

File 1000

**CLASSIFICATION AND CORRELATION
OF
THE SOILS OF**

**SHELBY COUNTY
INDIANA**

DECEMBER 1968



**SOIL CONSERVATION SERVICE, USDA
MIDWEST REGIONAL TECHNICAL SERVICE CENTER
LINCOLN, NEBRASKA**

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

Classification and Correlation
of the Soils of
Shelby County, Indiana

The final correlation is based on the first draft of the manuscript and in consultation with H. P. Ulrich (Purdue University), F. W. Sanders (Soil Correlator, Indiana), S. Brownfield (Party Leader, SCS), R. I. Turner (Ass't Principal Soil Correlator), and R. W. Johnson (Soil Correlator, Michigan) during the week of April 1 to 5, 1968. Mr. Johnson also participated in the final field review in Shelby County with the Indiana staff during the week of September 11 to 15, 1967.

Symbol	Field Name	Approved Name
542-A-1	Ayrshire silt loam	) Ayrshire fine sandy loam <i>Ay</i>
6542-A-1	Ayrshire fine sandy loam	
5543-B-1	Iona loam	
B.P.	Borrow pit	Use standard spot symbol for borrow pits
147-A-0	Cope silt loam	) Brookston silty clay loam <i>Br</i>
147-A-1		
148-A-0	Brookston silt loam	
3148	Brookston silty clay loam	
3148-A-0		
3148-A-0		
3378-A-0		
377-A-1	Cope silt loam)
214-D-1	Milton silt loam	) Corydon stony silt loam, <i>CoE</i>
214-D-2		
214-D-3		) 18 to 35 percent slopes
9216-D-3	Farmington stony silt loam)
9216-E-1)
9216-F-1)
214-C-2	Milton silt loam)
214-C-3)
216-F-1	Unnamed)

Symbol	Field Name	Approved Name
142V-A-1	Crosby silt loam, variant	Crosby silt loam, 0 to 2 percent slopes <i>CrA</i>
141-A-1	Bethel silt loam	
142-A-1	Crosby silt loam	
142-A-0		
5142-A-1	Crosby loam	
143-A-1	Celina silt loam	
371-A-1	Delmar silt loam	
372-A-1	Fincastle silt loam	
5542-A-1	Ayrshire loam	
142-B-1	Crosby silt loam	Crosby silt loam, 2 to 4 percent slopes <i>CrB</i>
142-B-2		
142-B-3		
142-B-0		
372-B-1	Fincastle silt loam	
372-B-2		
5542-B-2	Ayrshire loam	
142V-B-1	Crosby silt loam, variant	
142V-B-2		
142-BK-2	Crosby silt loam	Crosby-Miami silt loams, 0 to 6 percent slopes <i>CsB</i>
143-B-1	Celina silt loam	
143-B-2		
143V-B-1		
143V-B-2	Celina silt loam, variant	
5143-B-1	Celina loam	
373-B-1	Xenia silt loam	
373-B-2		
13	Eel silt loam	Eel silt loam <i>Ee</i>
13-A-0		
13C-A-0		
3013-A-0	Eel silty clay loam	
5013	Eel loam	
5013-A-0		

Symbol	Field Name	Approved Name
335-A-1	Fox silt loam) Fox loam,) 0 to 2 percent slopes))))
335-A-0		
5335-A-1	Fox loam	
5335-A-0		
6335-A-1	Fox fine sandy loam	
6335-A-1	Fox sandy loam	
145-B-1	Fox silt loam, same phase) Fox loam,) 2 to 6 percent slopes, eroded)))))))))))))))
145-B-2		
335-B-1	Fox silt loam	
335-B-2		
5335-B-1	Fox loam	
5335-B-2		
9335-B-2	Fox gravelly loam	
354-B-1	Mill Creek silt loam	
354-B-2		
5354-B-1	Mill Creek loam	
5354-B-2		
445-B-1	Ockley silt loam	
445-B-2		
5445-B-1	Ockley loam	
5445-B-2		

