USDA icon **Natural Resources Conservation Service**

Major Land Resource Area 094A
Northern Michigan Sandy Highlands

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Ecological site keys

MLRA 94A_ES_Key

1a. Great Lakes Shoreline. --- consult MLRA 94C key.

1b. Inland.

2a. Bedrock within 150 cm of surface and no water table. --- consult MLRA 94C key.

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: sandy textures dominant in the top 50 cm, except some loamier sites low in bases.

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 ? 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 ? 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: sandy textures not dominant in the top 50 cm, and generally high base content.

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. ... F094AA004MI – Snowy Wet Loamy Depression

6b. Histosol or Histic Subgroup.

15a. pH of the top 50 cm ? 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: sandy textures dominant in the top 50 cm, except some loamier sites low in bases..

20a. No water table (well drained or drier).

21a. Spodic subgroup or Spodosol, or pH ? 6 or Carbonates < 100 cm deep. ... F094AB018MI – Rich Sandy Drift

21b. Not Spodic subgroup nor Spodosol, and pH < 6 and Carbonates ? 100 cm.

22a. Slopes mostly gentle (<15%) on broad outwash plains. ... F094AB019MI – Dry Sandy Plains

22b. Slopes mostly steep (>15%) on ice contact hills or eroding margins of outwash. ... F094AB028MI – Dry Sandy Slopes

20b. Seasonal water table present (moderately well Drained or wetter)

23a. Non-hydric Soil.

24a. pH ? 5.5 or Mollisol. ... F094AB022MI – Sandy Depression

24b. pH < 5.5 or Spodosol or Ultic subgroup. ... F094AB020MI – Acidic Sandy Depression

23b. Hydric Soil.

25a. pH ? 5.5 or Mollisol. ... F094AB023MI – Wet Sandy Depression

25b. pH < 5.5 or Spodosol or Ultic subgroup. ... F094AB021MI – Wet Acidic Sandy Depression

19b. Loamy Site: sandy textures not dominant in the top 50 cm, and generally high base content.

26a. No water table. ... F094AB015MI – Loamy Till

26b. Seasonal water table present (moderately well Drained or wetter).

27a. Non-hydric Soil. ... F094AB016MI – Loamy Depression

27b. Hydric Soil. ... F094AB017MI – Wet Loamy Depression

18b. Histosol or Histic Subgroup.

28a. pH of the top 50 cm ? 5.0 or euic if pH unknown. ... F094AB026MI – Mucky Depression

28b. pH of the top 50 cm < 5.0 or dysic if pH unknown. ... F094AB027MI – Acidic Peaty Depression