**CSU Testing of Mosquito Pools for West Nile Virus, 2023 – Final Report**

**Summary for 2023 WNV testing season**

* During the 2023 season, CSU tested a total of 2643 mosquito pools (see section A below). Of these, 2118 came from Fort Collins, 291 came from Loveland, 172 came from Berthoud, and 62 came from Boulder County. Of the Fort Collins mosquito pools, 1468 were *Cx. tarsalis* and 650 were *Cx. pipiens*.
* All tested pools in Fort Collins were negative in weeks 23-25. WNV-positive pools were recorded in Fort Collins in weeks 26-37.
* All tested pools in Loveland were negative in weeks 23-26 & 36. WNV-positive pools were recorded in Loveland in weeks 27-35.
* All tested pools in Berthoud were negative in weeks 23-26, 31, & 33. WNV-positive pools were recorded in Berthoud in weeks 27-30, 32, & 34-35.
* All tested pools in Boulder County were negative in weeks 25-28, 31, & 35-36. WNV-positive pools were recorded in Boulder County in weeks 29-30 & 32-34.
* The overall numbers of WNV-positive pools were 186 from Fort Collins, 23 from Loveland, 17 from Berthoud, and 8 from Boulder County. The greatest number of WNV-positive pools for a single week was recorded in week 29 (n=47 positive pools).
* Compared to historical 2006-2022 averages for Fort Collins (see section B below), the citywide Vector Index in 2023 was above the historical average in weeks 26-34 & 36. The Vector Index was at or below the historical average in weeks 23-25, 35, & 37.
* Compared to historical 2006-2022 averages for Fort Collins, the citywide *Culex* abundance in 2023 was above the historical average in weeks 24-31 & 34. The citywide *Culex* abundance was at or below the historical average in weeks 23, 32-33, & 35-37.
* Compared to historical 2006-2022 averages for Fort Collins, the citywide WNV infection rate in 2023 was above the historical average in weeks 27-37. The citywide WNV infection rate was at or below the historical average in weeks 23-26.
* Among the four Fort Collins zones, the Vector Index exceeded 0.5 eleven times this season, twice in the NW zone in weeks 31-32, three times in the NE zone in weeks 29-30 & 33, three times in the SE zone in weeks 28-29 & 31, and three times in the SW zone in weeks 29-30 & 33. Peak weekly VI was 1.34 for the SE zone (week 31), 1.23 for the NE zone (week 29), 0.64 for the NW zone (week 31), and 1.01 for the SW zone (week 30).
* The Vector Index in Loveland exceeded 0.5 four times this season in weeks 29-30 & 32-33. Peak weekly VI in Loveland was 4.27 (week 30).
* The Vector Index in Berthoud exceeded 0.5 five times this season in weeks 27-29, 32, & 34. Peak weekly VI in Berthoud was 3.03 (week 28).
* The Vector Index in Boulder County exceeded 0.5 once this season in week 29. Peak weekly VI in Boulder County was 0.64 (week 29).
* Detailed weekly data for Vector Index, *Culex* abundance and WNV infection rate are shown in section C below.

1. **Summary of tested mosquito pools – 2023**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Fort Collins | | | | Loveland | | | | Berthoud | | | | Boulder | | | |
|  |
|  | *Culex pipiens* pools | | *Culex tarsalis* pools | | *Culex pipiens* pools | | *Culex tarsalis* pools | | *Culex pipiens* pools | | *Culex tarsalis* pools | | *Culex pipiens* pools | | *Culex tarsalis* pools | |
| Week | No. tested | No. WNV positive | No. tested | No. WNV positive | No. tested | No. WNV positive | No. tested | No. WNV positive | No. tested | No. WNV positive | No. tested | No. WNV positive | No. tested | No. WNV positive | No. tested | No. WNV positive |
| 23 | 28 | 0 | 36 | 0 | 2 | 0 | 7 | 0 | 0 | 0 | 5 | 0 | N/A | N/A | N/A | N/A |
| 24 | 33 | 0 | 32 | 0 | 2 | 0 | 8 | 0 | 3 | 0 | 5 | 0 | N/A | N/A | N/A | N/A |
| 25 | 40 | 0 | 48 | 0 | 2 | 0 | 13 | 0 | 3 | 0 | 12 | 0 | N/A | N/A | 5 | 0 |
| 26 | 34 | 0 | 155 | 1 | 2 | 0 | 38 | 0 | 2 | 0 | 13 | 0 | N/A | N/A | 1 | 1 |
| 27 | 37 | 0 | 180 | 4 | 4 | 0 | 66 | 2 | 2 | 1 | 14 | 1 | N/A | N/A | 7 | 0 |
| 28 | 53 | 3 | 247 | 13 | 3 | 0 | 17 | 1 | 3 | 0 | 15 | 2 | N/A | N/A | 6 | 0 |
| 29 | 55 | 13 | 335 | 28 | 2 | 0 | 18 | 1 | 2 | 0 | 15 | 2 | 1 | 0 | 5 | 3 |
| 30 | 55 | 6 | 134 | 16 | 5 | 0 | 14 | 8 | 4 | 0 | 9 | 1 | N/A | N/A | 6 | 1 |
| 31 | 44 | 11 | 78 | 19 | 3 | 0 | 14 | 1 | 4 | 0 | 7 | 0 | N/A | N/A | 6 | 0 |
| 32 | 54 | 6 | 46 | 13 | 5 | 0 | 12 | 4 | 5 | 0 | 13 | 5 | N/A | N/A | 5 | 1 |
| 33 | 46 | 11 | 47 | 9 | 6 | 1 | 12 | 3 | 4 | 0 | 8 | 0 | N/A | N/A | 5 | 1 |
| 34 | 48 | 12 | 56 | 7 | 6 | 1 | 9 | 0 | 5 | 0 | 8 | 4 | N/A | N/A | 5 | 1 |
| 35 | 46 | 7 | 40 | 2 | 4 | 0 | 8 | 1 | 5 | 0 | 5 | 1 | 2 | 0 | 3 | 0 |
| 36 | 36 | 3 | 23 | 0 | 4 | 0 | 5 | 0 | N/A | N/A | N/A | N/A | N/A | N/A | 5 | 0 |
| 37 | 41 | 2 | 11 | 0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| **TOTAL** | **650** | **74** | **1468** | **112** | **50** | **2** | **241** | **21** | **42** | **1** | **130** | **16** | **3** | **0** | **59** | **8** |

|  |  |
| --- | --- |
| **Total mosquito pools:** | **2643** |
| Total from Fort Collins: | 2118 |
| Total from Loveland: | 291 |
| Total from Berthoud: | 172 |
| Total from Boulder: | 62 |

|  |  |
| --- | --- |
| **Total WNV+ pools:** | **234** |
| Total WNV+ from Fort Collins: | 186 |
| Total WNV+ from Loveland: | 23 |
| Total WNV+ from Berthoud: | 17 |
| Total WNV+ from Boulder: | 8 |

1. **Weekly data for 2023 in relation to historical averages**

**Table 1b. Vector Index for all *Culex* by week from June-September**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week | FC – Zone NW | | FC – Zone NE | | FC – Zone SE | | FC – Zone SW | | FC – Citywide | | LV | BE | BC |
| Current year | Historical average1 | Current year | Historical average1 | Current year | Historical average1 | Current year | Historical average1 | Current year | Historical average1 |
| 23 | 0.00 | 0.01 | 0.00 | 0.02 | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | N/A |
| 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| 25 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 0.00 | 0.00 | 0.00 | 0.01 | 0.07 | 0.01 | 0.00 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 |
| 27 | 0.00 | 0.00 | 0.00 | 0.02 | 0.27 | 0.01 | 0.00 | 0.00 | 0.09 | 0.01 | 0.24 | 1.23 | 0.00 |
| 28 | 0.09 | 0.00 | 0.10 | 0.03 | 0.73 | 0.10 | 0.27 | 0.01 | 0.36 | 0.04 | 0.23 | 3.03 | 0.00 |
| 29 | 0.39 | 0.08 | 1.23 | 0.09 | 0.86 | 0.24 | 0.79 | 0.03 | 0.86 | 0.12 | 0.77 | 2.28 | 0.64 |
| 30 | 0.23 | 0.08 | 0.68 | 0.14 | 0.30 | 0.26 | 1.01 | 0.07 | 0.51 | 0.15 | 4.27 | 0.32 | 0.17 |
| 31 | 0.64 | 0.14 | 0.09 | 0.17 | 1.34 | 0.23 | 0.31 | 0.08 | 0.70 | 0.18 | 0.30 | 0.00 | 0.00 |
| 32 | 0.53 | 0.16 | 0.42 | 0.26 | 0.43 | 0.32 | 0.29 | 0.14 | 0.45 | 0.23 | 0.89 | 1.32 | 0.20 |
| 33 | 0.28 | 0.14 | 0.73 | 0.41 | 0.07 | 0.26 | 0.74 | 0.10 | 0.40 | 0.24 | 0.59 | 0.00 | 0.19 |
| 34 | 0.28 | 0.13 | 0.29 | 0.20 | 0.39 | 0.28 | 0.44 | 0.07 | 0.35 | 0.19 | 0.10 | 1.13 | 0.20 |
| 35 | 0.04 | 0.06 | 0.25 | 0.19 | 0.18 | 0.25 | 0.03 | 0.11 | 0.15 | 0.17 | 0.07 | 0.21 | 0.00 |
| 36 | 0.15 | 0.03 | 0.00 | 0.08 | 0.07 | 0.05 | 0.09 | 0.02 | 0.08 | 0.05 | 0.00 | N/A | 0.00 |
| 37 | 0.00 | 0.03 | 0.18 | 0.11 | 0.00 | 0.03 | 0.00 | 0.00 | 0.04 | 0.04 | N/A | N/A | N/A |

1 The historical average for Week 23 is calculated from 2006-2014 data. The historical average for Week 24-35 uses 2006-2020 historical data. Week 36 historical average is calculated from 2015-2020 data (2015 is the first year to have surveillance data collected into weeks 36 & 37). Week 37 historical average is calculated from 2015-2016 and 2018-2019 data. 2003-2005 surveillance data were excluded due to changes in trap locations from 2006 onwards. Trapping for the 2023 WNV-surveillance season ended in week 37.

