

# Major Land Resource Area 094A

## Northern Michigan Sandy Highlands

Accessed: 04/17/2024

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### Ecological site keys

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1a. Great Lakes Shoreline. --- R094CY001MI --- Shoreline Complex

1b. Inland.

2a. Bedrock within 150 cm of surface and no water table. --- F094CY038MI --- Limestone Plains

2b. Deep Soil or Water Table.

3a. Inside Snowbelt.

4a. Floodplain.

5a. Hydric Soil. ... F094AA012MI – Snowy Wet Floodplain

5b. Non-Hydric Soil. ... F094AA011MI – Snowy Floodplain

4b. Non-Floodplain.

6a. Mineral Soil with no histic epipedon.

7a. Sandy Site:  $\geq 80\%$  sand in the top 150 cm and  $\geq 70\%$  sand in the top 50 cm; or  $\geq 80\%$  sand in top 50 cm; or  $< 20\%$  clay in top 150 cm, pH  $< 6$ , and ultic subgroup.

8a. No water table (well drained or drier).

9a. Bhs horizon present. ... F094AA005MI – Snowy Rich Sandy Drift

9b. Bhs horizon absent. ... F094AA006MI – Snowy Sandy Drift

8b. Seasonal water table present (moderately well Drained or wetter).

10a. Non-hydric Soil.

11a. pH  $\geq 5.5$  or Mollisol. ... F094AA009MI – Snowy Sandy Depression

11b. pH  $< 5.5$  or Spodosol or Ultic subgroup. ... F094AA007MI – Snowy Acidic Sandy Depression

10b. Hydric Soil.

12a. pH  $\geq 5.5$  or Mollisol. ... F094AA010MI – Snowy Wet Sandy Depression

12b. pH  $< 5.5$  or Spodosol or Ultic subgroup. ... F094AA008MI – Snowy Wet Acidic Sandy Depression

7b. Loamy Site:  $< 80\%$  sand in the top 150 cm or  $< 70\%$  sand in the top 50 cm; and not in ultic subgroup unless pH  $\geq 6$  or clay  $\geq 20\%$ .

13a. No water table. ... F094AA002MI – Snowy Loamy Till

13b. Seasonal water table present (moderately well Drained or wetter).

14a. Non-hydric Soil. ... F094AA003MI – Snowy Loamy Depression

14b. Hydric Soil. ... F094AA002MI – Snowy Loamy Till

6b. Histosol or Histic Subgroup.

15a. pH of the top 50 cm  $\geq 5.0$  or euic if pH unknown. ... F094AA013MI – Snowy Mucky Depression

15b. pH of the top 50 cm  $< 5.0$  or dysic if pH unknown. ... F094AA014MI – Snowy Acidic Peaty Depression

3b. Outside Snowbelt

16a. Floodplain.

- 17a. Hydric Soil. ... F094AB024MI – Floodplain
- 17b. Non-Hydric Soil. ... F094AB025MI – Wet Floodplain
- 16b. Non-Floodplain.
  - 18a. Mineral Soil with no histic epipedon.
    - 19a. Sandy Site:  $\geq 80\%$  sand in the top 150 cm and  $\geq 70\%$  sand in the top 50 cm; or  $\geq 80\%$  sand in top 50 cm; or  $< 20\%$  clay in top 150 cm,  $\text{pH} < 6$ , and ultic subgroup.
      - 20a. No water table (well drained or drier).
        - 21a. Spodic subgroup or Spodosol, or  $\text{pH} \geq 6$  or Carbonates  $< 100$  cm deep. ... F094AB018MI – Rich Sandy Drift
        - 21b. Not Spodic subgroup nor Spodosol, and  $\text{pH} < 6$  and Carbonates  $\geq 100$  cm. ... F094AB019MI – Sandy Drift
      - 20b. Seasonal water table present (moderately well Drained or wetter)
        - 22a. Non-hydric Soil.
          - 23a.  $\text{pH} \geq 5.5$  or Mollisol. ... F094AB022MI – Sandy Depression
          - 23b.  $\text{pH} < 5.5$  or Spodosol or Ultic subgroup. ... F094AB020MI – Acidic Sandy Depression
        - 22b. Hydric Soil.
          - 24a.  $\text{pH} \geq 5.5$  or Mollisol. ... F094AB023MI – Wet Sandy Depression
          - 24b.  $\text{pH} < 5.5$  or Spodosol or Ultic subgroup. ... F094AB021MI – Wet Acidic Sandy Depression
    - 19b. Loamy Site:  $< 80\%$  sand in the top 150 cm or  $< 70\%$  sand in the top 50 cm; and not in ultic subgroup unless  $\text{pH} \geq 6$  or clay  $\geq 20\%$ .
      - 25a. No water table. ... F094AB015MI – Loamy Till
      - 25b. Seasonal water table present (moderately well Drained or wetter).
        - 26a. Non-hydric Soil. ... F094AB016MI – Loamy Depression
        - 26b. Hydric Soil. ... F094AB017MI – Wet Loamy Depression
  - 18b. Histosol or Histic Subgroup.
    - 27a.  $\text{pH}$  of the top 50 cm  $\geq 5.0$  or euic if  $\text{pH}$  unknown. ... F094AB026MI – Mucky Depression
    - 27b.  $\text{pH}$  of the top 50 cm  $< 5.0$  or dysic if  $\text{pH}$  unknown. ... F094AB027MI – Acidic Peaty Depression