USDA

United States Department of Agriculture

Natural Resources Conservation Service

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February 19, 2002

SUBJECT: SOI – Soil Correlation, First Amendment to the Classification and Correlation Memorandum of Jackson County, Indiana

TO: Travis Neely
State Soil Scientist/MLRA Leader
Indianapolis, IN

File Code: 430-15-5-2

Enclosed are four copies of the First Amendment to the Classification and Correlation of the soils of Jackson County, Indiana.

This Amendment results from revisions to the Jackson County Soil Survey Legend to meet SSURGO certification.

Please add the amended pages to your copy of the Correlation Memorandum, approved March 1985.

JANE E. HARDISTY
State Conservationist

FILE

Enclosure
Cc: Tommie Parham, Head, National Cartography & GIS Center, NRCS, Ft. Worth, TX
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United States Department of Agriculture
Natural Resources Conservation Service
MLRA 11 Office, Indianapolis, Indiana
February 13, 2002

First Amendment of the Classification and Correlation of the Soils of Jackson County, Indiana

This first amendment was prepared by Gary R. Struben, Soil Data Quality Specialist, MLRA Region 11, Indianapolis, Indiana and Byron G. Nagel, MLRA Project Leader, North Vernon, Indiana.

Page 1, Add the following Headnote and paragraph:

Headnote for Detailed Soil Survey Legend

Map symbols consist of a combination of letters, or letters and numbers. The initial one to three letters represents the map unit. A capitol letter following the first two or three letters indicates a slope phase. Map symbols without a slope letter are for nearly level soils or miscellaneous areas. Symbols ending with a number indicate an erosion class (2-moderate, 3-severe). A second capital letter indicates inundation phases or other soil phases. They are H-frequently flooded brief duration, V-frequently flooded very brief duration, K-occasionally flooded brief duration, W-occasionally flooded very brief duration.

Pages 2-8, Add the following field symbols, field map unit name, publication symbol and approved map unit name:

Field symbol- AvA
Field map unit name- Avonburg silt loam, 0 to 2 percent slopes
Publication symbol- AddA
Approved map unit name- Avonburg silt loam, 0 to 2 percent slopes

Field symbol- AvB2
Field map unit name- Avonburg silt loam, 2 to 6 percent slopes, eroded
Publication symbol- AddB2
Approved map unit name- Avonburg silt loam, 2 to 4 percent slopes, eroded

Field symbol- Ba
Field map unit name- Bartle silt loam
Publication symbol- BbhA
Approved map unit name- Bartle silt loam, 0 to 2 percent slopes

Field symbol- DuA
Field map unit name- *Dubois silt loam, 0 to 2 percent slopes
Publication symbol- BbhA
Approved map unit name- Bartle silt loam, 0 to 2 percent slopes
***Selected map units that join Bartholomew County Soil Survey**

Field symbol- Bu
Field map unit name- Burnside silt loam, occasionally flooded
Publication symbol- BcrAW
Approved map unit name- Beanblossom silt loam, 1 to 3 percent slopes, occasionally flooded, very brief duration

Field symbol- Zv
Field map unit name- Zipp Variant clay loam, frequently flooded
Publication symbol- BdhAH
Approved map unit name- Bellcreek silty clay loam, 0 to 1 percent slopes, frequently flooded, brief duration

Field symbol- Pp
Field map unit name- *Piopolis silty clay loam, frequently flooded
Publication symbol- BodAV
Approved map unit name- Bonnie silt loam, 0 to 1 percent slopes, frequently flooded, very brief duration
***Selected map units that join Bartholomew County Soil Survey**

Field symbol- Cm
Field map unit name- Cobbsfork silt loam
Publication symbol- ClfA
Approved map unit name- Cobbsfork silt loam, 0 to 1 percent slopes

Field symbol- AnA
Field map unit name- Alvin sandy loam, 0 to 2 percent slopes
Publication symbol- MfxA
Approved map unit name- Martinsville sandy loam, sandy substratum, 0 to 2 percent slopes

Field symbol- RsA
Field map unit name- Rossmoyne silt loam, 0 to 2 percent slopes
Publication symbol- NaaA
Approved map unit name- Nabb silt loam, 0 to 2 percent slopes

