**Appendix 1.** Mean density (standard error) of weeds with stems > 5 cm long, arranged by crop-year and system. Part A: initially important species and totals over all species except *Stellaria media*. *Stellaria media* were counted in early years but when extensive mats made counting individuals impossible, percentage cover was estimated.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Year | Crop | Entry  point | System | *Stellaria*  *media*a | | | *Chenopodium*  *album* | | *Amaranthu*s  spp. | | Total | |
|  |  |  |  | --------------------------------------------------- m-2 ------------------------------------------ | | | | | | | | |
| 2004 | Sweet | 1 | Intensive | 47.3 | (4.5) | C | 4.5 | (1.2) | 9.3 | (4.8) | 32.3 | (7.4) |
|  | corn |  | Intermediate | 62.8 | (29.2) | C | 1.5 | (0.9) | 3.5 | (1.8) | 28.8 | (8.9) |
|  |  |  | Bio-extensive | 59.0 | (14.5) | C | 2.8 | (0.6) | 6.5 | (3.7) | 29.8 | (11.4) |
|  |  |  | Ridge tillage | 45.5 | (8.6) | C | 2.3 | (1.7) | 2.3 | (1.7) | 13.0 | (3.6) |
|  |  |  | Overall | 53.6 | (7.9) | C | 2.8 | (0.6) | 5.4 | (1.6) | 25.9 | (4.2) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2005 | Sweet | 2 | Intensive | 4.3 | (3.1) | C | 24.5 | (10.3) | 79.3 | (3.9) | 114.0 | (13.6) |
|  | corn |  | Intermediate | 5.0 | (3.4) | C | 13.0 | (4.6) | 66.8 | (6.1) | 100.5 | (3.9) |
|  |  |  | Bio-extensive | 15.3 | (5.1) | C | 10.3 | (5.8) | 82.5 | (26.4) | 104.0 | (22.3) |
|  |  |  | Ridge tillage | 7.5 | (2.7) | C | 3.0 | (0.7) | 15.8 | (6.3) | 55.8 | (29.0) |
|  |  |  | Overall | 8.0 | (2.0) | C | 12.7 | (3.5) | 61.1 | (9.3) | 93.6 | (10.5) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2005 | Cabbage | 1 | Intensive | 93.5 | (14.9) | C | 9.8 | (7.1) | 20.0 | (7.5) | 22.3 | (9.3) |
|  |  |  | Intermediate | 218.3 | (85.0) | C | 1.8 | (1.4) | 3.8 | (1.3) | 28.0 | (12.8) |
|  |  |  | Ridge tillage | 343.5 | (53.5) | C | 6.0 | (2.1) | 0.3 | (0.3) | 60.3 | (13.3) |
|  |  |  | Overall | 218.4 | (43.4) | C | 5.8 | (2.5) | 8.0 | (3.5) | 36.8 | (8.0) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2006 | Cabbage | 2 | Intensive | 156.0 | (65.6) | C | 0.3 | (0.3) | 11.3 | (0.5) | 2518.0 | (0.5) |
|  |  |  | Intermediate | 301.5 | (70.9) | C | 0.8 | (0.3) | 9.5 | (2.5) | 2977.3 | (15.3) |
|  |  |  | Ridge tillage | 780.0 | (52.2) | C | 0.5 | (0.5) | 6.3 | (1.3) | 4516.0 | (40.0) |
|  |  |  | Overall | 412.5 | (86.9) | C | 0.5 | (0.2) | 9.0 | (1.1) | 39.8 | (15.5) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2006 | Lettuce | 1 | Intensive | 18.8 | (3.4) | C | 3.0 | (0.4) | 25.3 | (10.0) | 36.3 | (7.5) |
|  |  |  | Intermediate | 18.8 | (3.6) | C | 1.3 | (0.5) | 10.3 | (3.3) | 14.5 | (4.3) |