FOA

FOB2

Symbol	Field Name	Approved Name
145-C-1	Fox silt loam, kame phase	) Fox loam, 6 to 12 percent slopes, eroded
145-C-2		
5145-C-1	Fox loam, kame phase	) eroded
5145-C-2		
335-C-1	Fox silt loam)
335-C-2		
5335-C-1	Fox loam)
5335-C-2		
5335d-C-2	Nineveh loam)
9335-C-2	Fox gravelly loam	
445-C-1	Ockley silt loam)
445-C-2		
5445-C-2	Ockley loam)
6445-C-2	Ockley fine sandy loam	
484-C-1	Martinsville silt loam)
484-C-2		
5484-C-2	Martinsville loam)
6484-C-2	Martinsville fine sandy loam	
145-D-1	Fox silt loam, kame phase	) Fox loam, 12 to 18 percent slopes, eroded
145-D-2		
145-D-3)
5145-D-3	Fox loam, kame phase	
335-D-1	Fox silt loam)
335-D-2		
335-D-3)
5335-D-1	Fox loam	
5335-D-2)
5335-D-3		
5335d-D-1	Nineveh loam)
484-D-3	Martinsville silt loam	
484-E-3)
5484-D-1	Martinsville loam	
6484-D-2	Martinsville fine sandy loam)
184-A-1	Kendallville silt loam	) Fox loam, 0 to 3 percent slopes, loamy substratum
184-B-1		
184-B-2		) loamy substratum
5184-A-1	Kendallville loam	
5184-A-0)
5184-B-1		
5184-B-2)

Fo C2

Fo D2

FsA

Symbol	Field Name	Approved Name
G.P. Gravel pit ⌘	Gravel pits	) Gravel pits) (Use standard spot symbols) for areas less than 2.5) acres.) <i>GP</i>
144-E-1 144-E-2 144-E-3 146-E-1 146-E-2 146-E-3	Miami silt loam Hennepin silt loam	) Hennepin loam,) 18 to 25 percent slopes <i>HeE</i>)))))
5146-E-1 5146-E-2 5146-E-3 5146-E-4	Hennepin loam))))
144-F-1 146-F-1 146-F-2 146-F-3 146-G-1 146-G-2 146-G-3	Miami silt loam Hennepin silt loam	) Hennepin loam,) 25 to 50 percent slopes <i>HeF</i>)))))
5146-F-1 5146-F-2 5146-F-3 5146-G-1 5146-G-2	Hennepin loam)))))
3019 3149 3149-A-0 3359 3359-A-0 3898	Unnamed silty clay loam Kokomo silty clay loam Lear silty clay loam Patton silty clay loam	) Kokomo silty clay loam <i>Ko</i>)))))
1010 140 140-A-0 3140 5140 6140 7140	Unnamed silty clay Carlisle muck Willette muck Linwood muck Unnamed muck Tawas muck	) Linwood muck <i>Lm</i>))))))

Symbol	Field Name	Approved Name	
464-A-1	Martinsville silt loam	Martinsville loam, 0 to 2 percent slopes	MaA
464-A-6			
5484-A-1	Martinsville loam		
5484d-A-1	Martinsville loam, dark		
6484-A-1	Martinsville fine sandy loam		
484-B-1	Martinsville silt loam	Martinsville loam, 2 to 6 percent slopes, eroded	MaB2
484-B-2			
484-B-3			
5484-B-1	Martinsville loam		
5484-B-2			
5484-B-3			
5484d-B-2	Martinsville loam, dark		
6484-B-1	Martinsville fine sandy loam		
6484-B-2			
23	Medway silt loam	Medway silt loam	Me
23-A-0			
3023	Medway silty clay loam		
3023-A-0			
5023	Medway loam		
5023-A-0			
144-A-1	Miami silt loam	Miami silt loam, 2 to 6 percent slopes, eroded	MLB2
144-B-1			
144-B-2			
144-B-6			
144V-B-1	Miami silt loam, variant		
144V-B-2			
374-A-1	Russell silt loam		
374-B-1			
374-B-2			
5144-B-2	Unnamed		
143-C-2	Celina silt loam	Miami silt loam, 6 to 12 percent slopes, eroded	MLC2
143V-C-1	Celina silt loam, variant		
143V-C-2			
144-C-1	Miami silt loam		
144-C-2			
144-C-6			
144V-C-2	Miami silt loam, variant		
184-C-2	Kendallville silt loam		
374-C-1	Russell silt loam		
374-C-2			

