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CLASSIFICATION AND CORRELATION OF THE SOILS OF

VIGO COUNTY INDIANA

JULY 1971

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

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

Classification and Correlation of the Soils of Vigo County, Indiana

The field correlation was reviewed by John E. McClelland with Frank W. Sanders and Robert H. Montgomery at Lincoln, Nebraska, April 12 to 16, 1971. Correlation samples, the first draft of the soil survey report manuscript, laboratory data, field notes, and the soil maps were available. The above samples and documents were considered in the preparation of this report.

Symbol	Field Name	Manuscript Map Symbol*	Approved Name
7435-B-1	Ade loamy fine sand, 2-6% slopes	AdB	Ade loamy fine sand, 2 to 6 percent slopes
7435-C-1	Ade loamy fine sand, 6-12% slopes	AdC	Ade loamy fine sand, 6 to 12 percent slopes
554-B-1	Alford silt loam, 2-6% slopes	AlB2	Alford silt loam, 2 to 6 percent slopes, eroded
554-C-2	Alford silt loam, 6-12% slopes, eroded	AlC2	Alford silt loam, 6 to 12 percent slopes, eroded
554-C-3	Alford silt loam, 6-12% slopes, severely eroded	AlC3	Alford silt loam, 6 to 12 percent slopes, severely eroded
554-D-2	Alford silt loam, 12-18% slopes, eroded	AlD2	Alford silt loam, 12 to 18 percent slopes, eroded
554-D-3	Alford silt loam, 12-18% slopes, severely eroded	AlD3	Alford silt loam, 12 to 18 percent slopes, severely eroded
554-E-2	Alford silt loam, 18-25% slopes, eroded	AlE2	Alford silt loam, 18 to 25 percent slopes, eroded

*The first capital letter is the initial one of the soil name. The lower case letter that follows identifies the soil type or phase except slope and eroded phases. The second capital letter indicates the class of slope. Symbols without a slope letter are those with a slope range of 0 to 2 percent or they are for land types with a considerable range of slope. A final number 2 or 3 in the symbol indicates that the soil is eroded or severely eroded.

Classification and Correlation, Vigo County, Indiana

Symbol	Field Name	Manuscript Map Symbol	Approved Name
554-F-1	Alford silt loam, 25-40% slopes	AlF	Alford silt loam, 25 to 40 percent slopes
3014	Armiesburg silty clay loam	Ar	Armiesburg silty clay loam
613-B-2	Ava silt loam, 2-6% slopes, eroded	AvB2	Ava silt loam, 2 to 6 percent slopes, eroded
614-B-2	Cincinnati silt, 2-6% slopes, eroded		
6542-A-1	Ayrshire fine sandy loam, 0-2% slopes	Ay	Ayrshire fine sandy loam, 0 to 2 percent slopes
8482-A-1	Whitaker sandy loam, 0-2% slopes		
712-A-1	Bartle silt loam, 0-2% slopes	Ba	Bartle silt loam
7545-B-1	Bloomfield loamy fine sand, 2-6% slopes	BlB	Bloomfield loamy fine sand, 2 to 6 percent slopes
7545-C-1	Bloomfield loamy fine sand, 6-12% slopes	BlC	Bloomfield loamy fine sand, 6 to 12 percent slopes
7545-D-1	Bloomfield loamy fine sand, 12-18% slopes	BlD	Bloomfield loamy fine sand, 12 to 18 percent slopes
7545-E-1	Bloomfield loamy fine sand, 18-25% slopes		
BA	Borrow Areas	Bp	Borrow pits
484-A-1	Martinsville silt loam, 0-2% slopes	CaA	Camden silt loam, 0 to 2 percent slopes
484-B-1	Martinsville silt loam, 2-6% slopes	CaB	Camden silt loam, 2 to 6 percent slopes
484-C-2	Martinsville silt loam, 6-12% slopes, eroded		
614-C-2	Cincinnati silt loam, 6-12% slopes, eroded	CnC2	Cincinnati silt loam, 6 to 12 percent slopes, eroded
614-D-2	Cincinnati silt loam, 12-18% slopes, eroded		
614-C-3	Cincinnati silt loam, 6-12% slopes, severely eroded	CnC3	Cincinnati silt loam, 6 to 12 percent slopes, severely eroded