|  |  |  | Bio-extensive | 8.3 | (2.0) | C | 1.3 | (0.9) | 3.0 | (0.9) | 14.5 | (3.9) |
|  |  |  | Ridge tillage | 9.0 | (4.0) | C | 3.5 | (1.4) | 1.5 | (1.0) | 14.0 | (4.5) |
|  |  |  | Overall | 13.7 | (2.0) | C | 2.3 | (0.5) | 10.0 | (3.4) | 19.8 | (3.4) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2007 | Lettuce | 2 | Intensive | 0.0 | (0.0) | C | 1.8 | (1.0) | 113.0 | (15.0) | 118.0 | (16.0) |
|  |  |  | Intermediate | 0.3 | (0.3) | C | 0.3 | (0.3) | 127.0 | (41.9) | 134.8 | (42.0) |
|  |  |  | Bio-extensive | 1.0 | (0.7) | C | 1.8 | (0.6) | 27.8 | (8.2) | 33.0 | (8.1) |
|  |  |  | Ridge tillage | 2.5 | (0.9) | C | 1.8 | (1.1) | 68.8 | (25.8) | 80.8 | (26.9) |
|  |  |  | Overall | 0.9 | (0.4) | C | 1.4 | (0.4) | 84.1 | (15.4) | 91.6 | (15.6) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2007 | Potato | 1 | Intensive | 57.8 | (14.6) | C | 3.8 | (1.3) | 7.5 | (2.4) | 66.3 | (17.7) |
|  |  |  | Intermediate | 27.5 | (16.8) | C | 5.5 | (3.5) | 4.8 | (1.8) | 49.0 | (16.2) |
|  |  |  | Ridge tillage | 21.3 | (11.1) | C | 6.8 | (1.9) | 6.5 | (1.8) | 43.0 | (3.4) |
|  |  |  | Overall | 35.5 | (8.9) | C | 5.3 | (1.3) | 6.3 | (1.1) | 52.8 | (7.9) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2008 | Potato | 2 | Intensive | 130.0 | (61.8) | % | 1.3 | (1.3) | 0.0 | (0.0) | 44.5 | (18.9) |
|  |  |  | Intermediate | 35.0 | (8.6) | % | 0.3 | (0.3) | 0.0 | (0.0) | 6.8 | (2.3) |
|  |  |  | Ridge tillage | 29.3 | (7.0) | % | 2.0 | (0.8) | 0.0 | (0.0) | 28.5 | (6.7) |
|  |  |  | Overall | 64.8 | (23.5) | % | 1.2 | (0.5) | 0.0 | (0.0) | 26.6 | (7.7) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2008 | Winter | 1 | Intensive | 0.2 | (0.0) | % | 1.0 | (0.6) | 11.8 | (3.9) | 225.0 | (87.5) |
|  | squash |  | Intermediate | 0.3 | (0.1) | % | 0.5 | (0.3) | 6.0 | (1.5) | 59.8 | (22.5) |
|  |  |  | Bio-extensive | 0.2 | (0.0) | % | 0.5 | (0.3) | 1.3 | (0.6) | 14.5 | (1.3) |
|  |  |  | Ridge tillage | 0.6 | (0.1) | % | 3.8 | (1.8) | 7.5 | (4.3) | 69.5 | (10.6) |
|  |  |  | Overall | 0.4 | (0.0) | % | 1.4 | (0.5) | 6.6 | (1.7) | 92.2 | (28.9) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2009 | Winter | 2 | Intensive | 0.3 | (0.0) | % | 3.0 | (1.7) | 34.0 | (8.1) | 49.5 | (7.0) |
|  | squash |  | Intermediate | 0.4 | (0.0) | % | 0.5 | (0.3) | 23.8 | (7.4) | 46.5 | (9.3) |
|  |  |  | Bio-extensive | 0.1 | (0.0) | % | 0.0 | (0.0) | 7.8 | (1.4) | 16.8 | (2.3) |
|  |  |  | Ridge tillage | 0.4 | (0.0) | % | 2.0 | (0.4) | 20.8 | (5.0) | 105.3 | (11.2) |
|  |  |  | Overall | 0.3 | (0.0) | % | 1.4 | (0.5) | 21.6 | (3.6) | 54.5 | (9.0) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2009 | Cabbage | 1 | Intensive | 0.0 | (0.0) | % | 0.5 | (0.5) | 10.3 | (4.1) | 27.3 | (7.9) |