Field symbol- RsB2
Field map unit name- Rossmoyne silt loam, 2 to 6 percent slopes, eroded
Publication symbol- NaaB2
Approved map unit name- Nabb silt loam, 2 to 6 percent slopes, eroded

Field symbol- Omz (areas with large dam symbol)
Field map unit name- Orthents, earthen dam
Publication symbol- Omz
Approved map unit name- Orthents, earthen dam

Field symbol- HdB2
Field map unit name- *Haubstadt silt loam, 2 to 6 percent slopes, eroded
Publication symbol- PeB2
Approved map unit name- Pekin silt loam, 2 to 6 percent slopes, eroded
***Selected map units that join Bartholomew County Soil Survey**

Field symbol- Pg
Field map unit name- Peoga silt loam
Publication symbol- PhaA
Approved map unit name- Peoga silt loam, 0 to 1 percent slopes

Field symbol- Ar
Field map unit name- *Armiesburg silty clay loam, sandy substratum, frequently flooded
Publication symbol- RtxAH
Approved map unit name- Rossburg silt loam, 0 to 2 percent slopes, frequently flooded, brief duration
***Selected map units that join Bartholomew County Soil Survey**

Field symbol- Sc
Field map unit name- Shoals loam, frequently flooded
Publication symbol- SldAH
Approved map unit name- Shoals silt loam, 0 to 2 percent slopes, frequently flooded, brief duration

Field symbol- Ba
Field map unit name- *Bartle silt loam
Publication symbol- Sn
Approved map unit name- Stendal silt loam, frequently flooded
***Selected map units that join Bartholomew County Soil Survey**

Field symbol- Sp
Field map unit name- Stendal silt loam, rarely flooded
Publication symbol- StdAQ
Approved map unit name- Stendal silt loam, 0 to 2 percent slopes, rarely flooded

Field symbol- Wh
Field map unit name- Whitaker sandy loam, rarely flooded
Publication symbol- WsyAQ
Approved map unit name- Whitaker sandy loam, 0 to 2 percent slopes, rarely flooded

Page 9 , add the following:

Series Established by this amendment: None

Series made Inactive by this amendment: None

Series correlated in the 1990 Soil Survey that are not correlated in this Amendment 1 of Jackson County Soil Survey, and therefore dropped: Burnside, Rossmoyne, Zipp Variant.

Series not correlated in the 1990 Soil Survey, but correlated in this Amendment 1 of Jackson County Soil Survey, and therefore added: Beanblossom, Bellcreek, Bonnie, Martinsville, Nabb, and Rossburg.

Page 11, make the following changes in the Conventional and Special Symbols Legend:

Conventional and Special Symbols Legend
Delete the following symbols:
Small airport, airfield, park, oilfield, or flood pool boundary.
Cemetery label and boundary.
State Coordinate Tick.
Divided roads and County, farm or ranch roads.
Railroad.
Large dams.
Medium or small dams.
Farmstead.
Church.
School.
High School Names.

Page 11, **Conventional and Special Symbols Legend-continued**
Change the following:
Levees, without road to Levees, single side slope.
Perennial, single line and intermittent streams to Unclassified, single line, streams.
Drainage and/or irrigation ditch to Unclassified drainage and/or irrigation ditch.
Intermittent water to Special Feature WDP, Wet Depression.
Large Dams to map unit Omz-Orthents, earthen dam.

Only those symbols defined below will be shown on the legend and placed on the digitized soil maps.
DEFINITIONS OF SPECIAL FEATURES

