

*Davis*  
*Chickles*

**CLASSIFICATION AND CORRELATION**  
**OF**  
**THE SOILS OF**

155

**SWITZERLAND COUNTY**  
**INDIANA**

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**FEBRUARY 1984**

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**U. S. DEPARTMENT OF AGRICULTURE**  
**SOIL CONSERVATION SERVICE**  
**MIDWEST NATIONAL TECHNICAL CENTER**  
**LINCOLN, NEBRASKA**

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UNITED STATES DEPARTMENT OF AGRICULTURE  
Soil Conservation Service  
Midwest National Technical Center  
Lincoln, Nebraska 68508

Classification and Correlation  
of the Soils of  
Switzerland County, Indiana

The final correlation conference for Switzerland County, Indiana, was held in Lincoln, Nebraska, September 26-29, 1983. Those participating in the conference were Allan K. Nickell, party leader, SCS, North Vernon, Indiana; Jerry D. Larson, soil specialist, SCS, Indianapolis, Indiana; and Steve R. Base, SCS, soil correlator, Lincoln, Nebraska. The data reviewed consisted of the soil survey manuscript, field correlation, soil correlation samples, field notes, atlas sheets, and laboratory data. Mr. Base also participated in the comprehensive field review on March 14-17, 1983.

Headnote for the Detailed Soil Survey Legend:

Map symbols consist of a combination of letters or of letters and numbers. The first capital letter is the initial one of the map unit name. The lowercase letter that follows separates map units having names that begin with the same letter, except that it does not separate sloping or eroded phases. The second capital letter indicates the class of slope. Symbols without a slope letter are for nearly level soils or map units named from higher taxonomic categories. A final number of 2 indicates that the soil is moderately eroded and a number 3 indicates that the soil is severely eroded.

Switzerland County, Indiana

*Check 2-6  
Stick Down*

<u>Field Symbol</u>	<u>Field Map Unit Name</u>	<u>Publication Symbol</u>	<u>Approved Map Unit Name</u>
AvA	Avonburg silt loam, 0 to 2 percent slopes	AvA	Avonburg silt loam, 0 to 2 percent slopes
AvB2	Avonburg silt loam, 2 to 4 percent slopes, eroded	AvB2	Avonburg silt loam, 2 to 4 percent slopes, eroded
BmC, PrB2, PrC2, PrD2	Bloomfield loamy fine sand, 4 to 12 percent slopes	BmC	Bloomfield loamy fine sand, 4 to 12 percent slopes
BoC2, BoC3	Bonnell silt loam, 6 to 12 percent slopes, eroded	<del>BoC2</del>	Bonnell <u>silty clay loam</u> , 6 to 12 percent slopes, eroded
BoE2, BoD2, BoD3, BoE, PrE	Bonnell silt loam, 15 to 25 percent slopes	<del>BoE2</del>	Bonnell <u>silty clay loam</u> , 15 to 25 percent slopes, eroded
CaC2	Carmel silt loam, 6 to 12 percent slopes, eroded	<del>CaC2</del>	Carmel <u>silty clay loam</u> , 6 to 12 percent slopes, eroded
CaC3, CbC3	Carmel silty clay loam, 6 to 12 percent slopes, severely eroded	<del>CaC3</del>	Carmel <u>silty clay loam</u> , 6 to 12 percent slopes, severely eroded
Ch, Cn, Ho, Wi, Wt, Wa	Chagrin silt loam, occasionally flooded	Ch	Chagrin silt loam, occasionally flooded
CnB2	Cincinnati silt loam, 2 to 6 percent slopes, eroded	<del>CnB2</del>	Cincinnati silt loam, 2 to 6 percent slopes, eroded
CnC2	Cincinnati silt loam, 6 to 12 percent slopes, eroded	<del>CnC2</del>	Cincinnati silt loam, 6 to 12 percent slopes, eroded
CnC3	Cincinnati silt loam, 6 to 12 percent slopes, severely eroded	<del>CnC3</del>	Cincinnati silt loam, 6 to 12 percent slopes, severely eroded
Co, Ct	Cobbsfork silt loam	Co	Cobbsfork silt loam
Dn	Dearborn loam, frequently flooded	Dn	Dearborn loam, frequently flooded
Dr	Dearborn channery silt loam, frequently flooded	Dr	Dearborn channery silt loam, frequently flooded

