Muscotah Soybean

SSURGO

7050: Mollisols-Kennebec

Wind Erodibility Group:	6
Wind Erodibility Index:	48
T Erosion Factor:	5
Runoff:	
Drainage:	Moderately well drained
Hydric Rating:	No
Hydrologic Group:	Group C
Parent Material:	alluvium
Total Plant Available Water (cm):	48.41
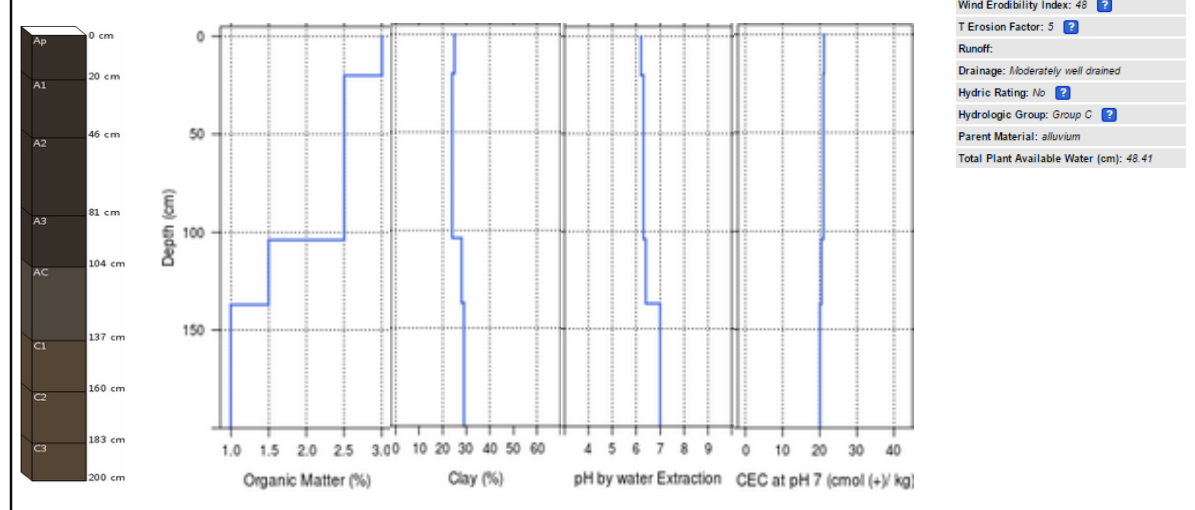
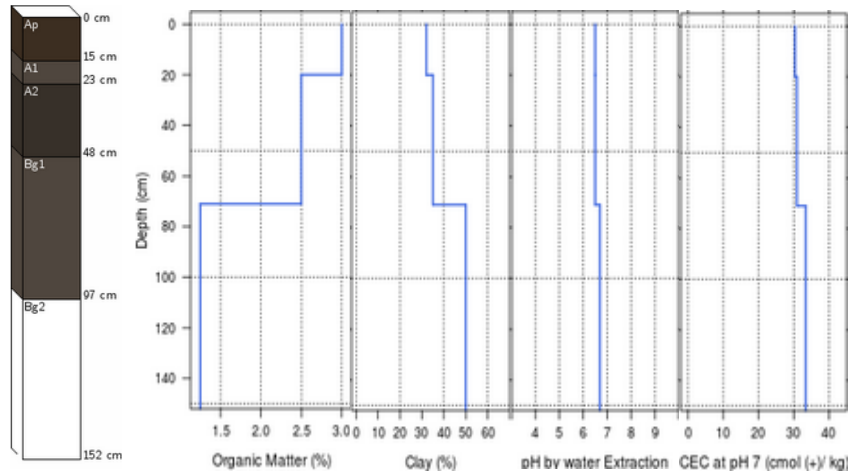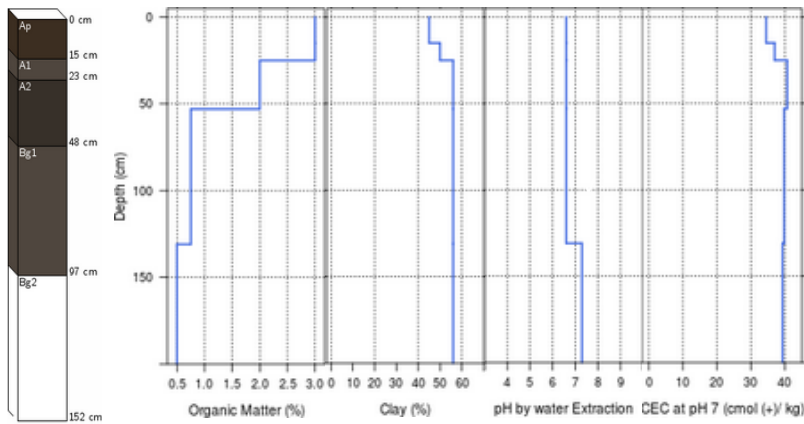## 7090: Mollisols Wabash