|  |  |  | Intermediate | 0.1 | (0.0) | % | 1.8 | (0.9) | 9.8 | (2.1) | 22.5 | (2.6) |
|  |  |  | Ridge tillage | 0.1 | (0.0) | % | 2.5 | (2.2) | 6.3 | (2.6) | 26.8 | (8.5) |
|  |  |  | Overall | 0.1 | (0.0) | % | 1.6 | (0.8) | 8.8 | (1.7) | 25.5 | (3.7) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2010 | Cabbage | 2 | Intensive | 0.0 | (0.0) | % | 2.3 | (0.6) | 7.5 | (2.2) | 20.3 | (4.8) |
|  |  |  | Intermediate | 0.0 | (0.0) | % | 1.3 | (0.5) | 9.3 | (6.7) | 45.3 | (15.3) |
|  |  |  | Ridge tillage | 0.2 | (0.0) | % | 7.3 | (2.8) | 10.8 | (2.9) | 183.8 | (42.3) |
|  |  |  | Overall | 0.1 | (0.0) | % | 3.6 | (1.2) | 9.2 | (2.3) | 83.1 | (25.6) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2010 | Lettuce | 1 | Intensive | 0.0 | (0.0) | % | 8.8 | (2.8) | 18.5 | (2.5) | 59.5 | (12.4) |
|  |  |  | Intermediate | 0.0 | (0.0) | % | 4.3 | (1.7) | 17.5 | (3.0) | 58.3 | (15.1) |
|  |  |  | Bio-extensive | 0.0 | (0.0) | % | 0.0 | (0.0) | 3.3 | (1.3) | 12.8 | (4.9) |
|  |  |  | Ridge tillage | 0.0 | (0.0) | % | 6.0 | (3.1) | 41.0 | (9.7) | 122.5 | (14.5) |
|  |  |  | Overall | 0.0 | (0.0) |  | 4.8 | (1.3) | 20.1 | (4.2) | 63.3 | (11.5) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2011 | Lettuce | 2 | Intensive | 31.0 | (7.1) | C | 4.3 | (1.7) | 52.5 | (5.8) | 75.8 | (2.2) |
|  |  |  | Intermediate | 48.3 | (19.9) | C | 2.8 | (0.9) | 54.5 | (7.0) | 84.8 | (8.7) |
|  |  |  | Bio-extensive | 5.8 | (3.3) | C | 3.3 | (1.3) | 17.3 | (1.9) | 28.5 | (3.1) |
|  |  |  | Ridge tillage | 43.3 | (25.9) | C | 8.8 | (5.3) | 147.0 | (34.8) | 205.0 | (31.5) |
|  |  |  | Overall | 32.1 | (8.6) | C | 4.8 | (1.4) | 67.8 | (14.8) | 98.5 | (18.3) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2011 | Potato | 1 | Intensive | 13.5 | (2.4) | C | 0.8 | (0.5) | 15.3 | (0.8) | 57.5 | (11.7) |
|  |  |  | Intermediate | 11.8 | (9.8) | C | 1.3 | (0.5) | 13.5 | (3.9) | 50.5 | (9.9) |
|  |  |  | Ridge tillage | 17.3 | (8.5) | C | 3.5 | (1.7) | 13.8 | (7.8) | 112.5 | (26.9) |
|  |  |  | Overall | 14.2 | (4.0) | C | 1.8 | (0.7) | 14.2 | (2.7) | 73.5 | (12.5) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2012 | Potato | 2 | Intensive | 14.3 | (6.9) | C | 9.8 | (3.9) | 44.0 | (5.1) | 89.3 | (25.3) |
|  |  |  | Intermediate | 8.5 | (4.3) | C | 2.8 | (1.1) | 53.8 | (8.1) | 82.5 | (8.7) |
|  |  |  | Ridge tillage | 53.5 | (16.9) | C | 5.0 | (2.4) | 50.3 | (4.0) | 113.5 | (11.6) |
|  |  |  | Overall | 25.4 | (8.3) | C | 5.8 | (1.7) | 49.3 | (3.3) | 95.1 | (9.7) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2012 | Winter | 1 | Intensive | 0.1 | (0.0) | % | 0.8 | (0.5) | 1.8 | (0.8) | 24.5 | (2.6) |
