

CLASSIFICATION AND CORRELATION  
OF  
THE SOILS OF

*JEFFERSON COUNTY*  
*INDIANA*

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*AUGUST 1982*

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

UNITED STATES DEPARTMENT OF AGRICULTURE  
Soil Conservation Service  
Midwest National Technical Center  
Lincoln, Nebraska 68501

Classification and Correlation  
of the Soils of  
Jefferson County, Indiana

The correlation conference was held at the Midwest NTC, Lincoln, Nebraska, September 15-19, 1980. Participating were Allan K. Nickell, party leader; Jerry D. Larson, field specialist (soils), Indiana State Office; and Rodney F. Harner, soil correlator, MNTC. The correlation is based on the field correlation, soils handbook, correlation samples, laboratory data, field notes, and field sheets. Rodney F. Harner participated in the comprehensive field review during November 5-8, 1979.

At the time of the correlation conference, initial review drafts needed to be circulated and revised drafts subsequently prepared for the Deputy, Holton, Jennings, and Ryker series. The Rahm series needed to be updated. This was documented in a letter to Robert Eddleman from Eugene Pope dated September 29, 1980. In addition, on August 5, 1981, Indiana proposed the Cobbsfork series to replace the Clermont series in Jefferson County. The completion of these items accounts for the timespan between the final correlation conference and the final correlation.

Headnote for 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 lower-case letter which 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 miscellaneous areas. A final number of 2 indicates that the soil is moderately eroded and 3 that it is severely eroded.

<u>Field Symbols</u>	<u>Field Map Unit Name</u>	<u>Publ. 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
BeD3, BxD3	Beasley-Rock outcrop complex, 12 to 25 percent slopes, severely eroded	) BeD3 ) )	Beasley-Rock outcrop complex, 12 to 25 percent slopes, severely eroded
BnC2	Hickory silt loam, 6 to 12 percent slopes, eroded	) BnC2 )	Bonnell silt loam, 6 to 12 percent slopes, eroded
BnC3	Hickory silt loam, 6 to 12 percent slopes, severely eroded	) BnC3 ) )	Bonnell silt loam, 6 to 12 percent slopes, severely eroded
BnD2	Hickory silt loam, 12 to 18 percent slopes, eroded	) BnD2 )	Bonnell silt loam, 12 to 18 percent slopes, eroded
BnD3	Hickory silt loam, 12 to 18 percent slopes, severely eroded	) BnD3 ) )	Bonnell silt loam, 12 to 18 percent slopes, severely eroded
BnE	Hickory silt loam, 18 to 45 percent slopes	) BnE )	Bonnell silt loam, 18 to 45 percent slopes
GyE, CpE, CpF, FrD2, FrD3, GyE2, HaD2, HaE2, HgD3, HgE3	Caneyville-Rock outcrop complex, 25 to 60 percent slopes	) CaF ) ) ) ) ) ) )	Caneyville-Rock outcrop complex, 25 to 60 percent slopes
BoC2, LoC2, SrC2, SwC2, WgC2, WgC3	Carmel silt loam, 6 to 12 percent slopes, eroded	) CcC2 ) ) ) )	Carmel silt loam, 6 to 12 percent slopes, eroded
BsC3, LpC3, SrC3, SwC3	Carmel silty clay loam, 6 to 12 percent slopes, severely eroded	) CdC3 ) ) )	Carmel silty clay loam, 6 to 12 percent slopes, severely eroded
CcB2, WgB2	Cincinnati silt loam, 2 to 6 percent slopes, eroded	) CnB2 )	Cincinnati silt loam, 2 to 6 percent slopes, eroded
CcC2, CfC2, ChC2	Cincinnati silt loam, 6 to 12 percent slopes, eroded	) CnC2 ) )	Cincinnati silt loam, 6 to 12 percent slopes, eroded

