

## Root Zone Depth

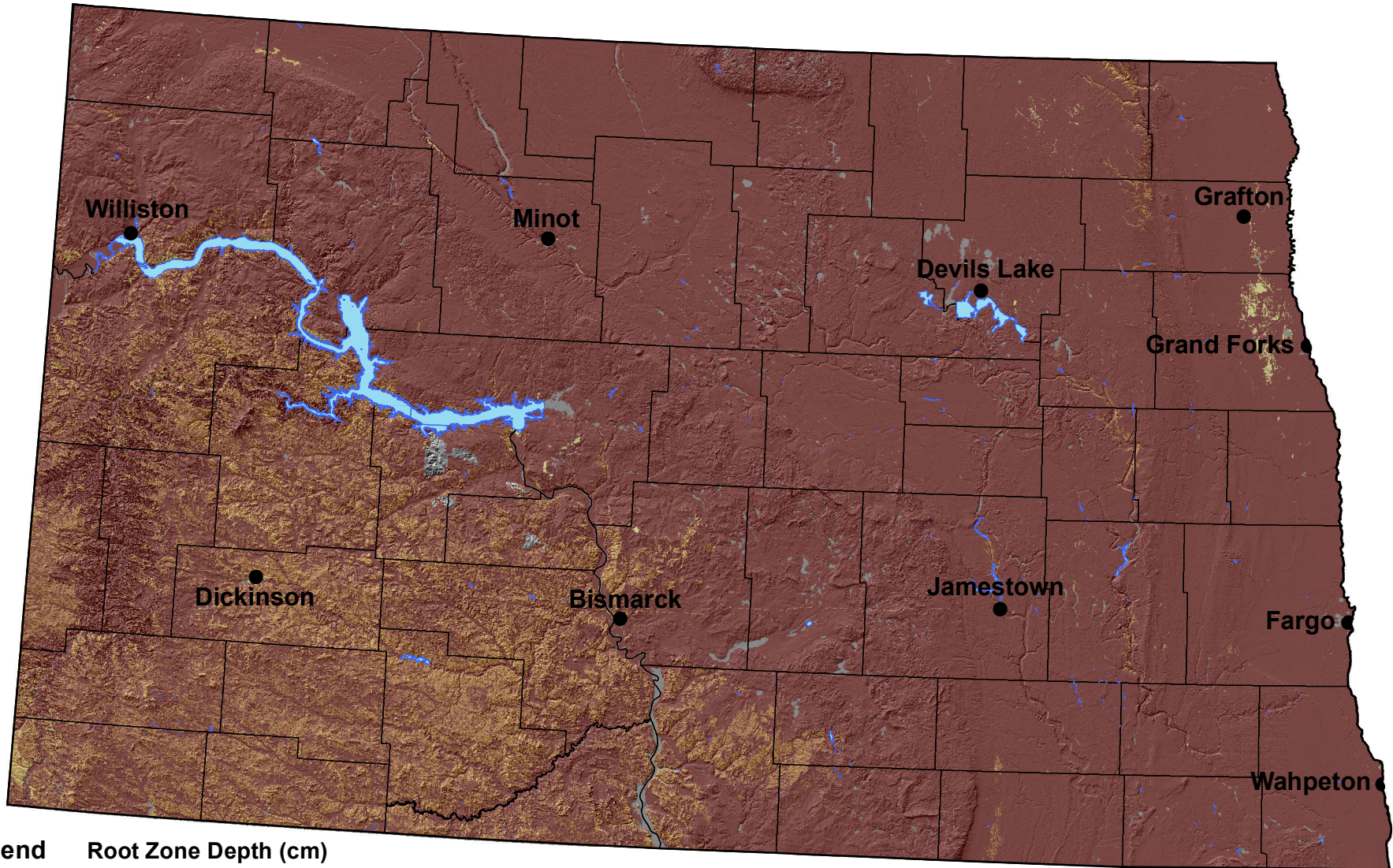
Root zone depth is the depth within the soil profile that commodity crop (cc) roots can effectively extract water and nutrients for growth. Root zone depth influences soil productivity significantly. Soil component horizon criteria for root-limiting depth include: presence of hard bedrock, soft bedrock, a fragipan, a duripan, sulfuric material, a dense layer, a layer having a pH of less than 3.5, or a layer having an electrical conductivity of more than 12 within the component soil profile. If no root-restricting zone is identified, a depth of 150 cm is used to approximate the root zone depth (Dobos et al., 2012). Root zone depth is computed for all map unit major earthy components (weighted average). Earthy components are those soil series or higher level taxa components that can support crop growth (Dobos et al., 2012). Major components are those soil components where the majorcompflag = 'Yes' (SSURGO component table). NULL values are presented where data are incomplete or not available.





United States  
Department of  
Agriculture

# Root Zone Depth (cm)



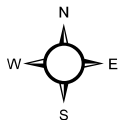
## Legend Root Zone Depth (cm)

- City
- County
- State
- Water
- 0 - 20
- 20 - 50
- 50 - 100
- 100 - 150



0 20 40 80 Miles

1:2,500,000



USDA is an equal opportunity provider, employer, and lender.