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Symbol	Field Name	Manuscript Map Symbol	Approved Name
614-D-3	Cincinnati silt loam, 12-18% slopes, severely eroded	CnD3	Cincinnati silt loam, 12 to 18 percent slopes, severely eroded
622-A-1	Cory silt loam, 0-2% slopes	Co	Cory silt loam
462-A-1	Crane silt loam 0-2% slopes	Cr	Crane silt loam
13	Eel silt loam	Ee	Eel silt loam
5475-A-1	Elston loam, 0-2% slopes	ElA	Elston sandy loam, 0 to 2 percent slopes
8475-A-1	Elston sandy loam, 0-2% slopes		
81115-A-1	Dickinson sandy loam, 0-2% slopes		
4	Unnamed		
5475-B-1	Elston sandy loam, 2-6% slopes	ElB	Elston sandy loam, 2 to 6 percent slopes
8475-B-1	Elston sandy loam, 2-6% slopes		
81115-B-1	Dickinson sandy loam, 2-6% slopes		
372-A-1	Fincastle silt loam, 0-2% slopes	Fn	Fincastle silt loam
335-A-1	Fox loam, 0-2% slopes	FoA	Fox sandy loam, 0 to 2 percent slopes
8335-A-1	Fox sandy loam, 0-2% slopes		
335-B-2	Fox loam, 2-6% slopes, eroded	FoB2	Fox sandy loam, 2 to 6 percent slopes, eroded
8335-B-1	Fox sandy loam, 2-6% slopes		
335-C-3	Fox clay loam, 6-12% slopes, severely eroded	FxC3	Fox clay loam, 6 to 12 percent slopes, severely eroded
8335-C-2	Fox sandy loam, 6-12% slopes, eroded		
335-C-2	Fox loam, 6-12% slopes, eroded		
14	Genesee silt loam	Ge	Genesee silt loam

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Symbol	Field Name	Manuscript Map Symbol	Approved Name
6014 5	Genesee fine sandy loam, sandy variant Riverwash	Gf	Genesee fine sandy loam, sandy variant. (Indicate areas of River wash on maps with standard map symbols for gravel spots, each symbol representing 2-5 acres or less.)
G.P.	Gravel Pits	Gp	Gravel pits
146-G-1 374-E-2	Hennepin loam, 25-50% slopes Russell silt, 18-25% slopes, eroded	HeG	Hennepin loam, 25 to 50 percent slopes
616-E-1	Hickory loam 18-25% slopes	HkE	Hickory loam, 18 to 25 percent slopes
616-F-1 6544-F-1	Hickory loam, 25-50% slopes Princeton fine sandy loam, 25-50% slopes	HkF	Hickory loam, 25 to 40 percent slopes
552-A-1	Iva silt loam, 0-2% slopes	IvA	Iva silt loam, 0 to 2 percent slopes
552-B-1 622-B-1	Iva silt loam, 2-4% slopes Cory silt loam, 2-6% slopes	IvB	Iva silt loam, 2 to 4 percent slopes
1	Made Land	Ma	Made land
19	Millsdale silty clay loam	Md	Millsdale silty clay loam
553-A-1	Muren silt loam, 0-2% slopes	MuA	Muren silt loam, 0 to 2 percent slopes
553-B-2 853-B-2 852-B-2	Muren silt loam, 2-6% slopes, eroded Iona silt loam, 2-6% slopes, eroded Reesville silt loam, 2-6% slopes, eroded	MuB2	Muren silt loam, 2 to 6 percent slopes, eroded
51005-E-1	Negley loam, 18-25% slopes	NeE	Negley loam, 18 to 25 percent slopes

