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| **Supplementary Table S2.** Regression parameter estimates for the three-parameter log-logistic model fit to describe plant visible injury 14 and 28 days after application (DAA), and plant survival 28 DAA as a function of fluroxypyr dose when applied to 17 kochia populations collected from western Canada. |
|  | Regression parametersa |
|  | 14 DAA |  | 28 DAA |
|  | Visible injury |  | Visible injury |  | Plant survival |
| Population | *d* (± SE) | *b* (± SE) | *e* (± SE) |  | *d* (± SE) | *b* (± SE) | *e* (± SE) |  | *d* (± SE) | *b* (± SE) | *e* (± SE) |
| Susceptible-1 | 123 (88) | -0.1 (0.1) | 4 (44) |  | 116 (180) | -0.2 (1.0) | 1 (3) |  | 95 (6) | 0.9 (0.6) | 1 (3) |
| Susceptible-2 | 73 (4) | -1.1 (0.6) | 11 (3) |  | 85 (4) | -1.3 (0.5) | 11 (3) |  | 97 (6) | 1.5 (0.4) | 14 (3) |
| Susceptible-3 | 83 (7) | -0.7 (0.3) | 8 (2) |  | 91 (5) | -0.9 (0.4) | 8 (3) |  | 79 (6) | 2.6 (0.7) | 19 (2) |
| Susceptible-4 | 80 (6) | -0.8 (0.3) | 11 (2) |  | 92 (8) | -0.7 (0.4) | 6 (3) |  | 100 (6) | 1.5 (0.5) | 10 (3) |
| Resistant | 74 (4) | -1.4 (0.2) | 42 (5) |  | 82 (5) | -1.3 (0.3) | 28 (4) |  | 82 (4) | 5.9 (2.5) | 44 (4) |
| Acadia | 78 (4) | -1.1 (0.2) | 21 (3) |  | 83 (3) | -1.8 (0.5) | 17 (2) |  | 100 (6) | 2.5 (0.6) | 18 (2) |
| Cypress-1 | 108 (181) | -0.2 (0.5) | 6 (108) |  | 85 (5) | -1.0 (0.7) | 5 (4) |  | 97 (6) | 1.1 (0.4) | 6 (4) |
| Cypress-2 | 118 (127) | -0.2 (0.3) | 23 (239) |  | 86 (3) | -1.8 (1.7) | 8 (6) |  | 97 (6) | 2.7 (1.1) | 15 (2) |
| Lethbridge-1 | 82 (9) | -0.8 (0.2) | 49 (16) |  | 88 (9) | -0.9 (0.3) | 33 (8) |  | 101 (6) | 1.4 (0.2) | 26 (4) |
| Lethbridge-2 | 82 (4) | -0.8 (0.3) | 7 (3) |  | 91 (2) | -2.2 (0.9) | 12 (2) |  | 91 (6) | 2.4 (0.6) | 20 (2) |
| Lethbridge-3 | 80 (17) | -1.8 (0.5) | 290 (82) |  | 512 (925) | -1.1 (0.2) | 2,902 (5,888) |  | 81 (3) | 3.5 (3.1) | 620 (81) |
| Lethbridge-4 | 71 (4) | -1.8 (0.3) | 96 (11) |  | 102 (29) | -1.0 (0.2) | 202 (138) |  | 97 (6) | 0.8 (0.1) | 81 (18) |
| Rocky View | 45 (4) | -3.5 (1.0) | 205 (22) |  | 70 (14) | -2.1 (0.7) | 260 (69) |  | 94 (4) | 1.4 (0.6) | 798 (221) |
| Taber | 76 (5) | -0.9 (0.3) | 10 (3) |  | 84 (4) | -1.1 (0.4) | 10 (3) |  | 100 (6) | 2.5 (0.8) | 15 (2) |
| Vulcan | 69 (4) | -1.7 (0.3) | 87 (9) |  | 74 (5) | -1.7 (0.4) | 74 (11) |  | 100 (6) | 0.7 (0.1) | 40 (10) |
| Warner-1 | 121 (35) | -0.4 (0.1) | 398 (614) |  | 139 (37) | -0.4 (0.1) | 357 (486) |  | 104 (6) | 1.4 (0.3) | 29 (4) |
| Warner-2 | 69 (3) | -1.1 (0.4) | 11 (3) |  | 81 (3) | -1.4 (0.6) | 12 (3) |  | 100 (6) | 2.0 (0.6) | 14 (2) |
|  | *RSE* = 7.26 |  | *RSE* = 9.82 |  | *RSE* = 13.89 |
| **Abbreviations:** *b*, slope of the response curve at the inflection point; *d*, upper asymptote; DAA, days after application; *e*, response curve inflection point; RSE, residual standard error.aValues are means, while parenthetical values are the SE. |