Symbol	Field Name	Approved Name
144-D-1	Miami silt loam) Miami silt loam,) 12 to 18 percent slopes,) eroded
144-D-2		
146-D-1	Hennepin silt loam	
374-D-2	Russell silt loam)
143-B-3	Celina silt loam) Miami clay loam,) 2 to 6 percent slopes,) severely eroded
143V-B-3	Celina silt loam, variant	
144-B-3	Miami silt loam	
144V-B-3	Miami silt loam, variant	
374-B-3	Russell silt loam	
143-C-3	Celina silt loam) Miami clay loam,) 6 to 12 percent slopes,) severely eroded
143V-C-3	Celina silt loam, variant	
144-C-3	Miami silt loam	
144V-C-3	Miami silt loam, variant	
184-C-3	Kendallville silt loam	
374-C-3	Russell silt loam)
144-D-3	Miami silt loam) Miami clay loam,) 12 to 18 percent slopes,) severely eroded
144-D-4		
146-D-3	Hennepin silt loam	
5146-D-3	Hennepin loam	
374-D-3	Russell silt loam	
144-BK-2	Miami silt loam	Miami-Crosby silt loams, 0 to 6 percent slopes,
218	Millsdale silt loam) Millsdale silty clay loam
218-A-0		
3218-A-0	Millsdale silty clay loam	
3218		
214-A-1	Milton silt loam) Milton silt loam,) 1 to 6 percent slopes
214-B-1		
214-B-2		
214-B-3		
574-D-3	Cincinnati silt loam) Negley loam,) 12 to 18 percent slopes,) eroded
615-D-3	Parke silt loam	
1005-D-2	Negley silt loam	
51005-D-1	Negley loam	
51005-D-2		
51005-D-3)
615-D-2	Unnamed)

Symbol	Field Name	Approved Name	
51005-E-1	Negley loam) Negley loam,) 18 to 25 percent slopes))	NeE
51005-E-2			
51005-F-1			
51005-F-2			
335d-A-1	Nineveh silt loam) Nineveh loam,) 0 to 2 percent slopes	N ₂ A
5335d-A-1	Nineveh loam		
335d-B-1	Nineveh silt loam) Nineveh loam,) 2 to 6 percent slopes))	N ₂ B
335d-B-2			
5335d-B-1	Nineveh loam		
5335d-B-2			
5354-A-1	Mill Creek silt loam) Ockley loam,) 0 to 2 percent slopes))))	OcA
5354-A-2	Mill Creek loam		
445-A-1	Ockley silt loam		
445d-A-1	Ockley silt loam, dark		
5445d-A-1	Ockley loam, dark		
5445-A-1	Ockley loam		
615-B-1	Parke silt loam) Parke silt loam,) 2 to 6 percent slopes, eroded	PaB ₂
615-B-2			
570-C-1	Cincinnati silt loam) Parke silt loam,) 6 to 12 percent slopes,) eroded))	PaC ₂
570-C-2			
615-C-1	Parke silt loam		
615-C-2			
615-C-3			
6544-A-1	Princeton fine sandy loam	Princeton fine sandy loam, 0 to 2 percent slopes	PrA
5544-B-1	Princeton loam) Princeton fine sandy loam,) 2 to 6 percent slopes))	PrB
5544-B-2			
6544-B-1	Princeton fine sandy loam		
6544-B-2			