Feature	Name	Description
ESB	Escarpment, bedrock	A relatively continuous and steep slope or cliff, which was produced by erosion or faulting, that breaks the general continuity of more gently sloping land surfaces. Exposed material is hard or soft bedrock.
ESO	Escarpment, nonbedrock	A relatively continuous and steep slope or cliff generally 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.
GUL	Gully	A samll 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.
LDF	Landfill	An area of accumulated waste products of human habitation that can be above or below natural ground level. Typically 0.2 to 10 acres in size.
LVS	Levee	An embankment that confines or controls 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 covered with water. Sedges, cattails, and rushes dominate marsh areas. Tress 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.
WAT	Perennial water	Small, natural or constructed lake, pond, or pit that contains water most of the year. Typically 0.2 to 2 acres in size.
ERO	Severely eroded spot	An area where on the average 75 percent or more of the original surface layer has been lost from accelerated erosion. 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.
STV	Very 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 nor surface stnoes. Typically 0.2 to 2 acres in size.
MUC (Symbol ID 30)	Muck spot	An area within a poorly or very poorly drained soils that has a proportional amount of organic carbon, between 12 and 18 percent or more depending on clay content. Spot symbol is used in a map unit consisting of mineral soil. Typically 0.2 to 2 acres.
WDP (Symbol ID 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.
SLR (Symbol ID 10)	Limestone residuum soils	Soils predominantly formed in residuum from limestone. Typically 5 to 10 acres in size.

Page 12-14, Revise the Prime Farmland List as follows:

Delete:

AnA	Alvin sandy loam, 0 to 2 percent slopes
AvA	Avonburg silt loam, 0 to 2 percent slopes
AvB2	Avonburg silt loam, 2 to 6 percent slopes, eroded
Ba	Bartle silt loam
Bu	Burnside silt loam, occasionally flooded
Cm	Cobbsfork silt loam
Pg	Peoga silt loam
RsA	Rossmoyne silt loam, 0 to 2 percent slopes
RsB2	Rossmoyne silt loam, 2 to 6 percent slopes, eroded
Sc	Shoals loam, frequently flooded
Sp	Stendal silt loam, rarely flooded
Wh	Whitaker sandy loam, rarely flooded
Zv	Zipp Variant clay loam, frequently flooded

Add:

AddA	Avonburg silt loam, 0 to 2 percent slopes (where drained)
AddB2	Avonburg silt loam, 2 to 4 percent slopes, eroded (where drained)
BbhA	Bartle silt loam, 0 to 2 percent slopes (where drained)
BcrAW	Beanblossom silt loam, 1 to 3 percent slopes, occasionally flooded, very brief duration
BdhAH	Bellcreek silty clay loam, 0 to 1 percent slopes, frequently flooded, brief duration (where drained and either protected from flooding or not frequently flooded during the growing season)
BodAV	Bonnie silt loam, 0 to 1 percent slopes, frequently flooded, very brief duration (where drained and either protected from flooding or not frequently flooded during the growing season)
ClfA	Cobbsfork silt loam, 0 to 1 percent slopes (where drained)
PhaA	Peoga silt loam, 0 to 1 percent slopes (where drained)
MfxA	Martinsville sandy loam, sandy substratum, 0 to 2 percent slopes
NaaA	Nabb silt loam, 0 to 2 percent slopes
NaaB2	Nabb silt loam, 2 to 6 percent slopes, eroded
PhaA	Peoga silt loam, 0 to 1 percent slopes (where drained)
RtxAH	Rossburg silt loam, 0 to 2 percent slopes, frequently flooded, brief duration (where protected from flooding or not frequently flooded during the growing season)
SldAH	Shoals silt loam, 0 to 2 percent slopes, frequently flooded, brief duration (where drained and either protected from flooding or not frequently flooded during the growing season)
StdAQ	Stendal silt loam, 0 to 2 percent slopes, rarely flooded (where drained)
WsyAQ	Whitaker sandy loam, 0 to 2 percent slopes, rarely flooded (where drained)

Page 15, Add the following soil map units to the Conversion Legend. *These only apply to the selected map units that join with the Bartholomew County Soil Survey:

Field Symbol	Publication symbol	Field Symbol	Publication Symbol
AnA	MfxA	Omz	Omz
Ar	*RtxAH	Pg	PhaA
AvA	AddA	Pp	*BodAV
AvB2	AddB2	RsA	NaaA
Ba	*StdAV	RsB2	NaaB2
Ba	BbhA	Sc	SldAH
Bu	BcrAW	Sp	*StdAQ
Cm	ClfA	Wh	WsyAQ
DuA	*BbhA	Zv	BdhAH
HdB2	*PcrB2		

