**Explanation of files:**

Info\_Ecotones\_MMC.sas – SAS script for running each model, calculating AICc, and output results for comparison.

Models\_Info\_Eco\_Bound\_nocorr.xlsx – List of models evaluated with the ‘*Info\_Ecotones\_MMC.sas*’ script in this analysis.

DUST\_DATA.csv – data table containing county-level data for each period presented in this paper. Column headings are described below.

|  |  |
| --- | --- |
| FIPS | County federal information processing system code (FIPS) |
| in\_Co\_190 | designates whether county falls within study area |
| period | designates study period |
| Yield\_bu\_ac | Annual county corn crop yield |
| Prod\_g\_m2 | Plant biomass estimated from corn production |
| PPT\_wy | Total wateryear precipitation |
| Tmax\_gs | Average maximum temperature during growing season (Apr through Aug) |
| \_90FDays | Average number of days above 90F during April and May |
| Pcnt\_Cropland\_abnd | Sum of failed and fallow cropland / total croplan |
| Grassland | Grassland type |
| Eros\_pct | The proportion of a county experiencing erosion described as moderate or greater |
| disturb\_min | Minimum soil threshold shear velocity of disturbed agricultural lands |
| sand\_wt\_mean | Area weighted mean of a county's %sand |
| sandvf\_wt\_mean | Area weighted mean of a county's %very fine sand |
| silt\_wt\_mean | Area weighted mean of a county's %silt |
| disturbed\_wt\_mean | Average soil threshold shear velocity of disturbed agricultural lands |