|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Source of variation | CC biomass | Weed biomass | | Soybean biomass |
| May | May | July | July |
| Treatment | Mg ha-1 | | | |
| No-CC tilled | - | 0.38 | 0.42 | 1.57 |
| Small grains | 1.53 | 0.46 | 2.34 | 0.70 |
| Mustards | 1.55 | 0.32 | 2.62 | 0.64 |
| No-CC weedy | - | 0.85 | 3.36 | 0.95 |
| ANOVA |  |  |  |  |
| d.f. | 1 | 3 | 3 | 3 |
| P-value | 0.906 | <0.001 | <0.001 | <0.001 |
| Year |  |  |  |  |
| 2017 | 3.10 | 0.31 | 2.53 | . |
| 2018 | 0.69 | 1.13 | 2.81 | 0.71 |
| 2019 | 0.82 | 0.06 | 1.74 | 1.22 |
| ANOVA |  |  |  |  |
| d.f. | 2 | 2 | 2 | 1 |
| P-value | <0.001 | <0.001 | 0.300 | 0.026 |
| Treatment × Year |  |  |  |  |
| No-CC tilled |  |  |  |  |
| 2017 | - | 0.01 | . | . |
| 2018 | - | 1.01 | 0.71 | 1.33 |
| 2019 | - | 0.11 | 0.14 | 1.82 |
| Small grains | . |  |  |  |
| 2017 | 3.64 | 0.02 | 0.83 | . |
| 2018 | 0.40 | 1.29 | 3.82 | 0.51 |
| 2019 | 0.54 | 0.08 | 2.39 | 0.90 |
| Mustards |  |  |  |  |
| 2017 | 2.56 | 0.03 | 2.86 | . |
| 2018 | 0.98 | 0.91 | 3.33 | 0.47 |
| 2019 | 1.11 | 0.01 | 1.66 | 0.81 |
| No-CC weedy | , |  |  |  |
| 2017 | - | 1.18 | 3.91 | . |
| 2018 | - | 1.32 | 3.37 | 0.53 |
| 2019 | - | 0.04 | 2.79 | 1.37 |
| ANOVA |  |  |  |  |
| d.f. | 2 | 6 | 6 | 3 |
| P-value | <0.001 | <0.001 | 0.003 | 0.467 |

Supplemental table. Source of variation (treatment, year, and interaction), degrees of freedom (d.f.), and P-value for cover crops (CC) biomass (in May at termination), weed biomass (in May at CC termination, in July in early-season soybean), and soybean biomass (in July). Treatment were small grains (oats and barley), mustards (yellow and brown mustard), no-CC tilled and no-CC weedy. Degrees of freedom vary, because not all treatments and/or years were included in each ANOVA.