FILE C

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

Classification and Correlation

of the

Soils of Sullivan County, Indiana

This correlation was prepared by William E. McKinzie in conference with Frank W. Sanders and Leo A. Kelley during the week of June 6, 1966. It is based on field observations, soil handbook, and coorespondence with surrounding States. Dr. A. R. Aandahl, R. W. Eikleberry, Frank W. Sanders, T. C. Bass, Leo A. Kelley, and W. E. McKinzie spent the 21st and 22nd of April in the field reviewing mapping units. The following week a draft of the final correlation was prepared by Frank W. Sanders, Leo A. Kelley, and W. E. McKinzie. Most of the week, however, was spent in the field checking mapping units. This draft was discussed with Prof. H. P. Ulrich and T. C. Bass.

Symbols		Approved Name
7435-B-1	8275-B-1	Ade loamy fine sand, 2 to 6 percent slopes
7435-B-2	7475-B-1	
7435-BK-2	7475-B-2	
8435-B-1	7275-A-1	
8435-B-2	0435-A-1	
7275-B-1	7435-A-1	
7275-B-2	7475-A-1	
8275-C-1	7435-C-3	Ade loamy fine sand, 6 to 12 percent slopes
7435-C-1	7475-C-3	
7275-C-0	8275-D-2	
7475-C-1	7435-D-1	
7435-C-2	7435-D-3	
7435-CK-1	7475-D-2	
7275-C-2	7475-E-1	
8275-C-2	7435-E-2	
7475-C-2	7475-E-2	
83-A-0	83C-A-0	Wilbur ~~Adler~~ silt loam
83-A-+	83C-A-+	
83-A-1	83CY-A-0	
83-B-0	83H-A-0	
83-B-1		

Symbols		Approved Name
554-A-1	554-B-2	Alford silt loam, 2 to 6 percent slopes, eroded
544-A-1	544-B-2	
854-A-1	854-B-2	
854-A-+	615-B-1	
554-B-1	615-B-2	
544-B-1	615-B-3	
854-B-1	555-B-2	
854-A-2	555-B-3	
554-C-1	852-C-2	Alford silt loam, 6 to 12 percent slopes, eroded
553-C-1	854-C-1	
554-C-2	854-C-0	
544-C-1	854-C-2	
544-C-2	615-C-2	
544-CK-2	555-C-2	
853-C-1	555-D-2	
853-C-2	615-D-2	
554-D-2	854-D-2	Alford silt loam, 12 to 18 percent slopes, eroded
544-D-1	674Co-C-2	
544-D-2	674-D-2	
853-D-2	674-E-1	
854-D-1	674-E-2	
544-E-1	854-E-1	Alford silt loam, 18 to 25 percent slopes
544-E-2	854-E-2	
544-F-3	544-G-3	Alford silt loam, 25 to 50 percent slopes
544-F-1	854-F-1	
544-F-2	854-F-2	
544-F-4	854-F-3	
544-G-1	854-F-4	
544-G-2	854-G-1	
544-B-3	854-B-3	Alford silt loam, 2 to 6 percent slopes, severely eroded
544-B-4	854-B-4	
554-B-5	553-B-3	
544-B-3		
554-C-3	853-C-4	Alford silt loam, 6 to 12 percent slopes, severely eroded
554-C-4	854-C-3	
554-C-5	854L-C-3	
544-C-3	854-C-4	
852-C-3	854-C-5	
853-C-3		

