

**UNITED STATES DEPARTMENT OF AGRICULTURE  
NATURAL RESOURCES CONSERVATION SERVICE  
MLRA REGION 11  
Indianapolis, Indiana 46278**

**FIRST AMENDMENT  
TO THE  
MARCH 1978 CLASSIFICATION AND CORRELATION  
OF THE SOILS OF  
POSEY COUNTY, INDIANA**

**JUNE 2006**

This amendment results from digitizing the Posey County Soil Survey, the update of the NASIS database, and conforming to the Keys to Soil Taxonomy, 9<sup>th</sup> Edition, 2003.

**AMENDMENT NO. 1**

**Pages 1 to 6 – Changes:**

Change the following map unit names-

<u>Map Symbol</u>	<u>Approved name (1978)</u>	<u>Approved Name - Amended (2006)</u>
Ar	Armiesburg silt loam	Armiesburg silt loam, frequently flooded
As	Armiesburg Variant silt loam	Armiesburg silt loam, rarely flooded
Bd	Birds silt loam	Birds silt loam, frequently flooded
EkA	Elkinsville silt loam, 0 to 2 percent slopes	Elkinsville silt loam, 0 to 2 percent slopes, rarely flooded
EkB2	Elkinsville silt loam, 2 to 6 percent slopes, eroded	Elkinsville silt loam, 2 to 6 percent slopes, eroded, rarely flooded
Ev	Evansville silt loam	Evansville silt loam, rarely flooded
Ge	Genesee loam	Genesee loam, frequently flooded
Gn	Ginat silt loam	Ginat silt loam, rarely flooded
Ha	Haymond silt loam	Haymond silt loam, wet substratum, frequently flooded
HeA	Henshaw silt loam, 0 to 2 percent slopes	Henshaw silt loam, 0 to 2 percent slopes, rarely flooded
Ld	Landes sandy loam	Landes sandy loam, occasionally flooded
Nk	Newark silty clay loam	Newark silty clay loam, frequently flooded
Pa	Patton silty clay loam	Patton silty clay loam, rarely flooded
PeA	Pekin silt loam, 0 to 2 percent slopes	Pekin silt loam, 0 to 2 percent slopes, rarely flooded
PeB2	Pekin silt loam, 2 to 6 percent slopes, eroded	Pekin silt loam, 2 to 6 percent slopes, eroded, rarely flooded
Pg	Peoga silt loam	Peoga silt loam, rarely flooded
Ph	Petrolia silty clay loam	Petrolia silty clay loam, frequently flooded
PnB	Plainfield Variant loamy fine sand, 0 to 6 percent slopes	Plainfield loamy fine sand, warm, 0 to 6 percent slopes
Ps	Psamments	Psamments, frequently flooded
Rh	Rahm silt loam	Rahm silt loam, occasionally flooded

**Pages 1 to 6 – Changes – continued:**

<u>Map Symbol</u>	<u>Approved name (1978)</u>	<u>Approved Name - Amended (2006)</u>
Rn	Rensselaer clay loam	Rensselaer clay loam, clay loam substratum, rarely flooded
St	Stonelick fine sandy loam	Stonelick fine sandy loam, frequently flooded
UnA	Uniontown silt loam, 0 to 2 percent slopes	Uniontown silt loam, 0 to 2 percent slopes, rarely flooded
UnB2	Uniontown silt loam, 2 to 6 percent slopes, eroded	Uniontown silt loam, 2 to 6 percent slopes, eroded, rarely flooded
UnB3	Uniontown silt loam, 2 to 6 percent slopes, severely eroded	Uniontown silt loam, 2 to 6 percent slopes, severely eroded, rarely flooded
UnC3	Uniontown silt loam, 6 to 12 percent slopes, severely eroded	Uniontown silt loam, 6 to 12 percent slopes, severely eroded, rarely flooded
Vn	Vincennes loam	Vincennes loam, rarely flooded
Wa	Wakeland silt loam	Wakeland silt loam, frequently flooded
WbA	Weinbach silt loam, 0 to 2 percent slopes	Weinbach silt loam, 0 to 2 percent slopes, rarely flooded
WhA	Wheeling silt loam, 0 to 2 percent slopes	Wheeling silt loam, 0 to 2 percent slopes, rarely flooded
WhB	Wheeling silt loam, 2 to 6 percent slopes	Wheeling silt loam, 2 to 6 percent slopes, rarely flooded
WhC2	Wheeling silt loam, 6 to 12 percent slopes, eroded	Wheeling silt loam, 6 to 12 percent slopes, eroded, rarely flooded
Wm	Wheeling Variant silt loam	Wheeling Variant silt loam, rarely flooded
Wz	Woodmere silt loam	Woodmere silt loam, occasionally flooded
Zp	Zipp silty clay loam	Zipp silty clay loam, occasionally flooded
Zu	Zipp Variant sandy loam	Zipp Variant sandy loam, occasionally flooded

**Pages 2 to 5 – Additions:**

The Map Unit Symbol and Name "Du – Dumps, mine" will be used for areas of waste and stockpiles adjacent to power plants.

