Publication Branch

SOILS MAPS SUPPLEMENT TO SOIL MOISTURE GROUND TRUTH

LAFAYETTE, INDIANA, SITE
ST. CHARLES, MISSOURI, SITE

November 10, 1975, Mission

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SOIL MOISTURE GROUND TRUTH

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ST. CHARLES, MISSOURI, SITE

Introduction

This report represents a compilation of soils information obtained as the result of a library search of data on the Lafayette, Indiana, site and the St. Charles, Missouri, site. Information was not obtained for the Centralia, Missouri, site as Audrain County, Missouri, soil survey was not available. These locations are shown in Figures 1, 2, and 3. Soils data for the Lafayette, Indiana, site are shown in Plates 1 and 2; and soils data for the St. Charles, Missouri, site are shown in Plates 3 and 4.

References

USDA, Soil Conservation Service, in cooperation with Purdue University Agricultural Experiment Station, 1959, Soil Survey, Tippecanoe County, Indiana, Series 1940, No. 22, January 1959, 117 pp plus maps.

USDA, Soil Conservation Service, in cooperation with the Missouri Agricultural Experiment Station, 1956, Soil Survey, St. Charles County, Missouri, Series 1939, No. 28, January 1956, 49 pp plus maps.

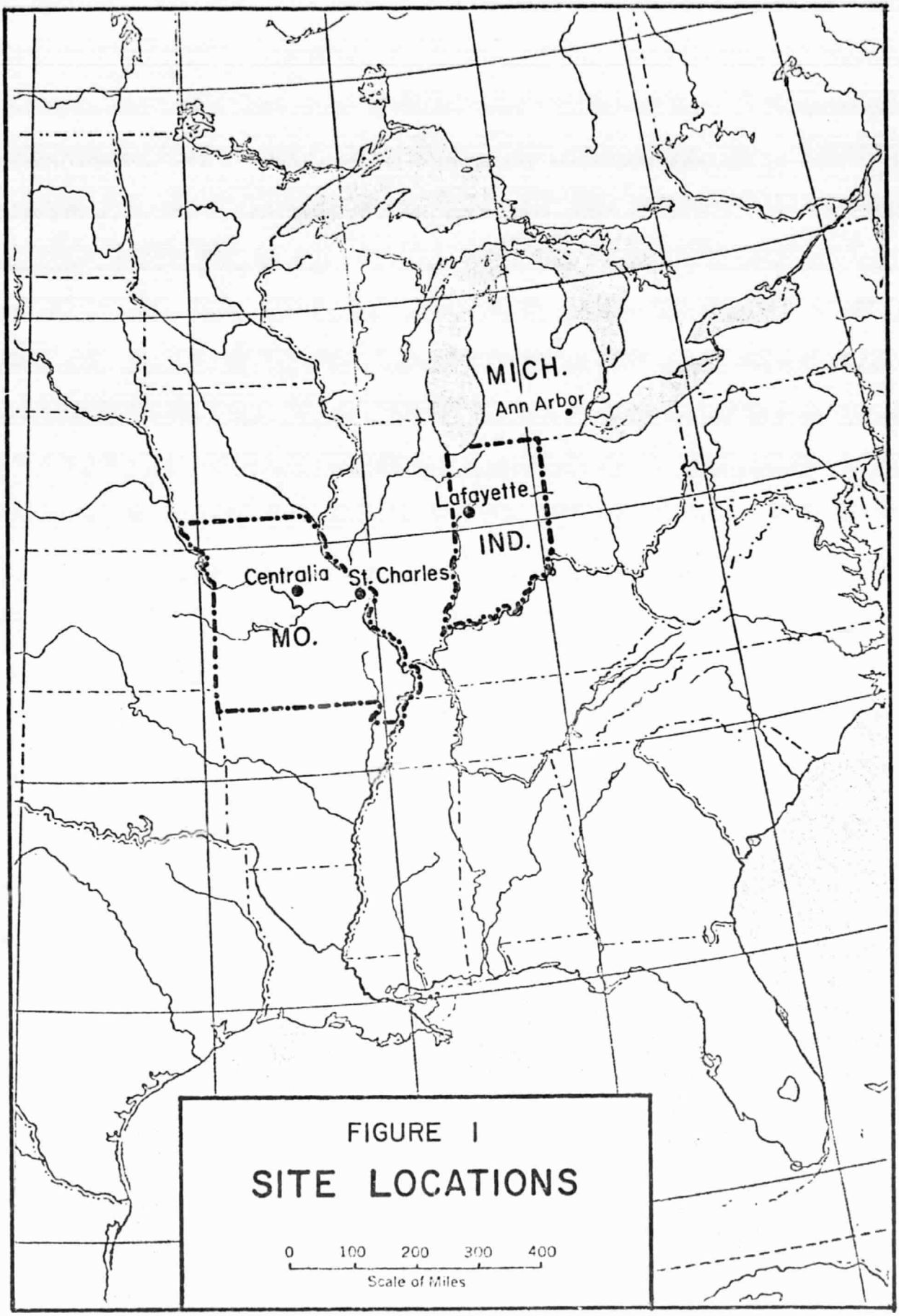
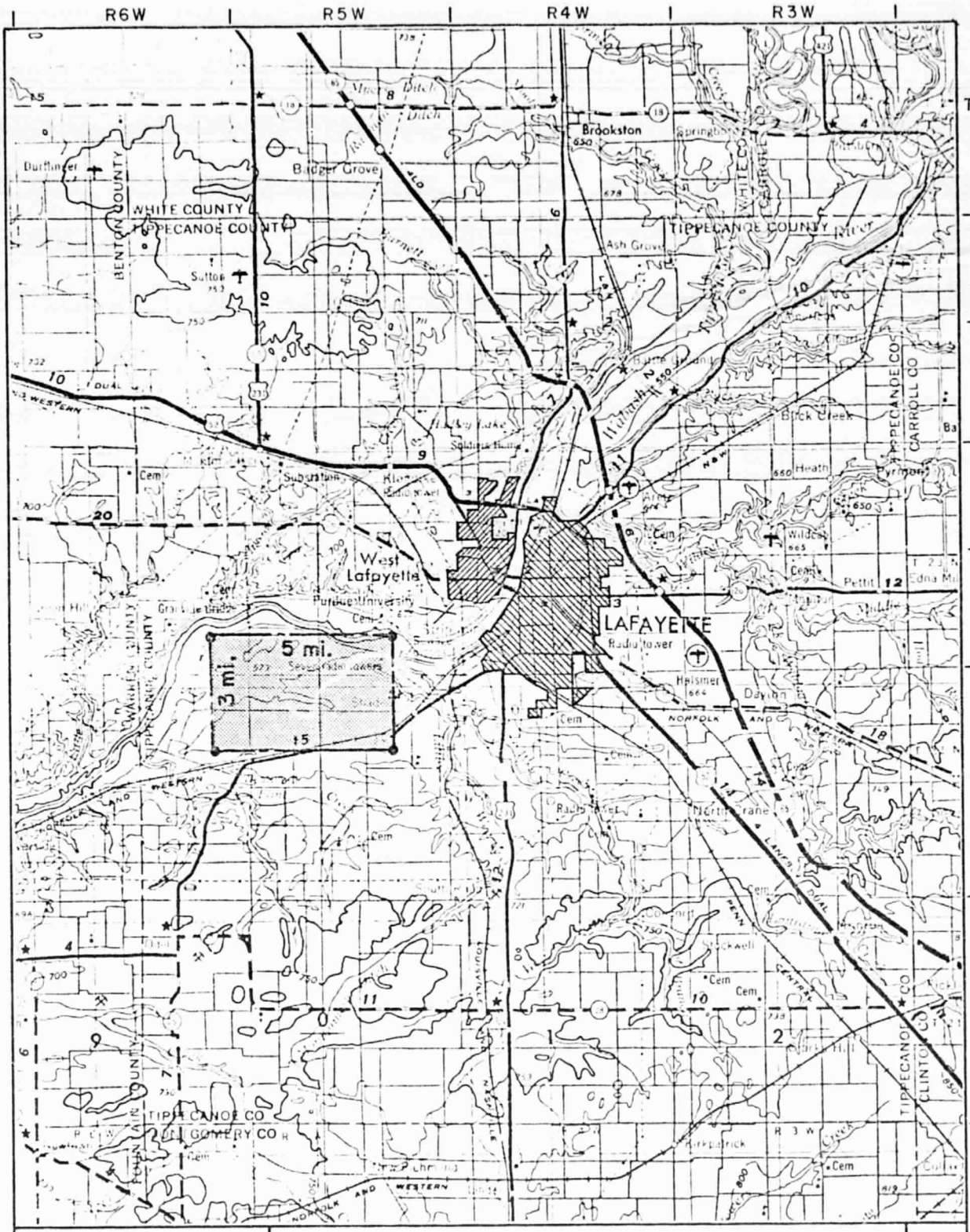