<u>Field Symbols</u>	<u>Field Map Unit Name</u>	<u>Publ. Symbol</u>	<u>Approved Map Unit Name</u>
CcC3, CfC3	Cincinnati silt loam, 6 to 12 percent slopes, severely eroded	) CnC3 ) )	Cincinnati silt loam, 6 to 12 percent slopes, severely eroded
Cm	Clermont silt loam	Co	Cobbsfork silt loam
CrB2	Crider Variant silt loam, 2 to 6 percent slopes, eroded)	) CrB2	Crider Variant silt loam, 2 to 6 percent slopes, eroded
Da, Bo, Br	Dearborn silt loam, frequently flooded	) Da )	Dearborn silt loam, frequently flooded
Db, Bs	Dearborn channery silt loam, frequently flooded	) Db )	Dearborn channery silt loam, frequently flooded
DeB2, TrB2	Trappist Variant silt loam, 2 to 6 percent slopes, eroded)	) DeB2	Deputy silt loam, 2 to 6 percent slopes, eroded
DeC2	Trappist Variant silt loam, 6 to 12 percent slopes, eroded	) DeC2 ) )	Deputy silt loam, 6 to 12 percent slopes, eroded
DeC3	Trappist Variant silt loam, 6 to 12 percent slopes, severely eroded	) DeC3 ) )	Deputy silt loam, 6 to 12 percent slopes, severely eroded
Du	Dumps-Fly ash	Du	Dumps
BzD2, EcE2, EdD3, EdE3, LoD2, LoE2, LpD3, LpE3, SwD2, SwD3	Carmel-Eden complex, 12 to 25 percent slopes, eroded	) EeD2 ) ) ) ) ) ) )	Eden silty clay loam, 12 to 25 percent slopes, eroded
EdF	Eden flaggy silt loam, 25 to 50 percent slopes	) Eff )	Eden flaggy silty clay loam, 25 to 50 percent slopes
EeG	Eden-Caneyville complex, 25 to 60 percent slopes	) EgG )	Eden-Caneyville complex, 25 to 60 percent slopes
WhA	Wheeling silt loam, 0 to 2 percent slopes	) EkA )	Elkinsville silt loam, 0 to 2 percent slopes, rarely flooded
EkB, EkB2, EkC2, WhB, WhC2, WhD3, WhB2, ScB2	Elkinsville silt loam, 1 to 4 percent slopes, rarely flooded	) EkB ) ) ) ) ) )	Elkinsville silt loam, 2 to 8 percent slopes, rarely flooded

<u>Field Symbols</u>	<u>Field Map Unit Name</u>	<u>Publ. Symbol</u>	<u>Approved Map Unit Name</u>
GrC2, FrC2, HaC2	Grayford silt loam, 6 to 12 percent slopes, eroded	) GrC2 ) )	Grayford silt loam, 6 to 12 percent slopes, eroded
GrC3, FsC3, HgC3	Grayford silt loam, 6 to 12 percent slopes, severely eroded	) GrC3 ) )	Grayford silt loam, 6 to 12 percent slopes, severely eroded
GrD2, RkD2	Grayford silt loam, 12 to 18 percent slopes, eroded	) GrD2 )	Grayford silt loam, 12 to 18 percent slopes, eroded
GrD3	Grayford silt loam, 12 to 18 percent slopes, severely eroded	) GrD3 ) )	Grayford silt loam, 12 to 18 percent slopes, severely eroded
Hm, Cu, Sf, Wk	Haymond silt loam, occasionally flooded	) Ha )	Haymond silt loam, occasionally flooded
HkC2, HrC2	Hickory silt loam, 6 to 12 percent slopes, eroded	) HkC2 )	Hickory silt loam, 6 to 12 percent slopes, eroded
HkC3, HrC3	Hickory silt loam, 6 to 12 percent slopes, severely eroded	) HkC3 ) )	Hickory silt loam, 6 to 12 percent slopes, severely eroded
HkD2, CcD2, CfD2, HrD2, JnD2	Hickory silt loam, 12 to 18 percent slopes, eroded	) HkD2 ) ) )	Hickory silt loam, 12 to 18 percent slopes, eroded
HkD3, CcD3, CfD3, HrD3, JnD3	Hickory silt loam, 12 to 18 percent slopes, severely eroded	) HkD3 ) ) ) )	Hickory silt loam, 12 to 18 percent slopes, severely eroded
HkE	Hickory silt loam, 18 to 45 percent slopes	) HkE )	Hickory silt loam, 18 to 45 percent slopes
Sh, Bn, Sn, Wa	Orrville loam, occasionally flooded	) Ho )	Holton loam, occasionally flooded
Ln	Huntington silt loam, occasionally flooded	) Hu )	Huntington silt loam, occasionally flooded
JnB2	Jennings silt loam, 2 to 6 percent slopes, eroded	) JnB2 )	Jennings silt loam, 2 to 6 percent slopes, eroded
JnC2	Jennings silt loam, 6 to 12 percent slopes, eroded	) JnC2 )	Jennings silt loam, 6 to 12 percent slopes, eroded