*Carroll County check*

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Field Symbol	Field Map Unit Name	Publication Symbol	Approved Map Unit Name
EdF2, EdF	Eden flaggy silt loam, 25 to 50 percent slopes, eroded	) <del>EdF2</del>	Eden flaggy silt loam, 25 to 50 percent slopes, eroded
EeE2, EeD2	Eden silty clay loam, 15 to 25 percent slopes, eroded	) <del>EeE2</del>	Eden silty clay loam, 15 to 50 percent slopes, eroded
EKA	Elkinsville silt loam, rarely flooded, 0 to 2 percent slopes	) <del>EKA</del>	Elkinsville silt loam, rarely flooded, 0 to 2 percent slopes
EkB, EkC, EkC2, EkB2	Elkinsville silt loam, rarely flooded, 2 to 8 percent slopes	) <del>EkB</del>	Elkinsville silt loam, rarely flooded, 2 to 8 percent slopes
Hu, Ha, Ln	Huntington silt loam, occasionally flooded	) <del>Hu</del>	Huntington silt loam, occasionally flooded
MaB2, McA, McB2	Markland silt loam, 1 to 6 percent slopes, eroded	) <del>MaB2</del>	Markland silt loam, 1 to 6 percent slopes, eroded
MaC2, MaE, MkD2, MaE2, MaD2	Markland silt loam, 8 to 15 percent slopes, eroded	) <del>MaC2</del>	Markland silt loam, 8 to 15 percent slopes, eroded
Ne	Newark silt loam, occasionally flooded	) <del>Ne</del>	Newark silt loam, occasionally flooded
PaE2, PaD2	Pate silt loam, 15 to 30 percent slopes, eroded	) <del>PaE2</del>	Pate silt loam, 15 to 25 percent slopes, eroded
PkB, PeB, PeB2, BaA, PeA, PkA, PkB2, PeC2, WeA	Pekin silt loam, rarely flooded, 1 to 4 percent slopes	) <del>PkB</del>	Pekin silt loam, rarely flooded, 1 to 4 percent slopes
RoA	Rossmoyne silt loam, 0 to 2 percent slopes	) <del>RoA</del>	Rossmoyne silt loam, 0 to 2 percent slopes
RoB2	Rossmoyne silt loam, 2 to 6 percent slopes, eroded	) <del>RoB2</del>	Rossmoyne silt loam, 2 to 6 percent slopes, eroded
SwB2, NaB2, NhB2, NnB2, CaB2	Switzerland silt loam, 2 to 6 percent slopes, eroded	) <del>SwB2</del>	Switzerland silt loam, 2 to 6 percent slopes, eroded

<u>Field Symbol</u>	<u>Field Map Unit Name</u>	<u>Publication Symbol</u>	<u>Approved Map Unit Name</u>
SwC2 SwC3	Switzerland silt loam, 6 to 12 percent slopes, eroded	) <del>SwC2</del> ) )	Switzerland silt loam, 6 to 12 percent slopes, eroded
Ud, Or	Udorthents, loamy	) <u>Ud</u> )	Udorthents, loamy
WgB2	Weisburg silt loam, 2 to 6 percent slopes, eroded	) <del>WgB2</del> )	Weisburg silt loam, 2 to 6 percent slopes, eroded
WgC2, WgD2, WgC3	Weisburg silt loam, 6 to 12 percent slopes, eroded	) <u>WgC2</u> ) )	Weisburg silt loam, 6 to 12 percent slopes, eroded
WhA	Wheeling loam, rarely flooded, 0 to 2 percent slopes	) <u>WhA</u> )	Wheeling loam, rarely flooded, 0 to 2 percent slopes
WhB, WhB2	Wheeling loam, rarely flooded, 2 to 8 percent slopes	) <u>WhB</u> )	Wheeling loam, rarely flooded, 2 to 8 percent slopes
WhC, WhC2	Wheeling loam, rarely flooded, 8 to 15 percent slopes, eroded	) <u>WhC</u> )	Wheeling loam, rarely flooded, 8 to 15 percent slopes
WhE2, WhE, RdE, EkD2	Wheeling loam, rarely flooded, 18 to 35 percent slopes, eroded	) <u>WhE</u> ) )	Wheeling loam, rarely flooded, 18 to 35 percent slopes
WvC, WoB2, WoC2, WvB, PaB2, PaC2	Woolper silty clay loam, 3 to 8 percent slopes	) <u>WvC</u> ) ) )	Woolper silty clay loam, 3 to 10 percent slopes