**Table 2b. Vector abundance for All *Culex* by week from June-September**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week | FC – Zone NW | | FC – Zone NE | | FC – Zone SE | | FC – Zone SW | | FC – Citywide | | LV | BE | BC |
| Current year | Historical average1 | Current year | Historical average1 | Current year | Historical average1 | Current year | Historical average1 | Current year | Historical average1 |
| 23 | 6.11 | 2.81 | 1.00 | 5.48 | 5.67 | 8.04 | 7.11 | 0.78 | 4.98 | 5.67 | 8.57 | 12.80 | N/A |
| 24 | 4.33 | 2.90 | 2.70 | 7.22 | 9.00 | 9.00 | 6.56 | 1.83 | 6.05 | 5.80 | 11.65 | 11.60 | N/A |
| 25 | 18.00 | 6.07 | 14.70 | 17.18 | 29.20 | 21.45 | 7.00 | 3.95 | 18.84 | 13.49 | 41.51 | 98.00 | 6.32 |
| 26 | 126.67 | 12.78 | 128.50 | 30.90 | 222.87 | 33.19 | 96.56 | 8.07 | 154.35 | 23.08 | 237.5 | 848.80 | 45.00 |
| 27 | 28.56 | 26.20 | 204.30 | 59.47 | 361.27 | 46.37 | 25.89 | 11.86 | 184.93 | 39.49 | 392.9 | 712.40 | 49.00 |
| 28 | 169.78 | 41.14 | 128.30 | 85.39 | 439.00 | 87.64 | 265.00 | 17.70 | 273.98 | 62.95 | 196.6 | 1056.0 | 49.00 |
| 29 | 228.33 | 47.89 | 473.40 | 86.69 | 460.53 | 74.04 | 286.11 | 22.52 | 378.42 | 61.74 | 711.3 | 801.0 | 49.00 |
| 30 | 75.11 | 47.92 | 327.30 | 107.84 | 89.60 | 80.94 | 122.75 | 22.16 | 149.40 | 68.37 | 274.7 | 138.6 | 49.00 |
| 31 | 29.89 | 55.08 | 27.00 | 96.93 | 157.71 | 63.68 | 23.78 | 19.93 | 70.50 | 63.02 | 182.8 | 51.80 | 47.00 |
| 32 | 27.00 | 39.85 | 36.70 | 78.44 | 37.40 | 52.73 | 20.25 | 20.69 | 31.74 | 49.71 | 108.9 | 127.2 | 47.40 |
| 33 | 21.56 | 28.80 | 40.40 | 68.09 | 10.13 | 42.43 | 42.78 | 14.21 | 26.40 | 40.70 | 83.22 | 83.00 | 36.20 |
| 34 | 20.22 | 21.58 | 19.80 | 53.67 | 47.47 | 27.74 | 31.78 | 10.35 | 32.05 | 29.68 | 55.73 | 61.80 | 42.20 |
| 35 | 10.11 | 10.83 | 23.10 | 27.34 | 6.00 | 17.94 | 6.00 | 6.39 | 10.84 | 16.36 | 25.30 | 25.60 | 38.40 |
| 36 | 7.71 | 11.18 | 27.78 | 36.44 | 11.07 | 13.82 | 5.33 | 4.94 | 13.00 | 16.63 | 11.69 | N/A | 2.60 |
| 37 | 1.89 | 8.13 | 32.30 | 34.33 | 7.27 | 11.08 | 1.44 | 3.12 | 10.74 | 14.29 | N/A | N/A | N/A |

1 The historical average for Week 23 is calculated from 2006-2014 data. The historical average for Week 24-35 uses 2006-2020 historical data. Week 36 historical average is calculated from 2015-2020 data (2015 is the first year to have surveillance data collected into weeks 36 & 37). Week 37 historical average is calculated from 2015-2016 and 2018-2019 data. 2003-2005 surveillance data were excluded due to changes in trap locations from 2006 onwards. Trapping for the 2023 WNV-surveillance season ended in week 37.

**Table 3b. WNV infection rate per 1,000 females for all *Culex* by week from June-September**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week | FC – Zone NW | | FC – Zone NE | | FC – Zone SE | | FC – Zone SW | | FC – Citywide | | LV | BE | BC |
| Current year | Historical average1 | Current year | Historical average1 | Current year | Historical average1 | Current year | Historical average1 | Current year | Historical average1 |
| 23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.60 | 0.00 | 0.00 | 0.00 | 0.52 | 0.00 | 0.00 | N/A |
| 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.33 | 0.00 | 0.00 | N/A |
| 25 | 0.00 | 0.00 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 |
| 26 | 0.00 | 0.00 | 0.00 | 0.06 | 0.29 | 0.28 | 0.00 | 0.28 | 0.15 | 0.17 | 0.00 | 0.00 | 0.00 |
| 27 | 0.00 | 0.00 | 0.00 | 0.14 | 0.74 | 0.28 | 0.00 | 0.00 | 0.50 | 0.20 | 0.60 | 2.83 | 0.00 |
| 28 | 0.64 | 0.00 | 0.74 | 0.42 | 1.69 | 0.76 | 1.23 | 0.59 | 1.36 | 0.51 | 1.18 | 2.73 | 0.00 |
| 29 | 3.04 | 1.37 | 2.79 | 0.86 | 2.07 | 2.10 | 2.82 | 0.84 | 2.54 | 1.38 | 1.09 | 2.75 | 12.40 |
| 30 | 2.95 | 1.97 | 2.14 | 1.62 | 4.38 | 3.47 | 7.74 | 2.06 | 3.57 | 2.40 | 15.47 | 2.28 | 3.38 |
| 31 | 23.09 | 2.94 | 3.56 | 1.82 | 9.49 | 4.77 | 14.18 | 3.38 | 10.88 | 3.28 | 1.64 | 0.00 | 0.00 |
| 32 | 20.01 | 4.31 | 10.59 | 4.54 | 11.04 | 6.86 | 13.87 | 9.22 | 13.04 | 5.23 | 7.33 | 10.15 | 4.11 |
| 33 | 16.73 | 6.40 | 19.15 | 6.51 | 6.42 | 9.37 | 18.16 | 6.67 | 15.99 | 7.50 | 7.48 | 0.00 | 5.33 |
| 34 | 12.96 | 7.89 | 15.96 | 4.05 | 9.59 | 10.38 | 14.37 | 9.88 | 12.49 | 7.39 | 2.03 | 16.66 | 4.77 |
| 35 | 6.07 | 9.39 | 10.52 | 5.81 | 33.59 | 14.70 | 10.82 | 35.98 | 14.17 | 10.13 | 2.86 | 8.13 | 0.00 |
| 36 | 21.48 | 6.94 | 0.00 | 1.98 | 6.29 | 3.55 | 18.39 | 6.45 | 6.01 | 2.76 | 0.00 | N/A | 0.00 |
| 37 | 0.00 | 3.53 | 5.46 | 3.04 | 0.00 | 3.56 | 0.00 | 0.00 | 5.29 | 3.97 | N/A | N/A | N/A |

1 The historical average for Week 23 is calculated from 2006-2014 data. The historical average for Week 24-35 uses 2006-2020 historical data. Week 36 historical average is calculated from 2015-2020 data (2015 is the first year to have surveillance data collected into weeks 36 & 37). Week 37 historical average is calculated from 2015-2016 and 2018-2019 data. 2003-2005 surveillance data were excluded due to changes in trap locations from 2006 onwards. Trapping for the 2023 WNV-surveillance season ended in week 37.

1. **Detailed weekly data for Vector Index, *Culex* abundance and WNV infection rate**

***Week 23***

**Table 1a. Vector Index for current week**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **23** | Mean abundance of females per trap night1 | | Estimate for proportion of  females infected with WNV2 | | **Vector Index** | | |
| *Cx. pipiens* | *Cx. tarsalis* | *Cx.*  *pipiens* | *Cx.*  *tarsalis* | ***Cx. pipiens3*** | ***Cx. tarsalis4*** | **All**  ***Culex5*** |
| FC – Zone NW | 1.78 | 4.33 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone NE | 0.30 | 0.70 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SE | 0.80 | 4.87 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SW | 1.67 | 5.44 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Citywide | 1.07 | 3.91 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
|  |  |  |  |  |  |  |  |
| LV | 0.7 | 7.9 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| BE | 0.0 | 12.8 | N/A | 0.0000 | **N/A** | **0.000** | **0.000** |
| BC | N/A | N/A | N/A | N/A | **N/A** | **N/A** | **N/A** |

1From Table 2a (CDC light trap catches only).

2Derived from the data presented in Table 3a for estimated infection rate per 1,000 females (CDC light trap and gravid trap catches combined).

3Vector Index for *Cx. pipiens*= (Mean abundance of *Cx. pipiens*females per trap night) x (Estimate for proportion of all *Cx. pipiens*females infected with WNV).

4Vector Index for *Cx. tarsalis*= (Mean abundance of *Cx. tarsalis*females per trap night) x (Estimate for proportion of all *Cx. tarsalis*females infected with WNV).

5Vector Index for All *Culex*= (Vector Index for *Cx. pipiens*) *+* (Vector Index for *Cx. tarsalis*).

**Table 2a. Vector abundance for current week (CDC light trap catches only)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **23** | Total number  females collected | | | Number CDC light trap nights | Mean abundance of females per CDC light trap night | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens1* | *Cx. tarsalis2* | All  *Culex3* |
| FC – Zone NW | 16 | 39 | 55 | 9 | 1.78 | 4.33 | 6.11 |
| FC – Zone NE | 3 | 7 | 10 | 10 | 0.30 | 0.70 | 1.00 |
| FC – Zone SE | 12 | 73 | 85 | 15 | 0.80 | 4.87 | 5.67 |
| FC – Zone SW | 15 | 49 | 64 | 9 | 1.67 | 5.44 | 7.11 |
| FC – Citywide | 46 | 168 | 214 | 43 | 1.07 | 3.91 | 4.98 |
|  |  |  |  |  |  |  |  |
| LV | 25 | 292 | 317 | 37 | 0.68 | 7.89 | 8.57 |
| BE | 0 | 64 | 64 | 5 | 0.00 | 12.80 | 12.80 |
| BC | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

1Mean abundance of *Cx. pipiens*females per CDC light trap night = (Total number *Cx. pipiens*females collected) / (Number CDC light trap nights).

2Mean abundance of *Cx. tarsalis*females per CDC light trap night = (Total number *Cx. tarsalis* females collected) / (Number CDC light trap nights).

3Mean abundance of All *Culex*females per CDC light trap night = (Total number All *Culex*females collected) / (Number CDC light trap nights).

**Table 3a. WNV infection rate per 1,000 females for current week (CDC light trap and gravid trap catches combined)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **23** | Total number individuals examined | | | Total number pools examined | | | Total number  WNV-infected pools | | | Estimate for WNV infection rate per 1,000 females1 | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* |
| FC – Zone NW | 18 | 39 | 57 | 9 | 8 | 17 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone NE | 9 | 9 | 18 | 5 | 5 | 10 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SE | 23 | 74 | 97 | 8 | 16 | 24 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SW | 17 | 49 | 66 | 6 | 7 | 13 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Citywide | 67 | 171 | 238 | 28 | 36 | 64 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 5 | 152 | 157 | 2 | 7 | 9 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| BE | 0 | 64 | 64 | 0 | 5 | 5 | 0 | 0 | 0 | N/A | 0.00 | 0.00 |
| BC | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

1Maximum likelihood estimate (MLE) for WNV infection rate per 1,000 females calculated using the CDC PooledInfRate 4.0 plug-in for Excel.

