

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

SECOND AMENDMENT  
TO THE  
1987 CLASSIFICATION AND CORRELATION  
OF THE SOILS OF  
CARROLL COUNTY, INDIANA

MARCH 2001

This amendment results from digitizing the Carroll County Soil Survey, the update of the NASIS database, and conforming to the Keys to Soil Taxonomy, 7<sup>th</sup> Edition, 1996 and 8<sup>th</sup> Edition, 1998. **Please add to amended pages to your copy of the Correlation Memorandum, approved September 1987.**

**AMENDMENT NO. 2**

**Page 11** - Recommended ad hoc symbols for addition and removal from the Carroll County soil survey, a result of the SSURGO certification process.

Remove Overwash spot symbol.  
Remove limestone bedrock symbol within 40 to 60 inches.  
Remove Cobbly spot symbol.  
Remove shale bedrock symbol within 20 to 40 inches.  
Remove organic spot symbol.  
Remove channery spot symbol.  
Add Perennial water (WAT)

**Page 8** - Add map unit Water with symbol (W)

**Page 21** - Add Definitions of Special Features for Carroll County Soil Survey. The Conventional and Special Symbols legend was not included in the 1987 Classification and Correlation of the Soils of Carroll County. These definitions should be added to the end (new page 21) of the correlation document.

**37A Conventional and Special Symbols Legend**

<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.
GRA	Gravelly spot	Surface layer has more than 35 percent, by volume, of rock fragments that are mostly less than 3 inches in diameter. Typically 0.2 to 2 acres.
LVS	Levee	An embankment to confine or control water, especially one built along the banks of a river to prevent overflow of lowlands.
MAR	Marsh or swamp	A water saturated, very poorly drained area, intermittently or permanently water-covered. Marsh areas are dominantly covered by sedges, cattails, and rushes. Swamps are dominantly covered by trees or shrubs. Not used in map units where poorly drained or very poorly drained soils are the named components. Typically 0.2 to 2 acres.
MPI	Mine or quarry	An open excavation from which soil and underlying material is removed exposing the bedrock. Also used to denote surface openings to underground mines. Typically 0.2 to 2 acres.
WAT	Perennial water	Small natural or manmade lake, pond, or pit that contains water most of the year. 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. Typically 0.2 to 2 acres.
SAN	Sandy spot	Surface layer with sand content greater than 75 percent in areas where the surface layer of the named soils of the surrounding map unit have less than about 25 percent sand. Typically 0.2 to 2 acres.
SLP	Short, steep slope	Narrow soil area that has slopes that are at least 2 slope classes steeper than the slope class of the surrounding map unit.

Special Features Symbols Deleted from Carroll County Soil Survey:

<u>Feature</u>	<u>Name</u>	<u>Description</u>
ESB	Escarpment, bedrock	A relatively continuous and steep slope or cliff produced by erosion or faulting breaking the general continuity of more gently sloping land surfaces. Exposed material is hard or soft bedrock.
GUL	Gully	A very small channel with steep sides cut by running water and through which water ordinarily runs only after a rain or an ice or snow melt. Generally is an obstacle to wheeled vehicles and is too deep to be obliterated by ordinary tillage.

Pages 19 and 20 - Replace the Classification of the Soils table with the table on pages 3 and 4.

The following series have been updated to the 7<sup>th</sup> edition of the Keys to Soil Taxonomy. These series require fieldwork and review before updating to the 8<sup>th</sup> edition of the Keys to Soil Taxonomy.

Ceresco-----Coarse-loamy, mixed, mesic Fluvaquentic Hapludolls  
 Ceresco Variant-----Coarse-loamy, mixed, mesic Fluvaquentic Hapludolls  
 Cohoctah Variant-----Coarse-loamy, mixed (calcareous), mesic Fluvaquentic Haplaquolls  
 Jules-----Coarse-silty, mixed (calcareous), mesic Typic Udifluvents  
 Kalamazoo-----Fine-loamy, mixed, mesic Typic HapludalFs  
 Milton Variant-----Loamy-skeletal, mixed, mesic Lithic HapludalFs  
 Mudlavia-----Clayey-skeletal, mixed, mesic Vertic HapludalFs  
 Mudlavia Variant-----Clayey-skeletal, mixed, mesic Typic HapludalFs  
 Piankeshaw Variant---Loamy-skeletal, mixed (calcareous), mesic Typic Udifluvents  
 Rockfield-----Fine-silty, mixed, mesic Oxyaquic HapludalFs  
 Wallkill-----Fine-loamy, mixed, nonacid, mesic Thapto-Histic Fluvaquents  
 Warners Variant-----Fine-silty, mixed, mesic Fluvaquentic Endoaquolls