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Series Established by This Correlation:

None

Series Dropped or Made Inactive:

None

Certification Statement:

1. Mapping was completed June 1983.

2. The general soil map for general planning purposes has been joined to the map for the published soil survey of Ohio County and the completed Soil Surveys of Ripley and Jefferson Counties, Indiana. All lines join between these counties. The names of mapping units have some differences because of design of map units and proportion of soils within the mapping units. Each association has at least one name in common. A detailed account of the joins is attached to the report of final field review and field correlation.

The detailed maps have been joined and color checked to show that each unit is a closed delineation. All lines join. Mapping unit design has resulted in some differences where similar soils or different erosion classes join. A detailed account of the joins is attached to the report of final field review and field correlation.

3. Interpretations have been checked and the interpretations that will be used are those that are on the SCS-SOILS-5's.

4. The location of pedon descriptions are in soil areas using these reference names and legal descriptions. The locations have been checked by the party leader and his staff.

Verification of Exact Cooperator Names:

For the front cover:

United States Department of Agriculture  
Soil Conservation Service  
In cooperation with  
Purdue University Agricultural Experiment Station  
and  
Indiana Department of Natural Resources  
Soil and Water Conservation Committee

The cooperators to be listed on the inside of the front cover are: "This survey was made cooperatively by the Soil Conservation Service, Purdue University Agricultural Experiment Station, and the Indiana Department of Natural Resources, Soil and Water Conservation Committee. It is part of the technical assistance furnished to the Switzerland County Soil and Water Conservation District. Financial assistance was made available by the Switzerland County Board of County Commissioners."

Disposition of Field Sheets:

The original atlas field sheets for Switzerland County will be retained by the Indiana State Office, and will be used in the map compilation and finishing procedures. Copies have been made for fire protection purposes. The state office at Indianapolis will prepare the atlas sheets for publication by February 1985.

Prior Soil Survey Publications:

A prior soil survey has been made for Switzerland County, Indiana, in the publication entitled Soil Survey of Ohio and Switzerland Counties, Indiana, in 1930. The prior published soil survey will be included in the literature citations for the manuscript. A reference will be made to it in the introduction of this publication as follows:

"The first soil survey of Ohio and Switzerland Counties was made in 1930 (ref. citation). This survey updates the first survey and provides additional interpretative information on aerial photography."

Soil Survey of Ohio and Switzerland Counties, Indiana. B. H. Hendrickson, United States Department of Agriculture, in charge. T. M. Bushnell, H. P. Ulrich, and D. R. Kunkel, Purdue University Agricultural Experiment Station. 60 pp., illus., 1930.

Instructions for Map Finishing:

The conventional and special symbols used in this survey are listed on the attached SCS-SOILS-37A. These are the only symbols that will be shown on the published maps. The maps will be finished using the "Guide for Soil Map Finishing", July 1976.

# CONVENTIONAL AND SPECIAL SYMBOLS LEGEND

Soil Survey Area: Switzerland County  
State: Indiana

Date: 9/83

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
<b>CULTURAL FEATURES</b>		<b>CULTURAL FEATURES (cont.)</b>		<b>SPECIAL SYMBOLS FOR SOIL SURVEY</b>	
<b>BOUNDARIES</b>		<b>MISCELLANEOUS CULTURAL FEATURES</b>		<b>SOIL DELINEATIONS AND SOIL SYMBOLS</b>	
National, state, or province		Farmstead, house (omit in urban areas)		ESCARPMENTS	
County or parish		Church		Other than bedrock (points down slope)	
Minor civil division		School		SHORT STEEP SLOPE	
Field sheet matchline & neatline				GULLY	
AO HOC BOUNDARY (label)				MISCELLANEOUS	
Small airport, airfield, park, oilfield, cemetery, or flood pool				Gravelly spot	
STATE COORDINATE TICK		<b>WATER FEATURES</b>			
1 890 000 FEET		<b>DRAINAGE</b>			
LAND DIVISION CORNERS (sections and land grants)		Perennial, double line		Rock outcrop (includes limestone and shale) 1 to 3 acres in size	
ROADS		Perennial, single line		Sandy spot 1 to 3 acres in size	
County, farm or ranch		Intermittent		Severely eroded spot 1 to 3 acres in size	
		Drainage end			
ROAD EMBLEMS & DESIGNATIONS		<b>LAKES, PONDS AND RESERVOIRS</b>		<b>RECOMMENDED AO HOC SOIL SYMBOLS</b>	
State		Perennial		Sanitary landfill 1 to 10 acres in size	
PIPE LINE (normally not shown)		<b>MISCELLANEOUS WATER FEATURES</b>			
		Marsh or swamp			
		Wet spot			
DAMS		1 to 3 acres in size			
Large (to scale)					
Medium or small					
PITS					
Gravel pit					
Mine or quarry					