|  | squash |  | Intermediate | 0.0 | (0.0) | % | 0.3 | (0.3) | 5.3 | (2.6) | 28.5 | (8.6) |
|  |  |  | Bio-extensive | 0.0 | (0.0) | % | 0.0 | (0.0) | 2.0 | (0.4) | 12.3 | (3.4) |
|  |  |  | Ridge tillage | 0.1 | (0.0) | % | 0.5 | (0.3) | 26.0 | (2.4) | 279.5 | (49.3) |
|  |  |  | Overall | 0.1 | (0.0) | % | 0.4 | (0.2) | 8.8 | (2.7) | 86.2 | (31.0) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2013 | Winter | 2 | Intensive | 0.2 | (0.1) | % | 2.5 | (1.9) | 15.5 | (4.3) | 50.8 | (9.7) |
|  | squash |  | Intermediate | 0.2 | (0.1) | % | 0.8 | (0.5) | 17.8 | (6.5) | 35.3 | (5.6) |
|  |  |  | Bio-extensive | 0.0 | (0.0) | % | 0.5 | (0.5) | 6.3 | (0.9) | 26.3 | (6.0) |
|  |  |  | Ridge tillage | 0.4 | (0.0) | % | 2.8 | (0.8) | 30.5 | (9.6) | 159.3 | (23.9) |
|  |  |  | Overall | 0.2 | (0.0) | % | 1.6 | (0.5) | 17.5 | (3.6) | 67.9 | (15.1) |

a C, value is density; %, value is percentage cover.

Appendix 1 (continued). Part B: species that became abundant late in the experiment and minor species.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Year | Crop | Entry  point | System | *Digitaria*  *sanguinalis* | |  | *Portulaca*  *oleracea* | | *Galinsoga*  *quadriradiata* | | *Capsella*  *burs-pastoris* | | *Veronica*  *persica* | |
|  |  |  |  | --------------------------------------------------- m-2 ---------------------------------------------------------------- | | | | | | | | | | |
| 2004 | Sweet | 1 | Intensive | 0.5 | (0.5) |  | 0.5 | (0.5) | 0.0 | (0.0) | 5.3 | (1.8) | 1.0 | (0.6) |
|  | corn |  | Intermediate | 0.0 | (0.0) |  | 0.3 | (0.3) | 0.0 | (0.0) | 9.0 | (1.5) | 8.3 | (6.4) |
|  |  |  | Bio-extensive | 0.0 | (0.0) |  | 0.0 | (0.0) | 0.0 | (0.0) | 9.0 | (4.8) | 4.5 | (3.9) |
|  |  |  | Ridge tillage | 0.3 | (0.3) |  | 0.0 | (0.0) | 0.0 | (0.0) | 4.0 | (1.8) | 0.3 | (0.3) |
|  |  |  | Overall | 0.2 | (0.1) |  | 0.2 | (0.1) | 0.0 | (0.0) | 6.8 | (1.4) | 3.5 | (1.9) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2005 | Sweet | 2 | Intensive | 0.8 | (0.8) |  | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) |
|  | corn |  | Intermediate | 0.0 | (0.0) |  | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) |
|  |  |  | Bio-extensive | 0.0 | (0.0) |  | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) |
|  |  |  | Ridge tillage | 0.3 | (0.3) |  | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) |
|  |  |  | Overall | 0.3 | (0.2) |  | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2005 | Cabbage | 1 | Intensive | 0.0 | (0.0) |  | 0.0 | (0.0) | 0.0 | (0.0) | 2.5 | (0.5) | 0.0 | (0.0) |
