

UNITED STATES DEPARTMENT OF AGRICULTURE  
NATURAL RESOURCES CONSERVATION SERVICE

*MLRA REGION 11*  
*Indianapolis, Indiana 46278*  
"DRAFT"  
FIRST AMENDMENT  
TO THE  
APRIL 1985 CLASSIFICATION AND CORRELATION  
OF THE SOILS OF  
BENTON COUNTY, INDIANA

MARCH 2005

This amendment results from digitizing the Benton 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**

**Page 6, Soil Correlation** – Add the following map unit:

Field <u>symbols</u>	Field map <u>unit name</u>	Publication <u>symbol</u>	Approved map <u>unit name</u>
W	Water	W	Water
Water	Water	W	Water

**Page 11, Conventional and Special Symbol Legend** - Replace the Conventional Symbols Legend dated 6 /84, with the attached Indiana Official 37A for Compilation, Digitizing, and DMF, Revised February 2003.

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

Feature	Name	Description
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	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.

<b>Feature</b>	<b>Name</b>	<b>Description</b>
MAR	Marsh or swamp	A water saturated, very poorly drained area, intermittently or permanently covered by water. Sages, cattails, and rushes dominate marsh areas. Trees or shrubs dominate swamps. 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 are at least two slope classes steeper than the slope class of the surrounding map unit.
WET	Wet spot	A somewhat poorly to very poorly drained area that is at least two drainage classes wetter than the named soil 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:

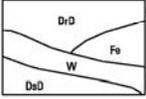
<b><u>Label</u></b>	<b><u>Symbol ID</u></b>	<b><u>Name</u></b>	<b><u>Description</u></b>
DUM	11	Dump	Areas of smoothed or uneven accumulations or piles of waste rock and general refuse or other non-soil material that supports little or no vegetation. Typically 0.2 to 2 acres.
WDP	18	Wet depression	A shallow, concave area within poorly or very poorly drained soils that ponds water for intermittent periods and is saturated for appreciably longer periods of time than the surrounding soil. Typically 0.2 to 2 acres.
SAM	38	Small dam	Small, earthen dam. Typically 0.2 to 2 acres
VSE	40	Very severely Eroded spot	An area where class 4 erosion exists. The original A, E, and upper B horizons have been lost to erosion. Most areas consist of an intricate pattern of U-shaped gullies. The original soil can only be identified in areas adjacent to these very severely eroded spots. Typically 0.2 to 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.

# FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY

Soil Survey Area: BENTON COUNTY

State: Indiana

Date: MARCH 2005

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	[Symbol: solid line with short dashes above]	County or parish	- - - - -		
Nonbedrock escarpment	[Symbol: dashed line with short dashes above]	Minor civil division	- - - - -		
Gully	[Symbol: wavy line]	Reservation (Military)	- - - - -		
Levee	[Symbol: dashed line with short dashes below]	Land grant (Optional)	- - - - -		
Short steep slope	[Symbol: dotted line]	Field sheet matchline and neatline	—————		
Blowout	[Symbol: inverted triangle]	Public Land Survey System Section Corner Tics	L ⊥ ⊕		
Borrow pit	[Symbol: square with X]				
Clay spot	[Symbol: square with dot]	<b>GEOGRAPHIC COORDINATE TICK</b>	+		
Closed depression	[Symbol: diamond with dot]				
Gravel pit	[Symbol: diamond with X]	<b>ROAD EMBLEMS</b>			
Gravelly spot	[Symbol: diamond with dots]	Interstate	[Symbol: shield with border]		
Landfill	[Symbol: circle with X]	Federal	[Symbol: shield with border]		
Marsh or swamp	[Symbol: circle with dots]	State	[Symbol: circle]		
Mine or quarry	[Symbol: circle with X]				
Rock outcrop	[Symbol: inverted triangle]	<b>LOCATED OBJECTS</b>			
Sandy spot	[Symbol: square with X]	Airport (Label only)	[Symbol: circle]		
Severely eroded spot	[Symbol: circle with X]	Davis Airport or Airstrip	[Symbol: circle with dot]		
Sinkhole	[Symbol: diamond with dot]				
Slide or slip	[Symbol: triangle with dot]				
Spoil area	[Symbol: square with X]				
Stony spot	[Symbol: circle with dot]				
Very stony spot	[Symbol: circle with dots]				
Wet spot	[Symbol: inverted triangle]				
<b>AD HOC FEATURES (Describe on back)</b>					
LABEL	SYMBOL ID	SYMBOL	LABEL	SYMBOL ID	SYMBOL
DCS	1	[Symbol]	CRO	23	[Symbol]
DKS	2	[Symbol]	WIA	24	[Symbol]
OVW	3	[Symbol]	CGM	25	[Symbol]
VWS	4	[Symbol]	HIL	26	[Symbol]
EAS	5	[Symbol]	STO	27	[Symbol]
MAS	6	[Symbol]	STO	28	[Symbol]
SAS	7	[Symbol]	STO	29	[Symbol]
CAF	8	[Symbol]	MOC	30	[Symbol]
CAL	9	[Symbol]	STO	31	[Symbol]
SLR	10	[Symbol]	STO	32	[Symbol]
<b>DUW</b>	<b>11</b>	[Symbol]	STO	33	[Symbol]
BRV	12	[Symbol]	STO	34	[Symbol]
BRW	13	[Symbol]	MRL	35	[Symbol]
BRD	14	[Symbol]	STO	36	[Symbol]
OBR	15	[Symbol]	STO	37	[Symbol]
SSR	16	[Symbol]	<b>BAM</b>	<b>38</b>	[Symbol]
LBR	17	[Symbol]	STO	39	[Symbol]
<b>MOP</b>	<b>18</b>	[Symbol]	<b>VGE</b>	<b>40</b>	[Symbol]
SBR	19	[Symbol]	STO	41	[Symbol]
COB	20	[Symbol]	STO	42	[Symbol]
CNS	21	[Symbol]	STO	43	[Symbol]
FES	22	[Symbol]	<b>DMT</b>	<b>44</b>	[Symbol]