## PRIME FARMLAND MAP UNITS

The following map units meet the soil requirements for prime farmland:

<u>Publication Symbol</u>	<u>Approved Map Unit Name</u>
AvA	Avonburg silt loam, 0 to 2 percent slopes (where drained)
AvB2	Avonburg silt loam, 2 to 4 percent slopes, eroded (where drained)
Ch	Chagrin silt loam, occasionally flooded
CnB2	Cincinnati silt loam, 2 to 6 percent slopes, eroded
Co	Cobbsfork silt loam (where drained)
EKA	Elkinsville silt loam, rarely flooded, 0 to 2 percent slopes
EkB	Elkinsville silt loam, rarely flooded, 2 to 8 percent slopes
Hu	Huntington silt loam, occasionally flooded
MaB2	Markland silt loam, 1 to 6 percent slopes, eroded
Ne	Newark silt loam, occasionally flooded (where drained)
PkB	Pekin silt loam, rarely flooded, 1 to 4 percent slopes
RoA	Rossmoyne silt loam, 0 to 2 percent slopes
RoB2	Rossmoyne silt loam, 2 to 6 percent slopes, eroded
SwB2	Switzerland silt loam, 2 to 6 percent slopes, eroded
WgB2	Weisburg silt loam, 2 to 6 percent slopes, eroded
WhA	Wheeling loam, rarely flooded, 0 to 2 percent slopes
WhB	Wheeling loam, rarely flooded, 2 to 8 percent slopes

Approved: February 1, 1984

*Rodney F. Harner*

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RODNEY F. HARNER  
Head, Soils Staff  
Midwest NTC

