Table S1: ANOVA results for Figure 1. ANOVA table reports tests of significance among Land Uses (conventional tillage, no tillage, forest succession) by aggregate attribute (Dry mean-weighted diameter, Wet mean-weighted diameter, Aggregate Stability {wet/dry}) and soil depth (0-5, 5-15, 15-28 cm).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| *Agg Attribute* | *Depth* | *Source* | *DF* | *SS* | *M1* | *F* | *Pr>F* |
| Dry MWD | 0-5 | Model | 2 | 0.809 | 0.404 | 1.27 | 0.326 |
|  |  | Error |  9 | 2.867 | 0.318 |  |  |
|  |  | Corrected Total | 11 | 3.677 |  |  |  |
|  | 5-15 | Model | 2 | 0.194 | 0.097 | 0.45 | 0.652 |
|  |  | Error |  9 | 1.945 | 0.216 |  |  |
|  |  | Corrected Total | 11 | 2.14 |  |  |  |
|  | 15-28 | Model | 2 | 0.009 | 0.005 | 0.02 | 0.980 |
|  |  | Error |  9 | 2.003 | 0.223 |  |  |
|  |  | Corrected Total | 11 | 2.012 |  |  |  |
|  |  |  |  |  |  |  |  |
| Wet MWD | 0-5 | Model | 2 | 4.423 | 2.211 | 5.87 | 0.023 |
|  |  | Error |  9 | 3.393 | 0.377 |  |  |
|  |  | Corrected Total | 11 | 7.816 |  |  |  |
|  | 5-15 | Model | 2 | 0.894 | 0.447 | 2.03 | 0.187 |
|  |  | Error |  9 | 1.981 | 0.220 |  |  |
|  |  | Corrected Total | 11 | 2.875 |  |  |  |
|  | 15-28 | Model | 2 | 2.411 | 1.206 | 10.78 | 0.004 |
|  |  | Error |  9 | 1.007 | 0.112 |  |  |
|  |  | Corrected Total | 11 | 3.418 |  |  |  |
|  |  |  |  |  |  |  |  |
| Aggregate | 0-5 | Model | 2 | 0.163 | 0.082 | 19.42 | 0.005 |
| Stability |  | Error |  9 | 0.038 | 0.004 |  |  |
|  |  | Corrected Total | 11 | 0.201 |  |  |  |
|  | 5-15 | Model | 2 | 0.061 | 0.031 | 8.69 | 0.008 |
|  |  | Error |  9 | 0.032 | 0.004 |  |  |
|  |  | Corrected Total | 11 | 0.093 |  |  |  |
|  | 15-28 | Model | 2 | 0.116 | 0.058 | 29.05 | 0.000 |
|  |  | Error |  9 | 0.018 | 0.002 |  |  |
|  |  | Corrected Total | 11 | 0.134 |  |  |  |