FIGURE I

SITE LOCATIONS



Location Map for:

LAFAYETTE, INDIANA

Scale: 1" = 4 miles

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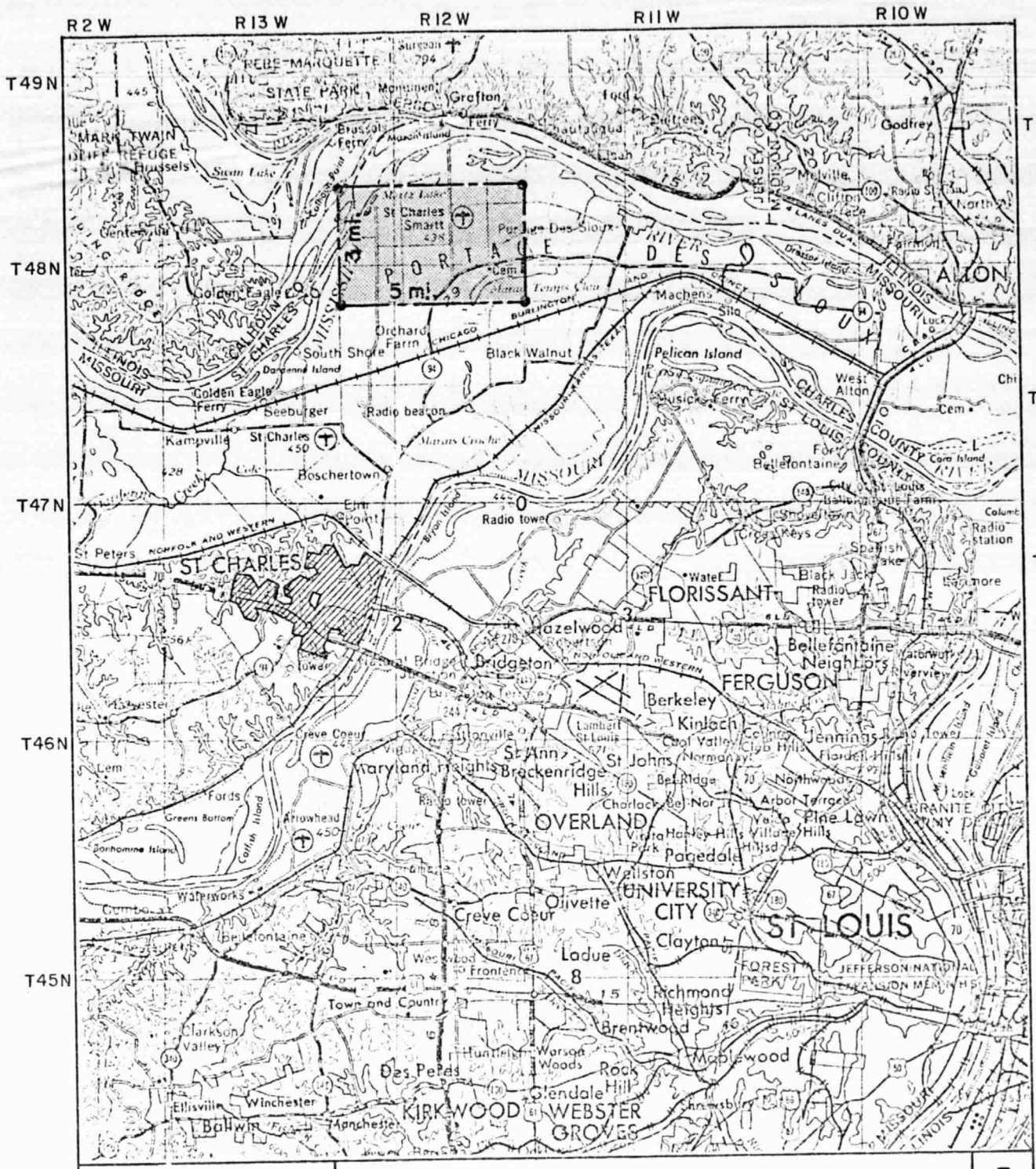
FIGURE 2



Location Map for:

ST. CHARLES, MISSOURI

Scale: 1" = 4 miles

Prepared by:

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FIGURE 3

SOILS INCLUDED IN SAMPLE AREA

SOILS LEGEND

SOIL SYMBOL	SOIL NAME
Aa	Abington silty clay loam, 0-3 percent slopes
Ba	Brookston silt loam, 0-3 percent slopes
Bb	Brookston silty clay loam, 0-3 percent slopes
Ca	Carlisle muck
Cb	Chalmers silt loam, 0-3 percent slopes
Cc	Chalmers silty clay loam, 0-3 percent slopes
Cd	Cope silt loam, 0-3 percent slopes
Ce	Cope silty clay loam, 0-3 percent slopes
Cf	Corwin silt loam, 0-2 percent slopes
Cg	Crane silt loam, 0-3 percent slopes
Ch	Crosby silt loam, 0-3 percent slopes
Ci	Crosby silt loam, 3-5 percent slopes, eroded
Da	Dana silt loam, 0-2 percent slopes
Db	Delmar silt loam, 0-3 percent slopes
Ea	Edwards muck
Eb	Eel loam, 0-3 percent slopes
Ec	Eel silt loam, 0-3 percent slopes
Ed	Eel silty clay loam, 0-3 percent slopes
Ee	Elston fine sandy loam, 0-3 percent slopes
Ef	Elston fine sandy loam, 3-8 percent slopes
Eg	Elston loam, 0-3 percent slopes
Eh	Elston loam, 3-8 percent slopes
Ei	Elston loam, 3-8 percent slopes, eroded
Ej	Elston loam, 8-15 percent slopes, eroded
Ek	Elston silt loam, silted, 0-3 percent slopes
Fa	Fincastle silt loam, 0-3 percent slopes
Fb	Fox loam, 0-3 percent slopes
Fc	Fox loam, 3-8 percent slopes
Fd	Fox loam, 3-8 percent slopes, eroded
Fe	Fox loam, 3-8 percent slopes, eroded kame phase
Ff	Fox loam, 8-12 percent slopes
Fg	Fox loam, 8-12 percent slopes, eroded
Fh	Fox loam, 8-12 percent slopes, kame phase
Fi	Fox loam, 8-12 percent slopes, eroded kame phase
Fj	Fox loam, 12-25 percent slopes
Fk	Fox loam, 12-25 percent slopes, eroded
Fl	Fox loam, 12-25 percent slopes, kame phase
Fm	Fox loam, 12-25 percent slopes, eroded kame phase
Fn	Fox loam and clay loam, 8-12 percent slopes, severely eroded
Fo	Fox loam and silt loam, 3-8 percent slopes, kame phases
Fp	Fox silt loam, 0-3 percent slopes
Fq	Fox silt loam, 3-8 percent slopes
Ga	Genesee fine sandy loam, 0-4 percent slopes
Gb	Genesee fine sandy loam, high bottom, 0-3 percent slopes
Gc	Genesee loam, 0-4 percent slopes
Gd	Genesee loam, high bottom, 0-3 percent slopes
Ge	Genesee silt loam, 0-4 percent slopes
Gf	Genesee silt loam, high bottom, 0-4 percent slopes
Gg	Genesee silty clay loam, 0-4 percent slopes
Gh	Genesee silty clay loam, high bottom, 0-3 percent slopes
Gi	Glenhall silt loam, 0-3 percent slopes
Ha	Hagener loamy fine sand, 2-12 percent slopes
Hb	Hennepin loam, 25-50 percent slopes
Hc	High Gap silt loam, 1-8 percent slopes
Hd	Homer silt loam, 0-3 percent slopes
Ka	Kaskaskia loam, 0-3 percent slopes
Kb	Kaskaskia silt loam, 0-3 percent slopes
Kc	Kokomo silty clay loam, 0-3 percent slopes

SOIL SYMBOL	SOIL NAME
La	Linwood muck
Lb	Longlois loam, 0-3 percent slopes
Lc	Longlois loam, 3-8 percent slopes
Ld	Longlois loam, 3-8 percent slopes, eroded
Le	Longlois silt loam, 0-3 percent slopes
Lf	Longlois silt loam, 3-8 percent slopes
Lg	Longlois silt loam, 3-8 percent slopes, eroded
Ma	Made land
Mb	Martinsville loam, 0-5 percent slopes
Mc	Martinsville silt loam, 0-5 percent slopes
Md	Mellott silt loam, 0-3 percent slopes
Me	Mellott silt loam, 3-8 percent slopes
Mf	Mellott silt loam, 3-8 percent slopes, eroded
Mg	Mellott silt loam, 8-12 percent slopes
Mh	Mellott silt loam, 8-12 percent slopes, eroded
Mi	Mellott silt loam and silty clay loam, 3-8 percent slopes, severely eroded
Mj	Mellott silt loam and silty clay loam, 8-12 percent slopes, severely eroded
Mk	Miami loam, 3-8 percent slopes
Ml	Miami loam, 3-8 percent slopes, eroded
Mm	Miami loam, 8-12 percent slopes
Mn	Miami loam, 8-12 percent slopes, eroded
Mo	Miami loam, 12-25 percent slopes
Mp	Miami loam, 12-25 percent slopes, eroded
Mq	Miami silt loam, 0-3 percent slopes
Mr	Miami silt loam, 3-8 percent slopes
Ms	Miami silt loam, 3-8 percent slopes, eroded
Mt	Miami silt loam, 8-12 percent slopes
Mu	Miami silt loam, 8-12 percent slopes, eroded
Mv	Miami silt loam, 12-25 percent slopes
Mw	Miami silt loam, 12-25 percent slopes, eroded
Mx	Miami silt loam and silty clay loam, 8-12 percent slopes, severely eroded
My	Millsdale silty clay loam, 0-3 percent slopes
Mz	Milton silt loam, 2-8 percent slopes
Mza	Monitor silt loam, 0-3 percent slopes
Mzb	Montmorenci silt loam, 0-3 percent slopes
Mzc	Muskingum stony silt loam, 10-30 percent slopes
Na	Nineveh loam, 0-3 percent slopes
Oa	Oaktown loamy fine sand, 3-8 percent slopes
Ob	Oaktown loamy fine sand, 8-12 percent slopes
Oc	Oaktown loamy fine sand, 12-25 percent slopes
Od	Ockley loam, 0-3 percent slopes
Oe	Ockley loam, 3-8 percent slopes
Of	Ockley loam, 3-8 percent slopes, eroded
Og	Ockley silt loam, 0-3 percent slopes
Oh	Ockley silt loam, 3-8 percent slopes
Oi	Ockley silt loam, 3-8 percent slopes, eroded
Ok	Octagon silt loam, 3-8 percent slopes
Ol	Octagon silt loam, 3-8 percent slopes, eroded
Om	Odell silt loam, 0-2 percent slopes
On	Otterbein silt loam, 0-3 percent slopes
Pa	Parr loam, 2-5 percent slopes
Pb	Parr loam, 2-10 percent slopes, eroded
Pc	Parr silt loam, 0-2 percent slopes
Pd	Parr silt loam, 2-5 percent slopes
Pe	Parr silt loam, 2-5 percent slopes, eroded
Pf	Parr silt loam, 5-8 percent slopes, eroded
Pg	Parr silt loam, 8-12 percent slopes, eroded
Ph	Parr silt loam and silty clay loam, 8-12 percent slopes, severely eroded
Pi	Pettit silt loam, 0-3 percent slopes