***Week 24***

**Table 1a. Vector Index for current week**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **24** | Mean abundance of females per trap night1 | | Estimate for proportion of  females infected with WNV2 | | **Vector Index** | | |
| *Cx. pipiens* | *Cx. tarsalis* | *Cx.*  *pipiens* | *Cx.*  *tarsalis* | ***Cx. pipiens3*** | ***Cx. tarsalis4*** | **All**  ***Culex5*** |
| FC – Zone NW | 2.00 | 2.33 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone NE | 0.70 | 2.00 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SE | 1.47 | 7.53 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SW | 1.22 | 5.33 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Citywide | 1.35 | 4.70 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
|  |  |  |  |  |  |  |  |
| LV | 1.2 | 10.5 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| BE | 0.8 | 10.8 | N/A | 0.0000 | **0.000** | **0.000** | **0.000** |
| BC | N/A | N/A | N/A | N/A | **N/A** | **N/A** | **N/A** |

1From Table 2a (CDC light trap catches only).

2Derived from the data presented in Table 3a for estimated infection rate per 1,000 females (CDC light trap and gravid trap catches combined).

3Vector Index for *Cx. pipiens*= (Mean abundance of *Cx. pipiens*females per trap night) x (Estimate for proportion of all *Cx. pipiens*females infected with WNV).

4Vector Index for *Cx. tarsalis*= (Mean abundance of *Cx. tarsalis*females per trap night) x (Estimate for proportion of all *Cx. tarsalis*females infected with WNV).

5Vector Index for All *Culex*= (Vector Index for *Cx. pipiens*) *+* (Vector Index for *Cx. tarsalis*).

**Table 2a. Vector abundance for current week (CDC light trap catches only)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **24** | Total number  females collected | | | Number CDC light trap nights | Mean abundance of females per CDC light trap night | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens1* | *Cx. tarsalis2* | All  *Culex3* |
| FC – Zone NW | 18 | 21 | 39 | 9 | 2.00 | 2.33 | 4.33 |
| FC – Zone NE | 7 | 20 | 27 | 10 | 0.70 | 2.00 | 2.70 |
| FC – Zone SE | 22 | 113 | 135 | 15 | 1.47 | 7.53 | 9.00 |
| FC – Zone SW | 11 | 48 | 59 | 9 | 1.22 | 5.33 | 6.56 |
| FC – Citywide | 58 | 202 | 260 | 43 | 1.35 | 4.70 | 6.05 |
|  |  |  |  |  |  |  |  |
| LV | 44 | 387 | 431 | 37 | 1.19 | 10.46 | 11.65 |
| BE | 4 | 54 | 58 | 5 | 0.80 | 10.80 | 11.60 |
| BC | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

1Mean abundance of *Cx. pipiens*females per CDC light trap night = (Total number *Cx. pipiens*females collected) / (Number CDC light trap nights).

2Mean abundance of *Cx. tarsalis*females per CDC light trap night = (Total number *Cx. tarsalis* females collected) / (Number CDC light trap nights).

3Mean abundance of All *Culex*females per CDC light trap night = (Total number All *Culex*females collected) / (Number CDC light trap nights).

**Table 3a. WNV infection rate per 1,000 females for current week (CDC light trap and gravid trap catches combined)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **24** | Total number individuals examined | | | Total number pools examined | | | Total number  WNV-infected pools | | | Estimate for WNV infection rate per 1,000 females1 | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* |
| FC – Zone NW | 20 | 21 | 41 | 8 | 6 | 14 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone NE | 7 | 20 | 27 | 5 | 6 | 11 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SE | 63 | 113 | 176 | 15 | 13 | 28 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SW | 38 | 48 | 86 | 5 | 7 | 12 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Citywide | 128 | 202 | 330 | 33 | 32 | 65 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 7 | 185 | 192 | 2 | 8 | 10 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| BE | 4 | 54 | 58 | 3 | 5 | 8 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| BC | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

1Maximum likelihood estimate (MLE) for WNV infection rate per 1,000 females calculated using the CDC PooledInfRate 4.0 plug-in for Excel.

***Week 25***

**Table 1a. Vector Index for current week**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **25** | Mean abundance of females per trap night1 | | Estimate for proportion of  females infected with WNV2 | | **Vector Index** | | |
| *Cx. pipiens* | *Cx. tarsalis* | *Cx.*  *pipiens* | *Cx.*  *tarsalis* | ***Cx. pipiens3*** | ***Cx. tarsalis4*** | **All**  ***Culex5*** |
| FC – Zone NW | 4.33 | 13.67 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone NE | 2.10 | 12.60 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SE | 1.27 | 27.93 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SW | 2.22 | 4.78 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Citywide | 2.30 | 16.53 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
|  |  |  |  |  |  |  |  |
| LV | 1.6 | 39.9 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| BE | 1.4 | 96.6 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| BC | N/A | 6.3 | N/A | 0.0000 | **0.000** | **0.000** | **0.000** |

1From Table 2a (CDC light trap catches only).

2Derived from the data presented in Table 3a for estimated infection rate per 1,000 females (CDC light trap and gravid trap catches combined).

3Vector Index for *Cx. pipiens*= (Mean abundance of *Cx. pipiens*females per trap night) x (Estimate for proportion of all *Cx. pipiens*females infected with WNV).

4Vector Index for *Cx. tarsalis*= (Mean abundance of *Cx. tarsalis*females per trap night) x (Estimate for proportion of all *Cx. tarsalis*females infected with WNV).

5Vector Index for All *Culex*= (Vector Index for *Cx. pipiens*) *+* (Vector Index for *Cx. tarsalis*).

**Table 2a. Vector abundance for current week (CDC light trap catches only)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **25** | Total number  females collected | | | Number CDC light trap nights | Mean abundance of females per CDC light trap night | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens1* | *Cx. tarsalis2* | All  *Culex3* |
| FC – Zone NW | 39 | 123 | 162 | 9 | 4.33 | 13.67 | 18.00 |
| FC – Zone NE | 21 | 126 | 147 | 10 | 2.10 | 12.60 | 14.70 |
| FC – Zone SE | 19 | 419 | 438 | 15 | 1.27 | 27.93 | 29.20 |
| FC – Zone SW | 20 | 43 | 63 | 9 | 2.22 | 4.78 | 7.00 |
| FC – Citywide | 99 | 711 | 810 | 43 | 2.30 | 16.53 | 18.84 |
|  |  |  |  |  |  |  |  |
| LV | 59 | 1477 | 1536 | 37 | 1.59 | 39.92 | 41.51 |
| BE | 7 | 483 | 490 | 5 | 1.40 | 96.60 | 98.00 |
| BC | 0 | 120 | 120 | 19 | 0.00 | 6.32 | 6.32 |

1Mean abundance of *Cx. pipiens*females per CDC light trap night = (Total number *Cx. pipiens*females collected) / (Number CDC light trap nights).

2Mean abundance of *Cx. tarsalis*females per CDC light trap night = (Total number *Cx. tarsalis* females collected) / (Number CDC light trap nights).

3Mean abundance of All *Culex*females per CDC light trap night = (Total number All *Culex*females collected) / (Number CDC light trap nights).

**Table 3a. WNV infection rate per 1,000 females for current week (CDC light trap and gravid trap catches combined)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **25** | Total number individuals examined | | | Total number pools examined | | | Total number  WNV-infected pools | | | Estimate for WNV infection rate per 1,000 females1 | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* |
| FC – Zone NW | 46 | 123 | 169 | 10 | 8 | 18 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone NE | 28 | 126 | 154 | 9 | 10 | 19 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SE | 85 | 422 | 507 | 15 | 21 | 36 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SW | 21 | 43 | 64 | 6 | 9 | 15 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Citywide | 180 | 714 | 894 | 40 | 48 | 88 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 10 | 561 | 571 | 2 | 13 | 15 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| BE | 7 | 483 | 490 | 3 | 12 | 15 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| BC | 0 | 120 | 120 | 0 | 5 | 5 | 0 | 0 | 0 | N/A | 0.00 | 0.00 |

1Maximum likelihood estimate (MLE) for WNV infection rate per 1,000 females calculated using the CDC PooledInfRate 4.0 plug-in for Excel.

***Week 26***

**Table 1a. Vector Index for current week**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **26** | Mean abundance of females per trap night1 | | Estimate for proportion of  females infected with WNV2 | | **Vector Index** | | |
| *Cx. pipiens* | *Cx. tarsalis* | *Cx.*  *pipiens* | *Cx.*  *tarsalis* | ***Cx. pipiens3*** | ***Cx. tarsalis4*** | **All**  ***Culex5*** |
| FC – Zone NW | 3.33 | 123.33 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone NE | 10.00 | 118.50 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SE | 5.33 | 217.53 | 0.0000 | 0.0003 | **0.000** | **0.067** | **0.067** |
| FC – Zone SW | 4.89 | 91.67 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Citywide | 5.91 | 148.44 | 0.0000 | 0.0002 | **0.000** | **0.023** | **0.023** |
|  |  |  |  |  |  |  |  |
| LV | 4.3 | 233.3 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| BE | 4.0 | 844.8 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| BC | N/A | 45.0 | N/A | 0.0000 | **0.000** | **0.000** | **0.000** |

1From Table 2a (CDC light trap catches only).

2Derived from the data presented in Table 3a for estimated infection rate per 1,000 females (CDC light trap and gravid trap catches combined).

3Vector Index for *Cx. pipiens*= (Mean abundance of *Cx. pipiens*females per trap night) x (Estimate for proportion of all *Cx. pipiens*females infected with WNV).

4Vector Index for *Cx. tarsalis*= (Mean abundance of *Cx. tarsalis*females per trap night) x (Estimate for proportion of all *Cx. tarsalis*females infected with WNV).

5Vector Index for All *Culex*= (Vector Index for *Cx. pipiens*) *+* (Vector Index for *Cx. tarsalis*).

**Table 2a. Vector abundance for current week (CDC light trap catches only)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **26** | Total number  females collected | | | Number CDC light trap nights | Mean abundance of females per CDC light trap night | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens1* | *Cx. tarsalis2* | All  *Culex3* |
| FC – Zone NW | 30 | 1110 | 1140 | 9 | 3.33 | 123.33 | 126.67 |
| FC – Zone NE | 100 | 1185 | 1285 | 10 | 10.00 | 118.50 | 128.50 |
| FC – Zone SE | 80 | 3263 | 3343 | 15 | 5.33 | 217.53 | 222.87 |
| FC – Zone SW | 44 | 825 | 869 | 9 | 4.89 | 91.67 | 96.56 |
| FC – Citywide | 254 | 6383 | 6637 | 43 | 5.91 | 148.44 | 154.35 |
|  |  |  |  |  |  |  |  |
| LV | 159 | 8632 | 8791 | 37 | 4.30 | 233.30 | 237.59 |
| BE | 20 | 4224 | 4244 | 5 | 4.00 | 844.80 | 848.80 |
| BC | 0 | 225 | 225 | 5 | 0.00 | 45.00 | 45.00 |

1Mean abundance of *Cx. pipiens*females per CDC light trap night = (Total number *Cx. pipiens*females collected) / (Number CDC light trap nights).

