**Accomplishments/Milestones**

Table 1. Mean (± SE) biomass of ventenata from post-treatment data within high ventenata infestation timothy hay plots. P-values represent pair-wise comparison of each treatment to control.

|  |  |  |  |
| --- | --- | --- | --- |
| Treatment | Mean | SE | *P*-value |
| 10 cm harvest and fertilize + flufenacet plus metribuzin | 26.21 a | ±87.4 | 0.0007 |
| 5 cm harvest and fertilize + flufenacet plus metribuzin | 34.62 a | ±87.4 | 0.0025 |
| 5 cm harvest + flufenacet plus metribuzin | 63.55 a | ±87.4 | 0.0035 |
| 10 cm harvest + flufenacet plus metribuzin | 109.5 a | ±87.4 | 0.0016 |
| 5 cm harvest and fertilize | 408.1 b | ±87.4 | 0.0805 |
| 10 cm harvest and fertilize | 609.6 b | ±87.4 | 0.0933 |
| 5 cm harvest control | 1005 b | ±87.4 | – |
| 10 cm harvest control | 1258 b | ±87.4 | – |

Treatments with the same letter are non-significant from each other.

Table 2. Mean (± SE) biomass of ventenata from post-treatment data within low ventenata infestation timothy hay plots. P-values represent pair-wise comparison of each treatment to control.

|  |  |  |  |
| --- | --- | --- | --- |
| Treatment | Mean | SE | *P*-value |
| 5 cm harvest and fertilize + flufenacet plus metribuzin | 15.62 a | ±87.4 | 0.5549 |
| 10 cm harvest and fertilize + flufenacet plus metribuzin | 20.33 a | ±87.4 | 0.9126 |
| 10 cm harvest + flufenacet plus metribuzin | 24.69 a | ±87.4 | 0.9324 |
| 5 cm harvest + flufenacet plus metribuzin | 31.36 a | ±87.4 | 0.6148 |
| 10 cm harvest control | 39.83 a | ±87.4 | – |
| 10 cm harvest and fertilize | 117.9 a | ±87.4 | 0.6783 |
| 5 cm harvest control | 126.4 a | ±87.4 | – |
| 5 cm harvest and fertilize | 168.7 a | ±87.4 | 0.8348 |

Treatments with the same letter are non-significant from each other.

Table 3. Mean (± SE) biomass of forage from post-treatment data in timothy hay plots expressed as kg/ha. P-values represent pair-wise comparison of each treatment to control.

|  |  |  |  |
| --- | --- | --- | --- |
| Treatment | Mean | SE | *P*-value |
| 5 cm harvest and fertilize + flufenacet plus metribuzin | 4543.06 a | ±825.3 | <0.0001 |
| 10 cm harvest and fertilize + flufenacet plus metribuzin | 4071.81 a b | ±825.3 | 0.0013 |
| 10 cm harvest and fertilize | 3923.78 a b | ±825.3 | 0.0021 |
| 5 cm harvest and fertilize | 3385.91 b c | ±825.3 | 0.0011 |
| 10 cm harvest + flufenacet plus metribuzin | 3019.35 c d | ±825.3 | 0.1747 |
| 10 cm harvest control | 2551.12 d e | ±825.3 | – |
| 5 cm harvest + flufenacet plus metribuzin | 2268.95 e | ±825.3 | 0.4391 |
| 5 cm harvest control | 2048.98 e | ±825.3 | – |

Treatments with the same letter are non-significant from each other.

Table 4. Mean (± SE) biomass of ventenata from post-treatment data within high ventenata infestation CRP plots. P-values represent pair-wise comparison of each treatment to control.

|  |  |  |  |
| --- | --- | --- | --- |
| Treatment | Mean | SE | *P*-value |
| spring burn + sulfosulfuron | 4.28 a | ±5 | 0.0002 |
| mow remove + sulfosulfuron | 5.65 a | ±5 | 0.0003 |
| fall burn + sulfosulfuron | 6.46 a | ±5 | 0.0003 |
| rotary mow + sulfosulfuron | 11.17 a b | ±5 | 0.0006 |
| fertilize + sulfosulfuron | 17.19 a b | ±5 | 0.0016 |
| sulfosulfuron only | 19.14 a b | ±5 | 0.0021 |
| fall burn only | 27.58 a b | ±5 | 0.007 |
| spring burn only | 40.07 b | ±5 | 0.0342 |
| control | 83.88 c | ±5 | – |
| fertilize only | 100.35 c | ±5 | 0.4541 |
| rotary mow only | 106.78 c | ±5 | 0.3073 |
| mow remove only | 116.98 c | ±5 | 0.1514 |

Treatments with the same letter are non-significant from each other.

Table 5. Mean (± SE) biomass of ventenata from post-treatment data within low ventenata infestation CRP plots. P-values represent pair-wise comparison of each treatment to control.

|  |  |  |  |
| --- | --- | --- | --- |
| Treatment | Mean | SE | *P*-value |
| fall burn + sulfosulfuron | 1.8 a | ±5 | 0.102 |
| sulfosulfuron only | 3.02 a | ±5 | 0.1186 |
| mow remove + sulfosulfuron | 4.38 a | ±5 | 0.1393 |
| fertilize + sulfosulfuron | 8.18 a b | ±5 | 0.2117 |
| fall burn only | 12.88 a b | ±5 | 0.3347 |
| spring burn + sulfosulfuron | 14.21 a b | ±5 | 0.3773 |
| rotary mow + sulfosulfuron | 15.09 a b | ±5 | 0.4059 |
| control | 29.05 a b c | ±5 | – |
| spring burn only | 32.77 a b c | ±5 | 0.8288 |
| rotary mow only | 39.96 b c d | ±5 | 0.5375 |
| mow remove only | 50.74 c d | ±5 | 0.2352 |
| fertilize only\* | 70.41 d | ±5 | 0.0358 |

Treatments with the same letter are non-significant from each other.

Table 6. Mean (± SE) biomass of forage from post-treatment data in CRP plots expressed as kg/ha. P-values represent pair-wise comparison of each treatment to control.

|  |  |  |  |
| --- | --- | --- | --- |
| Treatment | Mean | SE | *P*-value |
| fall burn + sulfosulfuron | 330.02 a | ±46.4 | 0.0165 |
| mow remove + sulfosulfuron | 271.13 a b | ±46.4 | 0.1292 |
| spring burn + sulfosulfuron | 256.26 a b c | ±46.4 | 0.2121 |
| spring burn only | 248.23 a b | ±46.4 | 0.2887 |
| fertilize + sulfosulfuron | 233.16 a b c | ±46.4 | 0.4331 |
| sulfosulfuron only | 231.82 a b c | ±46.4 | 0.4504 |
| fall burn only | 229.83 a b c | ±46.4 | 0.4763 |
| rotary mow only | 228.01 a b c | ±46.4 | 0.5015 |
| rotary mow + sulfosulfuron | 208.17 b c | ±46.4 | 0.8299 |
| fertilize only | 202.32 b c | ±46.4 | 0.9438 |
| control | 199.51 b c | ±46.4 | – |
| mow remove only | 167.17 c | ±46.4 | 0.3782 |

Treatments with the same letter are non-significant from each other.