The Map Unit Symbol and Name "Ppu - Pits, sand and gravel" will be used for areas of active sand and gravel pits.

The Map Unit Symbol and Name "Ud – Udorthents, cut and filled" will be used for disturbed areas adjacent to commercial or industrial sites.

The Map Unit Symbol and Name "W - Water" will be used for water areas more than 1.43 acres in size.

**Page 3 – Changes:**

Change the following map unit symbol and name-

	<u>Map Symbol</u>	<u>Approved Map Unit Name</u>
From:	No	Nolin silt loam
To:	Mc	McAdoo silt loam, frequently flooded

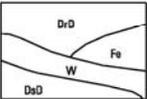
**Page 8** – Replace the Conventional and Special Symbols Legend, dated March 1978, with the attached Indiana Official 37A for Compilation, Digitizing, and DMF, Revised June 30, 2004.

# FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY

Soil Survey Area: POSEY COUNTY

State: Indiana

Date: MAY 2006

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
<b>SOIL SURVEY FEATURES</b>		<b>CULTURAL FEATURES (Optional)</b>		<b>HYDROGRAPHIC FEATURES (Optional)</b>	
SOIL DELINEATIONS AND LABELS		<b>BOUNDARIES</b>		Drainage end (Indicates direction of flow)	
STANDARD LANDFORM AND MISCELLANEOUS SURFACE FEATURES		National, state or province		Unclassified stream	
Bedrock escarpment		County or parish			
Nonbedrock escarpment		Minor civil division			
Gully		Reservation (Military)			
Levee		Land grant (Optional)			
Short steep slope		Field sheet matchline and neatline			
Blowout		Public Land Survey System Section Corner Tics			
Borrow pit		GEOGRAPHIC COORDINATE TICK			
Clay spot		<b>ROAD EMBLEMS</b>			
Closed depression		Interstate			
Gravel pit		Federal			
Gravelly spot		State			
Landfill		<b>LOCATED OBJECTS</b>			
Marsh or swamp		Airport (Label only)		Davis Airport or Airstrip	
Mine or quarry					
Rock outcrop					
Sandy spot					
Severely eroded spot					
Sinkhole					
Slide or slip					
Spoil area					
Stony spot					
Very stony spot					
Well spot					
<b>AD HOC FEATURES (Describe on back)</b>					
LABEL	SYMBOL ID	SYMBOL	LABEL	SYMBOL ID	SYMBOL
DCS	1		CRD	23	
DKD	2		MIA	24	
OYW	3		CGM	25	
YMS	4		HEL	26	
EAS	5			27	
WAS	6		SID	28	
SAS	7			29	
GAP	8		MUC	30	
CAL	9			31	
SLR	10			32	
DUM	11			33	
BRV	12			34	
BRW	13		MRL	35	
BRD	14			36	
OSR	15			37	
SSR	16		SAM	38	
LSR	17			39	
WDP	18		VSE	40	
SSR	19			41	
COB	20			42	
CNS	21			43	
FES	22		UNT	44	

Only the following standard landform and miscellaneous surface features will be shown on the legend and placed on the digitized soil maps:

<u>Feature</u>	<u>Name</u>	<u>Description</u>
ESO	Escarpment, nonbedrock	A relatively continuous and steep slope or cliff, which generally is produced by erosion but can be produced by faulting, that breaks the continuity of more gently sloping land surfaces. Exposed earthy material is nonsoil or very shallow soil.
GRA	Gravelly spot	A spot where the surface layer has more than 35 percent, by volume, rock fragments that are mostly less than 3 inches in diameter in an area with less than 15 percent fragments. Typically 0.2 to 2 acres.
GUL	Gully	A small channel with steep sides cut by running water through which water ordinarily runs only after a rain, or after ice or snow melts. It generally is an obstacle to wheeled vehicles and is too deep to be obliterated by ordinary tillage.
LVS	Levee	An embankment that confines or controls water, especially one built along the banks of a river to prevent overflow of lowlands. Levees built according to COE standards.
ROC	Rock outcrop	An exposure of bedrock at the surface of the earth. Not used where the named soils of the surrounding map unit are shallow over bedrock. Typically 0.2 to 2 acres.
SAN	Sandy spot	A spot where the surface layer is loamy fine sand or coarser in areas where the surface layer of the named soils in the surrounding map unit is very fine sandy loam or finer. Typically 0.2 to 2 acres.
ERO	Severely eroded spot	An area where on the average 75 percent or more of the original surface layer has been lost because of accelerated erosion. Not used in map units that are named severely eroded, very severely eroded, or gullied. Typically 0.2 to 2 acres.
SLP	Short, steep slope	Narrow soil area that has slopes that are at least two slope classes steeper than the slope class of the surrounding map unit.
WET	Wet spot	A somewhat poorly drained to very poorly drained area that is at least two drainage classes wetter than the named soils in the surrounding map unit. Typically 0.2 to 2 acres.

Only the following ad hoc features will be shown on the legend and placed on the digitized soil maps:

<u>Label</u>	<u>Symbol ID</u>	<u>Name</u>	<u>Description</u>
DKS	2	Dark surface (Labeled as “Areas with dark surface 1 per 10ac. or less” in published survey)	An area with a surface layer that has chroma and value, moist, of 3 or less in areas where the surface layer of the named soils have chroma and/or value of more than 3. Typically 0.2 to 10 acres.
CAF	8	Cut and fill (Labeled as “Disturbed areas 10 ac. or less” In published survey)	An area where soil material has been excavated in one place and deposited as compacted fill in an adjacent place, as in the construction of a road or other structure. Typically 0.2 to 5 acres.
UWT	44	Unclassified water	Small, natural or man-made lake, pond, or pit that contains water, of an unspecified nature, most of the year. Typically 0.2 to 2 acres

### **Page 12-15 – Notes to Accompany Classification and Correlation**

#### Alford Series

The Alford series has been re-classified to an Ultic Hapludalfs, and therefore are no longer taxadjuncts.

#### Armiesburg Variant

The Armiesburg Variant is changed to a taxadjunct with this amendment. It classifies as Coarse-silty, mixed, superactive, mesic Fluventic Hapludolls. As stated in the correlation document, these soils have morphology similar to the Armiesburg series except they are lower in clay content. The Armiesburg Series is in the fine-silty particle-size family.

#### Haymond Series

The Haymond series in Posey County are re-correlated as a wet substratum phase, and the soil moisture data is revised for a seasonal water table at 3.5 to 6 feet.

#### Junius Series

Junius soils are no longer considered to be taxadjuncts as they classify as the Official Soil Series (OSD); mixed, mesic Typic Psammaquents. The horizon data reflects the more loamy material in the substratum which is outside OSD range in characteristics (RIC).

#### Nolin series

The typical pedon in Posey County is the current type location for the McAdoo Series. Thus, the Nolin series is re-correlated to the McAdoo Series.

#### Onarga Series

The Onarga Series in Posey County are outside their MLRA area. They classify as Fine-loamy, mixed, active, mesic Typic Argiudolls. They have more clay in the upper part of the subsoil and are considered to have a lower CEC activity class than is typical of the Ongara Series, and therefore are taxadjuncts.

### Pekin Series

The Pekin soils in Posey County are outside their typical MLRA range, and correlated along the Ohio River in association with other river terrace soils. They have a higher base status, and classify as Fragiudalfs. Therefore, they are taxadjuncts. In a future update, these soils will be evaluated and are more likely to fit better in the concept of the Sciotoville series.

### Plainfield Variant

The Plainfield Variant is changed to a warm phase of the Plainfield Series with this amendment and will no longer be considered a variant. It classifies the same as the Plainfield series, Mixed, mesic Typic Udipsamments. MAAT for the Plainfield Series is 45 to 53 degrees F and in Posey County is 52 to 57 degrees F. MAP is also higher (40 to 46 inches) in Posey County than for the OSD (28 to 38 inches).

### Reesville Series

The Reesville soils in Posey County are outside the typical series concept in that they formed entirely in loess. Reesville series correlated in MLRA 115A will be evaluated in the future, and will be correlated to a new or different series. The Reesville soils in Posey County classify as Aerice Endoaqualfs and, therefore are taxadjuncts.

### Uniontown Series

The Uniontown series in Posey County classify the same as the OSD, and therefore are no longer taxadjuncts.

### Weinbach Series

The Weinbach series in Posey County are considered to dominantly classify, and fit within the concept of the Hatfield Series which classify as Aerice Fragic Epiaqualfs. Therefore, they are taxadjuncts.