2Mean abundance of *Cx. tarsalis*females per CDC light trap night = (Total number *Cx. tarsalis* females collected) / (Number CDC light trap nights).

3Mean abundance of All *Culex*females per CDC light trap night = (Total number All *Culex*females collected) / (Number CDC light trap nights).

**Table 3a. WNV infection rate per 1,000 females for current week (CDC light trap and gravid trap catches combined)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **26** | Total number individuals examined | | | Total number pools examined | | | Total number  WNV-infected pools | | | Estimate for WNV infection rate per 1,000 females1 | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* |
| FC – Zone NW | 55 | 1110 | 1165 | 7 | 28 | 35 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone NE | 168 | 1185 | 1353 | 12 | 29 | 41 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SE | 151 | 3269 | 3420 | 10 | 76 | 86 | 0 | 1 | 1 | 0.00 | 0.31 | 0.29 |
| FC – Zone SW | 64 | 826 | 890 | 5 | 22 | 27 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Citywide | 438 | 6390 | 6828 | 34 | 155 | 189 | 0 | 1 | 1 | 0.00 | 0.16 | 0.15 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 21 | 1759 | 1780 | 2 | 38 | 40 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| BE | 5 | 617 | 622 | 2 | 13 | 15 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| BC | 0 | 225 | 225 | 0 | 5 | 5 | 0 | 1 | 1 | N/A | 0.00 | 0.00 |

1Maximum likelihood estimate (MLE) for WNV infection rate per 1,000 females calculated using the CDC PooledInfRate 4.0 plug-in for Excel.

***Week 27***

**Table 1a. Vector Index for current week**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **27** | Mean abundance of females per trap night1 | | Estimate for proportion of  females infected with WNV2 | | **Vector Index** | | |
| *Cx. pipiens* | *Cx. tarsalis* | *Cx.*  *pipiens* | *Cx.*  *tarsalis* | ***Cx. pipiens3*** | ***Cx. tarsalis4*** | **All**  ***Culex5*** |
| FC – Zone NW | 7.33 | 21.22 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone NE | 11.10 | 193.20 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SE | 6.67 | 354.60 | 0.0000 | 0.0008 | **0.000** | **0.269** | **0.269** |
| FC – Zone SW | 2.89 | 23.00 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Citywide | 7.05 | 177.88 | 0.0000 | 0.0005 | **0.000** | **0.094** | **0.094** |
|  |  |  |  |  |  |  |  |
| LV | 5.7 | 387.2 | 0.0000 | 0.0006 | **0.000** | **0.241** | **0.241** |
| BE | 1.2 | 711.2 | 0.1784 | 0.0014 | **0.214** | **1.015** | **1.229** |
| BC | N/A | 49.0 | N/A | 0.0000 | **0.000** | **0.000** | **0.000** |

1From Table 2a (CDC light trap catches only).

2Derived from the data presented in Table 3a for estimated infection rate per 1,000 females (CDC light trap and gravid trap catches combined).

3Vector Index for *Cx. pipiens*= (Mean abundance of *Cx. pipiens*females per trap night) x (Estimate for proportion of all *Cx. pipiens*females infected with WNV).

4Vector Index for *Cx. tarsalis*= (Mean abundance of *Cx. tarsalis*females per trap night) x (Estimate for proportion of all *Cx. tarsalis*females infected with WNV).

5Vector Index for All *Culex*= (Vector Index for *Cx. pipiens*) *+* (Vector Index for *Cx. tarsalis*).

**Table 2a. Vector abundance for current week (CDC light trap catches only)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **27** | Total number  females collected | | | Number CDC light trap nights | Mean abundance of females per CDC light trap night | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens1* | *Cx. tarsalis2* | All  *Culex3* |
| FC – Zone NW | 66 | 191 | 257 | 9 | 7.33 | 21.22 | 28.56 |
| FC – Zone NE | 111 | 1932 | 2043 | 10 | 11.10 | 193.20 | 204.30 |
| FC – Zone SE | 100 | 5319 | 5419 | 15 | 6.67 | 354.60 | 361.27 |
| FC – Zone SW | 26 | 207 | 233 | 9 | 2.89 | 23.00 | 25.89 |
| FC – Citywide | 303 | 7649 | 7952 | 43 | 7.05 | 177.88 | 184.93 |
|  |  |  |  |  |  |  |  |
| LV | 212 | 14327 | 14539 | 37 | 5.73 | 387.22 | 392.95 |
| BE | 6 | 3556 | 3562 | 5 | 1.20 | 711.20 | 712.40 |
| BC | 0 | 343 | 343 | 7 | 0.00 | 49.00 | 49.00 |

1Mean abundance of *Cx. pipiens*females per CDC light trap night = (Total number *Cx. pipiens*females collected) / (Number CDC light trap nights).

2Mean abundance of *Cx. tarsalis*females per CDC light trap night = (Total number *Cx. tarsalis* females collected) / (Number CDC light trap nights).

3Mean abundance of All *Culex*females per CDC light trap night = (Total number All *Culex*females collected) / (Number CDC light trap nights).

**Table 3a. WNV infection rate per 1,000 females for current week (CDC light trap and gravid trap catches combined)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **27** | Total number individuals examined | | | Total number pools examined | | | Total number  WNV-infected pools | | | Estimate for WNV infection rate per 1,000 females1 | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* |
| FC – Zone NW | 69 | 191 | 260 | 6 | 9 | 15 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone NE | 138 | 1940 | 2078 | 11 | 47 | 58 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SE | 169 | 5320 | 5489 | 14 | 115 | 129 | 0 | 4 | 4 | 0.00 | 0.76 | 0.74 |
| FC – Zone SW | 31 | 207 | 238 | 6 | 9 | 15 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Citywide | 407 | 7658 | 8065 | 37 | 180 | 217 | 0 | 4 | 4 | 0.00 | 0.53 | 0.50 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 101 | 3233 | 3334 | 4 | 66 | 70 | 0 | 2 | 2 | 0.00 | 0.62 | 0.60 |
| BE | 6 | 700 | 706 | 2 | 14 | 16 | 1 | 1 | 2 | 178.4 | 1.43 | 2.83 |
| BC | 0 | 343 | 343 | 0 | 7 | 7 | 1 | 7 | 8 | N/A | 0.00 | 0.00 |

1Maximum likelihood estimate (MLE) for WNV infection rate per 1,000 females calculated using the CDC PooledInfRate 4.0 plug-in for Excel.

***Week 28***

**Table 1a. Vector Index for current week**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **28** | Mean abundance of females per trap night1 | | Estimate for proportion of  females infected with WNV2 | | **Vector Index** | | |
| *Cx. pipiens* | *Cx. tarsalis* | *Cx.*  *pipiens* | *Cx.*  *tarsalis* | ***Cx. pipiens3*** | ***Cx. tarsalis4*** | **All**  ***Culex5*** |
| FC – Zone NW | 12.78 | 157.00 | 0.0068 | 0.0000 | **0.087** | **0.000** | **0.087** |
| FC – Zone NE | 22.20 | 106.10 | 0.0000 | 0.0009 | **0.000** | **0.100** | **0.100** |
| FC – Zone SE | 19.87 | 419.13 | 0.0022 | 0.0016 | **0.044** | **0.690** | **0.734** |
| FC – Zone SW | 6.56 | 258.44 | 0.0066 | 0.0009 | **0.043** | **0.225** | **0.268** |
| FC – Citywide | 16.14 | 257.84 | 0.0030 | 0.0012 | **0.048** | **0.310** | **0.358** |
|  |  |  |  |  |  |  |  |
| LV | 8.6 | 188.1 | 0.0000 | 0.0012 | **0.000** | **0.233** | **0.233** |
| BE | 29.0 | 1027.0 | 0.0000 | 0.0029 | **0.000** | **3.029** | **3.029** |
| BC | N/A | 49.0 | N/A | 0.0000 | **0.000** | **0.000** | **0.000** |

1From Table 2a (CDC light trap catches only).

2Derived from the data presented in Table 3a for estimated infection rate per 1,000 females (CDC light trap and gravid trap catches combined).

3Vector Index for *Cx. pipiens*= (Mean abundance of *Cx. pipiens*females per trap night) x (Estimate for proportion of all *Cx. pipiens*females infected with WNV).

4Vector Index for *Cx. tarsalis*= (Mean abundance of *Cx. tarsalis*females per trap night) x (Estimate for proportion of all *Cx. tarsalis*females infected with WNV).

5Vector Index for All *Culex*= (Vector Index for *Cx. pipiens*) *+* (Vector Index for *Cx. tarsalis*).

**Table 2a. Vector abundance for current week (CDC light trap catches only)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **28** | Total number  females collected | | | Number CDC light trap nights | Mean abundance of females per CDC light trap night | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens1* | *Cx. tarsalis2* | All  *Culex3* |
| FC – Zone NW | 115 | 1413 | 1528 | 9 | 12.78 | 157.00 | 169.78 |
| FC – Zone NE | 222 | 1061 | 1283 | 10 | 22.20 | 106.10 | 128.30 |
| FC – Zone SE | 298 | 6287 | 6585 | 15 | 19.87 | 419.13 | 439.00 |
| FC – Zone SW | 59 | 2326 | 2385 | 9 | 6.56 | 258.44 | 265.00 |
| FC – Citywide | 694 | 11087 | 11781 | 43 | 16.14 | 257.84 | 273.98 |
|  |  |  |  |  |  |  |  |
| LV | 317 | 6959 | 7276 | 37 | 8.57 | 188.08 | 196.65 |
| BE | 145 | 5135 | 5280 | 5 | 29.00 | 1027.00 | 1056.00 |
| BC | 0 | 294 | 294 | 6 | 0.00 | 49.00 | 49.00 |

1Mean abundance of *Cx. pipiens*females per CDC light trap night = (Total number *Cx. pipiens*females collected) / (Number CDC light trap nights).

2Mean abundance of *Cx. tarsalis*females per CDC light trap night = (Total number *Cx. tarsalis* females collected) / (Number CDC light trap nights).

3Mean abundance of All *Culex*females per CDC light trap night = (Total number All *Culex*females collected) / (Number CDC light trap nights).