<u>Field Symbols</u>	<u>Field Map Unit Name</u>	<u>Publ. Symbol</u>	<u>Approved Map Unit Name</u>
JnC3	Jennings silt loam, 6 to 12 percent slopes, severely eroded	) JnC3 ) )	Jennings silt loam, 6 to 12 percent slopes, severely eroded
MaB2, Hn, MaA, MgA, UnB2	Markland silt loam, 1 to 6 percent slopes, eroded	) MaB2 ) )	Markland silt loam, 1 to 6 percent slopes, eroded
MaC2, MaD2, MbE3, UnC2, UnC3	Markland silt loam, 8 to 15 percent slopes, eroded	) MaC2 ) ) )	Markland silt loam, 8 to 15 percent slopes, eroded
PaB2	Parke silt loam, 2 to 6 percent slopes, eroded	) NeB2 )	Negley silt loam, 2 to 6 percent slopes, eroded
PaC2, PaC3	Parke silt loam, 6 to 12 percent slopes, eroded	) NeC2 )	Negley silt loam, 6 to 12 percent slopes, eroded
NnB2, Bea, BeB2, CfB2, NnA	Nicholson silt loam, 2 to 6 percent slopes, eroded	) NnB2 ) ) )	Nicholson silt loam, 2 to 6 percent slopes, eroded
PeE, PeC2, PeD2, PeE2, PeE3	Pate silt loam, 18 to 35 percent slopes	) PeE ) ) )	Pate silty clay loam, 18 to 35 percent slopes
PkB, BaA, BaB2, PkB2, WeA	Pekin silt loam, 1 to 4 percent slopes, rarely flooded	) PkB ) ) )	Pekin silt loam, 1 to 4 percent slopes, rarely flooded
Pu	Pits, quarries	Pu	Pits, quarries
Ra, Nk, Wo	Rahm silt loam, occasionally flooded	) Ra )	Rahm silty clay loam, occasionally flooded
RoA	Rossmoyne silt loam, 0 to 2 percent slopes	) RoA )	Rossmoyne silt loam, 0 to 2 percent slopes
RoB2	Rossmoyne silt loam, 2 to 6 percent slopes, eroded	) RoB2 )	Rossmoyne silt loam, 2 to 6 percent slopes, eroded
RkA, CrA, GrA	Ryker silt loam, 0 to 2 percent slopes	) RyA )	Ryker silt loam, 0 to 2 percent slopes
RkB2, GrB2	Ryker silt loam, 2 to 6 percent slopes, eroded	) RyB2 )	Ryker silt loam, 2 to 6 percent slopes, eroded

