

UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

MLRA REGION 11
Indianapolis, Indiana 46278

THIRD AMENDMENT
TO THE
JULY 1966 CLASSIFICATION AND CORRELATION
OF THE SOILS OF
SULLIVAN COUNTY, INDIANA

JUNE 2005

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

AMENDMENT NO. 3

Pages 4 to 12 – Additions:

Add the following map units-

<u>Publication Map Symbol</u>	<u>Approved Name</u>
Bp	Borrow pits
Du	Dumps
FcE	Fairpoint parachannery clay loam, 18 to 35 percent slopes
Pg	Pits, gravel
Ud	Udorthents, loamy
W	Water

Page 4 – Changes:

Change the following map unit name-

<u>Map Symbol</u>	<u>Approved name (1966)</u>	<u>Amended Name (2005)</u>
Ca	Carlisle muck	Houghton muck, drained, 0 to 1 percent slopes

Replace the CONVENTIONAL SIGNS LEGEND from the 1971 Published Soil Survey, with the attached Indiana Official 37A for Compilation, Digitizing, and DMF, Revised June 30, 2004.

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

<u>Feature</u>	<u>Name</u>	<u>Description</u>
DEP	Depression, closed	A shallow, saucer-shaped area that is slightly lower on the landscape than the surrounding area and is without a natural outlet for surface drainage. Typically 0.2 to 2 acres.
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.

<u>Feature</u>	<u>Name</u>	<u>Description</u>
GPI	Gravel pit	An open excavation from which soil and underlying material have been removed and used, without crushing, as a source of sand or gravel. 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.
MAR	Marsh or swamp	A water saturated, very poorly drained area, intermittently or permanently covered by water. Sedges, cattails, and rushes dominate marsh areas. Trees or shrubs dominate swamps. Typically 0.2 to 2 acres.
MPI	Mine or quarry	An open excavation from which soil and underlying material are removed and bedrock is exposed. Also denotes surface openings to underground mines. Typically 0.2 to 2 acres.
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 or where "Rock outcrop" is a named component of the map unit. 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.
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>
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.

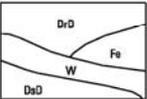
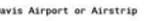
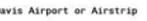
FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY

Soil Survey Area: SULLIVAN COUNTY

FEBRUARY 2005

State: Indiana

Date: _____

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
SOIL SURVEY FEATURES		CULTURAL FEATURES (Optional)		HYDROGRAPHIC FEATURES (Optional)	
SOIL DELINEATIONS AND LABELS		BOUNDARIES		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		ROAD EMBLEMS			
Closed depression		Interstate			
Gravel pit		Federal			
Gravelly spot		State			
Landfill		LOCATED OBJECTS			
Marsh or swamp		Airport (Label only)			
Mine or quarry		Davis Airport or Airstrip			
Rock outcrop					
Sandy spot					
Severely eroded spot					
Sinkhole					
Slide or slip					
Spoil area					
Stony spot					
Very stony spot					
Well spot					
AD HOC FEATURES (Describe on back)					
LABEL	SYMBOL ID	SYMBOL	LABEL	SYMBOL ID	SYMBOL
DCS	1		CRD	23	
DKS	2		MIA	24	
OYW	3		CGM	25	
YMS	4		HLL	26	
EAS	5			27	
WAS	6		STD	28	
SAS	7			29	
CAF	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		WET	44	

Replace the Classification of the Soils table with the following:

(An asterisk in the first column indicates a taxadjunct to the series. See text for a description of those characteristics that are outside the range of the series.)

Soil name	Family or higher taxonomic class
Ade-----	Coarse-loamy, mixed, superactive, mesic Lamellic Argiudolls
Alford-----	Fine-silty, mixed, superactive, mesic Ultic Hapludalfs
Atkins-----	Fine-loamy, mixed, active, acid, mesic Fluvaquentic Endoaquepts
Ava-----	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs
Ayrshire-----	Fine-loamy, mixed, active, mesic Aeric Endoaqualfs
Bloomfield-----	Sandy, mixed, mesic Lamellic Hapludalfs
Cincinnati-----	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs
Cory-----	Fine-silty, mixed, superactive, mesic Mollic Endoaqualfs
Cuba-----	Fine-silty, mixed, active, mesic Fluventic Dystrudepts
Eel-----	Fine-loamy, mixed, superactive, mesic Fluvaquentic Eutrudepts
*Elston-----	Fine-loamy, mixed, active, mesic Typic Argiudolls
Fairpoint-----	Loamy-skeletal, mixed, active, nonacid, mesic Typic Udorthents
*Fox-----	Fine-loamy, mixed, superactive, mesic Typic Hapludalfs
Genesee-----	Fine-loamy, mixed, superactive, mesic Fluventic Eutrudepts
Genesee Variant-----	Coarse-loamy, mixed, superactive, mesic Fluventic Eutrudepts
Henshaw-----	Fine-silty, mixed, active, mesic Aquic Hapludalfs
Hickory-----	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Houghton-----	Euic, mesic Typic Haplosaprists
Iona-----	Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs
Iva-----	Fine-silty, mixed, superactive, mesic Aeric Endoaqualfs
Kings-----	Fine, smectitic, mesic Vertic Endoaquolls
Lyles-----	Coarse-loamy, mixed, superactive, mesic Typic Endoaquolls
Markland-----	Fine, mixed, active, mesic Typic Hapludalfs
McGary-----	Fine, mixed, active, mesic Aeric Epiaqualfs
Muren-----	Fine-silty, mixed, superactive, mesic Aquic Hapludalfs
Parke-----	Fine-silty, mixed, active, mesic Ultic Hapludalfs
Patton-----	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Petrolia-----	Fine-silty, mixed, superactive, nonacid, mesic Fluvaquentic Endoaquepts
Princeton-----	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Ragsdale-----	Fine-silty, mixed, superactive, mesic Typic Argiaquolls
Reesville Variant-----	Fine-silty, mixed, superactive, mesic Aquic Hapludalfs
Rensselaer-----	Fine-loamy, mixed, superactive, mesic Typic Argiaquolls
Ross-----	Fine-loamy, mixed, superactive, mesic Cumulic Hapludolls
Shadeland-----	Fine-loamy, mixed, active, mesic Aeric Endoaqualfs
Stendal-----	Fine-silty, mixed, active, acid, mesic Fluventic Endoaquepts
Udorthents-----	Udorthents
Vigo-----	Fine-silty, mixed, superactive, mesic Aeric Glossaqualfs
Wakeland-----	Coarse-silty, mixed, superactive, nonacid, mesic Aeric Fluvaquents
Warsaw-----	Fine-loamy over sandy or sandy-skeletal, mixed, superactive, mesic Typic Argiudolls
Westland-----	Fine-loamy, mixed, superactive, mesic Typic Argiaquolls
Westland Variant-----	Fine-loamy, mixed, superactive, mesic Typic Argiaquolls
Wilbur-----	Coarse-silty, mixed, superactive, mesic Fluvaquentic Eutrudepts
Zipp-----	Fine, mixed, active, nonacid, mesic Typic Endoaquepts

SULLIVAN COUNTY, INDIANA AMENDMENT NO. 3

Approval Signatures

TRAVIS NEELY
State Soil Scientist/MLRA Leader

Date

JANE E. HARDISTY
State Conservationist

Date