**Table 3a. WNV infection rate per 1,000 females for current week (CDC light trap and gravid trap catches combined)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **28** | Total number individuals examined | | | Total number pools examined | | | Total number  WNV-infected pools | | | Estimate for WNV infection rate per 1,000 females1 | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* |
| FC – Zone NW | 159 | 1413 | 1572 | 10 | 33 | 43 | 1 | 0 | 1 | 6.80 | 0.00 | 0.64 |
| FC – Zone NE | 297 | 1061 | 1358 | 15 | 27 | 42 | 0 | 1 | 1 | 0.00 | 0.94 | 0.74 |
| FC – Zone SE | 459 | 6295 | 6754 | 19 | 136 | 155 | 1 | 10 | 11 | 2.22 | 1.65 | 1.69 |
| FC – Zone SW | 158 | 2327 | 2485 | 9 | 51 | 60 | 1 | 2 | 3 | 6.59 | 0.87 | 1.23 |
| FC – Citywide | 1073 | 11096 | 12169 | 53 | 247 | 300 | 3 | 13 | 16 | 2.96 | 1.20 | 1.36 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 43 | 807 | 850 | 3 | 17 | 20 | 0 | 1 | 1 | 0.00 | 1.24 | 1.18 |
| BE | 55 | 703 | 758 | 3 | 15 | 18 | 0 | 2 | 2 | 0.00 | 2.95 | 2.73 |
| BC | 0 | 294 | 294 | 0 | 6 | 6 | 0 | 0 | 0 | N/A | 0.00 | 0.00 |

1Maximum likelihood estimate (MLE) for WNV infection rate per 1,000 females calculated using the CDC PooledInfRate 4.0 plug-in for Excel.

***Week 29***

**Table 1a. Vector Index for current week**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **29** | Mean abundance of females per trap night1 | | Estimate for proportion of  females infected with WNV2 | | **Vector Index** | | |
| *Cx. pipiens* | *Cx. tarsalis* | *Cx.*  *pipiens* | *Cx.*  *tarsalis* | ***Cx. pipiens3*** | ***Cx. tarsalis4*** | **All**  ***Culex5*** |
| FC – Zone NW | 13.11 | 215.22 | 0.0128 | 0.0010 | **0.168** | **0.224** | **0.392** |
| FC – Zone NE | 26.50 | 446.90 | 0.0069 | 0.0024 | **0.183** | **1.051** | **1.234** |
| FC – Zone SE | 8.93 | 451.60 | 0.0194 | 0.0015 | **0.173** | **0.688** | **0.862** |
| FC – Zone SW | 19.67 | 266.44 | 0.0049 | 0.0026 | **0.096** | **0.696** | **0.792** |
| FC – Citywide | 16.14 | 362.28 | 0.0110 | 0.0019 | **0.178** | **0.678** | **0.856** |
|  |  |  |  |  |  |  |  |
| LV | 16.1 | 695.2 | 0.0000 | 0.0011 | **0.000** | **0.772** | **0.772** |
| BE | 6.2 | 794.8 | 0.0000 | 0.0029 | **0.000** | **2.282** | **2.282** |
| BC | 8.2 | 40.8 | 0.0000 | 0.0156 | **0.000** | **0.636** | **0.636** |

1From Table 2a (CDC light trap catches only).

2Derived from the data presented in Table 3a for estimated infection rate per 1,000 females (CDC light trap and gravid trap catches combined).

3Vector Index for *Cx. pipiens*= (Mean abundance of *Cx. pipiens*females per trap night) x (Estimate for proportion of all *Cx. pipiens*females infected with WNV).

4Vector Index for *Cx. tarsalis*= (Mean abundance of *Cx. tarsalis*females per trap night) x (Estimate for proportion of all *Cx. tarsalis*females infected with WNV).

5Vector Index for All *Culex*= (Vector Index for *Cx. pipiens*) *+* (Vector Index for *Cx. tarsalis*).

**Table 2a. Vector abundance for current week (CDC light trap catches only)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **29** | Total number  females collected | | | Number CDC light trap nights | Mean abundance of females per CDC light trap night | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens1* | *Cx. tarsalis2* | All  *Culex3* |
| FC – Zone NW | 118 | 1937 | 2055 | 9 | 13.11 | 215.22 | 228.33 |
| FC – Zone NE | 265 | 4469 | 4734 | 10 | 26.50 | 446.90 | 473.40 |
| FC – Zone SE | 134 | 6774 | 6908 | 15 | 8.93 | 451.60 | 460.53 |
| FC – Zone SW | 177 | 2398 | 2575 | 9 | 19.67 | 266.44 | 286.11 |
| FC – Citywide | 694 | 15578 | 16272 | 43 | 16.14 | 362.28 | 378.42 |
|  |  |  |  |  |  |  |  |
| LV | 596 | 25723 | 26319 | 37 | 16.11 | 695.22 | 711.32 |
| BE | 31 | 3974 | 4005 | 5 | 6.20 | 794.80 | 801.00 |
| BC | 49 | 245 | 294 | 6 | 8.17 | 40.83 | 49.00 |

1Mean abundance of *Cx. pipiens*females per CDC light trap night = (Total number *Cx. pipiens*females collected) / (Number CDC light trap nights).

2Mean abundance of *Cx. tarsalis*females per CDC light trap night = (Total number *Cx. tarsalis* females collected) / (Number CDC light trap nights).

3Mean abundance of All *Culex*females per CDC light trap night = (Total number All *Culex*females collected) / (Number CDC light trap nights).

**Table 3a. WNV infection rate per 1,000 females for current week (CDC light trap and gravid trap catches combined)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **29** | Total number individuals examined | | | Total number pools examined | | | Total number  WNV-infected pools | | | Estimate for WNV infection rate per 1,000 females1 | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* |
| FC – Zone NW | 485 | 1941 | 2426 | 16 | 45 | 61 | 5 | 2 | 7 | 12.82 | 1.04 | 3.04 |
| FC – Zone NE | 462 | 4475 | 4937 | 17 | 95 | 112 | 3 | 10 | 13 | 6.90 | 2.35 | 2.79 |
| FC – Zone SE | 238 | 6785 | 7023 | 13 | 143 | 156 | 4 | 10 | 14 | 19.39 | 1.52 | 2.07 |
| FC – Zone SW | 193 | 2398 | 2591 | 9 | 52 | 61 | 1 | 6 | 7 | 4.88 | 2.61 | 2.82 |
| FC – Citywide | 1378 | 15599 | 16977 | 55 | 335 | 390 | 13 | 28 | 41 | 11.03 | 1.87 | 2.54 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 20 | 900 | 920 | 2 | 18 | 20 | 0 | 1 | 1 | 0.00 | 1.11 | 1.09 |
| BE | 31 | 722 | 753 | 2 | 15 | 17 | 0 | 2 | 2 | 0.00 | 2.87 | 2.75 |
| BC | 49 | 245 | 294 | 1 | 5 | 6 | 0 | 3 | 3 | 0.00 | 15.58 | 12.40 |

1Maximum likelihood estimate (MLE) for WNV infection rate per 1,000 females calculated using the CDC PooledInfRate 4.0 plug-in for Excel.

***Week 30***

**Table 1a. Vector Index for current week**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **30** | Mean abundance of females per trap night1 | | Estimate for proportion of  females infected with WNV2 | | **Vector Index** | | |
| *Cx. pipiens* | *Cx. tarsalis* | *Cx.*  *pipiens* | *Cx.*  *tarsalis* | ***Cx. pipiens3*** | ***Cx. tarsalis4*** | **All**  ***Culex5*** |
| FC – Zone NW | 5.67 | 69.44 | 0.0000 | 0.0034 | **0.000** | **0.233** | **0.233** |
| FC – Zone NE | 50.40 | 276.90 | 0.0033 | 0.0019 | **0.165** | **0.515** | **0.680** |
| FC – Zone SE | 5.33 | 84.27 | 0.0306 | 0.0016 | **0.163** | **0.136** | **0.299** |
| FC – Zone SW | 5.38 | 117.38 | 0.0000 | 0.0086 | **0.000** | **1.013** | **1.013** |
| FC – Citywide | 16.14 | 133.26 | 0.0066 | 0.0030 | **0.106** | **0.404** | **0.510** |
|  |  |  |  |  |  |  |  |
| LV | 8.1 | 266.6 | 0.0000 | 0.0160 | **0.000** | **4.271** | **4.271** |
| BE | 4.8 | 133.8 | 0.0000 | 0.0024 | **0.000** | **0.322** | **0.322** |
| BC | 0.0 | 49.0 | N/A | 0.0034 | **N/A** | **0.166** | **0.166** |

1From Table 2a (CDC light trap catches only).

2Derived from the data presented in Table 3a for estimated infection rate per 1,000 females (CDC light trap and gravid trap catches combined).

3Vector Index for *Cx. pipiens*= (Mean abundance of *Cx. pipiens*females per trap night) x (Estimate for proportion of all *Cx. pipiens*females infected with WNV).

4Vector Index for *Cx. tarsalis*= (Mean abundance of *Cx. tarsalis*females per trap night) x (Estimate for proportion of all *Cx. tarsalis*females infected with WNV).

5Vector Index for All *Culex*= (Vector Index for *Cx. pipiens*) *+* (Vector Index for *Cx. tarsalis*).

**Table 2a. Vector abundance for current week (CDC light trap catches only)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **30** | Total number  females collected | | | Number CDC light trap nights | Mean abundance of females per CDC light trap night | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens1* | *Cx. tarsalis2* | All  *Culex3* |
| FC – Zone NW | 51 | 625 | 676 | 9 | 5.67 | 69.44 | 75.11 |
| FC – Zone NE | 504 | 2769 | 3273 | 10 | 50.40 | 276.90 | 327.30 |
| FC – Zone SE | 80 | 1264 | 1344 | 15 | 5.33 | 84.27 | 89.60 |
| FC – Zone SW | 43 | 939 | 982 | 8 | 5.38 | 117.38 | 122.75 |
| FC – Citywide | 678 | 5597 | 6275 | 42 | 16.14 | 133.26 | 149.40 |
|  |  |  |  |  |  |  |  |
| LV | 301 | 9865 | 10166 | 37 | 8.14 | 266.62 | 274.76 |
| BE | 24 | 669 | 693 | 5 | 4.80 | 133.80 | 138.60 |
| BC | 0 | 294 | 294 | 6 | 0.00 | 49.00 | 49.00 |

1Mean abundance of *Cx. pipiens*females per CDC light trap night = (Total number *Cx. pipiens*females collected) / (Number CDC light trap nights).

2Mean abundance of *Cx. tarsalis*females per CDC light trap night = (Total number *Cx. tarsalis* females collected) / (Number CDC light trap nights).

3Mean abundance of All *Culex*females per CDC light trap night = (Total number All *Culex*females collected) / (Number CDC light trap nights).