<u>Field Symbols</u>	<u>Field Map Unit Name</u>	<u>Publ. Symbol</u>	<u>Approved Map Unit Name</u>
RkC2, CrC2	Ryker silt loam, 6 to 12 percent slopes, eroded	) RyC2 )	Ryker silt loam, 6 to 12 percent slopes, eroded
RkC3, CrC3	Ryker silt loam, 6 to 12 percent slopes severely eroded	) RyC3 ) )	Ryker silt loam, 6 to 12 percent slopes, severely eroded
SwB2	Switzerland silt loam, 2 to 6 percent slopes, eroded	) SwB2 )	Switzerland silt loam, 2 to 6 percent slopes, eroded
SxC2, SxC3	Switzerland-Carmel silt loams, 2 to 12 percent slopes, eroded	) SxC2 ) )	Switzerland-Carmel silt loams, 2 to 12 percent slopes, eroded
TrC2	Trappist silt loam, 6 to 12 percent slopes, eroded	) TrC2 )	Trappist silt loam, 6 to 12 percent slopes, eroded
TrD2, DeD2	Trappist silt loam, 12 to 18 percent slopes, eroded	) TrD2 )	Trappist silt loam, 12 to 18 percent slopes, eroded
TtC3	Trappist silty clay loam, 6 to 12 percent slopes, severely eroded	) TtC3 ) )	Trappist silty clay loam, 6 to 12 percent slopes, severely eroded
TtD3, CoE2, DeD3, TrE2, TtE3	Trappist silty clay loam, 12 to 25 percent slopes, severely eroded	) TtD3 ) ) )	Trappist silty clay loam, 12 to 25 percent slopes, severely eroded
Or, Pr	Orthents, loamy	Ud	Udorthents, loamy
Ca, Ge	Chagrín silt loam, occasionally flooded	) Wt )	Wirt silt loam, occasionally flooded

Series Established by This Correlation:

Cobbsfork (type location in Jefferson County, Indiana)  
Deputy (type location in Jefferson County, Indiana)  
Holton (type location in Jefferson County, Indiana)  
Wirt (type location in Jefferson County, Indiana)

Series Dropped or Made Inactive:

None

Certification Statement:

The state soil scientist has certified that:

1. Mapping is complete.
2. The lines on the general soil map join with the lines on general soil maps of adjacent counties. The names of adjoining mapping units have at least one series name in common with the following exceptions: (a) the Eden-Carmel association in Jefferson County joins the Corydon-Fairmount association in Clark County and (b) the Wirt-Haymond association in Jefferson County joins the Pope-Philo-Stendal-Atkins-Haubstadt-Otwell-Dubois-Robinson unit in Scott County. A detailed join statement is on file in the Indiana State Office.

On the detailed soil maps, there are numerous areas that do not join with Scott County. The survey of Scott County was completed in 1958 and was done over a long period of time. Differences between the two counties are caused mainly by changes in series concepts.

Some areas of the Ryker series in Jefferson County join areas of the Grayford series in Clark and Jennings County. The Ryker series was not recognized when Clark and Jennings Counties were mapped. A detailed join statement is on file in the Indiana State Office.

3. The detailed soil maps are joined within the survey area.
4. Interpretations for the series used in Jefferson County have been coordinated.
5. All typical pedons are located in delineations using those reference names.

Verification of Exact Cooperator Names:

The cooperators will be listed on the front cover as follows:

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 citation block on the inside of the front cover will list the cooperators and the following: It is part of the technical assistance furnished to the Jefferson County Soil and Water Conservation District. Financial assistance was made available by the Indiana Department of Natural Resources and by the County Commissioners and approved by the County Council.

Disposition of Field Sheets:

The field sheets will be retained in the state for map compilation and map finishing.

Prior Soil Survey Publications:

None

Instructions for Map Compilation and Map Finishing:

Conventional and special symbols will be compiled as shown on the Form SCS-SOILS-37A in the correlation.



