

# Major Land Resource Area 091X

## Wisconsin and Minnesota Sandy Outwash

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### Ecological site keys

#### MLRA 91 Key

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**LOWLANDS** Lowlands (floodplains, depressions and flats, and organic soils)

- I. Organic soil and has a Histic epipedon or is a Histosol (>20 cm of organic soil materials)
  - a. Soil pH is below 4.5 ... F091XY001WI – Poor Fen
  - b. Soil pH is above 4.5 ... F091XY002WI – Mucky Swamp
- II. Mineral soil (Histic epipedon or Histosol absent)
  - a. Site is located in a floodplain ... F091XY003WI – Floodplain
  - b. Site is located on a terrace ... F091XY004WI – Terrace
  - c. Site is not located in a floodplain or on a terrace
    - i. Soil is very poorly or poorly drained
      - 1 Soil is sandy to loamy in texture ... F091XY005WI – Wet Sandy and Loamy Lowland
      - 2 Soil is clayey in texture ... F091XY006WI – Wet Clayey Lowland
    - ii. Soil is somewhat poorly drained
      - 1 Soil is sandy to loamy textured ... F091XY007WI – Moist Sandy and Loamy Lowland
      - 2 Soil is clayey textured ... F091XY008WI – Moist Clayey Lowland

**UPLANDS** (footslopes, backslopes, shoulders, and summits)

- I. Site is moderately well, well, or somewhat excessively drained
  - a. Soil is dominated by sandy textures
    - i. Argillic horizon is present ... F091XY009WI – Alfic Sandy Upland
    - ii. Spodic horizon is present ... F091XY010WI – Acidic Sandy Upland
    - iii. No argillic or spodic horizon is present ... F091XY011WI – Sandy Upland
  - b. Soil is dominated by loamy textures ... F091XY012WI – Loamy Upland
  - c. Soil is dominated by clayey textures ... F091XY013WI – Clayey Upland
- II. Site is excessively drained
  - a. Spodic horizon present ... F091XY014WI – Acidic Dry Upland
  - b. No spodic horizon present ... F091XY015WI – Dry Upland