|  |  |  | Intermediate | 0.0 | (0.0) |  | 0.0 | (0.0) | 0.0 | (0.0) | 16.3 | (7.4) | 0.0 | (0.0) |
|  |  |  | Ridge tillage | 0.0 | (0.0) |  | 0.3 | (0.3) | 0.0 | (0.0) | 18.3 | (4.3) | 0.0 | (0.0) |
|  |  |  | Overall | 0.0 | (0.0) |  | 0.1 | (0.1) | 0.0 | (0.0) | 12.3 | (3.3) | 0.0 | (0.0) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2006 | Cabbage | 2 | Intensive | 0.0 | (0.0) |  | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) |
|  |  |  | Intermediate | 0.0 | (0.0) |  | 0.0 | (0.0) | 0.0 | (0.0) | 2.0 | (1.1) | 5.0 | (3.1) |
|  |  |  | Ridge tillage | 0.0 | (0.0) |  | 0.3 | (0.3) | 0.0 | (0.0) | 1.8 | (1.0) | 59.5 | (36.9) |
|  |  |  | Overall | 0.0 | (0.0) |  | 0.1 | (0.1) | 0.0 | (0.0) | 1.3 | (0.5) | 21.5 | (13.8) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2006 | Lettuce | 1 | Intensive | 0.0 | (0.0) |  | 0.5 | (0.5) | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) |
|  |  |  | Intermediate | 0.0 | (0.0) |  | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) | 1.3 | (1.3) |
|  |  |  | Bio-extensive | 0.0 | (0.0) |  | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) |
|  |  |  | Ridge tillage | 0.0 | (0.0) |  | 0.5 | (0.5) | 0.0 | (0.0) | 0.0 | (0.0) | 1.8 | (1.4) |
|  |  |  | Overall | 0.0 | (0.0) |  | 0.3 | (0.2) | 0.0 | (0.0) | 0.0 | (0.0) | 0.8 | (0.5) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2007 | Lettuce | 2 | Intensive | 0.0 | (0.0) |  | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) |
|  |  |  | Intermediate | 0.0 | (0.0) |  | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) |
|  |  |  | Bio-extensive | 0.0 | (0.0) |  | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) |
|  |  |  | Ridge tillage | 0.0 | (0.0) |  | 0.0 | (0.0) | 0.5 | (0.3) | 3.8 | (1.8) | 2.0 | (1.2) |
|  |  |  | Overall | 0.0 | (0.0) |  | 0.0 | (0.0) | 0.1 | (0.1) | 0.9 | (0.6) | 0.5 | (0.4) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2007 | Potato | 1 | Intensive | 0.0 | (0.0) |  | 3.0 | (1.7) | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) |
|  |  |  | Intermediate | 0.0 | (0.0) |  | 1.8 | (0.9) | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) |
|  |  |  | Ridge tillage | 0.0 | (0.0) |  | 3.5 | (2.9) | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) |
|  |  |  | Overall | 0.0 | (0.0) |  | 2.8 | (1.1) | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2008 | Potato | 2 | Intensive | 0.0 | (0.0) |  | 41.5 | (19.0) | 0.0 | (0.0) | 0.8 | (0.8) | 0.0 | (0.0) |
|  |  |  | Intermediate | 0.0 | (0.0) |  | 3.0 | (0.4) | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) |
|  |  |  | Ridge tillage | 0.0 | (0.0) |  | 12.0 | (2.9) | 0.0 | (0.0) | 0.0 | (0.0) | 6.8 | (2.7) |