## PRIME FARMLAND MAP UNITS

<u>Map Symbol</u>	<u>Soil 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)
CnB2	Cincinnati silt loam, 2 to 6 percent slopes, eroded
Co	Cobbsfork silt loam
CrB2	Crider Variant silt loam, 2 to 6 percent slopes, eroded
DeB2	Deputy silt loam, 2 to 6 percent slopes, eroded
EkA	Elkinsville silt loam, 0 to 2 percent slopes, rarely flooded
EkB	Elkinsville silt loam, 2 to 8 percent slopes, rarely flooded
Ha	Haymond silt loam, occasionally flooded
Ho	Holton loam, occasionally flooded (where drained)
Hu	Huntington silt loam, occasionally flooded
JnB2	Jennings silt loam, 2 to 6 percent slopes, eroded
MaB2	Markland silt loam, 1 to 6 percent slopes, eroded
NeB2	Negley silt loam, 2 to 6 percent slopes, eroded
NnB2	Nicholson silt loam, 2 to 6 percent slopes, eroded
PkB	Pekin silt loam, 1 to 4 percent slopes, rarely flooded
Ra	Rahm silty clay loam, occasionally flooded (where drained)
RoA	Rossmoyne silt loam, 0 to 2 percent slopes
RoB2	Rossmoyne silt loam, 2 to 6 percent slopes, eroded
RyA	Ryker silt loam, 0 to 2 percent slopes
RyB2	Ryker silt loam, 2 to 6 percent slopes, eroded
SwB2	Switzerland silt loam, 2 to 6 percent slopes, eroded
Wt	Wirt silt loam, occasionally flooded

Approved: August 27, 1982



GERALD J. POST  
Acting Head, Soils Staff  
Midwest NTC

CONVERSION LEGEND RELATING  
FIELD SYMBOLS TO THE PUBLICATION SYMBOLS

<u>Field Symbol</u>	<u>Publication Symbol</u>	<u>Field Symbol</u>	<u>Publication Symbol</u>	<u>Field Symbol</u>	<u>Publication Symbol</u>
AvA	AvA	Cu	Ha	HkE	HkE
AvB2	AvB2	Da	Da	Hm	Ha
BaA	PkB	Db	Db	Hn	MaB2
BaB2	PkB	DeB2	DeB2	HrC2	HkC2
BeA	NnB2	DeC2	DeC2	HrC3	HkC3
BeB2	NnB2	DeC3	DeC3	HrD2	HkD2
BeD3	BeD3	DeD2	TrD2	HrD3	HkD3
Bn	Ho	DeD3	TtD3	Hu	Hu
BnC2	BnC2	Du	Du	JnB2	JnB2
BnC3	BnC3	EcE2	EeD2	JnC2	JnC2
BnD2	BnD2	EdD3	EeD2	JnC3	JnC3
BnD3	BnD3	EdE3	EeD2	JnD2	HkD2
BnE	BnE	EdF	EfF	JnD3	HkD3
Bo	Da	EeG	EgG	Ln	Hu
BoC2	CcC2	EkB	EkB	LoC2	CcC2
Br	Da	EkB2	EkB	LoD2	EeD2
Bs	Db	EkC2	EkB	LoE2	EeD2
BsC3	CdC3	FrC2	GrC2	LpC3	CdC3
BxD3	BeD3	FrD2	CaF	LpD3	EeD2
BzD2	EeD2	FrD3	CaF	LpE3	EeD2
Ca	Wt	FsC3	GrC3	MaA	MaB2
CcB2	CnB2	Ge	Wt	MaB2	MaB2
CcC2	CnC2	GrA	RyA	MaC2	MaC2
CcC3	CnC3	GrB2	RyB2	MaD2	MaC2
CcD2	HkD2	GrC2	GrC2	MbE3	MaC2
CcD3	HkD3	GrC3	GrC3	MgA	MaB2
CfB2	NnB2	GrD2	GrD2	Nk	Ra
CfC2	CnC2	GrD3	GrD3	NnA	NnB2
CfC3	CnC3	GyE	CaF	NnB2	NnB2
CfD2	HkD2	GyE2	CaF	Or	Ud
CfD3	HkD3	HaC2	GrC2	PaB2	NeB2
ChC2	CnC2	HaD2	CaF	PaC2	NeC2
Cm	Co	HaE2	CaF	PaC3	NeC2
CoE2	TtD3	HgC3	GrC3	PeC2	PeE
CpE	CaF	HgD3	CaF	PeD2	PeE
CpF	CaF	HgE3	CaF	PeE	PeE
CrA	RyA	HkC2	HkC2	PeE2	PeE
CrB2	CrB2	HkC3	HkC3	PeE3	PeE
CrC2	RyC2	HkD2	HkD2	PkB	PkB
CrC3	RyC3	HkD3	HkD3	PkB2	PkB

