

UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

MLRA REGION 11
Indianapolis, Indiana 46278

THIRD AMENDMENT
TO THE
DECEMBER 1967 CLASSIFICATION AND CORRELATION
OF THE SOILS OF
LAKE COUNTY, INDIANA

JANUARY 2005

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

AMENDMENT NO. 3

Pages 2 to 7 – Changes:

Change the following map unit names-

<u>Map Symbol</u>	<u>Approved name (1967)</u>	<u>Amended Name (2004)</u>
BsB	Brems, fine sand, 0 to 4 percent slopes	Brems fine sand, 0 to 4 percent slopes
Ca	Carlisle muck	Houghton muck, drained, 0 to 1 percent slopes
Lm	Linwood muck	Palms muck, drained, 0 to 1 percent slopes
Mt	Milford-Linwood-Wallkill complex	Milford-Palms-Wallkill complex
OkB	Oakville-Tawas complex	Oakville-Adrian complex
OsC	Oshtema fine sandy loam, 6 to 12 percent slopes	Oshtemo fine sandy loam, 6 to 12 percent slopes
Ta	Tawas muck	Adrian muck, drained, 0 to 1 percent slopes

Pages 3 to 9 – Additions:

-Map Unit Symbol and Name: PmG – Gravel pits and sand pits

Add the map unit symbol name "PmG - Gravel pits and sand pits" for areas shown in the published soil survey as gravel pit, sand pit or sand and gravel pit.

-Map Unit Symbol and Name: Usl – Udorthents, rubbish

Add the map unit symbol name " Usl – Udorthents, rubbish" for areas shown in the published soil survey as dump.

-Map Unit Symbol and Name: W - Water

Add the map unit symbol name "W - Water" for water areas less than 40 acres in size and water areas more than 40 acres in size.

Replace the Conventional Symbols Legend used in the published survey issued in July 1972, 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>
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.
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.
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>
SAM	38	Small dam	Small, earthen dam. Typically 0.2 to 2 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.

Pages 11-12 – Replace the Classification of the Soils table with the following:

Lake County, Indiana soil classification table amended per Soil Taxonomy 9th edition.

(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
Adrian-----	Sandy or sandy-skeletal, mixed, euic, mesic Terric Haplosaprists
Alida-----	Fine-loamy, mixed, active, mesic Aquollic Hapludalfs
Blount-----	Fine, illitic, mesic Aeric Epiaqualfs
Bono-----	Fine, illitic, mesic Typic Endoaquolls
Brady-----	Coarse-loamy, mixed, active, mesic Aquollic Hapludalfs
Brems-----	Mixed, mesic Aquic Udipsamments
Darroch-----	Fine-loamy, mixed, superactive, mesic Aquic Argiudolls
Del Rey-----	Fine, illitic, mesic Aeric Epiaqualfs
Del Rey Variant-----	Fine, illitic, mesic Udollic Endoaqualfs
Door-----	Fine-loamy, mixed, active, mesic Ultic Hapludalfs
Elliott-----	Fine, illitic, mesic Aquic Argiudolls
Gilford-----	Coarse-loamy, mixed, superactive, mesic Typic Endoaquolls
Houghton-----	Euic, mesic Typic Haplosaprists
Lydick-----	Fine-loamy, mixed, active, mesic Mollic Hapludalfs
Markham-----	Fine, illitic, mesic Mollic Oxyaquic Hapludalfs
Maumee-----	Sandy, mixed, mesic Typic Endoaquolls
Milford-----	Fine, mixed, superactive, mesic Typic Endoaquolls
Morley-----	Fine, illitic, mesic Oxyaquic Hapludalfs
Oakville-----	Mixed, mesic Typic Udipsamments
Oshtemo-----	Coarse-loamy, mixed, active, mesic Typic Hapludalfs
Palms-----	Loamy, mixed, euic, mesic Terric Haplosaprists
Pewamo-----	Fine, mixed, active, mesic Typic Argiaquolls
Pewamo Variant-----	Fine, mixed, superactive, calcareous, mesic Typic Endoaquolls
Plainfield-----	Mixed, mesic Typic Udipsamments
Rensselaer-----	Fine-loamy, mixed, superactive, mesic Typic Argiaquolls
Rensselaer Variant-----	Fine-loamy, mixed, superactive, mesic Typic Endoaquolls
Sparta-----	Sandy, mixed, mesic Entic Hapludolls
Tracy-----	Coarse-loamy, mixed, active, mesic Ultic Hapludalfs
Tyner-----	Mixed, mesic Typic Udipsamments
Wallkill-----	Fine-loamy, mixed, superactive, nonacid, mesic Fluvaquentic Humaquepts
Wallkill, upland-----	Fine-loamy, mixed, superactive, nonacid, mesic Fluvaquentic Humaquepts
Warners, upland-----	Fine-silty, carbonatic, mesic Fluvaquentic Endoaquolls
Watseka-----	Sandy, mixed, mesic Aquic Hapludolls
Watseka Variant-----	Sandy over clayey, mixed, mesic Aquic Hapludolls
Wauseon-----	Coarse-loamy over clayey, mixed over illitic, superactive, mesic Typic Epiaquolls
Whitaker-----	Fine-loamy, mixed, active, mesic Aeric Endoaqualfs

Approval Signatures

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 Date

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