|  |  |  | Overall | 0.0 | (0.0) |  | 18.8 | (7.6) | 0.0 | (0.0) | 0.3 | (0.3) | 2.3 | (1.3) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2008 | Winter | 1 | Intensive | 2.8 | (1.8) |  | 2.0 | (0.9) | 0.0 | (0.0) | 6.5 | (4.1) | 1.0 | (0.4) |
|  | squash |  | Intermediate | 0.5 | (0.3) |  | 0.8 | (0.5) | 1.8 | (1.4) | 17.8 | (4.8) | 9.3 | (6.1) |
|  |  |  | Bio-extensive | 0.8 | (0.5) |  | 0.3 | (0.3) | 0.3 | (0.3) | 2.8 | (0.5) | 2.8 | (1.4) |
|  |  |  | Ridge tillage | 4.0 | (4.0) |  | 2.3 | (1.9) | 2.5 | (1.0) | 12.3 | (2.7) | 23.0 | (4.0) |
|  |  |  | Overall | 2.0 | (1.1) |  | 1.3 | (0.5) | 1.1 | (0.5) | 9.8 | (2.1) | 9.0 | (2.8) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2009 | Winter | 2 | Intensive | 2.0 | (2.0) |  | 0.0 | (0.0) | 0.0 | (0.0) | 4.8 | (1.5) | 3.5 | (2.0) |
|  | squash |  | Intermediate | 0.5 | (0.5) |  | 0.0 | (0.0) | 2.5 | (1.2) | 7.8 | (2.3) | 7.8 | (2.4) |
|  |  |  | Bio-extensive | 1.0 | (0.7) |  | 0.8 | (0.8) | 0.0 | (0.0) | 4.8 | (2.1) | 0.0 | (0.0) |
|  |  |  | Ridge tillage | 0.3 | (0.3) |  | 0.3 | (0.3) | 0.0 | (0.0) | 19.5 | (5.4) | 52.3 | (13.1) |
|  |  |  | Overall | 0.9 | (0.5) |  | 0.3 | (0.2) | 0.6 | (0.4) | 9.2 | (2.1) | 15.9 | (6.2) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2009 | Cabbage | 1 | Intensive | 2.5 | (0.9) |  | 1.0 | (1.0) | 0.8 | (0.5) | 0.8 | (0.5) | 0.3 | (0.3) |
|  |  |  | Intermediate | 1.0 | (0.0) |  | 0.8 | (0.8) | 2.0 | (2.0) | 2.0 | (2.0) | 1.3 | (0.9) |
|  |  |  | Ridge tillage | 6.5 | (4.9) |  | 0.3 | (0.3) | 4.5 | (2.5) | 4.5 | (2.5) | 1.3 | (0.5) |
|  |  |  | Overall | 3.3 | (1.7) |  | 0.7 | (0.4) | 2.4 | (1.1) | 2.4 | (1.1) | 0.9 | (0.4) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2010 | Cabbage | 2 | Intensive | 2.5 | (1.3) |  | 0.3 | (0.3) | 0.0 | (0.0) | 0.0 | (0.0) | 1.8 | (1.4) |
|  |  |  | Intermediate | 0.0 | (0.0) |  | 0.0 | (0.0) | 0.0 | (0.0) | 0.0 | (0.0) | 7.3 | (3.0) |
|  |  |  | Ridge tillage | 1.8 | (0.3) |  | 1.3 | (0.8) | 0.0 | (0.0) | 0.0 | (0.0) | 90.3 | (19.6) |
|  |  |  | Overall | 1.3 | (0.5) |  | 0.5 | (0.3) | 0.0 | (0.0) | 0.0 | (0.0) | 33.1 | (13.6) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2010 | Lettuce | 1 | Intensive | 1.8 | (0.5) |  | 2.8 | (2.1) | 2.3 | (1.3) | 1.3 | (1.3) | 1.5 | (1.5) |
|  |  |  | Intermediate | 0.8 | (0.3) |  | 2.8 | (2.1) | 17.0 | (16.3) | 4.8 | (1.8) | 0.5 | (0.3) |
|  |  |  | Bio-extensive | 0.8 | (0.5) |  | 1.3 | (0.9) | 0.3 | (0.3) | 1.0 | (0.7) | 0.3 | (0.3) |
|  |  |  | Ridge tillage | 27.8 | (16.0) |  | 6.0 | (1.7) | 14.3 | (5.0) | 12.0 | (5.7) | 3.3 | (2.0) |
