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| Table 3.1. Sprinkler irrigated site: Effect of living mulches on corn grain yields in 2010. |
|  | Glyphosate (kg a.e./ha) |  | Paraquat (kg a.i/ha) |  |
|   | 1.0 | 1.5 | 2.0 |  | 0.7 | Avg. |
|  | -------------------------------DM yield (Mg/ha)------------------------------ |
| Birdsfoot trefoil |  13.0 aB § |  15.3 aAB | 16.4 aA |  |  12.9 abB | 14.4 |
| Clover mix | 15.4 aA | 15.1 aA |  14.0 abA |  | 10.4 bB | 13.7 |
| White clover | 15.6 aA | 13.6 aA |  13.1 bA |  |  12.9 abA | 13.8 |
| Conventional (no legume) | 15.1 aA | 15.6 aA | 16.3 aA |  | 15.6 aA | 15.6 |
| Avg. |  14.8 |  14.9 |  14.9 |  |  13.0 |  |
| §The interaction of legume treatment by annual crop was significant. Legume treatments followed by the same lowercase letter are not different while spray treatments followed by the same uppercase letter are not different. All differences were declared significant at the 0.05 probability level. |

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| Table 3.2. Sprinkler irrigated site: Legume biomass after corn grain harvest in fall 2010. |
|  | Glyphosate (kg a.e./ha) |  | Paraquat (kg a.i/ha) |  |
|   | 1.0 | 1.5 | 2.0 |  | 0.7 | Avg. |
|  | ---------------------------------------DM yield (kg/ha)------------------------------------ |
| Birdsfoot trefoil |  0 bB § | 0 bB |  0 bB |  | 50 aA | 12 |
| Clover mix | 70 aA | 39 aA | 47 aA |  | 47 aA | 51 |
| White clover | 37 aA | 43 aA |  1 bB |  |  1 bB | 20 |
| Avg. |  36 |  27 |  16 |  |  33 |  |
| §The interaction of legume treatment by annual crop was significant. Legume treatments followed by the same lowercase letter are not different while spray treatments followed by the same uppercase letter are not different. All differences were declared significant at the 0.05 probability level. |

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| Table 3.3. Furrow irrigated site: Effect of living mulches on corn grain yields in 2010. |
|  | Glyphosate (kg a.e./ha) |  |
|   | 1.0 | 1.5 | 2.0 | Avg. |
|  | -----------------------------DM yield (Mg/ha)---------------------------- |
| Birdsfoot trefoil |  12.5 § | 13.8 | 13.4 |  13.2 a † |
| Clover mix | 11.0 | 12.1 | 12.4 | 11.8 b |
| White clover | 11.3 | 12.1 | 12.4 | 11.9 b |
| Avg. |  11.6 ‡ | 12.7 | 12.7 |  |
| §The interaction of legume treatment by spray rate was not significant at the 0.05 probability level.†Legume treatment means followed by the same lowercase letter are not different at the 0.05 probability level.‡ The effect of spray rate was not significant at the 0.05 probability level. |

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| Table 3.4. Furrow irrigated site: Legume biomass after corn grain harvest in fall 2010. |
|  | Glyphosate (kg a.e./ha) | Avg. |
|   | 1.0 | 1.5 | 2.0 |
|  | -------------------------------DM yield (kg ha)----------------------------- |
| Birdsfoot trefoil |  3 § |  1 | 28 |  11 b † |
| Clover mix | 420 | 339 | 201 | 320 a |
| White clover | 320 | 416 | 293 | 343 a |
| Avg. |  248 ‡ | 252 | 174 |  |
| §The interaction of legume treatment by spray rate was not significant at the 0.05 probability level.† Legume treatment means followed by the same lowercase letter are not different at the 0.05 probability level.‡ The effect of spray rate was not significant at the 0.05 probability level. |