**Page 12, Prime Farmland – Change the following map unit:**

<u>Map symbol</u>	<u>Map unit name</u>
From:	
EIA	Elliott silt loam, 0 to 2 percent slopes
To:	
EIA	Elliott silt loam, 0 to 2 percent slopes (where drained)

**Pages 12 & 13, Prime Farmland – Delete the following map units:**

<u>Map symbol</u>	<u>Map unit name</u>
Cm	Comfrey silty clay loam, sandy substratum, frequently flooded
Wa	Walkkill Variant silty clay loam

**Page 14, Conversion Legend – Add the following:**

<u>Field symbol</u>	<u>Publication symbol</u>
Water, W	W

**Pages 19-20 – Classification of the Soils -** Replace the Classification of the Soils table with the following:

Benton County, Indiana Soil Classification table amended per Soil Taxonomy 9<sup>th</sup> 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
Andres-----	Fine-loamy, mixed, superactive, mesic Aquic Argiudolls
Ashkum-----	Fine, mixed, superactive, mesic Typic Endoaquolls
Ayr Variant-----	Fine-loamy, mixed, superactive, mesic Typic Argiudolls
Barce-----	Fine-loamy, mixed, superactive, mesic Oxyaquic Argiudolls
Billett-----	Coarse-loamy, mixed, superactive, mesic Mollic Hapludalfs
Brems Variant-----	Sandy, mixed, mesic Dystric Eutrudepts
Bryce-----	Fine, mixed, superactive, mesic Vertic Endoaquolls
Chalmers-----	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Comfrey-----	Fine-loamy, mixed, superactive, mesic Cumulic Endoaquolls
Conover-----	Fine-loamy, mixed, active, mesic Udollic Endoaqualfs
Corwin-----	Fine-loamy, mixed, active, mesic Oxyaquic Argiudolls
Crane-----	Fine-loamy, mixed, active, mesic Aquic Argiudolls
Darroch-----	Fine-loamy, mixed, superactive, mesic Aquic Argiudolls
Drummer-----	Fine-silty, mixed, superactive, mesic Typic Endoaquolls
Elliott-----	Fine, illitic, mesic Aquic Argiudolls
Foresman-----	Fine-loamy, mixed, active, mesic Oxyaquic Argiudolls
Free-----	Fine-loamy, mixed, active, mesic Typic Endoaquolls
Gilboa-----	Fine-loamy, mixed, superactive, mesic Aquic Argiudolls
Houghton-----	Euic, mesic Typic Haplosaprists
Lisbon-----	Fine-silty, mixed, superactive, mesic Aquic Argiudolls
Markham-----	Fine, illitic, mesic Mollic Oxyaquic Hapludalfs
Miami-----	Fine-loamy, mixed, active, mesic Oxyaquic Hapludalfs
Montmorenci-----	Fine-loamy, mixed, active, mesic Aquollic Hapludalfs
Odell-----	Fine-loamy, mixed, superactive, mesic Aquic Argiudolls

Soil name	Family or higher taxonomic class
Peotone-----	Fine, smectitic, mesic Cumulic Vertic Endoaquolls
Rush-----	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
*Seafield-----	Fine-loamy, mixed, superactive, mesic Udollic Endoaqualfs
Selma-----	Fine-loamy, mixed, superactive, mesic Typic Endoaquolls
Swygert-----	Fine, mixed, active, mesic Aquic Argiudolls
Tippecanoe-----	Fine-loamy, mixed, active, mesic Oxyaquic Argiudolls
Varna-----	Fine, illitic, mesic Oxyaquic Argiudolls
Wallkill Variant-----	Fine, mixed, superactive, nonacid, mesic Fluvaquentic Humaquepts
Warners Variant-----	Fine-silty, carbonatic, mesic Fluvaquentic Endoaquolls
Wea-----	Fine-loamy, mixed, active, mesic Typic Argiudolls
Whitaker-----	Fine-loamy, mixed, active, mesic Aeric Endoaqualfs
Wolcott-----	Fine-loamy, mixed, superactive, mesic Typic Endoaquolls

**Approval Signatures**

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 TRAVIS NEELY  
 State Soil Scientist/MLRA Leader

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 Date

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 JANE E. HARDISTY  
 State Conservationist

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 Date