# Mississippi River Sand Terrace Study: The MLRA Concept at Work in the New Era of Production Soil Survey. (S05-wald140652-Poster)

**Authors:**

- F.E.Heisner* - *USDA-NRCS, Rock Falls, IL*
- J.A.Wald - *USDA-NRCS, Rock Falls, IL*
- S.L.Elmer - *USDA-NRCS, Rock Falls, IL*

## Abstract:

Sandy soils on the Mississippi River terrace in Henderson County, Illinois, were originally mapped as Sparta (sandy, mixed, mesic Entic Hapludolls) and Plainfield (mixed, mesic, Typic Udipsamments). Legend updates in 1970 correlated Plainfield to Oakville. Recent soil survey update efforts, recent observations of sandy soils in Henderson County, revealed the presence of lamellae. Adjacent counties were also being updated concurrently. Transects in Rock Island and Mercer Counties, Illinois, revealed that lamellae were typically present in soils previously mapped as Sparta, Oakville, and Plainfield. Lamellae were present in 95 percent of the Plainfield/Oakville soils on less than 15 percent slopes with 75 percent of the borings classifying as mixed, mesic Lamellic Udipsamments (Coloma series). Soils on slopes greater than 20 percent generally did not display lamellae. In soils previously mapped as Sparta, 95 percent of the borings displayed lamellae, but only 45 percent of the borings had lamellic thickness to classify as coarse-loamy, mixed, mesic, superactive Lamellic Argiudolls (Ade series).

**Corresponding Author Information:**

Jonathan Wald
USDA-NRCS
102 E. Rt. 30
Rock Falls, IL 61071

phone: 815-625-3417
e-mail: jonathan.wald@il.usda.gov

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