FOLDOUT FRAME (

Soils surveyed 1939-46 by H. P. Ulrich, T. E. Barnes, Sutton Myers, and B. A. Krantz, Purdue University Agricultural Experiment Station, and James G. Wade, Soil Conservation Service.
Correlation by James Thorp, U. S. Department of Agriculture.

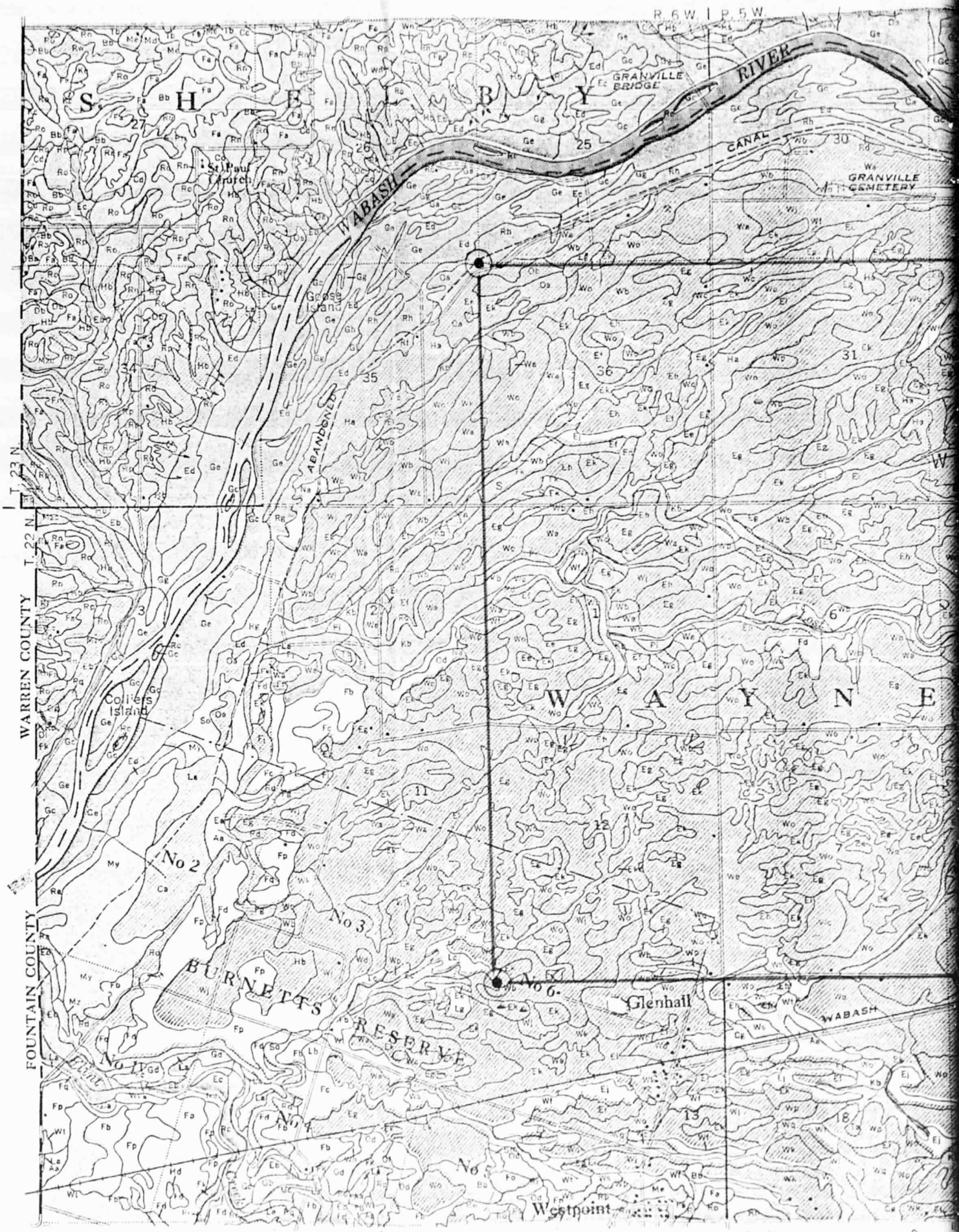
SOILS LEGEND

SOIL SYMBOL	SOIL NAME
	huck
	oam, 0-3 percent slopes
	oam, 3-8 percent slopes
	oam, 3-8 percent slopes, eroded
	ilt loam, 0-3 percent slopes
	ilt loam, 3-8 percent slopes
	ilt loam, 3-8 percent slopes, eroded
	e loam, 0-5 percent slopes
	e silt loam, 0-5 percent slopes
	loam, 0-3 percent slopes
	loam, 3-8 percent slopes
	loam, 3-8 percent slopes, eroded
	loam, 8-12 percent slopes
	loam, 8-12 percent slopes, eroded
	loam and silty clay loam, 3-8 percent slopes, severely eroded
	loam and silty clay loam, 8-12 percent slopes, severely eroded
	m, 3-8 percent slopes
	m, 3-8 percent slopes, eroded
	m, 8-12 percent slopes
	m, 8-12 percent slopes, eroded
	m, 12-25 percent slopes
	m, 12-25 percent slopes, eroded
	loam, 0-3 percent slopes
	loam, 3-8 percent slopes
	loam, 3-8 percent slopes, eroded
	loam, 8-12 percent slopes
	loam, 8-12 percent slopes, eroded
	loam, 12-25 percent slopes
	loam, 12-25 percent slopes, eroded
	loam and silty clay loam, 8-12 percent slopes, severely eroded
	ity clay loam, 0-3 percent slopes
	loam, 2-8 percent slopes
	loam, 0-3 percent slopes
	ci silt loam, 0-3 percent slopes
	stony silt loam, 10-30 percent slopes
	am, 0-3 percent slopes
	amy fine sand, 3-8 percent slopes
	amy fine sand, 8-12 percent slopes
	amy fine sand, 12-25 percent slopes
	n, 0-3 percent slopes
	n, 3-8 percent slopes
	n, 3-8 percent slopes, eroded
	loam, 0-3 percent slopes
	loam, 3-8 percent slopes
	loam, 3-8 percent slopes, eroded
	loam, 3-8 percent slopes
	loam, 3-8 percent slopes, eroded
	am, 0-2 percent slopes
	lt loam, 0-3 percent slopes
	2-5 percent slopes
	2-10 percent slopes, eroded
	m, 0-2 percent slopes
	m, 2-5 percent slopes
	m, 2-5 percent slopes, eroded
	m, 5-8 percent slopes, eroded
	m, 8-12 percent slopes, eroded
	m and silty clay loam, 8-12 percent slopes, severely eroded
	am, 0-3 percent slopes
Ra	Randolph silt loam, 0-3 percent slopes
Rb	Raub silt loam, 0-2 percent slopes
Rc	Riverwash
Rd	Rodman gravelly loam, 25-35 percent slopes
Re	Romney silty clay loam, 0-2 percent slopes
Rf	Ross loam, 0-3 percent slopes
Rg	Ross silt loam, 0-3 percent slopes
Rh	Ross silty clay loam, 0-3 percent slopes
Ri	Russell loam, 3-8 percent slopes
Rj	Russell loam, 3-8 percent slopes, eroded
Rk	Russell loam, 8-12 percent slopes, eroded
Rl	Russell loam, 12-25 percent slopes, eroded
Rla	Russell loam and clay loam, 8-12 percent slopes, severely eroded