Symbol	Field Name	Approved Name
5544-C-2	Princeton loam) Princeton fine sandy loam, ^{Ac}) 6 to 12 percent slopes
6544-C-3		
5544-D-1)
5544-D-3		
5544-E-1)
6544-C-1	Princeton fine sandy loam	
6544-C-2)
6544-C-2		
6544-D-1)
6544-D-2		
7545-C-1	Bloomfield loamy fine sand)
7545-C-2		
7545-D-1)
7545-E-1		
L.S.	Quarries) Quarries ^{Qu}) (Use standard spot symbols for areas 2.5 acres or less.)
		
212-A-1	Randolph silt loam) Randolph silt loam ^{Ra}))
212-B-1		
212-B-2		
488-A-0	Mahalasville silt loam) Rensselaer clay loam ^{Re})
3488	Mahalasville silty clay loam	
3488-A-0)
5488-A-0	Mahalasville loam	
3489-A-0	Needham silty clay loam)
3548-A-0	Ragsdale silty clay loam	
145-E-1	Fox silt loam, kame phase) Rodman gravelly loam, ^{RoE}) 18 to 35 percent slopes)
145-E-2		
145-F-1		
5145-E-1	Fox loam, kame phase)
5335-E-1	Fox loam	
5336-E-1	Rodman loam)
5336-F-1		
9336-D-1	Rodman gravelly loam)
9336-D-2		
9336-D-3		
9336-E-1		
9336-E-2		
9336-E-3		
9336-F-1		
9336-G-1		

Symbol	Field Name	Approved Name	
9024	Ross gravelly loam) Ross loam, moderately deep variant	Ps
5025	Hartman loam		
9025IB	Hartman gravelly loam		
9535d-A-1	Nineveh gravelly loam		
24	Ross silt loam) Ross silt loam	Rt
24-A-0			
3024	Ross silty clay loam		
3024-A-0			
5024	Ross loam		
5024-A-0			
18	Sloan silt loam) Saranac silty clay loam	Sa
18-A-0			
3018	Sloan silty clay loam		
3018-A-0			
3018S			
3338	Sebewa silty clay loam) Sebewa clay loam	Se
3338-A-0			
12	Shoals silt loam) Shoals silt loam	Sh
12-A-0			
12S			
12C	Shoals silt loam, cut up		
12L	Shoals silt loam, wet		
5012	Shoals silty clay loam		
3012-A-0			
3012C	Shoals silty clay loam, cut up		
5012	Shoals loam		
5012-A-0			
6012-A-0	Shoals fine sandy loam		
22	Unnamed silt loam		
22-A-0			
3022	Unnamed silty clay loam		
3022-A-0			
332-A-1	Homer silt loam) Sleeth loam	Sm
5332-A-1	Homer loam		
6332-A-1	Homer fine sandy loam		
352-A-1	Massie silt loam		
5352-A-1	Massie loam		
5352-B-0			
353-A-1	Caesar silt loam		
5353-A-1	Caesar loam		
442-A-1	Sleeth silt loam		
442-A-0			
5442-A-1	Sleeth loam		

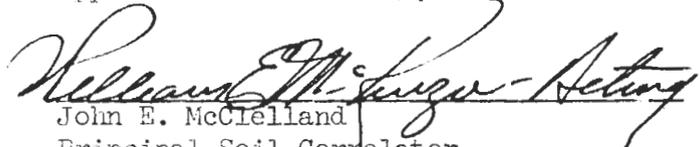
Instructions to the Cartographic Section:

Slope groups and slope figures to be included with each slope group:

- A - Includes 0, 1, 2 percent slopes
- B - Includes 3, 4, 5, 6 percent slopes
- C - Includes 7, 8, 9, 10, 11, 12 percent slopes
- D - Includes 13, 14, 15, 16, 17, 18 percent slopes
- E - Includes 19, 20, 21, 22, 23, 24, 25 percent slopes
- F - Includes 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 percent slopes
- G - Includes all slopes 36 percent and above

All signs and symbols shown on the field sheets should be shown according to the instructions on the legend submitted with the field sheets to Cartographic.