|  |  |  | Overall | 7.8 | (4.7) |  | 3.2 | (0.9) | 8.4 | (4.3) | 4.8 | (1.8) | 1.4 | (0.6) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2011 | Lettuce | 2 | Intensive | 1.0 | (0.6) |  | 0.3 | (0.3) | 3.3 | (2.6) | 4.5 | (2.2) | 0.0 | (0.0) |
|  | Lettuce |  | Intermediate | 2.0 | (1.1) |  | 0.0 | (0.0) | 11.8 | (6.1) | 7.8 | (4.0) | 0.8 | (0.8) |
|  |  |  | Bio-extensive | 0.8 | (0.8) |  | 0.8 | (0.8) | 0.0 | (0.0) | 1.8 | (1.2) | 0.0 | (0.0) |
|  |  |  | Ridge tillage | 8.8 | (7.8) |  | 0.8 | (0.5) | 7.5 | (6.8) | 12.3 | (4.5) | 3.5 | (2.9) |
|  |  |  | Overall | 3.1 | (2.0) |  | 0.4 | (0.2) | 5.6 | (2.4) | 6.6 | (1.8) | 1.1 | (0.8) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2011 | Potato | 1 | Intensive | 2.5 | (1.5) |  | 4.0 | (2.8) | 5.5 | (4.9) | 2.0 | (0.9) | 0.8 | (0.5) |
|  |  |  | Intermediate | 0.0 | (0.0) |  | 2.5 | (1.7) | 13.0 | (13.0) | 4.3 | (1.1) | 2.0 | (1.4) |
|  |  |  | Ridge tillage | 31.8 | (9.6) |  | 19.3 | (11.7) | 17.5 | (8.1) | 4.8 | (2.5) | 15.5 | (7.4) |
|  |  |  | Overall | 11.4 | (5.2) |  | 8.6 | (4.3) | 12.0 | (5.1) | 3.7 | (0.9) | 6.1 | (3.0) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2012 | Potato | 2 | Intensive | 3.3 | (1.5) |  | 1.0 | (0.7) | 15.8 | (14.8) | 8.3 | (4.7) | 0.0 | (0.0) |
|  |  |  | Intermediate | 0.5 | (0.3) |  | 0.5 | (0.5) | 10.5 | (5.6) | 7.5 | (3.6) | 0.3 | (0.3) |
|  |  |  | Ridge tillage | 25.3 | (13.4) |  | 5.0 | (2.5) | 11.8 | (2.8) | 6.5 | (2.0) | 2.8 | (2.4) |
|  |  |  | Overall | 9.7 | (5.3) |  | 2.2 | (1.0) | 12.7 | (4.9) | 7.4 | (1.9) | 1.0 | (0.8) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2012 | Winter | 1 | Intensive | 2.8 | (1.1) |  | 1.5 | (0.9) | 7.3 | (3.4) | 0.5 | (0.5) | 3.5 | (2.5) |
|  | squash |  | Intermediate | 3.5 | (3.2) |  | 2.8 | (1.4) | 8.3 | (7.6) | 2.8 | (1.1) | 0.5 | (0.3) |
|  |  |  | Bio-extensive | 0.3 | (0.3) |  | 0.5 | (0.3) | 0.8 | (0.8) | 3.0 | (1.1) | 3.8 | (2.8) |
|  |  |  | Ridge tillage | 112.8 | (10.2) |  | 44.3 | (28.5) | 55.0 | (23.2) | 16.3 | (5.4) | 21.0 | (2.0) |
|  |  |  | Overall | 29.8 | (12.6) |  | 12.3 | (8.0) | 17.8 | (7.8) | 5.6 | (2.0) | 7.2 | (2.3) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2013 | Winter | 2 | Intensive | 2.5 | (1.8) |  | 2.5 | (1.7) | 7.3 | (6.3) | 3.5 | (1.9) | 1.8 | (1.4) |
|  | squash |  | Intermediate | 1.0 | (0.4) |  | 0.3 | (0.3) | 4.5 | (2.6) | 0.5 | (0.5) | 1.5 | (1.2) |
|  |  |  | Bio-extensive | 3.3 | (1.1) |  | 3.0 | (1.2) | 5.3 | (2.7) | 3.5 | (1.7) | 0.0 | (0.0) |
|  |  |  | Ridge tillage | 18.3 | (5.7) |  | 4.0 | (2.2) | 12.3 | (4.0) | 5.8 | (1.3) | 24.3 | (17.0) |
|  |  |  | Overall | 6.3 | (2.3) |  | 2.4 | (0.8) | 7.3 | (2.0) | 3.3 | (0.8) | 6.9 | (4.6) |