Rm	Russell loam and silty clay loam, 8-12 percent slopes, severely eroded
Rn	Russell silt loam, 0-3 percent slopes
Ro	Russell silt loam, 3-8 percent slopes
Rp	Russell silt loam, 3-8 percent slopes, eroded
Rq	Russell silt loam, 8-12 percent slopes
Rr	Russell silt loam, 8-12 percent slopes, eroded
Rs	Russell silt loam, 12-25 percent slopes
Rt	Russell silt loam, 12-25 percent slopes, eroded
Ru	Russell silt loam and silty clay loam, 3-8 percent slopes, severely eroded
Rv	Russell silt loam and silty clay loam, 8-12 percent slopes, severely eroded
Rw	Russell silt loam and silty clay loam, 12-25 percent slopes, severely eroded
Sa	Shadeland silt loam, 0-2 percent slopes
Sb	Shoals silt loam, 0-3 percent slopes
Sc	Sidell silt loam, 0-2 percent slopes
Sd	Sidell silt loam, 2-5 percent slopes
Se	Sidell silt loam, 2-5 percent slopes, eroded
Sf	Sidell silt loam, 5-8 percent slopes
Sg	Sidell silt loam, 5-8 percent slopes, eroded
Sh	Sidell silt loam, 8-12 percent slopes
Si	Sidell silt loam, 8-12 percent slopes, eroded
Sj	Sidell silt loam and silty clay loam, 2-5 percent slopes, severely eroded
Sk	Sidell silt loam and silty clay loam, 5-8 percent slopes, severely eroded
Sl	Sidell silt loam and silty clay loam, 8-12 percent slopes, severely eroded
Sm	Sleeth silt loam, 0-3 percent slopes
Sn	Sloan silt loam, 0-3 percent slopes
So	Sloan silty clay loam, 0-3 percent slopes
Ta	Tippecanoe silt loam, 0-3 percent slopes
Tb	Toronto silt loam, 0-3 percent slopes
Wa	Warsaw loam, 0-3 percent slopes
Wb	Warsaw loam, 3-8 percent slopes
Wc	Warsaw loam, 3-8 percent slopes, eroded
Wd	Warsaw loam, 3-8 percent slopes, kame phase
We	Warsaw loam, 3-8 percent slopes, eroded kame phase
Wf	Warsaw loam, 8-20 percent slopes, eroded
Wg	Warsaw loam, 8-12 percent slopes, kame phase
Wh	Warsaw loam, 8-12 percent slopes, eroded kame phase
Wi	Warsaw loam, 12-25 percent slopes, eroded kame phase
Wj	Warsaw silt loam, 0-3 percent slopes
Wk	Warsaw silt loam, 3-8 percent slopes
Wl	Warsaw silt loam, 3-8 percent slopes, eroded kame phase
Wm	Warsaw silt loam, 8-12 percent slopes, eroded kame phase
Wn	Washtenaw silt loam, 0-3 percent slopes
Wo	Wea silt loam, 0-3 percent slopes
Wp	Wea silt loam, 3-8 percent slopes
Wq	Wea silt loam, 3-8 percent slopes, eroded
Wr	Westland loam, 0-3 percent slopes
Ws	Westland silt loam, 0-3 percent slopes
Wt	Westland silty clay loam, 0-3 percent slopes
Wu	Wingate silt loam, 0-3 percent slopes

FOLDOUT FRAME 2

PLATE 1

Soil map constructed 1956 by Cartographic Division, Soil Conservation Service, USDA, from 1951 aerial photographs. Controlled mosaic based on polyconic projection, 1927 North American datum.