Symbols		Approved Name
554-D-3 554-D-4 544-D-3 853-D-3	854-D-3 854-D-4 544-E-3 854-E-3	Alford silt loam, 12 to 18 percent slopes, severely eroded
91-A-0	91W-A-0	Atkins silt loam
613-A-0 613-A-+ 614-A-2 614-A-1	613-A-1 614-A-3 613-A-2	Ava silt loam, 0 to 2 percent slopes
613-B-1	613-B-2	Ava silt loam, 2 to 6 percent slopes, eroded
613-B-3 613-B-4	614-B-3 614-B-4	Ava silt loam, 2 to 6 percent slopes, severely eroded
6892-A-1 6542-A-0 6542-A-1 6542d-A-1 7542-A-1	7482-A-1 6332-A-1 6482-A-1 6442-A-1	Ayrshire fine sandy loam, 0 to 2 percent slopes
7542-B-1 6542d-B-1 5542-B-1 6542-B-2 6542-B-1	5542-B-2 6482-B-1 6442-B-2 6542-B-3	Ayrshire fine sandy loam, 2 to 4 percent slopes
5542-A-1 5542d-A-1 5442-A-1 5442-B-2 332-A-1 332-B-1	5332-B-1 5332-A-1 5717-A-1 5332d-A-1 5717-A-0	Ayrshire loam, 0 to 2 percent slopes
7545-A-0 7545-A-1 7495-A-0 7545-B-0 7545-B-1 7545-BK-1	7545-B-2 7545-BK-2 7545-B-3 7495-B-1 7495-B-2 7495-BK-1	Bloomfield loamy fine sand, 2 to 6 percent slopes

Symbols		Approved Name
7545-C-1 7545-CK-1 7545-C-2 7545-CK-2	7545-C-3 8545-C-2 7495-C-2 8495-C-2	Bloomfield loamy fine sand, 6 to 12 percent slopes
7495-D-2 7545-D-1 7545-D-2 7545-D-3	7545-DK-2 7545-DK-3 8545-D-1 0545-D-1	Bloomfield loamy fine sand, 12 to 18 percent slopes
7545-E-1 7545-E-2 7545-E-3 8545-E-1 0545-E-1 7495-E-1 7495-E-2 0545-F-1 7545-F-1 7545-F-2	7545-F-3 7545-G-1 7545-G-2 7435-F-3 7435-G-3 7545-G-3 7545-G-4 7495-F-1 7495-F-2 7495-G-1	Bloomfield loamy fine sand, 18 to 40 percent slopes
140-A-0 140-A-1	140W-A-1	Carlisle Muck
614-B-0 614-B-1 614-B-2	664-B-1 664-B-2	Cincinnati silt loam, 2 to 6 percent slopes, eroded
614-C-0 614-C-1 613-C-1	664-C-2 614-C-2 613-C-2	Cincinnati silt loam, 6 to 12 percent slopes, eroded
614-D-0 614-D-1 613-D-1	614-D-2 613-D-2 664-D-2	Cincinnati silt loam, 12 to 18 percent slopes, eroded
614-C-3 613-C-3	664-C-3	Cincinnati silt loam, 6 to 12 percent slopes, severely eroded
614-D-3 613-D-3	664-D-3	Cincinnati silt loam, 12 to 18 percent slopes, severely eroded
552Vd-A-1	622-A-1	Cory silt loam

Symbols		Approved Name
94-A-0	93-A-0	Cuba silt loam
94-A-+	93-A-1	
94-A-1	93-B-1	
94-B-1	93W-A-0	
3094-A-1	93C-A-0	
6094-A-0	6093-A-0	
74-A-0	73-A-0	
5074-B-2	73C-A-0	
6074-A-0	73-A-+	
6074-A-1	73-A-1	
93-A-0	73-B-1	
93-A-+	5073-A-0	
	5073-A-+	
5013-A-0	13-A-0	Eel silt loam
5083-A-0	13-A-+	
5083-A-1	13W-A-0	
6013-A-0		
6475-A-1	8475-A-1	Elston fine sandy loam, 0 to 2 percent slopes
6435-A-1		
8475-B-1	6435-BK-2	Elston fine sandy loam, 2 to 6 percent slopes
6475-B-1	6475-C-2	
8475-B-2	6475-C-3	
6475-B-2	6475-D-3	
6435-B-2	6475-E-1	
5475-A-0	5435-A-1	Elston loam, 0 to 2 percent slopes
5475-A-1	275-A-0	
475-A-1		
5475-B-1	5475-B-2	Elston loam, 2 to 6 percent slopes
475-B-1		
6335-A-1	7335-A-1	Fox sandy loam, 0 to 2 percent slopes
8335-A-1		
5335-A-1	335-A-1	Fox loam, 0 to 2 percent slopes

