Supplementary Material

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table S1. Percent composition (%) of bermudagrass and weeds in response to fall and spring herbicide treatments in bermudagrass pastures. | | | | | | | | | | | |
|  |  |  |  | Harvesta | | | | | |  | |
|  |  |  |  | 1 | | 2 | | 3 | | Totalc | |
| Species | Timingb | Herbicide | Rate | Composition | | | | | | | |
|  |  |  | \_\_\_kg ai ha-1\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_%d\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | | |
| Bermudagrass | Fall |  |  |  |  |  |  |  |  |  |  |
|  |  | Control | -- | 44 | a | 49 | a | 36 | a | 41 | b |
|  |  | Glyphosate – Lowe | 0.35 | 48 | a | 49 | a | 38 | a | 42 | ab |
|  |  | Glyphosate – Highe | 0.70 | 51 | a | 45 | a | 35 | a | 39 | b |
|  |  | Nicosulfuron + Metsulfuron | 0.07  0.01 | 58 | a | 60 | a | 48 | a | 53 | a |
|  |  | Hexazinone | 1.35 | 45 | a | 52 | a | 36 | a | 42 | ab |
|  | Spring |  |  |  |  |  |  |  |  |  |  |
|  |  | Control | -- | 42 | A | 45 | A | 26 | B | 32 | B |
|  |  | Indaziflamf | 0.07 | 53 | A | 54 | A | 44 | A | 47 | A |
|  |  | Pendimethalinf | 4.46 | 52 | A | 55 | A | 45 | A | 51 | A |
|  | Fall x Spring | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_No Significance\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Knotroot foxtail | Fall |  |  |  |  |  |  |  |  |  |  |
|  |  | Control | -- | 22 | a | 31 | a | 48 | a | 38 | a |
|  |  | Glyphosate – Lowe | 0.35 | 21 | a | 31 | a | 45 | a | 37 | a |
|  |  | Glyphosate – Highe | 0.70 | 25 | a | 36 | a | 51 | a | 43 | a |
|  |  | Nicosulfuron + Metsulfuron | 0.07  0.01 | 20 | a | 28 | a | 35 | a | 32 | a |
|  |  | Hexazinone | 1.35 | 30 | a | 31 | a | 46 | a | 42 | a |
|  | Spring |  |  |  |  |  |  |  |  |  |  |
|  |  | Control | -- | 15 | B | 28 | A | 53 | A | 40 | A |
|  |  | Indaziflamf | 0.07 | 33 | A | 37 | A | 44 | AB | 44 | A |
|  |  | Pendimethalinf | 4.46 | 23 | AB | 29 | A | 38 | B | 30 | B |
|  | Fall x Spring | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_No Significance\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Horsenettle | Fall |  |  |  |  |  |  |  |  |  |  |
|  |  | Control | -- | 8 | a | 3 | a | 4 | a | 3 | a |
|  |  | Glyphosate – Lowe | 0.35 | 12 | a | 3 | a | 5 | a | 4 | a |
|  |  | Glyphosate – Highe | 0.70 | 11 | a | 4 | a | 4 | a | 4 | a |
|  |  | Nicosulfuron + Metsulfuron | 0.07  0.01 | 11 | a | 3 | a | 6 | a | 5 | a |
|  |  | Hexazinone | 1.35 | 11 | a | 5 | a | 7 | a | 3 | a |
|  | Spring |  |  |  |  |  |  |  |  |  |  |
|  |  | Control | -- | 12 | A | 5 | A | 4 | A | 5 | B |
|  |  | Indaziflamf | 0.07 | 10 | A | 3 | A | 6 | A | 3 | B |
|  |  | Pendimethalinf | 4.46 | 10 | A | 4 | A | 6 | A | 3 | A |
|  | Fall x Spring | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_No Significance\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | | | | |
| Large crabgrass | Fall |  |  |  |  |  |  |  |  |  |  |
|  |  | Control | -- | 3 | a | 3 | a | 13 | a | 5 | a |
|  |  | Glyphosate – Lowe | 0.35 | 8 | a | 7 | a | 15 | a | 9 | a |
|  |  | Glyphosate – Highe | 0.70 | 3 | a | 15 | a | 41 | a | 8 | a |
|  |  | Nicosulfuron + Metsulfuron | 0.07  0.01 | 4 | a | 2 | a | 12 | a | 5 | a |
|  |  | Hexazinone | 1.35 | 5 | a | 4 | a | 16 | a | 7 | a |
|  | Spring |  |  |  |  |  |  |  |  |  |  |
|  |  | Control | -- | 9 | A | 9 | A | 19 | A | 9 | A |
|  |  | Indaziflamf | 0.07 | 2 | B | 6 | A | 8 | A | 4 | A |
|  |  | Pendimethalinf | 4.46 | 3 | AB | 3 | A | 32 | A | 6 | A |
|  | Fall x Spring | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_No Significance\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | | | | |
| a Harvest data combined across location and year (4 site-years). Harvests 1, 2, and 3 were conducted approximately June 15, July 15, and August 15 respectively.  b Fall applications were made on October 11, 2019; October 22, 2019; October 30, 2020; and November 2, 2020. Spring Applications were made on February 21, 2020, and February 19, 2021.  c Total percentages are the biomass totals from Harvest 1-3 calculated by dividing into the total yearly total weight of all biomass combined  d Means within a column followed by the same letter and letter case are not significantly different at α ≤ 0.05 according to Tukey’s HSD.  e Treatments including Nicosulfuron + Metsulfuron in the fall application all included a non-ionic surfactant at 0.25% v/v.  f Spring applications of indaziflam and pendimethalin included Glyphosate at 0.70 kg ai ha-1that included a non-ionic surfactant at 0.25% v/v. | | | | | | | | | | | |