**Table 3a. WNV infection rate per 1,000 females for current week (CDC light trap and gravid trap catches combined)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **30** | Total number individuals examined | | | Total number pools examined | | | Total number  WNV-infected pools | | | Estimate for WNV infection rate per 1,000 females1 | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* |
| FC – Zone NW | 84 | 625 | 709 | 9 | 16 | 25 | 0 | 2 | 2 | 0.00 | 3.35 | 2.95 |
| FC – Zone NE | 636 | 2775 | 3411 | 23 | 63 | 86 | 2 | 5 | 7 | 3.27 | 1.86 | 2.14 |
| FC – Zone SE | 193 | 1269 | 1462 | 16 | 32 | 48 | 4 | 2 | 6 | 30.64 | 1.61 | 4.38 |
| FC – Zone SW | 93 | 939 | 1032 | 7 | 23 | 30 | 0 | 7 | 7 | 0.00 | 8.63 | 7.74 |
| FC – Citywide | 1006 | 5608 | 6614 | 55 | 134 | 189 | 6 | 16 | 22 | 6.56 | 3.03 | 3.57 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 18 | 690 | 708 | 5 | 14 | 19 | 0 | 8 | 8 | 0.00 | 16.02 | 15.47 |
| BE | 24 | 416 | 440 | 4 | 9 | 13 | 0 | 1 | 1 | 0.00 | 2.41 | 2.28 |
| BC | 0 | 294 | 294 | 0 | 6 | 6 | 0 | 1 | 1 | N/A | 3.38 | 3.38 |

1Maximum likelihood estimate (MLE) for WNV infection rate per 1,000 females calculated using the CDC PooledInfRate 4.0 plug-in for Excel.

***Week 31***

**Table 1a. Vector Index for current week**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **31** | Mean abundance of females per trap night1 | | Estimate for proportion of  females infected with WNV2 | | **Vector Index** | | |
| *Cx. pipiens* | *Cx. tarsalis* | *Cx.*  *pipiens* | *Cx.*  *tarsalis* | ***Cx. pipiens3*** | ***Cx. tarsalis4*** | **All**  ***Culex5*** |
| FC – Zone NW | 3.67 | 26.22 | 0.0227 | 0.0210 | **0.083** | **0.552** | **0.635** |
| FC – Zone NE | 9.10 | 17.90 | 0.0000 | 0.0053 | **0.000** | **0.095** | **0.095** |
| FC – Zone SE | 12.57 | 145.14 | 0.0274 | 0.0068 | **0.345** | **0.993** | **1.337** |
| FC – Zone SW | 3.56 | 20.22 | 0.0179 | 0.0120 | **0.064** | **0.243** | **0.307** |
| FC – Citywide | 7.90 | 62.60 | 0.0215 | 0.0084 | **0.170** | **0.527** | **0.697** |
|  |  |  |  |  |  |  |  |
| LV | 9.1 | 173.8 | 0.0000 | 0.0017 | **0.000** | **0.298** | **0.298** |
| BE | 9.8 | 42.0 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| BC | 0.0 | 47.0 | N/A | 0.0000 | **N/A** | **0.000** | **0.000** |

1From Table 2a (CDC light trap catches only).

2Derived from the data presented in Table 3a for estimated infection rate per 1,000 females (CDC light trap and gravid trap catches combined).

3Vector Index for *Cx. pipiens*= (Mean abundance of *Cx. pipiens*females per trap night) x (Estimate for proportion of all *Cx. pipiens*females infected with WNV).

4Vector Index for *Cx. tarsalis*= (Mean abundance of *Cx. tarsalis*females per trap night) x (Estimate for proportion of all *Cx. tarsalis*females infected with WNV).

5Vector Index for All *Culex*= (Vector Index for *Cx. pipiens*) *+* (Vector Index for *Cx. tarsalis*).

**Table 2a. Vector abundance for current week (CDC light trap catches only)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **31** | Total number  females collected | | | Number CDC light trap nights | Mean abundance of females per CDC light trap night | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens1* | *Cx. tarsalis2* | All  *Culex3* |
| FC – Zone NW | 33 | 236 | 269 | 9 | 3.67 | 26.22 | 29.89 |
| FC – Zone NE | 91 | 179 | 270 | 10 | 9.10 | 17.90 | 27.00 |
| FC – Zone SE | 176 | 2032 | 2208 | 14 | 12.57 | 145.14 | 157.71 |
| FC – Zone SW | 32 | 182 | 214 | 9 | 3.56 | 20.22 | 23.78 |
| FC – Citywide | 332 | 2629 | 2961 | 42 | 7.90 | 62.60 | 70.50 |
|  |  |  |  |  |  |  |  |
| LV | 337 | 6429 | 6766 | 37 | 9.11 | 173.76 | 182.86 |
| BE | 49 | 210 | 259 | 5 | 9.80 | 42.00 | 51.80 |
| BC | 0 | 282 | 282 | 6 | 0.00 | 47.00 | 47.00 |

1Mean abundance of *Cx. pipiens*females per CDC light trap night = (Total number *Cx. pipiens*females collected) / (Number CDC light trap nights).

2Mean abundance of *Cx. tarsalis*females per CDC light trap night = (Total number *Cx. tarsalis* females collected) / (Number CDC light trap nights).

3Mean abundance of All *Culex*females per CDC light trap night = (Total number All *Culex*females collected) / (Number CDC light trap nights)

**Table 3a. WNV infection rate per 1,000 females for current week (CDC light trap and gravid trap catches combined)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **31** | Total number individuals examined | | | Total number pools examined | | | Total number  WNV-infected pools | | | Estimate for WNV infection rate per 1,000 females1 | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* |
| FC – Zone NW | 147 | 237 | 384 | 11 | 10 | 21 | 3 | 4 | 7 | 22.68 | 21.05 | 23.09 |
| FC – Zone NE | 92 | 179 | 271 | 7 | 11 | 18 | 0 | 1 | 1 | 0.00 | 5.31 | 3.56 |
| FC – Zone SE | 394 | 2032 | 2426 | 18 | 47 | 65 | 7 | 12 | 19 | 27.41 | 6.84 | 9.49 |
| FC – Zone SW | 65 | 182 | 247 | 8 | 10 | 18 | 1 | 2 | 3 | 17.93 | 12.03 | 14.18 |
| FC – Citywide | 698 | 2630 | 3328 | 44 | 78 | 122 | 11 | 19 | 30 | 21.47 | 8.42 | 10.88 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 25 | 585 | 610 | 3 | 14 | 17 | 0 | 1 | 1 | 0.00 | 1.71 | 1.64 |
| BE | 49 | 210 | 259 | 4 | 7 | 11 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| BC | 0 | 282 | 282 | 0 | 6 | 6 | 0 | 0 | 0 | N/A | 0.00 | 0.00 |

1Maximum likelihood estimate (MLE) for WNV infection rate per 1,000 females calculated using the CDC PooledInfRate 4.0 plug-in for Excel.

***Week 32***

**Table 1a. Vector Index for current week**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **32** | Mean abundance of females per trap night1 | | Estimate for proportion of  females infected with WNV2 | | **Vector Index** | | |
| *Cx. pipiens* | *Cx. tarsalis* | *Cx.*  *pipiens* | *Cx.*  *tarsalis* | ***Cx. pipiens3*** | ***Cx. tarsalis4*** | **All**  ***Culex5*** |
| FC – Zone NW | 6.67 | 20.33 | 0.0172 | 0.0202 | **0.115** | **0.411** | **0.525** |
| FC – Zone NE | 15.70 | 21.00 | 0.0048 | 0.0165 | **0.075** | **0.347** | **0.422** |
| FC – Zone SE | 6.07 | 31.33 | 0.0093 | 0.0119 | **0.056** | **0.374** | **0.430** |
| FC – Zone SW | 2.88 | 17.38 | 0.0000 | 0.0165 | **0.000** | **0.286** | **0.286** |
| FC – Citywide | 7.88 | 23.86 | 0.0093 | 0.0157 | **0.073** | **0.375** | **0.449** |
|  |  |  |  |  |  |  |  |
| LV | 20.4 | 88.6 | 0.0000 | 0.0100 | **0.000** | **0.889** | **0.889** |
| BE | 10.0 | 117.2 | 0.0000 | 0.0113 | **0.000** | **1.320** | **1.320** |
| BC | 0.0 | 47.4 | N/A | 0.0041 | **N/A** | **0.195** | **0.195** |

1From Table 2a (CDC light trap catches only).

2Derived from the data presented in Table 3a for estimated infection rate per 1,000 females (CDC light trap and gravid trap catches combined).

3Vector Index for *Cx. pipiens*= (Mean abundance of *Cx. pipiens*females per trap night) x (Estimate for proportion of all *Cx. pipiens*females infected with WNV).

4Vector Index for *Cx. tarsalis*= (Mean abundance of *Cx. tarsalis*females per trap night) x (Estimate for proportion of all *Cx. tarsalis*females infected with WNV).

5Vector Index for All *Culex*= (Vector Index for *Cx. pipiens*) *+* (Vector Index for *Cx. tarsalis*).

**Table 2a. Vector abundance for current week (CDC light trap catches only)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **32** | Total number  females collected | | | Number CDC light trap nights | Mean abundance of females per CDC light trap night | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens1* | *Cx. tarsalis2* | All  *Culex3* |
| FC – Zone NW | 60 | 183 | 243 | 9 | 6.67 | 20.33 | 27.00 |
| FC – Zone NE | 157 | 210 | 367 | 10 | 15.70 | 21.00 | 36.70 |
| FC – Zone SE | 91 | 470 | 561 | 15 | 6.07 | 31.33 | 37.40 |
| FC – Zone SW | 23 | 139 | 162 | 8 | 2.88 | 17.38 | 20.25 |
| FC – Citywide | 331 | 1002 | 1333 | 42 | 7.88 | 23.86 | 31.74 |
|  |  |  |  |  |  |  |  |
| LV | 755 | 3277 | 4032 | 37 | 20.41 | 88.57 | 108.97 |
| BE | 50 | 586 | 636 | 5 | 10.00 | 117.20 | 127.20 |
| BC | 0 | 237 | 237 | 5 | 0.00 | 47.40 | 47.40 |

1Mean abundance of *Cx. pipiens*females per CDC light trap night = (Total number *Cx. pipiens*females collected) / (Number CDC light trap nights).

2Mean abundance of *Cx. tarsalis*females per CDC light trap night = (Total number *Cx. tarsalis* females collected) / (Number CDC light trap nights).

3Mean abundance of All *Culex*females per CDC light trap night = (Total number All *Culex*females collected) / (Number CDC light trap nights).