Symbols		Approved Name
335-B-1	7335-B-2	Fox sandy loam, 2 to 6 percent slopes
335gr-B-1	7335-B-1	
5335-B-1	335-C-1	
335-B-2	335-C-2	
335-B-3	6335-C-2	
6335-B-1	7335-C-2	
6335-B-2	335-C-3	
8335-B-1	7335-C-3	
8335-B-2	335-D-1	
5014-A-1	6083-A-0	Genesee fine sandy loam, sandy variant
5014C-A-1	6024-A-0	
5014-A-2	5014-1 1	
6014-A-0	5014-1 2	
0014-A-0	5014-3 2	
7014-A-0	5014-2 2	
8014-A-0	5014-7 1	
6084-A-0	5014-6 2	
5014-A-0	14-A-+	Genesee silt loam
5014-A-1	14-A-1	
5014-B-1	14-B-0	
5084-A-0	14C-A-+	
14H-gr-A-0	14-B-1	
14H-gr-A-2	84-A-0	
14-A-0	84C-A-0	
14-A-0		
614-C-4	614-F-4	Gullied land
613-C-4	664-E-4	
614-C-5	614-G-4	
664-C-4	614L-E-4	
614-D-4	615-E-4	
614-D-5	615-F-4	
614-E-4	555-E-4	
614-E-5		
892-A-0	893-A-2	Henshaw silt loam, 0 to 2 percent slopes
892-A-1	894-A-1	
892-A-2	894-A-2	
892d-A-1	712-A-0	
5892-A-1	712-A-1	
893-A-0	5712-A-1	
893-A-1	713-A-1	
5893-A-1		

Symbols		Approved Name
892-B-1	5712-B-1	Henshaw silt loam, 2 to 4 percent slopes, eroded
892-B-2	712-B-2	
5892-B-2	5893-B-2	
712-B-1	713-B-1	
712-B-2	713-B-2	
614-E-0	664-E-1	Hickory silt loam, 18 to 25 percent slopes
614-E-1	613-E-1	
614-E-2	664-E-2	
614-F-0	615-E-2	Hickory silt loam, 25 to 35 percent slopes
614-F-1	615-F-1	
614L-F-1	615-F-2	
614-F-2	555-F-1	
614-G-1	614-G-2	Hickory silt loam, 35 to 50 percent slopes
614-E-3	615-F-3	Hickory silt loam, 18 to 35 percent slopes, severely eroded
614-F-3	615-G-2	
614L-F-3	615-G-3	
614-G-3	555-E-3	
664-E-3	555-F-3	
615-E-3		
853-A-0	543-A-1	Iona silt loam, 0 to 2 percent slopes
853-A-1	543-A-2	
853-A-2		
853-B-1	853-B-2	Iona silt loam, 2 to 6 percent slopes, eroded
853-B-+	543-B-2	
543-B-1		
853-B-3	543-B-3	Iona silt loam, 2 to 6 percent slopes, severely eroded
853-B-4	543-B-4	
552-A-1	552V-A-2	Iva silt loam, 0 to 2 percent slopes
552-A-2	552VW-A-0	
552V-A-1		
552-B-2	552V-B-3	Iva silt loam, 2 to 4 percent slopes, eroded
552-B-3	552V-B-0	
552V-B-1	552V-B-△	
552V-B-2		

