U.S. DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

SOIL TEMPERATURE REGIMES OF PENNSYLVANIA LANDSCAPES

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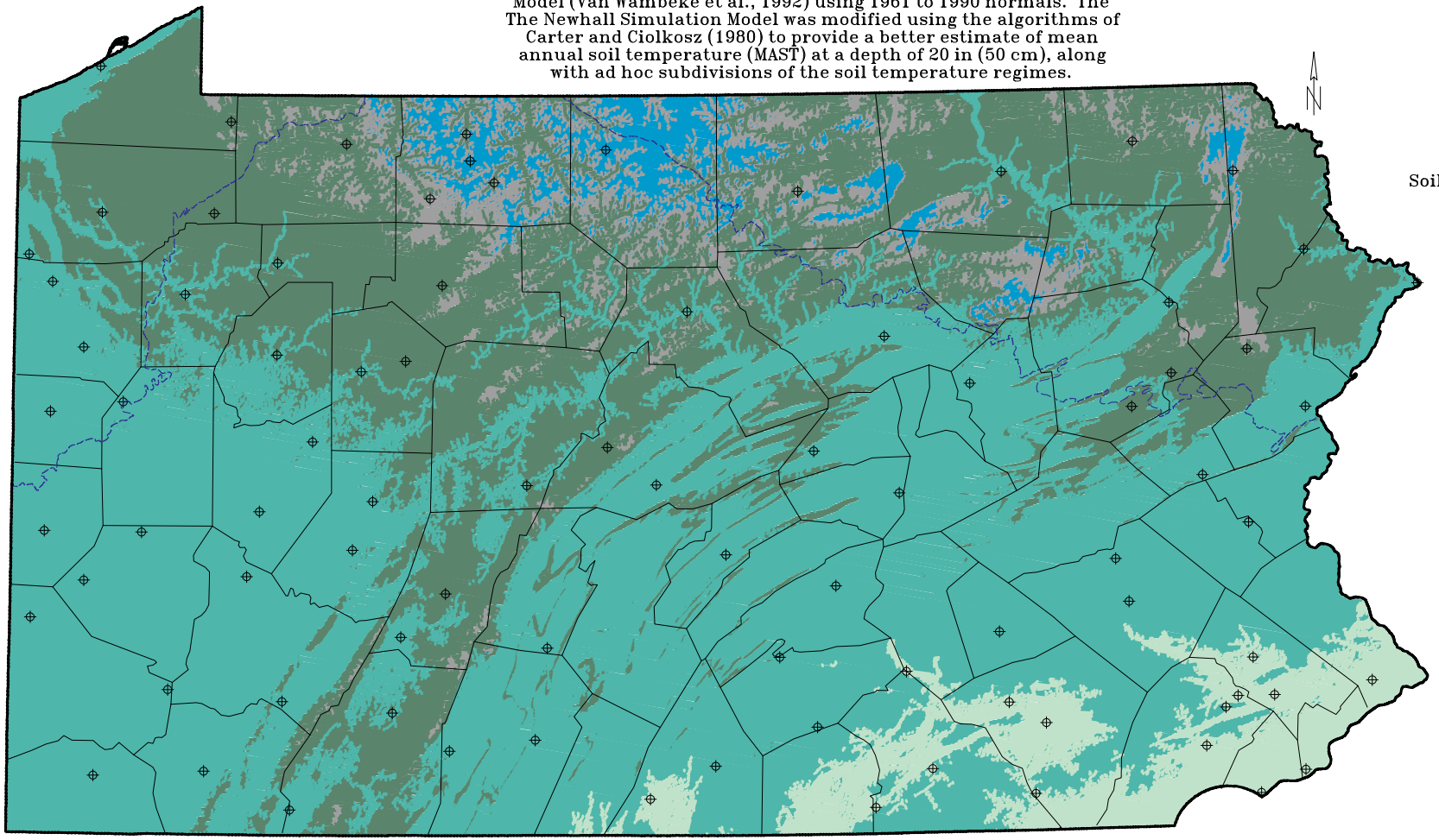
42 30 00N
80 00 00W

Soil temperature regimes were derived from the Newhall Simulation Model (Van Wambeke et al., 1992) using 1961 to 1990 normals. The The Newhall Simulation Model was modified using the algorithms of Carter and Ciolkosz (1980) to provide a better estimate of mean annual soil temperature (MAST) at a depth of 20 in (50 cm), along with ad hoc subdivisions of the soil temperature regimes.



LEGEND

Soil Temperature Regime

- Frigid (8 C)
- Frigid/Mesic Transition (8 to 9 C)
- Cool–Phase Mesic (9 to 10.5 C)
- Typic Mesic (10.5 to 12.5 C)
- Warm–Phase Mesic (12.5 to 14.0 C)
- Wisconsinan Glacial Border
- Weather Stations

39 30 00N
80 00 00W

0 25 50 75 100 STATUTE MILES

0 25 50 75 100 KILOMETERS

SCALE 1:2,250,000

39 30 00N
75 00 00W

Map Series: 96–0063

Source: USDA/NRCS Climate Data Access Facility, Water and Climate Center, Portland, OR; Owenby and Ezell (1992); Albers Equal Area Projection; AUG 1996.

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