**Table 3a. WNV infection rate per 1,000 females for current week (CDC light trap and gravid trap catches combined)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **32** | Total number individuals examined | | | Total number pools examined | | | Total number  WNV-infected pools | | | Estimate for WNV infection rate per 1,000 females1 | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* |
| FC – Zone NW | 126 | 183 | 309 | 10 | 9 | 19 | 2 | 3 | 5 | 17.21 | 20.19 | 20.01 |
| FC – Zone NE | 204 | 210 | 414 | 15 | 10 | 25 | 1 | 3 | 4 | 4.79 | 16.52 | 10.59 |
| FC – Zone SE | 386 | 478 | 864 | 21 | 18 | 39 | 3 | 5 | 8 | 9.28 | 11.93 | 11.04 |
| FC – Zone SW | 25 | 139 | 164 | 8 | 9 | 17 | 0 | 2 | 2 | 0.00 | 16.48 | 13.87 |
| FC – Citywide | 741 | 1010 | 1751 | 54 | 46 | 100 | 6 | 13 | 19 | 9.30 | 15.74 | 13.04 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 146 | 481 | 627 | 5 | 12 | 17 | 0 | 4 | 4 | 0.00 | 10.04 | 7.33 |
| BE | 50 | 540 | 590 | 5 | 13 | 18 | 0 | 5 | 5 | 0.00 | 11.26 | 10.15 |
| BC | 0 | 237 | 237 | 0 | 5 | 5 | 0 | 1 | 1 | N/A | 4.11 | 4.11 |

1Maximum likelihood estimate (MLE) for WNV infection rate per 1,000 females calculated using the CDC PooledInfRate 4.0 plug-in for Excel.

***Week 33***

**Table 1a. Vector Index for current week**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **33** | Mean abundance of females per trap night1 | | Estimate for proportion of  females infected with WNV2 | | **Vector Index** | | |
| *Cx. pipiens* | *Cx. tarsalis* | *Cx.*  *pipiens* | *Cx.*  *tarsalis* | ***Cx. pipiens3*** | ***Cx. tarsalis4*** | **All**  ***Culex5*** |
| FC – Zone NW | 6.67 | 14.89 | 0.0257 | 0.0073 | **0.171** | **0.109** | **0.281** |
| FC – Zone NE | 20.10 | 20.30 | 0.0192 | 0.0170 | **0.387** | **0.346** | **0.732** |
| FC – Zone SE | 2.27 | 7.87 | 0.0049 | 0.0081 | **0.011** | **0.064** | **0.075** |
| FC – Zone SW | 10.78 | 32.00 | 0.0182 | 0.0171 | **0.196** | **0.546** | **0.743** |
| FC – Citywide | 9.12 | 17.28 | 0.0173 | 0.0143 | **0.157** | **0.247** | **0.405** |
|  |  |  |  |  |  |  |  |
| LV | 17.7 | 65.5 | 0.0086 | 0.0067 | **0.152** | **0.441** | **0.593** |
| BE | 16.0 | 67.0 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| BC | 0.0 | 36.2 | N/A | 0.0053 | **N/A** | **0.193** | **0.193** |

1From Table 2a (CDC light trap catches only).

2Derived from the data presented in Table 3a for estimated infection rate per 1,000 females (CDC light trap and gravid trap catches combined).

3Vector Index for *Cx. pipiens*= (Mean abundance of *Cx. pipiens*females per trap night) x (Estimate for proportion of all *Cx. pipiens*females infected with WNV).

4Vector Index for *Cx. tarsalis*= (Mean abundance of *Cx. tarsalis*females per trap night) x (Estimate for proportion of all *Cx. tarsalis*females infected with WNV).

5Vector Index for All *Culex*= (Vector Index for *Cx. pipiens*) *+* (Vector Index for *Cx. tarsalis*).

**Table 2a. Vector abundance for current week (CDC light trap catches only)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **33** | Total number  females collected | | | Number CDC light trap nights | Mean abundance of females per CDC light trap night | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens1* | *Cx. tarsalis2* | All  *Culex3* |
| FC – Zone NW | 60 | 134 | 194 | 9 | 6.67 | 14.89 | 21.56 |
| FC – Zone NE | 201 | 203 | 404 | 10 | 20.10 | 20.30 | 40.40 |
| FC – Zone SE | 34 | 118 | 152 | 15 | 2.27 | 7.87 | 10.13 |
| FC – Zone SW | 97 | 288 | 385 | 9 | 10.78 | 32.00 | 42.78 |
| FC – Citywide | 392 | 743 | 1135 | 43 | 9.12 | 17.28 | 26.40 |
|  |  |  |  |  |  |  |  |
| LV | 654 | 2425 | 3079 | 37 | 17.68 | 65.54 | 83.22 |
| BE | 80 | 335 | 415 | 5 | 16.00 | 67.00 | 83.00 |
| BC | 0 | 181 | 181 | 5 | 0.00 | 36.20 | 36.20 |

1Mean abundance of *Cx. pipiens*females per CDC light trap night = (Total number *Cx. pipiens*females collected) / (Number CDC light trap nights).

2Mean abundance of *Cx. tarsalis*females per CDC light trap night = (Total number *Cx. tarsalis* females collected) / (Number CDC light trap nights).

3Mean abundance of All *Culex*females per CDC light trap night = (Total number All *Culex*females collected) / (Number CDC light trap nights).

**Table 3a. WNV infection rate per 1,000 females for current week (CDC light trap and gravid trap catches combined)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **33** | Total number individuals examined | | | Total number pools examined | | | Total number  WNV-infected pools | | | Estimate for WNV infection rate per 1,000 females1 | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* |
| FC – Zone NW | 142 | 134 | 276 | 10 | 9 | 19 | 3 | 1 | 4 | 25.68 | 7.35 | 16.73 |
| FC – Zone NE | 327 | 206 | 533 | 15 | 11 | 26 | 5 | 3 | 8 | 19.23 | 17.03 | 19.15 |
| FC – Zone SE | 189 | 119 | 308 | 14 | 15 | 29 | 1 | 1 | 2 | 4.94 | 8.10 | 6.42 |
| FC – Zone SW | 125 | 288 | 413 | 7 | 12 | 19 | 2 | 4 | 6 | 18.23 | 17.07 | 18.16 |
| FC – Citywide | 783 | 747 | 1530 | 46 | 47 | 93 | 11 | 9 | 20 | 17.26 | 14.31 | 15.99 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 116 | 500 | 616 | 6 | 12 | 18 | 1 | 3 | 4 | 8.63 | 6.73 | 7.48 |
| BE | 80 | 257 | 337 | 4 | 8 | 12 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| BC | 0 | 181 | 181 | 0 | 5 | 5 | 0 | 1 | 1 | N/A | 5.33 | 5.33 |

1Maximum likelihood estimate (MLE) for WNV infection rate per 1,000 females calculated using the CDC PooledInfRate 4.0 plug-in for Excel.

***Week 34***

**Table 1a. Vector Index for current week**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **34** | Mean abundance of females per trap night1 | | Estimate for proportion of  females infected with WNV2 | | **Vector Index** | | |
| *Cx. pipiens* | *Cx. tarsalis* | *Cx.*  *pipiens* | *Cx.*  *tarsalis* | ***Cx. pipiens3*** | ***Cx. tarsalis4*** | **All**  ***Culex5*** |
| FC – Zone NW | 5.67 | 14.56 | 0.0105 | 0.0150 | **0.059** | **0.219** | **0.278** |
| FC – Zone NE | 6.70 | 13.10 | 0.0157 | 0.0143 | **0.105** | **0.188** | **0.293** |
| FC – Zone SE | 8.47 | 39.00 | 0.0387 | 0.0017 | **0.328** | **0.067** | **0.395** |
| FC – Zone SW | 8.89 | 22.89 | 0.0247 | 0.0095 | **0.219** | **0.218** | **0.438** |
| FC – Citywide | 7.56 | 24.49 | 0.0235 | 0.0069 | **0.177** | **0.168** | **0.346** |
|  |  |  |  |  |  |  |  |
| LV | 15.9 | 39.9 | 0.0066 | 0.0000 | **0.105** | **0.000** | **0.105** |
| BE | 14.2 | 47.6 | 0.0000 | 0.0237 | **0.000** | **1.127** | **1.127** |
| BC | 0.0 | 42.2 | N/A | 0.0048 | **N/A** | **0.201** | **0.201** |

1From Table 2a (CDC light trap catches only).

2Derived from the data presented in Table 3a for estimated infection rate per 1,000 females (CDC light trap and gravid trap catches combined).

3Vector Index for *Cx. pipiens*= (Mean abundance of *Cx. pipiens*females per trap night) x (Estimate for proportion of all *Cx. pipiens*females infected with WNV).

4Vector Index for *Cx. tarsalis*= (Mean abundance of *Cx. tarsalis*females per trap night) x (Estimate for proportion of all *Cx. tarsalis*females infected with WNV).

5Vector Index for All *Culex*= (Vector Index for *Cx. pipiens*) *+* (Vector Index for *Cx. tarsalis*).

**Table 2a. Vector abundance for current week (CDC light trap catches only)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **34** | Total number  females collected | | | Number CDC light trap nights | Mean abundance of females per CDC light trap night | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens1* | *Cx. tarsalis2* | All  *Culex3* |
| FC – Zone NW | 51 | 131 | 182 | 9 | 5.67 | 14.56 | 20.22 |
| FC – Zone NE | 67 | 131 | 198 | 10 | 6.70 | 13.10 | 19.80 |
| FC – Zone SE | 127 | 585 | 712 | 15 | 8.47 | 39.00 | 47.47 |
| FC – Zone SW | 80 | 206 | 286 | 9 | 8.89 | 22.89 | 31.78 |
| FC – Citywide | 325 | 1053 | 1378 | 43 | 7.56 | 24.49 | 32.05 |
|  |  |  |  |  |  |  |  |
| LV | 587 | 1475 | 2062 | 37 | 15.86 | 39.86 | 55.73 |
| BE | 71 | 238 | 309 | 5 | 14.20 | 47.60 | 61.80 |
| BC | 0 | 211 | 211 | 5 | 0.00 | 42.20 | 42.20 |

1Mean abundance of *Cx. pipiens*females per CDC light trap night = (Total number *Cx. pipiens*females collected) / (Number CDC light trap nights).

2Mean abundance of *Cx. tarsalis*females per CDC light trap night = (Total number *Cx. tarsalis* females collected) / (Number CDC light trap nights).

3Mean abundance of All *Culex*females per CDC light trap night = (Total number All *Culex*females collected) / (Number CDC light trap nights).

