

Major Land Resource Area 111X

Indiana and Ohio Till Plain

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Ecological site keys

111E_ES_KEY

1a. Organic parent material

- 2a. Underlying material is mineral [big bluestem -switchgrass]
- 2b. Underlying material is organic
 - 3a. Underlying material is limnic (coprogenous earth) [big bluestem - eastern gamagrass???
 - 3b. Underlying material is not limnic [bulrush - cattail]

1b. Non-organic parent material

- 4a. Active floodplain, alluvium parent material
 - 5a. Soil surface dark in color (3/2 Munsell or darker)
 - 6a. Soils are very poorly drained [cottonwood - sycamore]
 - 6b. Soils are moderately well to well drained [Ohio buckeye - red maple]
 - 5b. Soil surface light in color (lighter than 3/2 Munsell)
 - 7a. Soils are poorly to somewhat poorly drained [silver maple - swamp white oak]
 - 7b. Soils are moderately well to well drained [sugar maple - American basswood]
- 4b. Other landforms, not in floodplain, non-alluvium parent material
 - 8a. Residuum of weathering bedrock
 - 9a. Soils are somewhat poorly drained [sugar maple - American beech]
 - 9b. Soils are moderately well to well drained [white oak - red oak]
 - 8b. Unconsolidated deposits
 - 10a. Ice-transported unstratified deposits (glacial till)
 - 11a. Site is on a concave landscape position (toeslope and/or footslope) AND frequently ponded [pin oak -swamp white oak]
 - 11b. site is on a convex landscape position (summit, shoulder, backslope)
 - 12a. Soils are somewhat poorly drained [sugar maple - American beech]
 - 12b. Soils are moderately well to well drained [sugar maple - American beech]
 - 10b. Non-ice-transported stratified deposits
 - 13a. Deposited in non-flowing water, lacustrine parent material
 - 14a. Soils are very poorly or poorly drained [pin oak - swamp white oak]
 - 14b. Soils are somewhat poorly drained or drier [sugar maple - American beech]
 - 13b. Deposited in flowing water, outwash-colluvium parent material
 - 15a. Soil surface dark in color (3/2 Munsell or darker)
 - 16a. Soils are very poorly or poorly drained [prairie cordgrass - big bluestem]
 - 16b. Soils are somewhat poorly drained or drier [white oak - bur oak / little bluestem - big bluestem]
 - 15b. Soil surface light in color (lighter than 3/2 Munsell)
 - 17a. Soils are very poorly, poorly or somewhat poorly drained [sugar maple - red oak]

17b. Soils are moderately well drained or drier [oaks / prairie understory]

[Label] [Criteria]