Carroll County, Indiana

Table Q1.--Classification of the Soils

(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
Alvin-----	Coarse-loamy, mixed, superactive, mesic Typic Hapludalfs
Armiesburg-----	Fine-silty, mixed, superactive, mesic Fluventic Hapludolls
Beaucoup-----	Fine-silty, mixed, superactive, mesic Fluvaquentic Endoaquolls
Camden-----	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Casco-----	Fine-loamy over sandy or sandy-skeletal, mixed, superactive, mesic Inceptic Hapludalfs
Ceresco-----	Coarse-loamy, mixed, mesic Fluvaquentic Hapludolls
Ceresco Variant-----	Coarse-loamy, mixed, mesic Fluvaquentic Hapludolls
Cohoctah-----	Coarse-loamy, mixed, active, mesic Fluvaquentic Endoaquolls
Cohoctah Variant-----	Coarse-loamy, mixed (calcareous), mesic Fluvaquentic Haplaquolls
Coloma-----	Mixed, mesic Lamellic Udipsamments
Crosby-----	Fine, mixed, active, mesic Aeric Epiaqualfs
Crosier-----	Fine-loamy, mixed, active, mesic Aeric Epiaqualfs
*Cyclone-----	Fine-silty, mixed, superactive, mesic Typic Argiaquolls
Fincastle-----	Fine-silty, mixed, superactive, mesic Aeric Epiaqualfs
Fox-----	Fine-loamy over sandy or sandy-skeletal, mixed, superactive, mesic Typic Hapludalfs
Hennepin-----	Fine-loamy, mixed, active, mesic Typic Eutrudepts
Houghton-----	Euic, mesic Typic Haplosaprists
Jules-----	Coarse-silty, mixed (calcareous), mesic Typic Udifluvents
Kalamazoo-----	Fine-loamy, mixed, mesic Typic Hapludalfs
Kendall-----	Fine-silty, mixed, superactive, mesic Aeric Endoaqualfs
Kendallville-----	Fine-loamy, mixed, superactive, mesic Typic Hapludalfs
Landes-----	Coarse-loamy, mixed, superactive, mesic Fluventic Hapludolls
Landes Variant-----	Coarse-loamy, mixed, superactive, mesic Fluventic Hapludolls
Mahalasville-----	Fine-silty, mixed, superactive, mesic Typic Argiaquolls
Martinsville-----	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Miami-----	Fine-loamy, mixed, active, mesic Oxyaquic Hapludalfs
Milford-----	Fine, mixed, superactive, mesic Typic Endoaquolls
*Millsdale-----	Fine, mixed, active, mesic Typic Argiaquolls
Milton Variant-----	Loamy-skeletal, mixed, mesic Lithic Hapludalfs
Moundhaven-----	Sandy, mixed, mesic Typic Udifluvents
Mudlavia-----	Clayey-skeletal, mixed, mesic Vertic Hapludalfs
Mudlavia Variant-----	Clayey-skeletal, mixed, mesic Typic Hapludalfs
Ockley-----	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Ormas-----	Loamy, mixed, active, mesic Arenic Hapludalfs
Palms-----	Loamy, mixed, euic, mesic Terric Haplosaprists
Palms Variant-----	Loamy, mixed, euic, mesic Terric Haplosaprists
Patton-----	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Pella-----	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Piankeshaw Variant-----	Loamy-skeletal, mixed (calcareous), mesic Typic Udifluvents
Riddles-----	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Rockfield-----	Fine-silty, mixed, mesic Oxyaquic Hapludalfs
Ross-----	Fine-loamy, mixed, superactive, mesic Cumulic Hapludolls
Rush-----	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Sleeth-----	Fine-loamy, mixed, active, mesic Aeric Endoaqualfs
Sloan-----	Fine-loamy, mixed, superactive, mesic Fluvaquentic Endoaquolls
Starks-----	Fine-silty, mixed, superactive, mesic Aeric Endoaqualfs
Stonelick-----	Coarse-loamy, mixed, superactive, calcareous, mesic Typic Udifluvents
Treaty-----	Fine-silty, mixed, superactive, mesic Typic Argiaquolls
Wallkill-----	Fine-loamy, mixed, nonacid, mesic Thapto-Histic Fluvaquents
Warners Variant-----	Fine-silty, mixed, mesic Fluvaquentic Endoaquolls
*Washtenaw-----	Fine-loamy, mixed, active, nonacid, mesic Aeric Fluvaquents
Waynetown-----	Fine-silty, mixed, superactive, mesic Aeric Endoaqualfs
Westland-----	Fine-loamy, mixed, superactive, mesic Typic Argiaquolls
Whitaker-----	Fine-loamy, mixed, active, mesic Aeric Endoaqualfs
Williamstown-----	Fine-loamy, mixed, active, mesic Aquic Hapludalfs

Approval Signatures

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