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Symbol	Field Name	Manuscript Map Symbol	Approved Name
51005-F-1	Negley loam, 25-40% slopes	NeF	Negley loam, 25 to 40 percent slopes
615-B-1 615-C-2	Parke silt loam, 2-6% slopes, eroded Parke silt loam, 6-12% slopes, eroded	PaB2	Parke silt loam, 2 to 6 percent slopes, eroded
615-D-2	Parke silt loam 12-18% slopes, eroded	PaD2	Parke silt loam, 12 to 18 percent slopes, eroded
3012	Petrolia silty clay loam	Pe	Petrolia silty clay loam
6544-B-1	Princeton fine sandy loam, 2-6% slopes	PrB	Princeton fine sandy loam, 2 to 6 percent slopes
6544-C-2	Princeton fine sandy loam, 6-12% slopes, eroded	PrC2	Princeton fine sandy loam, 6 to 12 percent slopes, eroded
6544-D-2	Princeton fine sandy loam, 12-18% slopes, eroded	PrD2	Princeton fine sandy loam, 12 to 18 percent slopes, eroded
6544-E-2	Princeton fine sandy loam, 18-25% slopes, eroded	PrE2	Princeton fine sandy loam, 18 to 25 percent slopes, eroded
465-A-1	Proctor silt loam, 0-2% slopes	Pt	Proctor silt loam, 0 to 2 percent slopes
858 3858	Ragsdale silt loam Ragsdale silty clay loam	Ra	Ragsdale silt loam
5222-A-1	Shadeland, 0-2% slopes	RdA	Randolph silt loam, 0 to 3 percent slopes
852-A-1	Reesville silt loam, 0-2% slopes	Re	Reesville silt loam, 0 to 2 percent slopes
5088 5278	Lyles loam Rensselaer loam	Rg	Rensselaer loam
3278 3898	Rensselaer clay loam Patton silty clay loam	Rn	Rensselaer clay loam
9336-G-1	Rodman gravelly loam 25-50% slopes	RoG	Rodman gravelly loam, 25 to 50 percent slopes

Classificaton and Correlation, Vigo County, Indiana

Symbol	Field Name	Manuscript Map Symbol	Approved Name
374-B-2	Russell silt loam, 2-6% slopes, eroded	RuB2	Russell silt loam, 2 to 6 percent slopes, eroded
374-C-2	Russell silt loam, 6-12% slopes, eroded	RuC2	Russell silt loam, 6 to 12 percent slopes, eroded
374-C-3	Russell silt loam, 6-12% slopes, severely eroded	RuC3	Russell silt loam, 6 to 12 percent slopes, severely eroded
374-D-2	Russell silt loam, 12-18% slopes, eroded	RuD2	Russell silt loam, 12 to 18 percent slopes, eroded
12	Shoals silt loam	Sh	Shoals silt loam
3018	Sloam clay loam	So	Sloan clay loam
7	Strip mines	St	Strip mines
463-A-1	Tippecanoe silt loam, 0-2% slopes	Tp	Tippecanoe silt loam
717	Vincennes loam	Vn	Vincennes loam
72	Wakeland silt loam	Wa	Wakeland silt loam
345-A-1 8345-A-1	Warsaw sandy loam, 0-2% slopes Warsaw sandy loam, 0-2% slopes	WrA	Warsaw sandy loam, 0 to 2 percent slopes
345-B-1 8345-B-1	Warsaw loam, 2-6% slopes, eroded Warsaw sandy loam, 2-6% slopes, eroded	WrB2	Warsaw sandy loam, 2 to 6 percent slopes, eroded
108	Washtenaw silt loam	Ws	Washtenaw silt loam
9	Westland clay loam	Wt	Westland clay loam
482-A-1	Whitaker loam, 0-2% slopes	Wx	Whitaker loam
373-B-2 372-B-1	Xenia silt loam, 2-6% slopes Fincastle silt loam, 2-6% slopes	XeB	Xenia silt loam, 2 to 6 percent slopes, eroded

Classificaton and Correlation, Vigo County, Indiana

Symbol	Field Name	Manuscript Map Symbol	Approved Name
1017	Zipp silty clay	Zp	) Zipp silty clay
3258	Montgomery silty clay		)

No soil series established or dropped in this correlation.

