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| **Supplementary Table S1.** 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 dicamba 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 | 93 (2) | -2.3 (0.3) | 58 (3) |  | 99 (2) | -2.5 (0.3) | 61 (3) |  | 81 (5) | 2.9 (0.6) | 59 (6) |
| Susceptible-2 | 94 (3) | -1.4 (0.2) | 58 (5) |  | 97 (2) | -2.0 (0.2) | 69 (4) |  | 100 (2) | 8.1 (3.0) | 66 (6) |
| Susceptible-3 | 90 (3) | -1.4 (0.2) | 87 (8) |  | 97 (3) | -1.8 (0.2) | 90 (6) |  | 95 (4) | 5.5 (1.4) | 89 (6) |
| Susceptible-4 | 86 (3) | -1.6 (0.2) | 67 (5) |  | 95 (3) | -1.8 (0.2) | 82 (5) |  | 100 (4) | 7.7 (3.3) | 111 (12) |
| Resistant | 89 (4) | -1.3 (0.2) | 130 (14) |  | 91 (4) | -1.6 (0.2) | 140 (12) |  | 91 (4) | 1.8 (0.3) | 174 (20) |
| Acadia | 84 (5) | -1.4 (0.2) | 181 (23) |  | 83 (5) | -1.5 (0.2) | 164 (19) |  | 104 (5) | 1.6 (0.2) | 167 (18) |
| Cypress-1 | 117 (29) | -0.9 (0.2) | 580 (342) |  | 149 (87) | -0.8 (0.2) | 1,158 (1,576) |  | 99 (5) | 1.1 (0.1) | 290 (44) |
| Cypress-2 | 94 (5) | -1.2 (0.1) | 132 (17) |  | 95 (4) | -1.4 (0.2) | 123 (13) |  | 99 (4) | 2.5 (0.4) | 103 (9) |
| Lethbridge-1 | 81 (3) | -1.5 (0.2) | 84 (8) |  | 86 (3) | -1.7 (0.2) | 98 (8) |  | 102 (4) | 3.8 (1.0) | 103 (6) |
| Lethbridge-2 | 89 (4) | -1.4 (0.2) | 125 (14) |  | 90 (4) | -1.6 (0.2) | 125 (11) |  | 78 (4) | 2.0 (0.4) | 153 (19) |
| Lethbridge-3 | 84 (3) | -1.5 (0.2) | 132 (12) |  | 93 (3) | -1.7 (0.2) | 153 (12) |  | 98 (3) | 3.0 (0.5) | 160 (11) |
| Lethbridge-4 | 86 (4) | -1.4 (0.2) | 109 (11) |  | 90 (3) | -1.7 (0.2) | 119 (10) |  | 101 (4) | 2.2 (0.3) | 116 (10) |
| Rocky View | 87 (3) | -1.3 (0.2) | 77 (7) |  | 97 (3) | -1.5 (0.2) | 94 (8) |  | 95 (4) | 3.9 (0.8) | 94 (7) |
| Taber | 90 (5) | -1.1 (0.2) | 98 (14) |  | 89 (3) | -1.6 (0.2) | 85 (7) |  | 103 (4) | 2.6 (0.5) | 95 (7) |
| Vulcan | 85 (4) | -1.2 (0.2) | 80 (8) |  | 92 (3) | -1.4 (0.2) | 88 (8) |  | 101 (4) | 3.8 (0.7) | 101 (7) |
| Warner-1 | 88 (5) | -1.1 (0.2) | 118 (18) |  | 93 (5) | -1.2 (0.2) | 131 (17) |  | 100 (4) | 2.1 (0.3) | 141 (13) |
| Warner-2 | 81 (3) | -1.5 (0.2) | 104 (10) |  | 86 (3) | -1.6 (0.2) | 115 (10) |  | 98 (4) | 3.0 (0.6) | 139 (10) |
|  | *RSE* = 6.87 |  | *RSE* = 7.44 |  | *RSE* = 12.64 |
| **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. |