Approved: December 19, 1968



John E. McClelland
Principal Soil Correlator
Midwest Regional Technical Service Center

Classification and Correlation

of the Soils of
Shelby County, Indiana

by

R. W. Johnson and R. I. Turner

1. BORROW PITS
Use standard spot symbols for Borrow pits.
2. CORYDON SERIES
Some 97 acres of Milton silty clay loam, 6 to 12 percent slopes, severely eroded, were included with Corydon stony silt loam, 18 to 35 percent slopes because of small acreage and only minor differences in characteristics.
3. CROSBY SERIES
No change except "eroded" was dropped from Crosby silt loam, 2 to 4 percent slopes and from Crosby-Miami silt loams, 0 to 6 percent slopes, due to a lack of evidence of erosion in the description. Some areas (identified in field correlation as a fine textured variant) included with Crosby will have a weighted average clay content between 36 and 40 percent. The general location of these areas in the county will be given and some slight differences in interpretations will be noted in the mapping unit descriptions. These areas will be considered as taxadjuncts in the Crosby series due to the higher clay content outlined above.
4. EEL SERIES
Those areas included with the Eel which contain free carbonates at less than 20 inches depth below the surface are considered as taxadjuncts. The presence of a small amount of free carbonates at these depths has no known influence on the use and management of these soils.
5. GENESEE SERIES
Those areas included with the Genesee which contain free carbonates at less than 20 inches depth below the surface are considered as taxadjuncts. The presence of a small amount of free carbonates at these depths has no known influence on the use and management of these soils.

6. GENESEE SERIES, SANDY VARIANT
This soil differs from the Genesee series in being in a coarse-loamy family.
7. GRAVEL PITS
Use standard spot symbols for areas of $2\frac{1}{2}$ acres or less.
8. HENNEPIN SERIES
Correlated as a taxadjunct of the Hennepin series on the basis that the cambic horizon was calcareous.
9. MARTINSVILLE SERIES
Martinsville loam, 6 to 12 percent slopes, eroded, was combined with Fox loam, 6 to 12 percent slopes, eroded, because of small acreage and similar characteristics.
10. MIAMI SERIES
"Eroded" was dropped from the Miami-Crosby silt loams, 0 to 6 percent slopes because of lack of significant evidence of erosion.
11. MILTON SERIES
0 to 2 percent slopes and 2 to 6 percent slopes, eroded were combined as Milton silt loam, 1 to 6 percent slopes because of small acreage of each unit and to more accurately portray the landscape unit. Milton silty clay loam, 6 to 12 percent slopes, severely eroded, was combined with Corydon stony silt loam, 18 to 35 percent slopes because of small acreage and similar characteristics.
12. NINEVEH SERIES
Nineveh loam, 2 to 6 percent slopes, eroded, was changed to Nineveh loam, 2 to 6 percent slopes, because typifying pedon and mapping unit description indicated that only a small portion of the unit was eroded.
13. OCKLEY SERIES
This unit was changed from Ockley loam to Ockley loam, 0 to 2 percent slopes since Ockley has been correlated on other slopes in Indiana.
14. PRINCETON SERIES
"Eroded" was dropped from the Princeton fine sandy loam, 2 to 6 percent slopes, and Princeton fine sandy loam, 6 to 12 percent slopes, as the descriptions indicated that only a small portion of these units were eroded.
15. QUARRIES
Use standard spot symbols for areas less than 2.5 acres.
16. ROSS SERIES
The soils in this county are a taxadjunct in the Ross series due to the 1 chroma colors in the C horizon above 40 inches. These soils are not wet.