<u>Field Symbol</u>	<u>Publication Symbol</u>	<u>Field Symbol</u>	<u>Publication Symbol</u>
Pr	Ud	WhB2	EkB
Pu	Pu	WhC2	EkB
Ra	Ra	WhD3	EkB
RkA	RyA	Wk	Ha
RkB2	RkB2	Wo	Ra
RkC2	RyC2		
RkC3	RyC3		
RkD2	GrD2		
RoA	RoA		
RoB2	RoB2		
ScB2	EkB		
Sf	Ha		
Sh	Ho		
Sn	Ho		
SrC2	CcC2		
SrC3	CdC3		
SwB2	SwB2		
SwC2	CcC2		
SwC3	CdC3		
SwD2	EeD2		
SwD3	EeD2		
SxC2	SxC2		
SxC3	SxC2		
TrB2	DeB2		
TrC2	TrC2		
TrD2	TrD2		
TrE2	TtD3		
TtC3	TtC3		
TtD3	TtD3		
TtE3	TtD3		
UnB2	MaB2		
UnC2	MaC2		
UnC3	MaC2		
Wa	Ho		
WeA	PkB		
WgB2	CnB2		
WgC2	CcC2		
WgC3	CcC2		
WhA	EkA		
WhB	EkB		

## CLASSIFICATION OF PEDONS SAMPLED FOR LABORATORY ANALYSIS

List of Pedons Characterized at Purdue Laboratory

<u>Sampled As</u>	<u>Sample No.</u>	<u>Publication Map Symbol</u>	<u>Approved Classification</u>
Avonburg	S76IN-77-2	AvA	Avonburg
Beasley	S79IN-77-12	BeD3	Beasley
Bonnell	S77IN-77-6	HkD2	Typic Paleudults, fine-loamy, mixed, mesic (inclusion in Hickory mapping unit)
Caneyville Variant	S77IN-77-4	CaF	Caneyville
Carmel	S78IN-77-8	CcC2	Carmel
Cincinnati	S76IN-77-6	CnB2	Cincinnati
Clermont	S76IN-77-5	Co	Cobbsfork
Crider Variant	S79IN-77-14	CrB2	Crider Variant
Dearborn	S78IN-77-1	Db	Dearborn (taxadjunct)
Eden	S79IN-77-15	Eff	Eden
Elkinsville	S79IN-77-16	EkB	Elkinsville
Grayford	S77IN-77-2	GrC2	Grayford
Haymond	S79IN-77-11	Ha	Haymond
Hogan	S77IN-77-1	Ho	Holton
Huntington	S78IN-77-3	Hu	Huntington
Jennings	S76IN-77-8	JnB2	Jennings
Markland	S78IN-77-2	MaB2	Markland
Nicholson	S79IN-77-13	NnB2	Nicholson
Parke	S79IN-77-21	NeB2	Negley (taxadjunct)
Pate	S79IN-77-10	PeE	Pate
Pekin	S79IN-77-22	PkB	Pekin (taxadjunct)
Rahm	S78IN-77-4	Ra	Rahm

<u>Sampled As</u>	<u>Sample No.</u>	<u>Publication Map Symbol</u>	<u>Approved Classification</u>
Rossmoyne	S76IN-77-1	RoB2	Rossmoyne
Ryker	S76IN-77-12	RyB2	Ryker (taxadjunct)
Ryker	S76IN-77-10	RyA	Ryker
Switzerland	S79IN-77-9	CcC2	Carmel (taxadjunct)
Trappist	S76IN-77-7	TrC2	Trappist (taxadjunct)
Trappist Variant	S76IN-77-9	DeB2	Deputy (taxadjunct)
Weinbach	S78IN-77-6	PkB	Aeric Fragiaqults, fine-silty, mixed, mesic (inclusion in Pekin mapping unit)
Wheeling	S78IN-77-7	EKA	Typic Dystrochrepts, coarse-silty, mixed, mesic (inclusion in Elkinsville mapping unit)
Chagrin	S77IN-77-3	Wt	Wirt
Genesee	S76IN-77-3	Wt	Wirt