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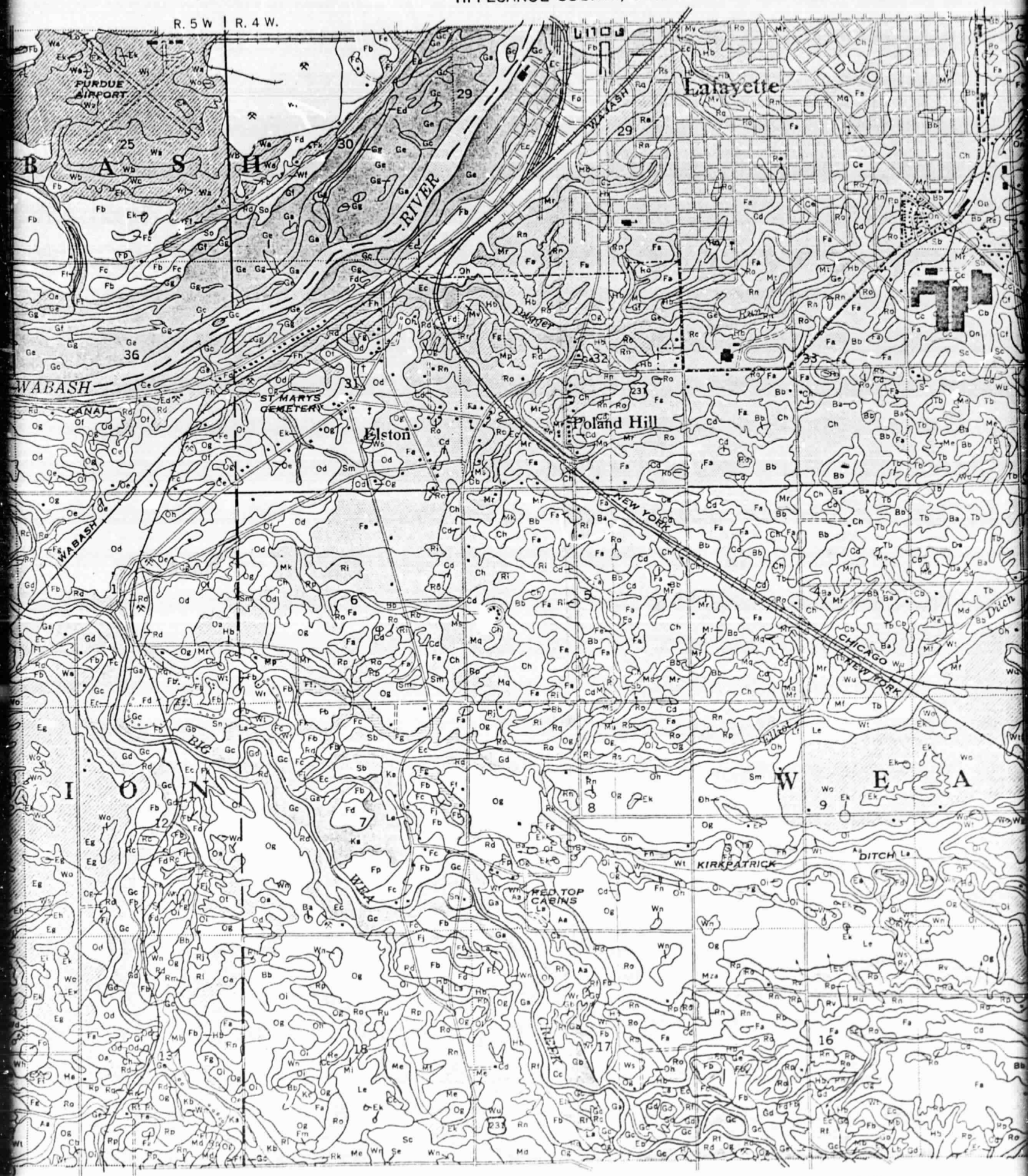
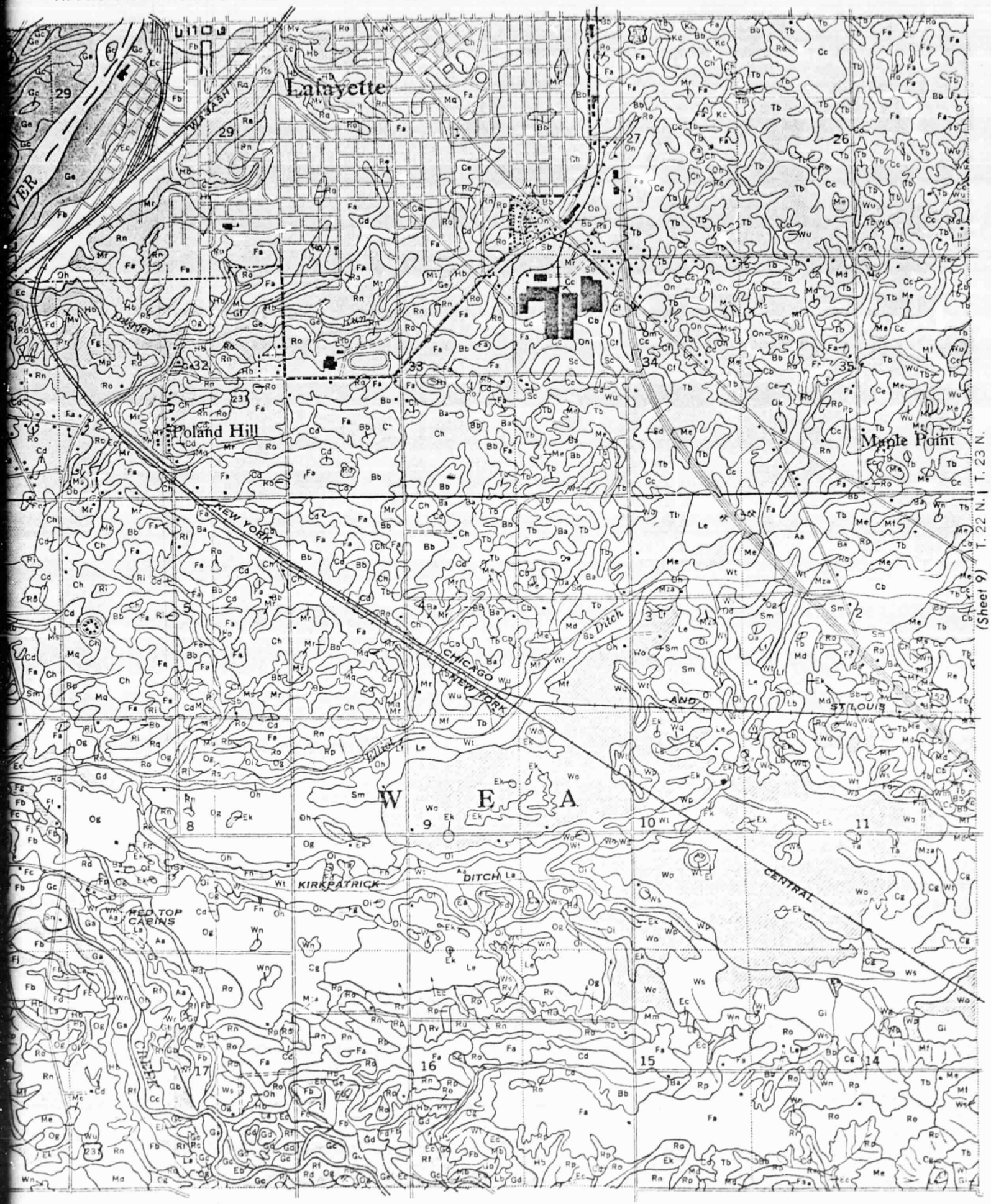
TY, INDIANA

