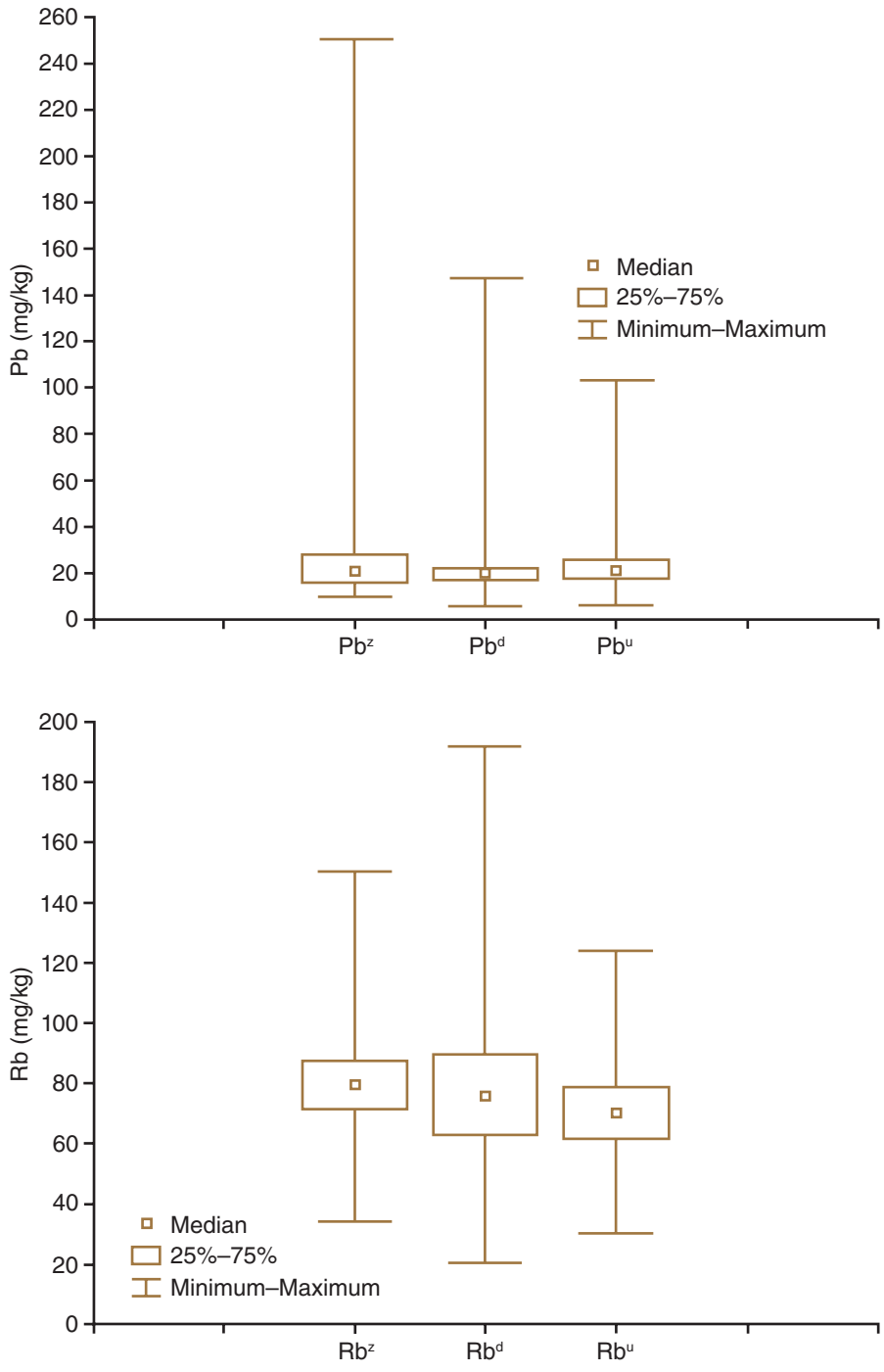

Median
25%–75%
Minimum–Maximum
As (mg/kg)
50
45
40
35
30
25
20
15
10
5
0
Asz
Asu

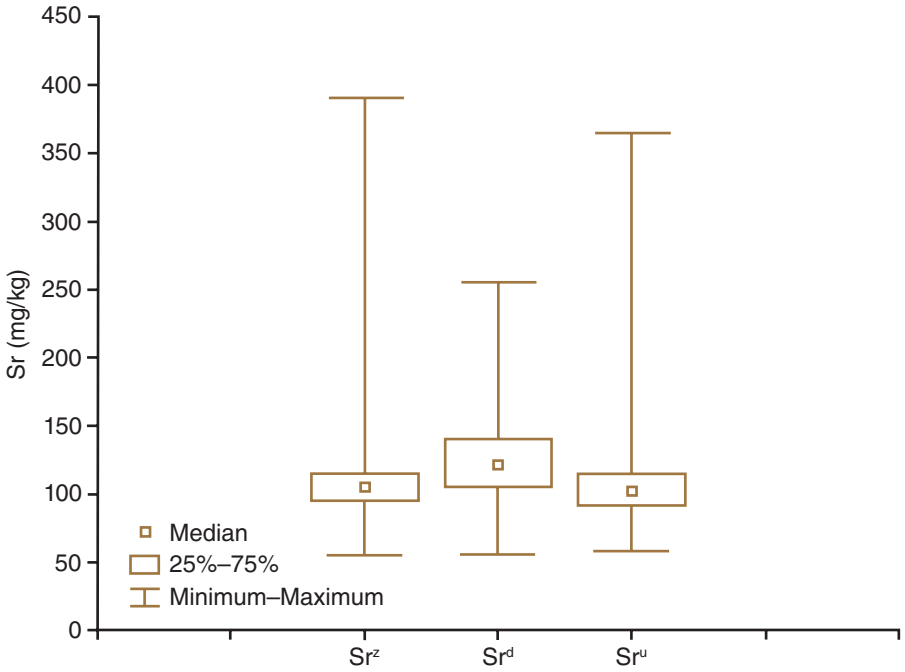

Median
25%–75%
Minimum–Maximum
Ba (mg/kg)
1,600
1,400
1,200
1,000
800
600
400
200
0
Baz
Bad
Bau

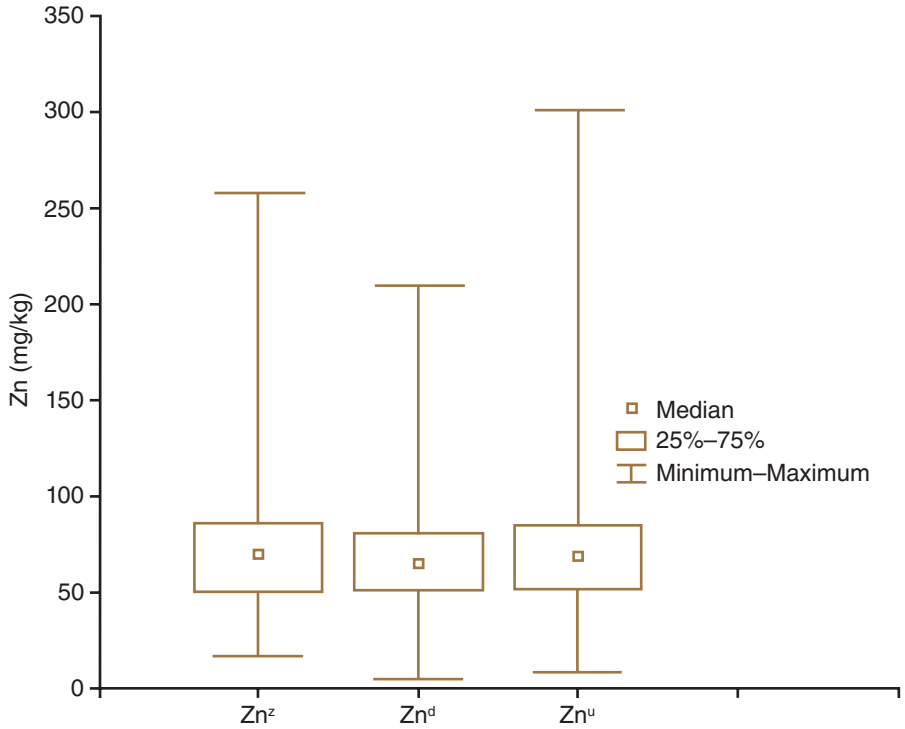

1,400
1,200
1,000
800
600
400
200
0
Cr (mg/kg)
Median
25%–75%
Minimum–Maximum
Crz
Crd
Cru
180
160
140
120
100
80
60
40
20
0
Cu (mg/kg)
Median
25%–75%
Minimum–Maximum
Cuz
Cud
Cuu


260
240
220
200
180
160
140
120
100
80
60
40
20
0
Hg (µg/kg)
Median
25%–75%
Minimum–Maximum
Hg^{d}
Hg^{u}


140
120
100
80
60
40
20
0
Ni (mg/kg)
Median
25%–75%
Minimum–Maximum
Ni^{z}
Ni^{d}
Ni^{u}


Pb (mg/kg)
260
240
220
200
180
160
140
120
100
80
60
40
20
0
Median
25%–75%
Minimum–Maximum
Pbz
Pbd
Pbu
Rb (mg/kg)
200
180
160
140
120
100
80
60
40
20
0
Median
25%–75%
Minimum–Maximum
Rbz
Rbd
Rbu


Sr (mg/kg)
450
400
350
300
250
200
150
100
50
0
Median
25%–75%
Minimum–Maximum
Sr^z
Sr^d
Sr^u


Zn (mg/kg)
350
300
250
200
150
100
50
0
Median
25%–75%
Minimum–Maximum
Zn^z
Zn^d
Zn^u