Approved: July 28, 1971

John E. McClelland
Principal Soil Correlator
Midwest Region

SIGNS AND SYMBOLS FOR VIGO COUNTY, INDIANA

ITEM	COLOR	SYMBOL	PROPOSED
Roads			
Good motor	Black & red		
Poor motor or private	Black & red		
Road Designations			
Interstate	Black	I-70	I-70
Federal	Black	US-40	US-40
State	Black & Red	6, Ind. 60, Ind. Hwy 60	Ind. 60
Railroads			
Single track	Black & red		label
Multiple track	Black & red		label
Abandoned	Black & red		

SIGNS AND SYMBOLS FOR VIGO COUNTY, INDIANA

ITEM	COLOR	SYMBOL	PROPOSED
Dam	Black		
Buildings	Black		
School	Black		
Church	Black		
Cemetery	Black	CEM	CEM label
Pipeline	Black & red		Omit
Power-Transmission line	Black		
Gravel pit, open mine, or quarry (label)			
Small	Black		
Large	Black	G.P Gravel Pit	G.P. Gravel Pit
Dam and reservoir			
Large	Blue & black	WATER	WATER
Small	Blue	W	W
Levee			
Without road	Black		
With road	Black		
Perennial streams	Blue		W
Intermittent streams, not crossable with farm machinery	Blue & red		
Waterway, crossable with farm machinery	Blue & red		

SIGNS AND SYMBOLS FOR VIGO COUNTY, INDIANA

ITEM	COLOR	SYMBOL	PROPOSED
Lake or Pond	Blue	POND	W WATER
Intermittent lake or pond	Blue		
Wet spot up to 1 acre	Blue		
Swamp or marsh, 1 to 3 acres. (small isolated areas)	Blue		
Swamp or marsh, over 3 acres. (large areas)	Blue		
Escarpment, other than bedrock. (dash unless soil boundary)	Black		
Bedrock escarpment (dash unless soil boundary)	Black		Omit
Mine dump	Red		
Small park, etc. (label)	Black	(label)	(label)
Soil Survey Area Boundary (takes precedence over county line.)	Black		
Soil boundary	Black		
Inclusion tie	Black		
Rock outcrop	Black	up to 1 acre 1-2 acres 2-3 acres	up to 1 acres 1-2 acres 2-3 acres
Gravel	Black	(3 per acre)	(3 per acre)
Sand spot	Black	(5 per acre)	(5 per acre)
Made land	Black	up to 3 acres	up to 3 acres

SIGNS AND SYMBOLS FOR VIGO COUNTY, INDIANA

ITEM	COLOR	SYMBOL		PROPOSED	
Any located station or object (with explanatory note on back of field sheet.)	Black				
Blowout	Black		up to 1 acre	Omit	
Severely eroded or gullied area	Red		3 acres or less		3 acres or less
Gully	Red				
Aerial photograph match line	Green			Omit	
Fence line	Black & red			Omit	
Land use symbols	Black & red	H, F, X, P, L		Omit	

Notes to Accompany

Classification and Correlation

of the Soils of

Vigo County, Indiana

by

John E. McClelland

1. ADE SERIES
The family texture class is based on the texture of the lamellae of the argillic horizon.

2. ALFORD SERIES
The Fayette and Alford series differ mainly in that the Fayette requires much less phosphorous than the Alford series.

3. ARMIESBURG SERIES
The Huntington series requires less phosphorous to produce good crops and has silt loam textures rather than silty clay loam textures in the Armiesburg soils.

4. AYRSHIRE SERIES
The official series description lacks several comparisons. The slope designation was retained in the mapping unit name for consistence with phase names in Sullivan County.

5. BORROW PITS
Borrow areas are correlated "borrow pits". Most areas are excavated, but a few are leveled, the tops of hills having been removed.

6. HICKORY SERIES
The upper slope limit of the series in this survey area is about 40 percent. The range in slope was reduced accordingly for the steeper unit.

7. NEGLEY SERIES
In Vigo County the clay content appears to be decreasing above 60 inches and it seems likely the soils will be taxadjuncts to the series if it is classified as a Paleudalf.

8. PARKE SERIES
The soils are marginal Hapludalfs - Paleudalfs but appear to be within the range of the Hapludalfs.

9. PETROLIA SERIES
The distinction between the Typic Fluvaquents and Typic Haplaquepts is not easy to make. Illinois prefers Haplaquepts.

10. RAGSDALE SERIES
Mechanical analyses indicate that the silty clay loam unit is silt loam. Thus the 2 units are combined.