FOLDOUT FRAME 2

TIPPECANOE COUNTY, INDIANA



TIPPECANOE COUNTY, INDIANA



2 Miles Scale 1:31 680 0 5000

BLOWOUT FRAME PLATE 2

SOILS OF ST. CHARLES COUNTY, MO., SUMMARY OF IMPORTANT CHARACTERIST

Map symbol	Soil	Position on landscape	Parent material	Surface soil			Subsoil		
				Color	Organic-matter content	Common range in thickness	Color	Texture	
						Inches			
BA	Beaucoup clay	River bottoms	Fine-textured alluvium	Gray to black	High	8–10	Gray	Clay	Ve
BB	Blockton silt loam, 0 to 1 percent slopes.	Terraces	Silty material over fine-textured alluvium.	Dark grayish brown	Moderately high	12–14	Dark grayish brown	Clay	Fr
BC	Bogota silt loam, 0.5 to 2 percent slopes.	Uplands	Deep loess	Brownish gray or yellowish brown.	Low	7–10	Gray and brown	Silty clay	Ve
BD	Burrell silt loam, 1 to 3 percent slopes.	Terraces	Mixed alluvium	Light brownish gray	Low	7–14	Mottled yellow, gray, and brown.	Silty clay	Ve
CA	Cuivre silt loam	River bottoms	Silt over fine-textured alluvium.	Light brownish gray	Medium to low	8–12	Gray and brown	Clay or silty clay	Ve
DA	Dunning silt loam	Creek bottoms	Silt over fine-textured alluvium.	Dark gray	Moderately high	10–14	Gray or olive gray	Silty clay	Pl
HA	Huntington silt loam	Creek bottoms	Silty alluvium	Brown	Moderately high	10–14	Reddish brown	Silt loam	Fr
HB	Huntington silt loam, colluvial variant, 1 to 5 percent slopes.	Alluvial fans	Silty alluvium	Brown	Moderately high	8–14	Brown or reddish brown	Silty clay loam	Fr
JA	Jacob clay	River bottoms	Fine-textured alluvium	Gray	Low	6–8	Gray	Clay	Ve
JB	Jacob silty clay loam	River bottoms	Fine-textured alluvium	Gray	Low	7–9	Gray	Clay	Pl
LA	Leslie silt loam, 2 to 5 percent slopes	Uplands	Loess	Dark gray or dark grayish brown.	Medium	8–14	Grayish brown mottled with yellowish brown	Silty clay loam	Ve
LB	Lindley loam and clay loam, 2 to 6 percent slopes.	Uplands	Glacial till	Pale brown or brownish gray.	Low	4–8	Yellowish brown	Sandy clay	Pl
LC	Lindley loam and clay loam, 7 to 12 percent slopes.	Uplands	Glacial till	Pale brown or brownish gray.	Low	3–7	Yellowish brown	Sandy clay	Pl
LD	Lomax fine sandy loam	Terraces	Sandy alluvium	Dark brown	Moderately high	16–20	Grayish brown to brown	Sandy loam	Fr
MA	Marion silt loam, 1 to 3 percent slopes.	Uplands	Shallow loess	Light gray	Low	7–9	Mottled yellowish gray, grayish brown, and yellowish brown	Clay	Ve
MB	Menfro silt loam and silty clay loam, 2 to 6 percent slopes.	Uplands (river hills)	Deep loess	Grayish brown to yellowish brown.	Low	9–17	Brown or yellowish brown	Silty clay loam	Fr
MC	Menfro silt loam and silty clay loam, 7 to 15 percent slopes.	Uplands (river hills)	Deep loess	Grayish brown to yellowish brown.	Low	4–12	Brown or yellowish brown	Silty clay loam	Fr
MD	Menfro silt loam and silty clay loam, 15 to 25 percent slopes.	Uplands (river hills)	Deep loess	Grayish brown to yellowish brown.	Low	2–12	Brown or yellowish brown	Silty clay loam	Fr
ME	Mexico silt loam, 2 to 4 percent slopes	Uplands	Shallow loess	Dark grayish brown	Medium	7–12	Grayish brown	Clay	Ve
OA	Onawa clay loam	River bottoms	Fine-textured material over sandy alluvium.	Dark brown	High	10–30	Yellowish brown or light brown	Sandy loam	Ve
RA	Racoon silt loam, 0 to 1 percent slopes.	Terraces	Mixed alluvium	Light gray	Low	8–12	Mottled gray or grayish brown.	Clay or silty clay	Pl
RB	Ray silt loam	River bottoms	Silty alluvium	Light brown	Medium	10–60	Dark gray	Silty clay loam	Fr
RC	Riley loamy fine sand	Terraces	Sandy alluvium	Dark brown	Moderately high	6–12	Yellowish brown	Fine sand	Ve
RD	Riverwash	River bottoms	Mixed alluvium	Pale brown	Low	Variable	Variable	Variable	Ve
SA	Sarpy loamy fine sand	River bottoms	Sandy alluvium	Yellowish brown	Low	8–20	Light brown	Silt loam to fine sand	Ve
SB	Sarpy very fine sandy loam	River bottoms	Sandy alluvium	Yellowish brown to grayish brown.	Low	12–30	Light brown	Loamy fine sand or fine sand.	Ve
SC	Sharon silt loam	Creek bottoms	Silty alluvium	Brown to grayish brown	Medium	14–20	Light brown	Silt loam	Fr
SD	Steep stony land, 15 to 35 percent slopes	Uplands	Cherty limestone	Dark brown	Low	3–7	Reddish brown	Stony silty clay	Fr
UB	Union silt loam, 4 to 11 percent slopes	Uplands	Shallow loess over limestone.	Light brown or grayish brown.	Low	4–8	Brown	Silty clay	Pl
UA	Union cherty silt loam, 8 to 20 percent slopes.	Uplands	Shallow loess over cherty limestone.	Yellowish brown	Low	4–8	Brown	Stony silty clay	Pl
WA	Wabash clay	River bottoms	Fine-textured alluvium	Black	High	14–22	Dark gray	Clay	Ve
WB	Wabash clay loam	River bottoms	Fine-textured alluvium	Black	High	14–22	Dark gray	Clay	Ve
WC	Wabash silt loam	River bottoms	Silty material over fine-textured alluvium	Dark gray to black	High	12–18	Dark gray	Clay	Ve
WD	Weldon silt loam, 2 to 6 percent slopes	Uplands	Shallow loess	Grayish brown	Low	6–12	Yellowish brown	Silty clay	Pl
WE	Weldon silt loam and silty clay loam, 7 to 11 percent slopes.	Uplands	Shallow loess	Grayish brown	Low	3–9	Yellowish brown	Silty clay	Pl
WF	Westerville silt loam	Creek bottoms	Silty alluvium	Grayish brown	Medium	8–12	Brownish gray	Silty clay loam	Fr
WG	Winfield silt loam, 2 to 6 percent slopes	Uplands	Deep loess	Dark grayish brown	Low	6–14	Yellowish brown	Silty clay loam	Si
WH	Winfield silt loam and silty clay loam, 7 to 12 percent slopes.	Uplands	Deep loess	Dark grayish brown	Low	3–10	Yellowish brown	Silty clay loam	Si