Wind Erodibility Group: 6
Wind Erodibility Index: 48
T Erosion Factor: 5
Runoff: Very high
Drainage: Poorly drained
Hydric Rating: Yes (Wooded under natural conditions)
Hydrologic Group: Group D
Parent Material: clayey alluvium
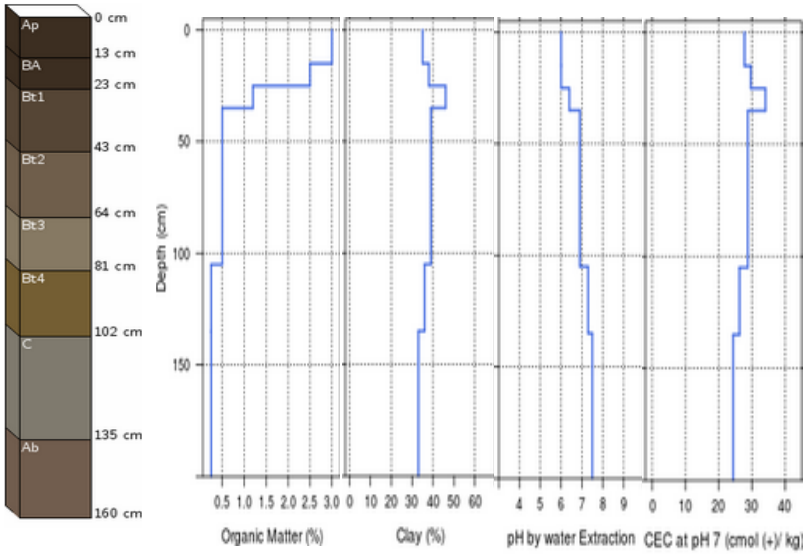Total Plant Available Water (cm): 24.43

7091: Mollisols Wabash

Wind Erodibility Group: 4
Wind Erodibility Index: 86
T Erosion Factor: 5
Runoff:
Drainage: Poorly drained
Hydric Rating: Yes (Wooded under natural conditions)
Hydrologic Group: Group D
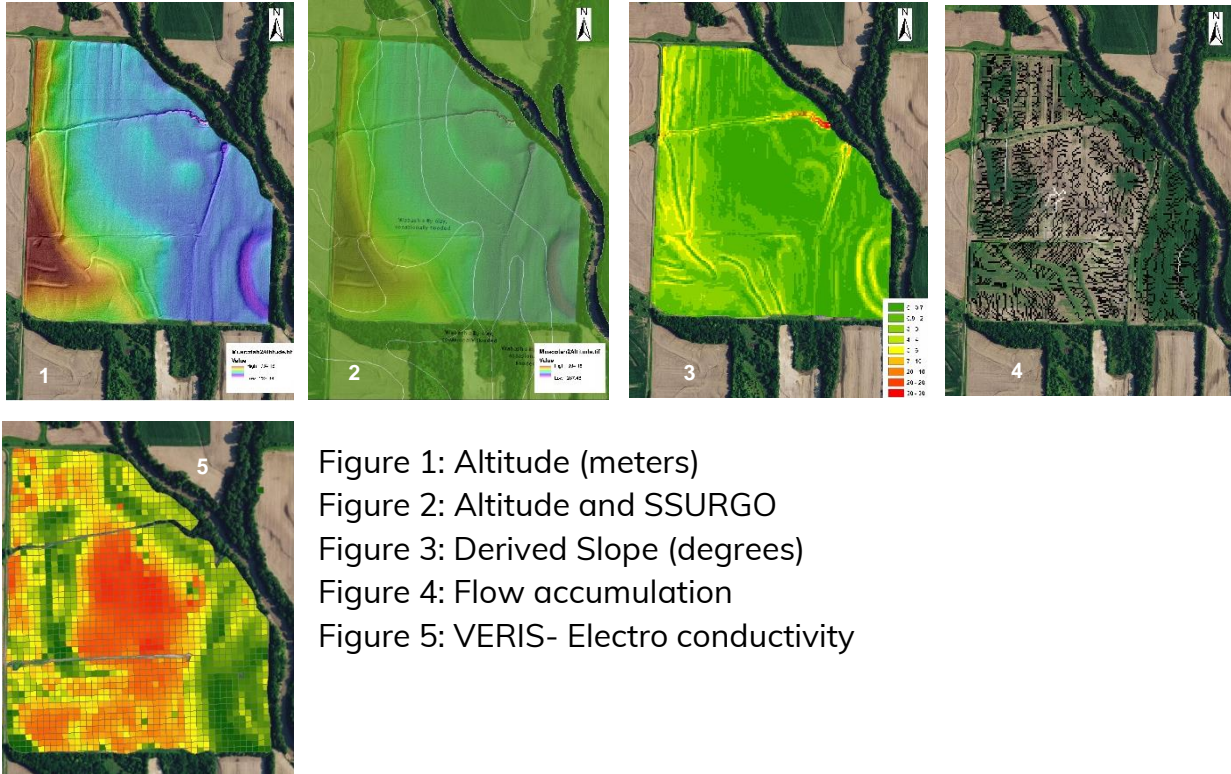Parent Material: alluvium
Total Plant Available Water (cm): 20.45