CONVERSION LEGEND RELATING FIELD MAP SYMBOL  
TO PUBLICATION SYMBOL

<u>Field Symbol</u>	<u>Publication Symbol</u>	<u>Field Symbol</u>	<u>Publication Symbol</u>	<u>Field Symbol</u>	<u>Publication Symbol</u>
<del>AvA</del>	<del>AvA</del>	<del>EkC</del>	<del>EkB</del>	<del>PkB2</del>	<del>PkB</del>
<del>AvB2</del>	<del>AvB2</del>	<del>EkC2</del>	<del>EkB</del>	<del>PrB2</del>	<del>BmC</del>
<del>BaA</del>	<del>PkB</del>	<del>EkD2</del>	<del>WhE</del>	<del>PrC2</del>	<del>BmC</del>
<del>BmC</del>	<del>BmC</del>	<del>Ha</del>	<del>Hu</del>	<del>PrD2</del>	<del>BmC</del>
<del>BoC2</del>	<del>BoC2</del>	<del>Ho</del>	<del>Ch</del>	<del>PrE</del>	<del>BoE2</del>
<del>BoC3</del>	<del>BoC2</del>	<del>Hu</del>	<del>Hu</del>	<del>RdE</del>	<del>WhE</del>
<del>BoD2</del>	<del>BoE2</del>	<del>Ln</del>	<del>Hu</del>	<del>RoA</del>	<del>RoA</del>
<del>BoD3</del>	<del>BoE2</del>	<del>MaB2</del>	<del>MaB2</del>	<del>RoB2</del>	<del>RoB2</del>
<del>BoE</del>	<del>BoE2</del>	<del>MaC2</del>	<del>MaC2</del>	<del>SwB2</del>	<del>SwB2</del>
<del>BoE2</del>	<del>BoE2</del>	<del>MaD2</del>	<del>MaC2</del>	<del>SwC2</del>	<del>SwC2</del>
<del>CaB2</del>	<del>SwB2</del>	<del>MaE</del>	<del>MaC2</del>	<del>SwC3</del>	<del>SwC2</del>
<del>CaC2</del>	<del>CaC2</del>	<del>MaE2</del>	<del>MaC2</del>	<del>Ud</del>	<del>Ud</del>
<del>CaC3</del>	<del>CaC3</del>	<del>McA</del>	<del>MaB2</del>	<del>Wa</del>	<del>Ch</del>
<del>CbC3</del>	<del>CaC3</del>	<del>McB2</del>	<del>MaB2</del>	<del>WeA</del>	<del>PkB</del>
<del>Ch</del>	<del>Ch</del>	<del>MkD2</del>	<del>MaC2</del>	<del>WgB2</del>	<del>WgB2</del>
<del>Cn</del>	<del>Ch</del>	<del>NaB2</del>	<del>SwB2</del>	<del>WgC2</del>	<del>WgC2</del>
<del>CnB2</del>	<del>CnB2</del>	<del>Ne</del>	<del>Ne</del>	<del>WgC3</del>	<del>WgC2</del>
<del>CnC2</del>	<del>CnC2</del>	<del>NhB2</del>	<del>SwB2</del>	<del>WgD2</del>	<del>WgC2</del>
<del>CnC3</del>	<del>CnC3</del>	<del>NnB2</del>	<del>SwB2</del>	<del>WhA</del>	<del>WhA</del>
<del>Co</del>	<del>Co</del>	<del>Or</del>	<del>Ud</del>	<del>WhB</del>	<del>WhB</del>
<del>Ct</del>	<del>Co</del>	<del>PaB2</del>	<del>WvC</del>	<del>WhB2</del>	<del>WhB</del>
<del>Dn</del>	<del>Dn</del>	<del>PaC2</del>	<del>WvC</del>	<del>WhC</del>	<del>WhC</del>
<del>Dr</del>	<del>Dr</del>	<del>PaD2</del>	<del>PaE2</del>	<del>WhC2</del>	<del>WhC</del>
<del>EdF</del>	<del>EdF2</del>	<del>PaE2</del>	<del>PaE2</del>	<del>WhE</del>	<del>WhE</del>
<del>EdF2</del>	<del>EdF2</del>	<del>PeA</del>	<del>PkB</del>	<del>WhE2</del>	<del>WhE</del>
<del>EeD2</del>	<del>EeE2</del>	<del>PeB</del>	<del>PkB</del>	<del>Wi</del>	<del>Ch</del>
<del>EeE2</del>	<del>EeE2</del>	<del>PeB2</del>	<del>PkB</del>	<del>WoB2</del>	<del>WvC</del>
<del>EkA</del>	<del>EkA</del>	<del>PeC2</del>	<del>PkB</del>	<del>WoC2</del>	<del>WvC</del>
<del>EkB</del>	<del>EkB</del>	<del>PkA</del>	<del>PkB</del>	<del>Wt</del>	<del>Ch</del>
<del>EkB2</del>	<del>EkB</del>	<del>PkB</del>	<del>PkB</del>	<del>WvB</del>	<del>WvC</del>
				<del>WvC</del>	<del>WvC</del>

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CLASSIFICATION OF PEDONS SAMPLED  
FOR LABORATORY ANALYSIS

1. Laboratory Data from Purdue University with SCS-SOILS-8 forms

<u>Sampled as</u>	<u>Pedon Sample No.</u>	<u>Publication Symbol</u>	<u>Approved Series Name or Classification</u>
Avonburg	S81IN155-5	AvA	Avonburg
Bloomfield	S81IN155-21	BmC	Bloomfield taxadjunct
Bonnell	S81IN155-1	BoE2	Bonnell
Carmel	S81IN155-9	CaC2	Carmel
Chagrin	S81IN155-18	Ch	Chagrin
Cincinnati	S81IN155-4	CnB2	Cincinnati taxadjunct
Cobbsfork	S81IN155-6	Co	Cobbsfork
Dearborn	S81IN155-17	Dn	Dearborn
Eden	S81IN155-2	EdF2	Eden
Elkinsville	S81IN155-13	EkA	Elkinsville
Huntington	S81IN155-16	Hu	Huntington
Huntington	S81IN155-14	Hu	Huntington Variant
Markland	S81IN155-8	MaB2	Markland
Pekin	S81IN155-15	PkB	Pekin
Rossmoyne	S81IN155-7	RoA	Rossmoyne
Switzerland	S81IN155-10	SwC2	Switzerland taxadjunct
Weisburg	S81IN155-3	WgC2	Weisburg
Wheeling	S81IN155-20	WhA	Wheeling taxadjunct
Woolper	S81IN155-19	WvC	Woolper