ILS OF ST. CHARLES COUNTY, MO., SUMMARY OF IMPORTANT CHARACTERISTICS

Surface soil		Subsoil				Overflow hazard	Wetness hazard	Erosion hazard	Workability	Natural drainage
Organic-matter content	Common range in thickness	Color	Texture	Consistence	Permeability					
	Inches									
High	8–10	Gray	Clay	Very plastic when wet	Very slow	Severe	Severe	None	Poor	Poor to very poor.
Moderately high	12–14	Dark grayish brown	Clay	Friable when moist	Slow	None	Moderate	None	Good	Imperfect.
Low	7–10	Gray and brown	Silty clay	Very friable when moist	Slow	None	Moderate	Slight	Good	Imperfect.
Low	7–14	Mottled yellow, gray, and brown.	Silty clay	Very firm when moist	Slow	None	Moderate	Moderate	Fair	Imperfect.
Medium to low	8–12	Gray and brown	Clay or silty clay	Very plastic when wet	Very slow	Severe	Severe	None	Fair	Poor.
Moderately high	10–14	Gray or olive gray	Silty clay	Plastic when wet	Slow	Moderate	Severe	None	Fair	Poor.
Moderately high	10–14	Reddish brown	Silt loam	Friable when moist	Rapid	Moderate	Slight	None	Good	Good.
Moderately high	8–14	Brown or reddish brown	Silty clay loam	Friable when moist	Rapid	Moderate	Slight	None	Good	Variable.
Low	6–8	Gray	Clay	Very plastic when wet	Very slow	Severe	Very severe	None	Very poor	Very poor.
Low	7–9	Gray	Clay	Plastic when wet	Very slow	Severe	Severe	None	Poor	Very poor.
Medium	8–14	Grayish brown mottled with yellowish brown.	Silty clay loam	Very firm when moist	Moderate	None	Slight	Moderate	Good	Imperfect.
Low	4–8	Yellowish brown	Sandy clay	Plastic when wet	Slow	None	None	High	Fair	Good.
Low	3–7	Yellowish brown	Sandy clay	Plastic when wet	Slow	None	None	Very high	Poor	Good.
Moderately high	16–20	Grayish brown to brown	Sandy loam	Friable when moist	Rapid	Slight	None	None	Very good	Good.
Low	7–9	Mottled yellowish gray, grayish brown, and yellowish brown.	Clay	Very plastic when wet	Very slow	None	Moderate	Moderate	Fair	Imperfect.
Low	9–17	Brown or yellowish brown	Silty clay loam	Friable when moist	Moderate	None	None	Moderate	Good	Good.
Low	4–12	Brown or yellowish brown	Silty clay loam	Friable when moist	Moderate	None	None	Severe	Fair	Good.
Low	2–12	Brown or yellowish brown	Silty clay loam	Friable when moist	Moderate	None	None	Very high	Fair	Good.
Medium	7–12	Grayish brown	Clay	Very plastic when wet	Very slow	None	Moderate	High	Good to fair	Imperfect.
High	10–30	Yellowish brown or light brown	Sandy loam	Very friable when moist	Rapid	Moderate	Moderate	None	Fair	Imperfect.
Low	8–12	Mottled gray or grayish brown.	Clay or silty clay	Plastic when wet	Very slow	None	Severe	None	Fair	Imperfect.
Medium	10–60	Dark gray	Silty clay loam	Friable when moist	Slow	Moderate	Moderate	None	Good	Moderately good.
Moderately high	6–12	Yellowish brown	Fine sand	Very friable to loose when moist.	Very rapid	Slight	None	Moderate (by wind).	Fair	Somewhat excessive.
Low	Variable	Variable	Variable	Variable	Variable	Very severe	Very severe	None	Very poor	Variable.
Low	8–20	Light brown	Silt loam to fine sand	Very friable to loose when moist.	Very rapid	Moderate	Slight	Slight (by wind).	Fair	Somewhat excessive.
Low	12–30	Light brown	Loamy fine sand or fine sand.	Very friable to loose when moist.	Very rapid	Moderate	Slight	None	Good	Good.
Medium	14–20	Light brown	Silt loam	Friable when moist	Moderate	Moderate	Slight	None	Good	Good.
Low	3–7	Reddish brown	Stony silty clay	Firm when moist	Variable	None	None	Slight	Good	Somewhat excessive.
Low	4–8	Brown	Silty clay	Plastic when wet	Moderate	None	None	High	Fair	Good.
Low	4–8	Brown	Stony silty clay	Plastic when wet	Moderate	None	None	High	Very poor	Good.
High	14–22	Dark gray	Clay	Very plastic when wet	Very slow	Slight	Severe	None	Poor	Very poor.
High	14–22	Dark gray	Clay	Very plastic when wet	Very slow	Slight	Moderate	None	Fair	Very poor.
High	12–18	Dark gray	Clay	Very plastic when wet	Very slow	Slight	Moderate	None	Good	Poor.
Low	6–12	Yellowish brown	Silty clay	Plastic when moist	Very slow	None	None	High	Fair	Moderately good.
Low	3–9	Yellowish brown	Silty clay	Plastic when moist	Very slow	None	None	Very high	Fair	Moderately good.
Medium	8–12	Brownish gray	Silty clay loam	Friable when moist	Slow	Moderate	Moderate	None	Good	Imperfect.
Low	6–14	Yellowish brown	Silty clay loam	Slightly plastic when moist.	Moderate	None	None	Moderate	Good	Moderately good.
Low	5–10	Yellowish brown	Silty clay loam	Slightly plastic when moist.	Moderate	None	None	High	Good	Moderately good.

PLATE 3

FOLDOUT FRAME 2

FOLDOUT FRAME 1

ORIGINAL PAGE IS OF POOR QUALITY