Symbols		Approved Name
1259-A-1	258-A-0	Kings silty clay
2259-A-1	258-A-1	
3259-A-1	3258-A-1	
3259M-A-1		
6088-A-0	2088-A-0	Lyles loam
6088-A-1	3088-A-0	
6088W-A-0	5088-A-0	
6488-A-1	5088-A-1	
8088-A-0	5088W-A-0	
6858-A-1	5548-A-0	
6548-A-0	5548-A-1	
6548-A-1	5858-A-1	
6898-A-0	5898-A-1	
88-A-0	5088M-A-0	
88W-A-0		
254-A-1	894-B-3	Markland silt loam, 2 to 6 percent slopes, eroded
254-B-1	714-B-2	
254-B-2	254-C-1	
254-B-3	254-C-2	
893-B-1	894-C-1	
893-B-2	894-C-2	
894-B-1	894-B-2	
894-D-1	254-D-2	Markland silt loam, 12 to 18 percent slopes, eroded
894-D-2		
254-E-1	254-F-2	Markland silt loam, 18 to 25 percent slopes, eroded 1/
254-E-2	254-F-3	
894-E-1	254-G-3	
894-E-2	894-G-3	
254-F-1		
254-C-3	254-D-4	Markland silty clay loam, 6 to 18 percent slopes, severely eroded
714-C-3	254-E-3	
894-C-3	894-D-3	
254-D-3		
252-A-0	6252-A-0	McGary silt loam
252-A-1	6252-A-1	
252-A-2	6252-A-2	
252-B-2	252-B-1	
253-B-2		
8		Mine dumps

Symbols		Approved Name
553-A-0 553-A-1	553-A-2 553-B-2	Muren silt loam, 2 to 6 percent slopes, eroded
615-C-3 615-C-4 555-C-3	555-C-4 6555-C-3	Parke silt loam, 6 to 12 percent slopes, severely eroded
615-D-3 615-D-4	555-D-3 555-D-4	Parke silt loam, 12 to 18 percent slopes, severely eroded
897-A-0 897-A-1 898-A-0 898-A-+ 898-A-1	3898-A-0 3898-A-+ 3898-A-1 3488-A-0 3489-A-0	Patton silty clay loam
3012-A-0 3012-A-1	3012d-A-0 3013-A-0	Petrolia silty clay loam
6544-A-1 6544-A-2 7544-A-1 5544-A-1 484-A-1	5484-A-1 6543-A-1 6484-A-1 6543-A-2	Princeton fine sandy loam, 0 to 2 percent slopes
6484-B-1 6544-B-1 6555-B-1 6544-BK-1 7544-B-1 6543-B-1 6543-B-2 7543-B-1 6893-B-2 6484-B-2 7544-B-2 7544-BK-2 6714-B-2 6544-BK-2 6544-B-2 6894-B-2	5544-B-1 5894-B-1 5544-BK-1 5543-A-0 5543-A-1 5543-B-1 5543-B-2 5544-B-2 5544-BK-2 5894-B-2 5544-B-3 6544-B-3 6544-BK-3 5894-B-3 7544-B-3 5543-B-3 6543-B-3	Princeton fine sandy loam, 2 to 6 percent slopes, eroded

Symbols		Approved Name
6544-C-1 5544-C-2 6544-C-2 5542-C-2 6544-CK-2 6554-C-2	6484-C-2 7544-C-2 6544-C-3 7544-C-3 6894-C-3	Princeton fine sandy loam, 6 to 12 percent slopes, eroded
6544-D-1 6894-D-1 6544-D-2	5544-D-2 6544-D-3 5544-D-3	Princeton fine sandy loam, 12 to 18 percent slopes, eroded
6544-E-1 6894-E-1 7544-E-1 5544-E-2 6544-E-2	7544-E-2 5544-E-3 6544-E-3 7544-E-3	Princeton fine sandy loam, 18 to 25 percent slopes, eroded
5544-F-1 5544-F-3 6544-F-1 6544-F-2	6544-F-3 6544-G-1 6544-G-3	Princeton fine sandy loam, 25 to 50 percent slopes
548-A-0 548-A-+ 548-A-1 548M-A-1 858-A-0 542d-A-1 858-A-+	852d-A-1 858-A-1 858-B-1 858-B-2 3858-A-1 488-A-0	Ragsdale silt loam
852-A-0 852-A-1 852W-A-1	5852d-A-1 852V-A-1 542-A-1	Reesville silt loam, 0 to 2 percent slopes
852-B-1 852d-B-1 542-B-1 542d-B-1	852-B-2 852-B-3 542-B-2	Reesville silt loam, 2 to 4 percent slopes, eroded
5488-A-1 5448-A-1 7448-A-1	5338-A-0 5338-A-1 6338-A-0	Rensselaer loam
5-A-0 5-A-1	5-A-/+	Riverwash

