

ADMS Training 2025

RTK & Watershed Modeling

This session is focused on Topography (RTK) data processing to the creation of Watersheds. Processing RTK collected data, step by step method of cleaning up data for “surfacing” the data points into an Elevation.grd layer. Finally, taking the Elevation.grd data into watershed modeling process.

Grower: GKT-Data Inputs **Farm:** RTK Data **Field:** SH 08 SE-E-Pts-XYZ-Clean

- (15-23) ADMS Settings
- (372) Collecting good data with RTK & (z_Docs & Downloads)
 - o Notes: Working with 2 RTK data sets & Use RTK!
- (12 & 240) Importing RTK Data (talk on quality data)



Processing Topography Data from RTK

- (40) 1 from John Deere 2630 (planting data.csv) – convert to SHP
- (40) 1 from ADMS – AppLog.csv – convert to SHP
- (61) ADMS Data-Move Features (XY) - Boundary (X= -94 Y= 74)
- (263) Adjust geo-reference (XY) - Points (X= -86 Y= 74)
 - o Note: Boundary & Planting good (Tractor is correct piece of data XY)
- (244) Cleaning Dataset (GPS QUALITY)
- (80-81) Thematic Coloring for GPS Offset - Data Points.shp
 - o Fixed vs World
- (258-260) Offset points by heading (XY adjustment) (28 feet)
- (241) Labeling Elevation Points.shp
 - o Excel – finding Elevation Difference
- (242) Merge SHP File with Z Adjust (6.42' up Planter)
 - o Order is important (Ranger is correct for Z)
 - o Name: RTK-Merged.shp
- (246) Create Grid from POINTS
- (247-248) Boundary & Cropping Raster (Elevation.grd)
 - o Note – Culverts and Dikes Boundary items.

Watershed Modeling

Grower: GKT-Water Management **Farm:** RTK Data **Field:** SH 08 SE-E-60ac

- (256-257) Processing – Creating “Watersheds” & “Contours”
- (267) Field Prepping Data & Printing

RESET your “Root Data” to “GKData” when done with training.