11. RANDOLPH SERIES
The slopes range to 3 percent and the slope range of the unit was adjusted accordingly.

12. RUSSELL SERIES
Its nearest competitors are the Dodge, Mayville, and Xenia series. Russell and Xenia series have sola 40 to 60 or more inches deep, although Xenia is in an Aquic subgroup. Both Mayville and Dodge soils have sola thinner than 40 inches and differ in that Mayville is moderately well drained with higher chroma mottles at least in the lower B2 horizon.

13. SHOALS SERIES
The description contains a typographic error and needs some updating. Frank Sanders will submit a revised draft.

14. WARSAW SERIES
There is more gravel in the soils in this area than is typical for the series.

Classification of the Soils of

Vigo County, Indiana

Soil Series	Classification
Ade	Psammentic Argiudolls, coarse-loamy, mixed, mesic
Alford	Typic Hapludalfs, fine-silty, mixed, mesic
Armiesburg	Fluventic Hapludolls, fine-silty, mixed, mesic
Ava	Typic Fragiudalfs, fine-silty, mixed, mesic
Ayrshire	Aeric Ochraqualfs, fine-loamy, mixed, mesic
Bartle	Aeric Fragiaqualfs, fine-silty, mixed mesic
Bloomfield	Psammentic Hapludalfs, coarse-loamy, mixed, mesic
Camden	Typic Hapludalfs, fine-silty, mixed, mesic
Cincinnati	Typic Fragiudalfs, fine-silty, mixed, mesic
Cory	Mollic Ochraqualfs, fine-silty, mixed, mesic
Crane	Aquic Argiudolls, fine-loamy, mixed, mesic
Eel	Fluvaquentic Eutrochrepts, fine-loamy, mixed, mesic
Elston	Typic Argiudolls, coarse-loamy, mixed, mesic
Fincastle	Aeric Ochraqualfs, fine-silty, mixed, mesic
Fox	Typic Hapludalfs, fine-loamy over sandy or sandy-skeletal, mixed, mesic
Genesee	Fluventic Eutrochrepts, fine-loamy, mixed, mesic
Hennepin	Typic Eutrochrepts, fine-loamy, mixed, mesic
Hickory	Typic Hapludalfs, fine-loamy, mixed, mesic
Iva	Aeric Ochraqualfs, fine-silty, mixed, mesic
Millsdale	Typic Argiaquolls, fine, mixed, mesic
Muren	Aquic Hapludalfs, fine-silty, mixed, mesic
Negley	Ultic Hapludalfs, fine-loamy, mixed, mesic
Parke	Ultic Hapludalfs, fine-silty, mixed, mesic

Petrolia	Typic Fluvaquents, fine-silty, mixed, nonacid, mesic
Princeton	Typic Hapludalfs, fine-loamy, mixed, mesic
Proctor	Typic Argiudolls, fine-silty, mixed, mesic
Ragsdale	Typic Argiaquolls, fine-silty, mixed, mesic
Randolph	Aeric Ochraqualfs, fine, illitic, mesic
Reesville	Aeric Ochraqualfs, fine-silty, mixed, mesic
Rensselaer	Typic Argiaquolls, fine-loamy, mixed, mesic
Rodman	Typic Hapludolls, sandy-skeletal, mixed, mesic
Russell	Typic Hapludalfs, fine-silty, mixed, mesic
Shoals	Aeric Fluvaquents, fine-loamy, mixed, nonacid, mesic
Sloan	Fluvaquentic Haplaquolls, fine-loamy, mixed, mesic
Tippecanoe	Typic Argiudolls, fine-loamy, mixed, mesic
Vincennes	Typic Haplaquepts, fine-loamy, mixed, acid, mesic
Wakeland	Aeric Fluvaquents, coarse-silty, mixed, nonacid, mesic
Warsaw	Typic Argiudolls, fine-loamy over sandy or sandy-skeletal, mixed, mesic
Washtenaw	Typic Haplaquents, fine-loamy, mixed, nonacid, mesic
Westland	Typic Argiaquolls, fine-loamy, mixed, mesic
Whitaker	Aeric Ochraqualfs, fine-loamy, mixed, mesic
Xenia	Aquic Hapludalfs, fine-silty, mixed, mesic
Zipp	Typic Haplaquepts, fine, mixed, nonacid, mesic

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