Sources:
USDA-NRCS. 2007. County Boundaries derived from 1:100,000 (Bureau of Census - TIGER). National Cartography and Geospatial Center, Ft. Worth, Texas.
USDA-NRCS. 2007. NSSC DATA - Soil Root Zone Available Water Capacity (RZAWC) calculation - National Soil Information System (Evaluation Draft - April 2007). National Soil Survey Center, Lincoln, Nebraska and National Geospatial Development Center, Morgantown, West Virginia. (http://soils.usda.gov).
USDA-NRCS. 2007. Roads layer derived from 1:100,000 (Bureau of Census - TIGER). National Cartography and Geospatial Center, Ft. Worth, Texas.
USDA-NRCS. 2007. Soil Survey Geographic Database (SSURGO) version 2.1. Michigan Collection. East Lansing, MI. Soil Data Mart Source (http://soildatamart.nrcs.usda.gov). Fiscal Year 2007, second quarter edition.

Albers Equal Area Map Projection
North American Datum of 1983

Root Zone Available Water Capacity Map of Michigan

0 25 50 75 Miles

NRCS Natural Resources Conservation Service

KEWEENAW
HOUGHTON
ONTONAGON
BARAGA
GOGEBIC
MARQUETTE
ALGER
LUCE
CHIPPEWA
IRON
SCHOOLCRAFT
MACKINAC
DICKINSON
DELTA
MENOMINEE
EMMET
CHEBOYGAN
PRESQUE ISLE
CHARLEVOIX
ALPENA
ANTRIM
OTSEGO
MONTMORENCY
LEELANAU
CRAWFORD
KALKASKA
OSCODA
ALCONA
BENZIE
GRAND TRAVERSE
MISSAUKEE
MANISTEE
WEXFORD
ROSCOMMON
OGEMAW
IOSCO
ARENAC
MASON
LAKE
OSCEOLA
CLARE
GLADWIN
HURON
BAY
OCEANA
MECOSTA
ISABELLA
MIDLAND
NEWAYGO
TUSCOLA
SANILAC
SAGINAW
MONTCALM
GRATIOT
LAPEER
GENESEE
KENT
OTTAWA
IONIA
CLINTON
SHIAWASSEE
ST CLAIR
MACOMB
OAKLAND
ALLEGAN
BARRY
EATON
INGHAM
LIVINGSTON
KALAMAZOO
WAYNE
VAN BUREN
CALHOUN
JACKSON
WASHTENAW
BERRIEN
CASS
ST JOSEPH
BRANCH
HILLSDALE
LENAWEE
MONROE

RZAWC
(inches)
- Water
- Null
- 0 or No Data
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 5
- 5 - 6
- 6 - 7
- 7 - 8
- 8 - 9
- 9 - 10
- 10 - 11
- 11 - 12
- 12 - 14
- 14 - 42
- Digital Mapping Not Available

- County Boundaries
- Roads

N W E S

Soil Root Zone Available Water Capacity - (RZAWC)

The Root Zone Available Water Capacity (RZAWC) is the sum of available water capacity (AWC) times thickness for all layers in the root zone. This approximates the volume of water that is held in the root zone and can be used by crop plants. RZAWC effects crop production and is an important physical soil property.
The RZAWC soil is calculated from the surface to the beginning of the first root restrictive soil layer, such as bedrock or a very dense layer, or to a depth of 150 cm. The quantity of water held in the rooting media that is available for plant use directly influences soil productivity. The importance of RZAWC varies somewhat geographically because the capacity to hold water during key parts of the growing season is more critical in some climates than in others. Water in the surface layer is critical to establish plants, but the amount of available water stored throughout the root zone usually determines the most productive soils.