

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

**THIRD AMENDMENT
TO THE
1977 CLASSIFICATION AND CORRELATION
OF THE SOILS OF
MIAMI COUNTY, INDIANA**

July 2005

This amendment results from recertifying the SSURGO data of the Miami County Soil Survey, the update of the NASIS database, and conforming to the Keys to Soil Taxonomy, 9th Edition, 2003.

AMENDMENT NO. 3

Page 3 – Addition:

Add the map unit symbol and name "Omz – Orthents, earthen dam" for earthen dams more than 1.43 acres in size.

Pages 6, 7 and 8 – Replace the 37A 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> |
|----------------|-------------------------|---|
| 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 with component phases that are named severely eroded, very severely eroded, or gullied. Typically 0.2 to 2 acres. |
| ESO | Escarpment, non-bedrock | A relatively continuous and steep slope or cliff that generally is produced by erosion but can be produced by faulting, which 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. |

| <u>Feature</u> | <u>Name</u> | <u>Description</u> |
|-----------------------|--------------------|--|
| MAR | Marsh or swamp | A water-saturated, very poorly drained area, intermittently or permanently covered by water. Marsh areas are dominantly vegetated by sedges, cattails, and rushes. Swamps are dominantly vegetated by trees or shrubs. 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. |
| STN | Stony spot | A spot where 0.01 to 0.1 percent of the surface cover is rock fragments that are greater than 10 inches in diameter in areas where the surrounding soil has no surface stones. Typically 0.2 to 2 acres. |
| STV | Very stony spot | A spot where 0.1 to 3 percent of the surface cover is rock fragments that are greater than 10 inches in diameter where the surrounding soil has less than 0.1 percent of the surface cover of stones. Typically 0.2 to 2 acres. |
| 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:

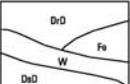
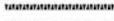
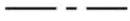
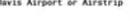
| <u>Label</u> | <u>Symbol ID</u> | <u>Name</u> | <u>Description</u> |
|---------------------|-------------------------|--------------------|--|
| UWT | 44 | Unclassified water | Small, natural or man-made lake, pond, or pit that contains water, of an unspecified nature, most of the year. Typically 0.2 to 2 acres. |

FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY

Soil Survey Area: Miami County

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 realine |  | | |
| 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 swamps |  | 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 |  | NTA | 24 |  |
| DVM | 3 |  | CGM | 25 |  |
| VWS | 4 |  | HIL | 26 |  |
| EAS | 5 |  | STD | 27 |  |
| WAS | 6 |  | SID | 28 |  |
| SAS | 7 |  | MIC | 29 |  |
| CAF | 8 |  | WIC | 30 |  |
| CAL | 9 |  | WIL | 31 |  |
| SLR | 10 |  | WIL | 32 |  |
| DUM | 11 |  | WIL | 33 |  |
| SBV | 12 |  | WIL | 34 |  |
| SHK | 13 |  | WIL | 35 |  |
| BRD | 14 |  | WIL | 36 |  |
| ORR | 15 | | WIL | 37 | |
| SSR | 16 | | SAM | 38 | |
| LBR | 17 | | WSE | 39 | |
| WOP | 18 | | VSE | 40 | |
| SBR | 19 | | VSE | 41 | |
| COB | 20 | | VSE | 42 | |
| CNS | 21 | | VSE | 43 | |
| FES | 22 | | WWT | 44 | |

Pages 11 and 12 – Replace the Classification of the Soils table with the following:
 (An asterisk in the first column indicates a taxadjunct to the series.)

| Soil name | Family or higher taxonomic class |
|----------------------|---|
| Aubbeenaubbee----- | Fine-loamy, mixed, mesic Aeric Epiaqualfs |
| Blount----- | Fine, illitic, mesic Aeric Epiaqualfs |
| Brookston----- | Fine-loamy, mixed, superactive, mesic Typic Argiaquolls |
| Chelsea----- | Mixed, mesic Lamellic Udipsamments |
| Crosier----- | Fine-loamy, mixed, active, mesic Aeric Epiaqualfs |
| Fincastle----- | Fine-silty, mixed, superactive, mesic Aeric Epiaqualfs |
| Fox----- | Fine-loamy over sandy or sandy-skeletal, mixed, superactive, mesic Typic Hapludalfs |
| Gessie----- | Fine-loamy, mixed, superactive, mesic Fluventic Eutrudepts |
| Gilford----- | Coarse-loamy, mixed, superactive, mesic Typic Endoaquolls |
| Hennepin----- | Fine-loamy, mixed, active, mesic Typic Eutrudepts |
| Houghton----- | Euic, mesic Typic Haplosaprists |
| Martinsville----- | Fine-loamy, mixed, active, mesic Typic Hapludalfs |
| Metea----- | Loamy, mixed, active, mesic Arenic Hapludalfs |
| Miami----- | Fine-loamy, mixed, active, mesic Oxyaquic Hapludalfs |
| Milford----- | Fine, mixed, superactive, mesic Typic Endoaquolls |
| Millsdale----- | Fine, mixed, active, mesic Typic Argiaquolls |
| Milton----- | Fine, mixed, active, mesic Typic Hapludalfs |
| Morley----- | Fine, illitic, mesic Oxyaquic Hapludalfs |
| Ockley----- | Fine-loamy, mixed, active, mesic Typic Hapludalfs |
| Ormas----- | Loamy, mixed, active, mesic Arenic Hapludalfs |
| Orthents----- | Orthents |
| Oshtemo----- | Coarse-loamy, mixed, active, mesic Typic Hapludalfs |
| Palms----- | Loamy, mixed, euic, mesic Terric Haplosaprists |
| Patton----- | Fine-silty, mixed, superactive, mesic Typic Endoaquolls |
| Pewamo----- | Fine, mixed, active, mesic Typic Argiaquolls |
| Rensselaer----- | Fine-loamy, mixed, superactive, mesic Typic Argiaquolls |
| *Ross----- | Fine-loamy, mixed, superactive, mesic Fluventic Hapludolls |
| Sebewa----- | Fine-loamy over sandy or sandy-skeletal, mixed, superactive, mesic Typic Argiaquolls |
| Shoals----- | Fine-loamy, mixed, superactive, nonacid, mesic Fluventic Endoaquepts |
| Sleeth----- | Fine-loamy, mixed, active, mesic Aeric Endoaqualfs |
| Sloan----- | Fine-loamy, mixed, superactive, mesic Fluvaquentic Endoaquolls |
| Stonelick----- | Coarse-loamy, mixed, superactive, calcareous, mesic Typic Udifluvents |
| Treaty----- | Fine-silty, mixed, superactive, mesic Typic Argiaquolls |
| Udorthents, loamy--- | Udorthents |
| Washtenaw----- | Fine-loamy, mixed, active, nonacid, mesic Aeric Fluvaquents |
| Wawasee----- | Fine-loamy, mixed, active, mesic Typic Hapludalfs |

**MIAMI COUNTY, INDIANA
AMENDMENT NO. 3**

Approval Signatures

TRAVIS NEELY
State Soil Scientist/MLRA Leader
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Date

JANE E. HARDISTY
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Date