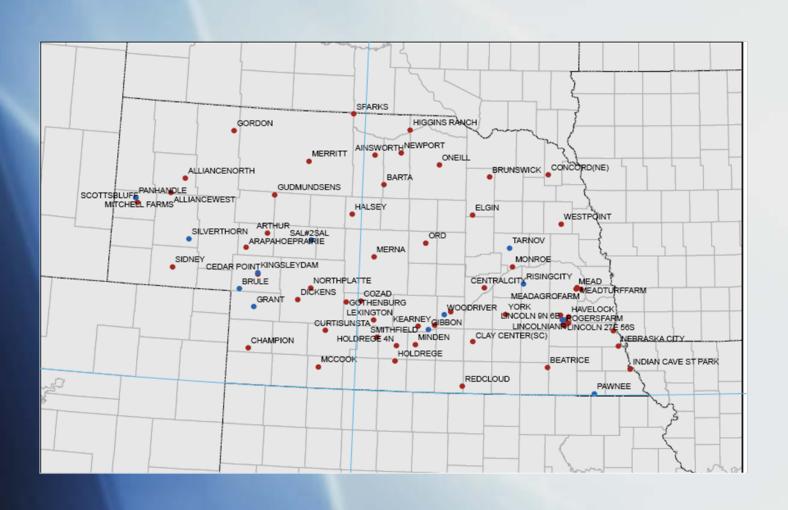
The Soil Moisture Index (SMI)

Eric Hunt
Graduate Student
UNL/SNR/HPRCC/NDMC

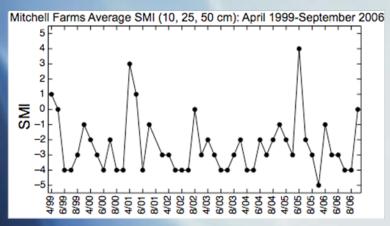
How the SMI works

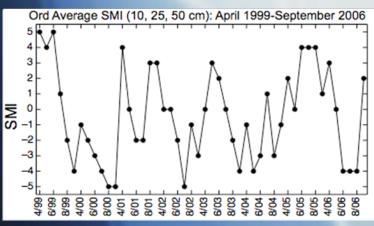
- Based on two physical terms
 - Field capacity
 - Wilting point
- Field capacity and wilting point were determined from field data
- SMI ranges from 5 to -5
 - 5 represents a soil at field capacity
 - -5 represents a soil at wilting point
 - 0 represents neutral conditions

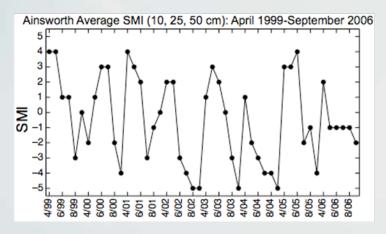
AWDN Sites in Nebraska

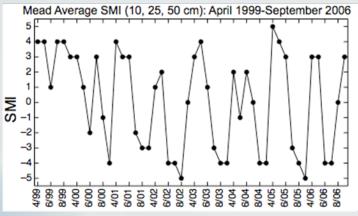


Analysis of 1999-2006 Growing Seasons

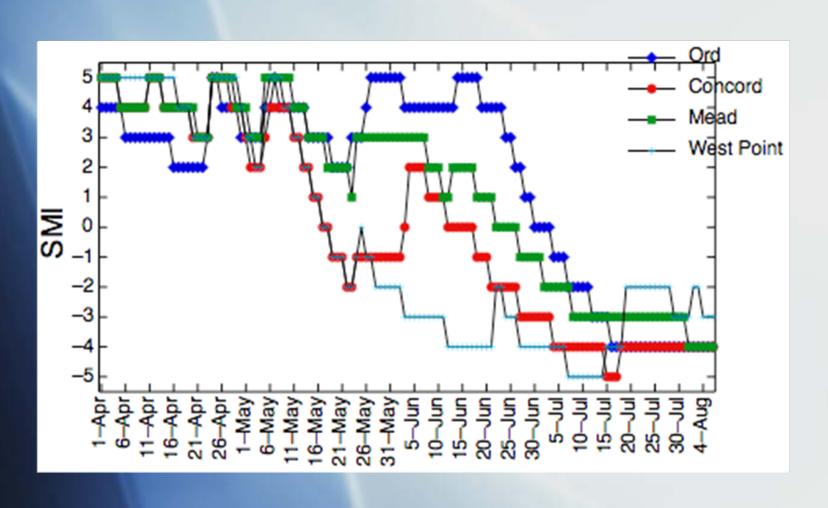




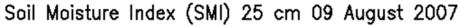


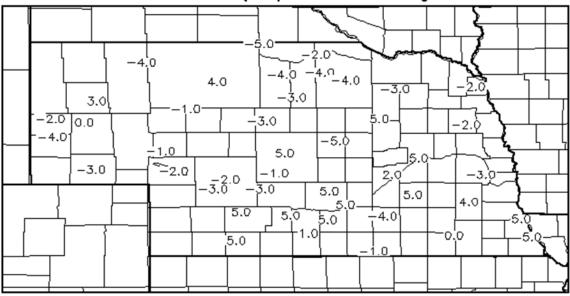


2007 Flash Drought (?)



SMI map





Questions??