### Wheeling Series

The Wheeling series in Posey County have soil properties that fit within the concept of the Millstone Series. Although base status is unknown, these soils are reclassified to Typic Hapludults which is the same as the Millstone Series, and therefore are taxadjuncts.

### Zipp Variant

The Zipp Variant soils share many properties with the Driftwood series, and are close to the concept of this series.

**Pages 16 to 18--** Replace the Classification of the Soils table with the following,

Posey County, Indiana

Taxonomic Classification of the Soils

(An asterisk in the first column indicates a taxadjunct to the series.)

Soil name	Family or higher taxonomic class
Alford-----	Fine-silty, mixed, superactive, mesic Ultic Hapludalfs
Armiesburg-----	Fine-silty, mixed, superactive, mesic Fluventic Hapludolls
*Armiesburg-----	Coarse-silty, mixed, superactive, mesic Fluventic Hapludolls
Birds-----	Fine-silty, mixed, superactive, nonacid, mesic Typic Fluvaquents
Bloomfield-----	Sandy, mixed, mesic Lamellic Hapludalfs
Elkinsville-----	Fine-silty, mixed, active, mesic Ultic Hapludalfs
Evansville-----	Fine-silty, mixed, superactive, nonacid, mesic Typic Endoaquepts
Genesee-----	Fine-loamy, mixed, superactive, mesic Fluventic Eutrudepts
Ginat-----	Fine-silty, mixed, active, mesic Typic Endoaqualfs

Soil name	Family or higher taxonomic class
Haymond-----	Coarse-silty, mixed, superactive, mesic Dystric Fluventic Eutrudepts
Henshaw-----	Fine-silty, mixed, active, mesic Aquic Hapludalfs
Hosmer-----	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs
Iona-----	Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs
Junius-----	Mixed, mesic Typic Psammaquents
Landes-----	Coarse-loamy, mixed, superactive, mesic Fluventic Hapludolls
Lyles-----	Coarse-loamy, mixed, superactive, mesic Typic Endoaquolls
McAdoo-----	Fine-silty, mixed, superactive, mesic Fluventic Eutrudepts
Newark-----	Fine-silty, mixed, active, nonacid, mesic Fluventic Endoaquepts
*Onarga-----	Fine-loamy, mixed, active, mesic Typic Argiudolls
Patton-----	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
*Pekin-----	Fine-silty, mixed, active, mesic Aquic Fragiudalfs
Peoga-----	Fine-silty, mixed, superactive, mesic Fragic Epiaqualfs
Petrolia-----	Fine-silty, mixed, superactive, nonacid, mesic Fluvaquentic Endoaquepts
Plainfield -----	Mixed, mesic Typic Udipsamments
Princeton-----	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Psamments-----	Mixed, calcareous, mesic Typic Udipsamments
Ragsdale-----	Fine-silty, mixed, superactive, mesic Typic Argiaquolls
Rahm-----	Fine-silty, mixed, active, nonacid, mesic Fluvaquentic Endoaquepts
*Reesville-----	Fine-silty, mixed, superactive, mesic Aeric Endoaqualfs
Rensselaer-----	Fine-loamy, mixed, superactive, mesic Typic Argiaquolls
Stonelick-----	Coarse-loamy, mixed, superactive, calcareous, mesic Typic Udifluvents
Sylvan-----	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Uniontown-----	Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs
Vincennes-----	Fine-loamy, mixed, active, nonacid, mesic Typic Endoaquepts
Wakeland-----	Coarse-silty, mixed, superactive, nonacid, mesic Aeric Fluvaquents
*Weinbach-----	Fine-silty, mixed, active, mesic Aeric Fragic Epiaqualfs
Wellston-----	Fine-silty, mixed, active, mesic Ultic Hapludalfs
*Wheeling-----	Fine-loamy, mixed, active, mesic Typic Hapludults
Wheeling Variant----	Fine-loamy, mixed, active, mesic Aquultic Hapludalfs
Woodmere-----	Fine, mixed, active, mesic Oxyaquic Eutrudepts
Zipp-----	Fine, mixed, active, nonacid, mesic Typic Endoaquepts
Zipp Variant-----	Fine, mixed, active, acid, mesic Typic Endoaquepts

### Approval Signatures and Date

\_\_\_\_\_  
 TRAVIS NEELY  
 State Soil Scientist/MLRA Leader  
 Indianapolis, Indiana

\_\_\_\_\_  
 Date

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\_\_\_\_\_  
 Date