

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

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

June 2004

AMENDMENT NO. 2

This amendment results from a technical review of the draft soil survey report and an update of the taxonomic classifications to the 9th Edition of the Keys to Soil Taxonomy.

Page 10, Make the following changes to Cooperators' Names and Credits:

The cooperators for the front cover are:

United States Department of Agriculture
Natural Resources Conservation Service
in cooperation with Purdue University
Agricultural Experiment
Station, and Indiana
Department of Natural
Resources, State Soil
Conservation Board and
Division of Soil Conservation

The credits to be given on page *ii* of the published soil survey are as follows:

This survey was made cooperatively by the Natural Resources Conservation Service, the Purdue University Agricultural Experiment Station, and the Indiana Department of Natural Resources, State Soil Conservation Board and Division of Soil Conservation. This soil survey update is part of the technical assistance provided to the Delaware County Soil and Water Conservation District.

Page 17-20, Add the following to Notes to Accompany:

Blount Series – The Blount soils in Delaware County typically has a solum that range from 22 to 48 inches in thickness, which is outside the series range of 30 to 60 inches.

Casco Series– change the classification of the taxadjunct (listed in the First Amendment) to **Clayey** over sandy or sandy-skeletal, mixed, superactive, mesic Inceptic Hapludalfs. DMU ID 123712.

Glynwood Series – The Glynwood soils in the GlyB3 map unit are as shallow as 20 inches to dense till which is outside the series range of 25 to 48 inches.

Haney Series – The Haney soils in Delaware County commonly are 30 to 44 inches to the base of the argillic horizon, but ranges from 24 to 44 inches which is outside the series range of 30 to 44 inches.

Losantville Series – The range for reaction in the surface layer includes slightly alkaline which is more alkaline than allowed for in the series (neutral). Data mapunits will be adjusted to show the reaction range in Delaware County - DMU ID's 123734 and 123735.

Miamian Series – The Miamian soils in Delaware County are slightly shallower to a seasonal high water table than allowed for in the range of the series. Data mapunits will be adjusted to show a high water table at a depth of 2.0 feet from December to April - DMU IDs 123742 and 123743. The Miamian series defines the high water table at a depth of 2.5 feet from January to May.

Milford Series– The Milford soils in the till substratum phase have till at depths of 40 to 80 inches. Textures in the till substratum include silty clay loam, clay loam and loam. The Milford soils in the stratified sandy substratum phase have stratified sandy material at depths of 40 to 80 inches and includes textures ranging from sand to silt loam. The Milford soils in the pothole phase are in closed depression on till plains. Milford series only includes soils on glacial lake plains. The soils in the pothole phase also have a mucky silty clay surface texture which is outside the series range. In addition, soils in the MorA map unit have a reaction in the Bg horizon that ranges from moderately acid to slightly alkaline, which is outside the range of moderately acid to neutral for the Milford series. Tables will be adjusted to include the slightly alkaline reaction. The Milford soils in Delaware County may become new series during MLRA updating activities.

Morley Series – The Morley soils in Delaware County have a seasonal high water table during the months of December to April, which is longer than defined for the Morley series range (January to April). In addition, the Morley soils in the Mvbc3 and Mvbd3 map units have a seasonal high water table at depths as shallow as 1.5 feet from December to April, which is outside the Morley series range of 2.0 feet (shallowest depth). Data mapunits will be adjusted to show the range in Delaware County – DMU ID's 123748, 123749, 123750, and 123751.

Muskego Series – The Muskego soils in Delaware County includes soils that have a moist color value of 4 in the Oa horizon which is outside the series range of 2 to 3.

Pewamo Series – The concept of this series was changed to include only soils formed in till after the Delaware County correlation. The Pewamo soils in Delaware County formed in clayey lacustrine deposits and the underlying till. These soils may become a new series during future MLRA updating activities.

Wapahani Series – The WbgB3 and WbgC3 map units includes soils that are deeper than 20 inches to dense till (20 to 24 inches); the Wapahani series range is 12 to 20 inches to dense till. Data mapunits will be adjusted to show the map unit range of 12 to 24 inches to dense till – DMU ID's 123780 and 123781.

Page 3-4, First Amendment – Make changes to the classification of the following series listed in the First Amendment:

Losantville – change to **Clayey**, mixed, active, mesic, **shallow** Oxyaquic Hapludalfs

Mississinewa – change to **Clayey**, illitic, mesic, **shallow** Aquic Hapludalfs

Shoals – change to Fine-loamy, mixed superactive, nonacid, mesic **Fluventic** Endoaquepts

Wapahani – change to **Loamy**, mixed, active, mesic, **shallow** Oxyaquic Hapludalfs

Also change *Eighth Edition of Keys to Soil Taxonomy* to the *Ninth Edition of Keys to Soil Taxonomy* on page 3).

Approval Signatures

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