7501
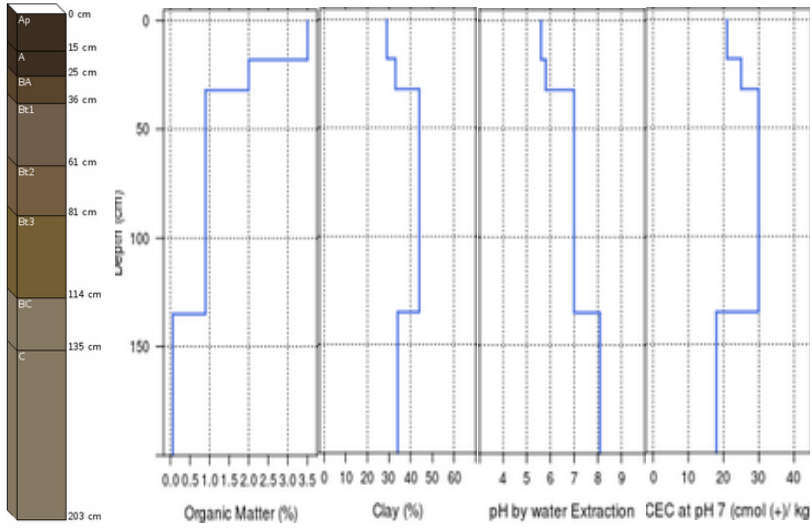
Wind Erodibility Group: *6*
Wind Erodibility Index: *48*
T Erosion Factor: *5*
Runoff:
Drainage: *Moderately well drained*
Hydric Rating: *No*
Hydrologic Group: *Group D*
Parent Material: *till*
Total Plant Available Water (cm): *29.93*

7683

Wind Erodibility Group: *6*
Wind Erodibility Index: *48*
T Erosion Factor: *5*
Runoff: *Medium*
Drainage: *Moderately well drained*
Hydric Rating: *No*
Hydrologic Group: *Group D*
Parent Material: *loess*
Total Plant Available Water (cm): *35.95*

Landscape characterization:

Figure 1: Altitude (meters)
Figure 2: Altitude and SSURGO
Figure 3: Derived Slope (degrees)
Figure 4: Flow accumulation
Figure 5: VERIS- Electro conductivity

SATELLITE DATA ANALYSIS:

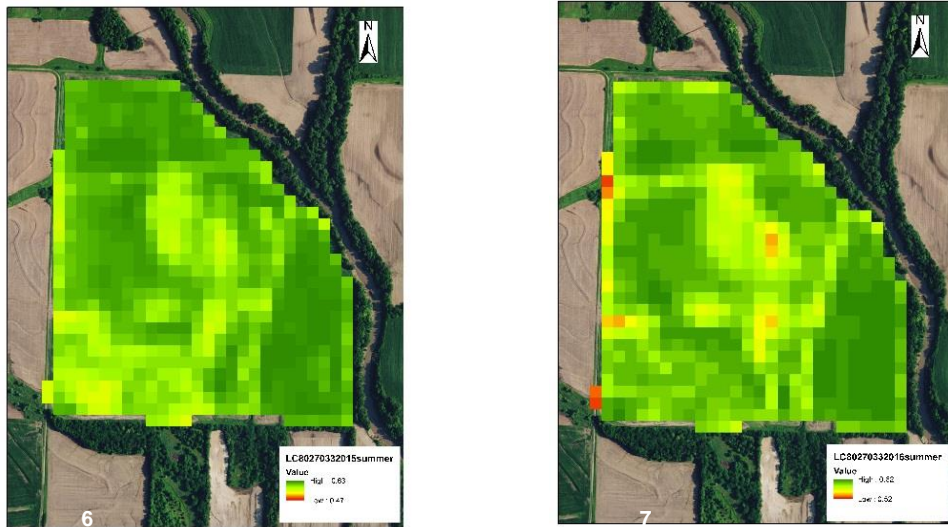Summer crops 2015-2016

NDVI:

Figure 6: NDVI summer 2015
Figure 7: NDVI summer 2016

YIELD MONITOR CORN 2016

Figure 8: Corn Yield 2016

PRELIMINARY ZONING BY ISO-DATA CLUSTERING:

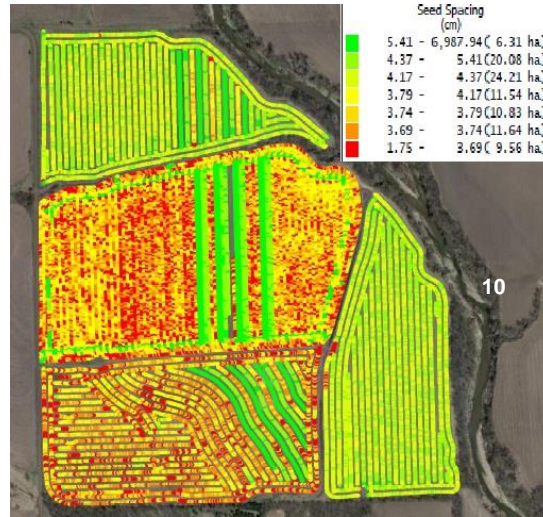Figure 9: Low potential; High potential; Medium potential

SEASON 2017

Figure 10: On Farm Soybean Strips 2017 and seeding space
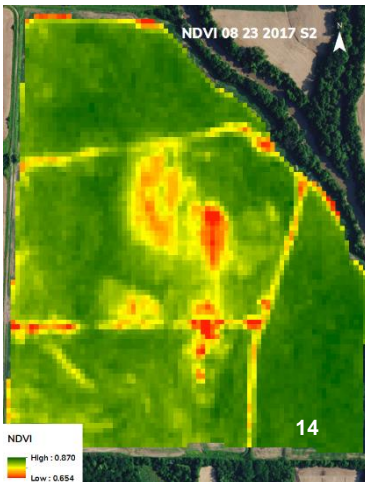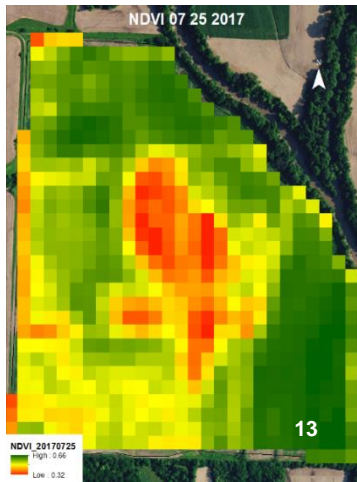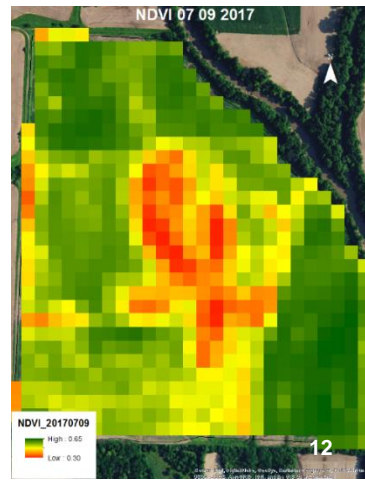
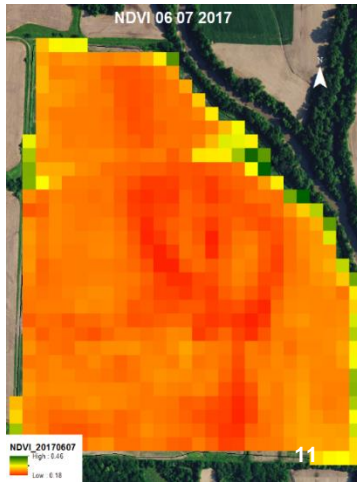**Satellite imagery**

NDVI:

Figure 11: NDVI L8 June 7th
Figure 12: NDVI L8 July 9th
Figure 13: NDVI L8 July 25th
Figure 14: NDVI S2 August 23th
Figure 15: NDVI Rapid Eye September 17th