2. Engineering Test Data from the Indiana State Highway Lab with  
SCS-SOILS-10 forms

<u>Sampled As</u>	<u>Pedon Sample No.</u>	<u>Publication Symbol</u>	<u>Approved Series Name or Classification</u>
Bonnell	S81IN155-1	BoE2	Bonnell
Carmel	S81IN155-9	CaC2	Carmel
Eden	S81IN155-2	EdF2	Eden
Pate	S81IN155-11	PaE2	Pate
Switzerland	S81IN155-10	SwC2	Switzerland taxadjunct

Notes of Accompany  
Classification and Correlation  
of the Soils of  
Switzerland County, Indiana  
by  
Steve R. Base and Jerry D. Larson

AVONBURG SERIES

This soil does not have a Bt horizon above the fragipan. It is also less acid in the lower part of the solum and more acid in the upper part of the B horizon than defined for the series.

BLOOMFIELD SERIES

This soil is taxadjunct to the Bloomfield series because the loamy fine sand and sandy loam argillic bands start higher in the profile than is definitive for the Bloomfield series and it is coarse-loamy.

CHAGRIN SERIES

This soil contains more coarse fragments in the lower C horizon than described for the series.

CINCINNATI SERIES

This soil is a taxadjunct because the base saturation is too low at the critical depth. It is an Ultisol.

DEARBORN SERIES

The C1 horizon contains more sand than typical for the series.

MARKLAND SERIES

The lower B horizon is stratified and contains carbonates.

ROSSMOYNE SERIES

The fragipan is a little more acid than described for the series.

SWITZERLAND SERIES

This soil is a taxadjunct because it does not have contrasting textures.

WEISBURG SERIES

This soil is borderline to fine-loamy.

WHEELING SERIES

The C horizon contains less sand and more clay than defined for the series. It is also deeper to sand and gravel than typical for the series. However, it is still being used as a source for sand and gravel.

Map units WhA and WhE are taxadjuncts. They are coarse-loamy and have a wide range in texture in the subsoil.

## CLASSIFICATION OF THE SOIL

<u>Soil Name</u>	<u>Family or Higher Taxonomic Class</u>
Avonburg	Fine-silty, mixed, mesic Aeric Fragiaqualfs
*Bloomfield	Sandy, mixed, mesic Psammentic Hapludalfs
Bonnell	Fine, mixed, mesic Typic Hapludalfs
Carmel	Fine, vermiculitic, mesic Typic Hapludalfs
Chagrin	Fine-loamy, mixed, mesic Dystric Fluventic Euthrochrepts
*Cincinnati	Fine-silty, mixed, mesic Typic Fragiudalfs
Cobbsfork	Fine-silty, mixed, mesic Typic Ochraqualfs
Dearborn	Loamy-skeletal, mixed, mesic Fluventic Hapludolls
Eden	Fine, mixed, mesic Typic Hapludalfs
Elkinsville	Fine-silty, mixed, mesic Ultic Hapludalfs
Huntington	Fine-silty, mixed, mesic Fluventic Hapludolls
Markland	Fine, mixed, mesic Typic Hapludalfs
Newark	Fine-silty, mixed, nonacid, mesic Aeric Fluvaquents
Pate	Fine, illitic, mesic Typic Hapludalfs
Pekin	Fine-silty, mixed, mesic Aquic Fragiudalfs
Rossmoyne	Fine-silty, mixed, mesic Aquic Fragiudalfs
*Switzerland	Fine-silty over clayey, mixed, mesic Typic Hapludalfs
Udorthents	Loamy, mixed, mesic Udorthents
Weisburg	Fine-silty, mixed, mesic Typic Fragiudalfs
Wheeling	Fine-loamy, mixed, mesic Ultic Hapludalfs
Woolper	Fine, mixed, mesic Typic Argiudolls

\*Taxadjunct--see "Notes to Accompany Classification and Correlation of the Soils of Switzerland County, Indiana" for details.