List of Pedons Characterized at National Soil Survey Laboratory

Chagrin	S79IN-077-020	Wt	Wirt
Chagrin	S79IN-077-019	Wt	Wirt
Chagrin	S79IN-077-018	Wt	Wirt
Chagrin	S79IN-077-017	Wt	Wirt
Trappist	S80IN-077-004	DeB2	Deputy

Notes to Accompany  
Classification and Correlation  
of the Soils of  
Jefferson County, Indiana

by  
Rodney F. Harner

BEASLEY SERIES

The depth to free carbonates in this soil is slightly less than the series range, but the soil is not considered a taxadjunct. Also, the C horizon has less clay than the series range.

BONNELL SERIES

The lower part of the solum and the C horizon range to medium acid. The lowest reaction in the series range is slightly acid in the lower part of the solum and mildly alkaline in the C horizon. The soil is not considered a taxadjunct because of these differences. Indiana will determine if the series range should be widened to include these reactions. The range of texture in the upper part of the B horizon will be widened to include silty clay loam for pedons that are formed in as much as 18 inches of loess over the glacial till.

CANEYVILLE SERIES

The publication symbol for mapping unit Caneyville-Rock outcrop complex, 25 to 60 percent slopes, is changed from CaE to CaF to conform to the range of slope for the mapping unit.

CARMEL SERIES

Mapping units SwC2, Switzerland silt loam, 6 to 12 percent slopes, eroded, was combined with mapping unit CcC2, Carmel silt loam, 6 to 12 percent slopes, eroded, because of the similarity of the soils.

COBBSFORK SERIES

The Cobbsfork series is established by this correlation. The soil formed in loess and silty material over glacial till. The series classifies as fine-silty, mixed, mesic Typic Ochraqualfs. The soil had a field name of Clermont silt loam.

CRIDER VARIANT

There are 378 acres of the Crider Variant in Jefferson County. The soil formed in loess and residuum from limestone. The depth to limestone bedrock is 40 to 60 inches. The soil classifies as Typic Hapludalfs, fine-silty over clayey, mixed, mesic.

DEARBORN SERIES

The Dearborn series is a taxadjunct because the solum is thicker, the subsoil is lower in clay, and there are more coarse fragments in most horizons than the series range.

DEPUTY SERIES

The Deputy series is established by this correlation. The soil formed in loess and residuum from shale bedrock. In places, part of the solum formed in a thin layer of glacial till. The series classifies as Aquic Hapludults, fine-silty, mixed, mesic. This soil had a field name of Trappist Variant.

EDEN SERIES

The name of mapping unit Eff was changed from flaggy silt loam to flaggy silty clay loam to agree with the data on the typical pedon.

Mapping unit BzD2 was changed from Carmel-Eden complex, 12 to 25 percent slopes, eroded, to Eden silty clay loam, 12 to 25 percent slopes, eroded, because of the similarity of the soils. The Carmel soils described in this mapping unit were slightly more than 40 inches and the Eden soils slightly less than 40 inches to a paralithic contact.

ELKINSVILLE SERIES

Mapping unit WhA, Wheeling silt loam, 0 to 2 percent slopes, was changed to Elkinsville silt loam, 0 to 2 percent slopes, rarely flooded. The pedon analyzed as the Wheeling series is fine-silty, which is the classification of the Elkinsville series.

The slope range in the name of mapping unit EkB was changed from 1 to 4 percent to 2 to 8 percent. Two mapping units of Wheeling silt loam (WhB and WhC2) were combined with mapping unit EkB. There were 164 acres of mapping unit WhC2, Wheeling silt loam, 8 to 15 percent slopes, eroded. Many of the delineations contain short steep slope symbols and escarpment symbols. These symbols will adequately portray the information to the user without the use of a mapping unit for 8 to 15 percent slopes.

HOLTON SERIES

The Holton series is established by this correlation. The soil formed in loamy alluvium. The series classifies as Aeric Fluvaquents, coarse-loamy, mixed, nonacid, mesic. This soil had a field name of Orrville loam.

