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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 2. Corn stover removal and grazing management impacts on carbon dioxide and nitrous oxide gas fluxes measured in 2014. | | | | | | | | |
| **Study Site** | **Stover removal %** | **May** | **June** | **July** | **Aug** | **Sept** | **Oct** | **Cumulative averages** |
| **CO2 fluxes (g CO2-C m-2 day-1)** | | | | | | | | |
| Rogers Memorial Farm (eastern NE) | 0 | 3.8 | 3.2 | 2.9 | 2.3 | 2.6 | 2.9 | 2.9 |
| 50 | 4.0 | 3.1 | 2.9 | 2.4 | 2.6 | 2.9 | 3.0 |
| 100 | 4.0 | 3.1 | 2.5 | 2.5 | 2.5 | 2.8 | 2.9 |
| *LSD* | *0.4* | *0.6* | *0.8* | *0.3* | *0.3* | *0.2* | *0.3* |
| Brule (west central NE) | Bailing | 3.4 | 6.7 | 7.6 | 6.0 | 4.4 | 3.3 | 5.2 |
| Heavy grazing | 3.4 | 5.4 | 6.2 | 5.0 | 4.7 | 3.5 | 4.7 |
| Light grazing | 3.4 | 5.6 | 6.4 | 5.3 | 3.8 | 3.1 | 4.6 |
| Control | 3.5 | 5.7 | 6.6 | 4.9 | 4.4 | 3.3 | 4.7 |
| *LSD* | *0.3* | *1.3* | *1.4* | *1.0* | *0.9* | *0.3* | *0.7* |
| **NO2 fluxes (g NO2-N ha-2 day-1)** | | | | | | | | |
| Rogers Memorial Farm (eastern NE) | 0 | 6.6 | 4.6 | 4.0 | 4.4 | 4.4 | 4.7 | 4.8 |
| 50 | 7.3 | 4.7 | 4.0 | 4.4 | 4.5 | 4.8 | 4.9 |
| 100 | 7.7 | 4.7 | 4.0 | 4.4 | 4.4 | 4.7 | 5.0 |
| *LSD* | *2.2* | *0.2* | *0.1* | *0.0* | *0.1* | *0.3* | *0.4* |
| Brule (west central NE) | Bailing | 6.0 | 5.8 | 4.7ab† | 4.6 | 5.2 | 4.8 | 5.2 |
| Heavy grazing | 5.8 | 5.7 | 4.8a | 5.7 | 4.8 | 4.6 | 5.3 |
| Light grazing | 6.3 | 5.8 | 4.4b | 4.6 | 4.9 | 4.6 | 5.1 |
| Control | 5.9 | 5.7 | 5.0a | 4.8 | 4.9 | 4.7 | 5.2 |
| *LSD* | *0.9* | *0.2* | *0.4* | *1.8* | *0.6* | *0.2* | *0.4* |