Symbols		Approved Name
5024-A-0	24-A-0	Ross silt loam
23-A-0	24-B-1	
664-F-1	676-F-1	Sandstone and shale rockland, 25 to 50 percent slopes
664-F-2	676-G-3	
664-F-3	9676-F-1	
664-G-1	9676-F-2	
664-G-2	9676-F-3	
674-G-1	9676-G-1	
666-G-3	9676-G-2	
9676-E-2	9676-G-3	
664-F-4		
5222-A-1		Shadeland loam
5482-A-1	92W-A-1	Stendal silt loam
92-A-0	6092-A-0	
92-A-1	98-A-0	
92W-A-0	98-A-1	
92-A-△+	98W-A-0	
92-A-0	5072-A-0	
92H-A-0	72-A-0	
92H-A-1	72-A-1	
92C-A-0	72-A-+	
92C-A-+	72C-A-0	
92C-A-1	72W-A-0	
1	614-D-△+	Strip mines
7		
612W-A-+	612V-A-1	Vigo silt loam, 0 to 2 percent slopes
612-A-1	611-A-0	
612W-A-1	611-A-1	
612-A-2	611W-A-1	
612-B-1	612-B-3	Vigo silt loam, 2 to 4 percent slopes, eroded
612-B-2		
12-A-0	81-A-0	Wakeland silt loam
12-A-+	82-A-0	
12-A-1	5082-A-0	
5012-A-0	82C-A-+	6082-A-+
5012-A-+	82W-A-+	107-A-0
5012W-A-0	82C-A-0	107-A-+
6012-A-0	82W-A-0	107-A-1
7012-A-0	82-A-1	107-B-+
22-A-0	6082-A-1	107-B-0
5022-A-0	82-A-1	6107-A-1

Symbols		Approved Name
6345-A-0 6345-A-1 8345-A-+	8345-A-1 7345-A-1	Warsaw sandy loam, 0 to 2 percent slopes
345-B-1 5345-B-1 345-B-2 5345-B-2 345-B-3	7345-B-1 8345-B-1 6345-B-2 8345-B-2 6345-B-1	Warsaw sandy loam, 2 to 6 percent slopes
9345-A-1 5345-A-0	5345-A-1 345-A-1	Warsaw loam, 0 to 2 percent slopes
6345-C-1 6345-C-2 7345-C-2 8345-C-1	8345-C-2 6345-D-1 6345-D-2 6345-C-3 7345-D-2 7345-C-3	Warsaw sandy loam, 6 to 12 percent slopes, eroded
3338-A-0 3338-A-1 3339-A-0	338-A-0 338-A-1 448-A-1 3448-A-1	Westland silty clay loam
3218-A-0		Westland silty clay loam, shallow variant — Wilbur - see page 1
1017-A-0 2017-A-0 3017-A-0	2717-A-1 3017W-A-0	Zipp silty clay
7335-D-3 6335-E-1 335-F-1	335gr-D-1 6475-35-1 335-G-1	Use standard escarpment symbol
Gravel pits		Show on published map as shown on legend sheet
Borrow pits		Show on published map as shown on legend sheet

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.

In areas when two contrasting letter slope groups occur or in areas where a slope figure and a contrasting slope group letter occur, use the steepest one of the two shown.