JENNINGS SERIES

The type location for the Jennings series has been moved to Jefferson County.

NEGLEY SERIES

Mapping units PaB2 and PaC2, which had a field name of Parke silt loam, were changed to Negley silt loam as recommended in the field correlation. The Negley series in Jefferson County is a taxadjunct because the soil contains fewer coarse fragments than the series range.

PATE SERIES

The name of mapping unit PeE was changed from silt loam to silty clay loam to agree with the data on the typical pedon.

PEKIN SERIES

The Pekin series is a taxadjunct because of low base saturation. The soil classifies as Aquic Fragiudults, fine-silty, mixed, mesic.

Soils mapped as Weinbach silt loam were combined with Pekin silt loam because of the similarity of the soils and the small acreage (171 acres) mapped as Weinbach silt loam.

RAHM SERIES

The name of mapping unit Ra was changed from silt loam to silty clay loam to agree with the data on the typical pedon.

SWITZERLAND SERIES

Some pedons in Jefferson County have 7.5YR hue in the upper part of the IIB2t horizon, but the soil is not considered a taxadjunct.

TRAPPIST SERIES

The Trappist series is a taxadjunct because there is less clay in the lower part of the control section than the series range.

WIRT SERIES

The Wirt series is established by this correlation. The soil formed in loamy alluvium. The series classifies as Typic Udifluvents, coarse-loamy, mixed, nonacid, mesic. This soil had a field name of Chagrin silt loam.

## CLASSIFICATION OF THE SOILS

<u>Soil Name</u>	<u>Family or Higher Taxonomic Class</u>
Avonburg	Fine-silty, mixed, mesic Aeric Fragiaqualfs
Beasley	Fine, mixed, mesic Typic HapludalFs
Bonnell	Fine, mixed, mesic Typic HapludalFs
Caneyville	Fine, mixed, mesic Typic HapludalFs
Carmel	Fine, vermiculitic, mesic Typic (Vertic) HapludalFs
Cincinnati	Fine-silty, mixed, mesic Typic FragiudalFs
Cobbsfork	Fine-silty, mixed, mesic Typic Ochraqualfs
Crider Variant	Fine-silty over clayey, mixed, mesic Typic HapludalFs
*Dearborn	Loamy-skeletal, mixed, mesic Fluventic Hapludolls
Deputy	Fine-silty, mixed, mesic Aquic HapludulFs
Eden	Fine, mixed, mesic Typic HapludalFs
Elkinsville	Fine-silty, mixed, mesic Ultic HapludalFs
Grayford	Fine-loamy, mixed, mesic Ultic HapludalFs
Haymond	Coarse-silty, mixed, nonacid, mesic Typic Udifluvents
Hickory	Fine-loamy, mixed, mesic Typic HapludalFs
Holton	Coarse-loamy, mixed, nonacid, mesic Aeric Fluvaquents
Huntington	Fine-silty, mixed, mesic Fluventic Hapludolls
Jennings	Fine-silty, mixed, mesic Typic FragiudulFs
Markland	Fine, mixed, mesic Typic HapludalFs
*Negley	Fine-loamy, mixed, mesic Typic PaleudalFs
Nicholson	Fine-silty, mixed, mesic Typic FragiudalFs
Pate	Fine, illitic, mesic Typic HapludalFs
*Pekin	Fine-silty, mixed, mesic Aquic FragiudalFs

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

<u>Soil Name</u>	<u>Family or Higher Taxonomic Class</u>
Rahm	Fine-silty, mixed, nonacid, mesic Aeric Fluvaquents
Rossmoyne	Fine-silty, mixed, mesic Aquic Fragiudalfs
Ryker	Fine-silty, mixed, mesic Typic Paleudalfs
Switzerland	Fine-silty over clayey, mixed, mesic Typic Hapludalfs
*Trappist	Clayey, mixed, mesic Typic Hapludults
Udorthents	Loamy, mixed, mesic Udorthents
Wirt	Coarse-loamy, mixed, nonacid, mesic Typic Udifluvents

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