Notes to Accompany Classification and Correlation of the Soils of Jackson County, Indiana

Bartle Series- The Bartle soils correlated in this Jackson County are correlated as classifying as Fragiaqualfs. The Bartle soils in Bartholomew County are correlates as taxadjuncts because of having fragic soil properties. Therefore the Data Mapunits will not join, but the data between the two Data Mapunits will be similar for most uses and interpretations. In addition, certain stream terraces that intersect with the Jackson and Bartholomew county boundaries are determined to be more within the concept of the Bartle Series rather than Dubois Series.

Beanblossom Series- The Beanblossom Series is correlated for the Burnside Series which are a taxadjunct because of being in the non-acid family.

Bellcreek Series- The Bellcreek Series is correlated for the Zipp Variant Series. The Bellcreek soils in Jackson County have slightly higher sand content in the surface layer, and have a slightly thinner surface layer. These differences do not significantly affect the use and management of these soils. They are not considered taxadjuncts.

Bonnie Series- The Bonnie Series are correlated for soils that were included with the Piopolis Series, and join with Bonnie soils in Bartholomew County.

Martinsville Series- The Martinsville Series is correlated for the Alvin Series on stream terraces. These Alvin soils were previously correlated as Alvin sandy loam, 0 to 2 percent slopes.

Nabb Series- The Nabb Series is correlated for the Rossmoyne Series in Jackson County.

Rossburg Series- The Rossburg Series is correlated for the soils that were included with Armiesburg soils.

Shoals Series- The Shoals soils in Jackson County have both loam and silt loam surface textures (Historical field notes) . In the 2001 updated Bartholomew County Soil Survey, the Shoals soils are determined to be dominantly silt loam. Therefore, the Shoals soils with a loam surface texture are considered to be similar inclusions in Jackson County.

Stoy Series- The Stoy Series is classified as Fine-silty, mixed, superactive, mesic Fragiaquic Hapludalfs, but the Stoy soils in Jackson County are considered to have a CEC activity class of "active", therefore they are taxadjuncts.

Tilsit Series- The Tilsit Series is classified as Fine-silty, mixed, semiactive, mesic Typic Fragiudults, but the Tilsit soils in Jackson County are considered to have a CEC activity class of "active", therefore they are taxadjuncts.

Page 24, Replace the Classification of the Soils for the Soil Survey of Jackson County, Indiana with the following:

CLASSIFICATION OF THE SOILS

(An asterisk in the first column indicates that some or all map units of the soil is 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
Aquent	Mixed, mesic Aquents
*Alvin	Coarse-loamy, mixed, superactive, mesic Typic Hapludalfs
Armiesburg	Fine-silty, mixed, superactive, mesic Fluventic Hapludolls
Avonburg	Fine-silty, mixed, active, mesic Aeric Fragic Glossaqualfs
Ayrshire	Fine-loamy, mixed, active, mesic Aeric Endoaqualfs
Bartle	Fine-silty, mixed, active, mesic Aeric Fragiaqualfs
Beanblossom	Loamy-skeletal, mixed, active, mesic Fluventic Dystrudepts
Bedford	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs
Bellcreek	Fine, smectitic, mesic Fluvaquentic Endoaquolls
Berks	Loamy-skeletal, mixed, active, mesic Typic Dystrudepts
Birds	Fine-silty, mixed, superactive, nonacid, mesic Typic Fluvaquents
Bloomfield	Sandy, mixed, mesic Lamellic Hapludalfs
Bobtown	Fine-loamy, mixed, active, mesic Aquultic Hapludalfs
Bonnell	Fine, mixed, active, mesic Typic Hapludalfs
Bonnie	Fine-silty, mixed, active, acid, mesic Typic Fluvaquents
Cincinnati	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs
Cobbsfork	Fine-silty, mixed, active, mesic Fragic Glossaqualfs
Coolville	Fine, mixed, active, mesic Aquultic Hapludalfs
Crider	Fine-silty, mixed, active, mesic Typic Paleudalfs
Driftwood	Fine, mixed, active, acid, mesic Typic Fluvaquents
Dubois	Fine-silty, mixed, active, mesic Aeric Fragiaqualfs
Fox	Fine-loamy over sandy or sandy-skeletal, mixed, superactive, mesic Typic Hapludalfs
Frederick	Fine, mixed, semiactive, mesic Typic Paleudults
*Genesee	Fine-loamy, mixed, superactive, mesic Fluventic Eutrudepts
Gilpin	Fine-loamy, mixed, semiactive, mesic Typic Hapludults
Haubstadt	Fine-silty, mixed, active, mesic Aquic Fragiudalfs
Haymond	Coarse-silty, mixed, superactive, mesic Dystric Fluventic Eutrudepts
Hickory	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Kurtz	Fine-silty, mixed, semiactive, mesic Ultic Hapludalfs
Lyles	Coarse-loamy, mixed, superactive, mesic Typic Endoaquolls
Markland	Fine, mixed, active, mesic Typic Hapludalfs
Martinsville, sandy substratum	Fine-loamy, mixed, active, mesic Typic Hapludalfs
McGary	Fine, mixed, active, mesic Aeric Epiaqualfs
Medora	Fine-silty, mixed, active, mesic Typic Fragiudults
Nabb	Fine-silty, mixed, active, mesic Aquic Fragiudalfs
Negley	Fine-loamy, mixed, active, mesic Typic Paleudalfs
Nineveh variant	Fine-loamy, mixed, active, mesic Typic Argiudolls
Ockley	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Orthents	Orthents
*Otwell	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs
Parke	Fine-silty, mixed, active, mesic Ultic Hapludalfs
Pekin	Fine-silty, mixed, active, mesic Aquic Fragiudults
Peoga	Fine-silty, mixed, superactive, mesic Fragic Epiaqualfs
Piopolis	Fine-silty, mixed, active, acid, mesic Typic Fluvaquents
Rarden	Fine, mixed, active, mesic Aquultic Hapludalfs
Roby Variant	Fine-loamy, mixed, active, mesic Aquic Hapludalfs
Rossburg	Fine-loamy, mixed, superactive, mesic Fluventic Hapludolls
Ruark Variant	Fine-loamy, mixed, active, mesic Typic Endoaqualfs
Shoals	Fine-loamy, mixed, superactive, nonacid, mesic Fluvaquentic Endoaquepts
*Steff	Fine-silty, mixed, active, mesic Fluvaquentic Dystrudepts
Stendal	Fine-silty, mixed, active, acid, mesic Fluvaquentic Endoaquepts
Stonehead	Fine-silty, mixed, active, mesic Oxyaquic Hapludalfs
*Stonelick	Coarse-loamy, mixed, superactive, calcareous, mesic Typic Udifluvents
*Stoy	Fine-silty, mixed, superactive, mesic Fragiaquic Hapludalfs
*Tilsit	Fine-silty, mixed, semiactive, mesic Typic Fragiudults
Udorthents	Loamy, mixed, mesic Udorthents

CLASSIFICATION OF THE SOILS for the Soil Survey of Jackson County, Indiana --Continued

Soil name	Family or higher taxonomic class
Wakeland	Coarse-silty, mixed, superactive, nonacid, mesic Aeric Fluvaquents
*Wellston	Fine-silty, mixed, active, mesic Ultic Hapludalfs
Whitaker	Fine-loamy, mixed, active, mesic Aeric Endoaqualfs
Whitaker variant	Fine-loamy, mixed, active, mesic Aquic Hapludalfs
Wilbur	Coarse-silty, mixed, superactive, mesic Fluvaquentic Eutrudepts
Wilhite	Fine, mixed, active, nonacid, mesic Fluvaquentic Endoaquepts
*Zipp	Fine, mixed, active, nonacid, mesic Typic Endoaquepts

Approval Signatures and Date

Travis Neely 2/13/02

Travis Neely
Soil Survey Area 11
Team Leader
Indianapolis, Indiana

Date

Jane E. Hardisty 2/13/02

Jane E. Hardisty
State Conservationist
Indianapolis, Indiana

Date