1/ Areas of Markland silt loam, 18 to 25 percent slopes, eroded less than $\frac{1}{4}$" wide show as an escarpment symbol.

JUL 25 1966

Approved: _____
Date

Andrew R. Aandahl, Principal Soil Correlator, Midwest Region

FILE C

Series in the Sullivan County correlation were correlated as follows:

1. Ade - Psammentic Argiudolls, coarse-loamy, siliceous, mesic
2. Adler - Aquic Fluventic Eutrochrepts, coarse-silty, mixed, ~~mesic~~ thermic
3. Alford - Ultic Hapludalfs, fine-silty, mixed, mesic
4. Atkins - Fluventic Haplaquepts, fine-silty, mixed, acid, mesic
5. Ava - Typic Fragiudalfs, fine-silty, mixed, mesic
6. Ayshire - Aeric Ochraqualfs, fine-loamy, mixed, mesic
7. Bloomfield - Psammentic Hapludalfs, coarse-loamy, siliceous, mesic
8. Cincinnati - Typic Fragiudalfs, fine-silty, mixed, mesic
9. Cory - Mollic Ochraqualfs, fine-silty, mixed, mesic
10. Cuba - Fluventic Dystrochrepts, fine-silty, mixed, mesic
11. Eel - Aquic Fluventic Eutrochrepts, fine-loamy, mixed, mesic
12. Elston - Typic Argiudolls, fine-loamy, mixed, mesic
13. Fox - Typic Hapludalfs, fine-loamy over sandy or sandy-skeletal, mixed over siliceous, mesic
14. Genesee - Fluventic Eutrochrepts, fine-loamy, mixed, mesic
15. Henshaw - Aquic Hapludalfs, fine-silty, mixed, mesic
16. Hickory - Ultic Hapludalfs, fine-loamy, mixed, mesic
17. Iona - Typic Hapludalfs, fine-silty, mixed, mesic
18. Iva - Aeric Ochraqualfs, fine-silty, mixed, mesic
19. Kings - Vertic Hapluquolls, fine, montmorillonitic, noncalcareous, mesic
20. Lyles - Typic Hapluquolls, fine-loamy, mixed noncalcareous, mesic
21. Markland - Typic Hapludalfs, fine, mixed, mesic
22. McGary - Aeric Ochraqualfs, fine, illitic, mesic

23. Muren - Aquic Hapludalfs, fine-silty, mixed, mesic

24. Parke - Typic Hapludults, fine-silty, mixed, mesic

25. Patton - Typic Haplaquolls, fine-silty, mixed, noncalcareous, mesic

26. Petrolia - Fluventic Haplaquepts, fine-silty, mixed, mesic

27. Princeton - Typic Hapludalfs, fine-loamy, siliceous, mesic

28. Ragsdale - Typic Argiaquolls, fine-silty, mixed, noncalcareous, mesic

29. Reesville - Aquic Hapludalfs, fine-silty, mixed, mesic

30. Rensselaer - Typic Argiaquolls, fine-loamy, mixed, noncalcareous, mesic

31. Ross - Cumulic Hapludolls, fine-loamy, mixed, mesic (?)

32. Shadeland - Aeric Ochraqualfs, fine-loamy, mixed, mesic

33. Sharon - Aquic Fluventic Dystrochrepts, fine-silty (16 to 20 percent clay), mixed, mesic

34. Stendal - Aeric Fluventic Haplaquepts, fine-silty, mixed, acid, mesic

35. Vigo - Typic Glossaqualfs, fine-silty, mixed, mesic

36. Wakeland - Aeric Fluventic Haplaquepts, coarse-silty, mixed, non acid, mesic

37. Warsaw - Typic Argiudolls, fine-loamy over sandy or sandy-skeletal, mixed over siliceous, mesic

38. Westland - Typic Argiaquolls, fine-loamy, noncalcareous, mixed, mesic

39. Zipp - Vertic Haplaquept, fine, montmorillonitic, noncalcareous, mesic