17. ROSS SERIES, MODERATELY DEEP VARIANT

This soil differs from the Ross series in the following respects:

(1) The calcareous sand and gravel substratum occurs at a depth of 18 to 36 inches;

(2) The profile is calcareous throughout.

The field correlation proposed naming this unit Ross, thin solum variant. It was felt that Ross, moderately deep variant, was more connotative and better portrayed the unit.

18. SARANAC SERIES

Field correlation proposed naming this unit Sloan silty clay loam; however the description clearly portrayed a soil in a fine family, i.e., heavy silty clay loam or light silty clay.

19. SLEETH SERIES

Further study resulted in the decision to center Sleeth on a fine-loamy concept and to drop the Fenns at the present time. The Starks series is thought to overlap nearly completely that part of the Sleeth series which is fine-silty.

SOIL CLASSIFICATION

17

Shelby County, Indiana

by
R. W. Johnson and R. I. Turner

<u>Soil Series</u>	<u>Classification</u>
Ayrshire	Aeric Ochraqualfs, fine-loamy, mixed, mesic
Brookston	Typic Argiaquolls, fine-loamy, mixed, noncalcareous, mesic
Corydon	Lithic Argiudolls, clayey, mixed, mesic
Crosby	Aeric Ochraqualfs, fine-loamy, mixed, mesic
Eel	Aquic Fluventic Eutrochrepts, fine-loamy, mixed, mesic
Fox	Typic Hapludalfs, fine-loamy over sandy or sandy-skeletal, mixed, mesic
Genesee	Fluventic Eutrochrepts, fine-loamy, mixed, mesic
Genesee, sandy variant	Fluventic Eutrochrepts, coarse-loamy, mixed, mesic
Hennepin	Typic Eutrochrepts, fine-loamy, mixed, mesic
Kokomo	Typic Argiaquolls, fine, mixed, noncalcareous, mesic
Linwood	Terrie Medosaprists, nonacid, loamy, mesic
Martinsville	Typic Hapludalfs, fine-loamy, mixed, mesic
Medway	Aquic Fluventic Hapludolls, fine-loamy, mixed, mesic
Miami	Typic Hapludalfs, fine-loamy, mixed, mesic
Millsdale	Typic Argiaquolls, fine, mixed, noncalcareous, mesic
Milton	Typic Hapludalfs, fine, illitic, mesic
Negley	Ultic Hapludalfs, fine-loamy, mixed, mesic
Nineveh	Typic Argiudolls, fine-loamy over sandy or sandy-skeletal, mixed, mesic

Ockley	Typic Hapludalfs, fine-loamy, mixed, mesic
Parke	Typic Hapludults, fine-silty, mixed, mesic
Princeton	Typic Hapludalfs, fine-loamy, mixed, mesic
Randolph	Aeric Ochraqualfs, fine, illitic, mesic
Rensselaer	Typic Argiaquolls, fine-loamy, mixed, noncalcareous, mesic
Rodman	Typic Hapludolls, sandy-skeletal, mixed, mesic
Ross	Cumulic Hapludolls, fine-loamy, mixed, mesic
Ross, moderately deep variant	Cumulic Hapludolls, fine-loamy over sandy or sandy-skeletal, mixed, mesic
Saranac	Fluventic Haplaquolls, fine, mixed, noncalcareous, mesic
Sebewa	Typic Argiaquolls, fine-loamy over sandy or sandy-skeletal, mixed, noncalcareous, mesic
Shoals	Aeric Fluventic Haplaquepts, fine-loamy, mixed, nonacid, mesic
Sleeth	Aeric Ochraqualfs, fine-loamy, mixed, mesic
Westland	Typic Argiaquolls, fine-loamy, noncalcareous, mixed, mesic
Whitaker	Aeric Ochraqualfs, fine-loamy, mixed, mesic