**Table 3a. WNV infection rate per 1,000 females for current week (CDC light trap and gravid trap catches combined)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **34** | Total number individuals examined | | | Total number pools examined | | | Total number  WNV-infected pools | | | Estimate for WNV infection rate per 1,000 females1 | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* |
| FC – Zone NW | 209 | 133 | 342 | 12 | 11 | 23 | 2 | 2 | 4 | 10.49 | 15.04 | 12.96 |
| FC – Zone NE | 124 | 133 | 257 | 12 | 12 | 24 | 2 | 2 | 4 | 15.66 | 14.35 | 15.96 |
| FC – Zone SE | 217 | 586 | 803 | 15 | 23 | 38 | 6 | 1 | 7 | 38.71 | 1.72 | 9.59 |
| FC – Zone SW | 95 | 206 | 301 | 9 | 10 | 19 | 2 | 2 | 4 | 24.66 | 9.54 | 14.37 |
| FC – Citywide | 645 | 1058 | 1703 | 48 | 56 | 104 | 12 | 7 | 19 | 23.47 | 6.87 | 12.49 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 139 | 344 | 483 | 6 | 9 | 15 | 1 | 0 | 1 | 6.61 | 0.00 | 2.03 |
| BE | 71 | 238 | 309 | 5 | 8 | 13 | 0 | 4 | 4 | 0.00 | 23.68 | 16.66 |
| BC | 0 | 211 | 211 | 0 | 5 | 5 | 0 | 1 | 1 | N/A | 4.77 | 4.77 |

1Maximum likelihood estimate (MLE) for WNV infection rate per 1,000 females calculated using the CDC PooledInfRate 4.0 plug-in for Excel.

***Week 35***

**Table 1a. Vector Index for current week**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **35** | Mean abundance of females per trap night1 | | Estimate for proportion of  females infected with WNV2 | | **Vector Index** | | |
| *Cx. pipiens* | *Cx. tarsalis* | *Cx.*  *pipiens* | *Cx.*  *tarsalis* | ***Cx. pipiens3*** | ***Cx. tarsalis4*** | **All**  ***Culex5*** |
| FC – Zone NW | 5.11 | 5.00 | 0.0081 | 0.0000 | **0.041** | **0.000** | **0.041** |
| FC – Zone NE | 16.40 | 6.70 | 0.0085 | 0.0170 | **0.140** | **0.114** | **0.253** |
| FC – Zone SE | 2.80 | 3.20 | 0.0396 | 0.0215 | **0.111** | **0.069** | **0.180** |
| FC – Zone SW | 1.67 | 4.33 | 0.0162 | 0.0000 | **0.027** | **0.000** | **0.027** |
| FC – Citywide | 6.21 | 4.63 | 0.0153 | 0.0108 | **0.095** | **0.050** | **0.145** |
|  |  |  |  |  |  |  |  |
| LV | 9.1 | 16.2 | 0.0000 | 0.0042 | **0.000** | **0.068** | **0.068** |
| BE | 10.6 | 15.0 | 0.0000 | 0.0142 | **0.000** | **0.213** | **0.213** |
| BC | 21.0 | 17.4 | N/A | 0.0000 | **N/A** | **0.000** | **0.000** |

1From Table 2a (CDC light trap catches only).

2Derived from the data presented in Table 3a for estimated infection rate per 1,000 females (CDC light trap and gravid trap catches combined).

3Vector Index for *Cx. pipiens*= (Mean abundance of *Cx. pipiens*females per trap night) x (Estimate for proportion of all *Cx. pipiens*females infected with WNV).

4Vector Index for *Cx. tarsalis*= (Mean abundance of *Cx. tarsalis*females per trap night) x (Estimate for proportion of all *Cx. tarsalis*females infected with WNV).

5Vector Index for All *Culex*= (Vector Index for *Cx. pipiens*) *+* (Vector Index for *Cx. tarsalis*).

**Table 2a. Vector abundance for current week (CDC light trap catches only)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **35** | Total number  females collected | | | Number CDC light trap nights | Mean abundance of females per CDC light trap night | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens1* | *Cx. tarsalis2* | All  *Culex3* |
| FC – Zone NW | 46 | 45 | 91 | 9 | 5.11 | 5.00 | 10.11 |
| FC – Zone NE | 164 | 67 | 231 | 10 | 16.40 | 6.70 | 23.10 |
| FC – Zone SE | 42 | 48 | 90 | 15 | 2.80 | 3.20 | 6.00 |
| FC – Zone SW | 15 | 39 | 54 | 9 | 1.67 | 4.33 | 6.00 |
| FC – Citywide | 267 | 199 | 466 | 43 | 6.21 | 4.63 | 10.84 |
|  |  |  |  |  |  |  |  |
| LV | 338 | 598 | 936 | 37 | 9.14 | 16.16 | 25.30 |
| BE | 53 | 75 | 128 | 5 | 10.60 | 15.00 | 25.60 |
| BC | 105 | 87 | 192 | 5 | 21.00 | 17.40 | 38.40 |

1Mean abundance of *Cx. pipiens*females per CDC light trap night = (Total number *Cx. pipiens*females collected) / (Number CDC light trap nights).

2Mean abundance of *Cx. tarsalis*females per CDC light trap night = (Total number *Cx. tarsalis* females collected) / (Number CDC light trap nights).

3Mean abundance of All *Culex*females per CDC light trap night = (Total number All *Culex*females collected) / (Number CDC light trap nights).

**Table 3a. WNV infection rate per 1,000 females for current week (CDC light trap and gravid trap catches combined)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **35** | Total number individuals examined | | | Total number pools examined | | | Total number  WNV-infected pools | | | Estimate for WNV infection rate per 1,000 females1 | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* |
| FC – Zone NW | 128 | 45 | 173 | 8 | 7 | 15 | 1 | 0 | 1 | 8.12 | 0.00 | 6.07 |
| FC – Zone NE | 257 | 68 | 325 | 15 | 11 | 26 | 2 | 1 | 3 | 8.52 | 16.98 | 10.52 |
| FC – Zone SE | 97 | 48 | 145 | 15 | 13 | 28 | 3 | 1 | 4 | 39.58 | 21.47 | 33.59 |
| FC – Zone SW | 46 | 39 | 85 | 8 | 9 | 17 | 1 | 0 | 1 | 16.16 | 0.00 | 10.82 |
| FC – Citywide | 528 | 200 | 728 | 46 | 40 | 86 | 7 | 2 | 9 | 15.35 | 10.77 | 14.17 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 110 | 242 | 352 | 4 | 8 | 12 | 0 | 1 | 1 | 0.00 | 4.18 | 2.86 |
| BE | 53 | 75 | 128 | 5 | 5 | 10 | 0 | 1 | 1 | 0.00 | 14.19 | 8.13 |
| BC | 30 | 25 | 55 | 2 | 3 | 5 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |

1Maximum likelihood estimate (MLE) for WNV infection rate per 1,000 females calculated using the CDC PooledInfRate 4.0 plug-in for Excel.

***Week 36***

**Table 1a. Vector Index for current week**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **36** | Mean abundance of females per trap night1 | | Estimate for proportion of  females infected with WNV2 | | **Vector Index** | | |
| *Cx. pipiens* | *Cx. tarsalis* | *Cx.*  *pipiens* | *Cx.*  *tarsalis* | ***Cx. pipiens3*** | ***Cx. tarsalis4*** | **All**  ***Culex5*** |
| FC – Zone NW | 7.00 | 0.71 | 0.0218 | 0.0000 | **0.153** | **0.000** | **0.153** |
| FC – Zone NE | 25.33 | 2.44 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SE | 8.93 | 2.14 | 0.0077 | 0.0000 | **0.068** | **0.000** | **0.068** |
| FC – Zone SW | 3.78 | 1.56 | 0.0227 | 0.0000 | **0.086** | **0.000** | **0.086** |
| FC – Citywide | 11.18 | 1.82 | 0.0070 | 0.0000 | **0.078** | **0.000** | **0.078** |
|  |  |  |  |  |  |  |  |
| LV | 7.0 | 4.7 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| BE | N/A | N/A | N/A | N/A | **N/A** | **N/A** | **N/A** |
| BC | 0.0 | 2.6 | N/A | 0.0000 | **N/A** | **0.000** | **0.000** |

1From Table 2a (CDC light trap catches only).

2Derived from the data presented in Table 3a for estimated infection rate per 1,000 females (CDC light trap and gravid trap catches combined).

3Vector Index for *Cx. pipiens*= (Mean abundance of *Cx. pipiens*females per trap night) x (Estimate for proportion of all *Cx. pipiens*females infected with WNV).

4Vector Index for *Cx. tarsalis*= (Mean abundance of *Cx. tarsalis*females per trap night) x (Estimate for proportion of all *Cx. tarsalis*females infected with WNV).

5Vector Index for All *Culex*= (Vector Index for *Cx. pipiens*) *+* (Vector Index for *Cx. tarsalis*).

**Table 2a. Vector abundance for current week (CDC light trap catches only)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **36** | Total number  females collected | | | Number CDC light trap nights | Mean abundance of females per CDC light trap night | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens1* | *Cx. tarsalis2* | All  *Culex3* |
| FC – Zone NW | 49 | 5 | 54 | 7 | 7.00 | 0.71 | 7.71 |
| FC – Zone NE | 228 | 22 | 250 | 9 | 25.33 | 2.44 | 27.78 |
| FC – Zone SE | 125 | 30 | 155 | 14 | 8.93 | 2.14 | 11.07 |
| FC – Zone SW | 34 | 14 | 48 | 9 | 3.78 | 1.56 | 5.33 |
| FC – Citywide | 436 | 71 | 507 | 39 | 11.18 | 1.82 | 13.00 |
|  |  |  |  |  |  |  |  |
| LV | 253 | 168 | 421 | 36 | 7.03 | 4.67 | 11.69 |
| BE | N/A | N/A | N/A | 0 | N/A | N/A | N/A |
| BC | 0 | 13 | 13 | 5 | 0.00 | 2.60 | 2.60 |

1Mean abundance of *Cx. pipiens*females per CDC light trap night = (Total number *Cx. pipiens*females collected) / (Number CDC light trap nights).

2Mean abundance of *Cx. tarsalis*females per CDC light trap night = (Total number *Cx. tarsalis* females collected) / (Number CDC light trap nights).

3Mean abundance of All *Culex*females per CDC light trap night = (Total number All *Culex*females collected) / (Number CDC light trap nights).

**Table 3a. WNV infection rate per 1,000 females for current week (CDC light trap and gravid trap catches combined)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **36** | Total number individuals examined | | | Total number pools examined | | | Total number  WNV-infected pools | | | Estimate for WNV infection rate per 1,000 females1 | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* |
| FC – Zone NW | 49 | 5 | 54 | 5 | 2 | 7 | 1 | 0 | 1 | 21.85 | 0.00 | 21.48 |
| FC – Zone NE | 228 | 22 | 250 | 12 | 6 | 18 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SE | 125 | 30 | 155 | 13 | 10 | 23 | 1 | 0 | 1 | 7.66 | 0.00 | 6.29 |
| FC – Zone SW | 34 | 14 | 48 | 6 | 5 | 11 | 1 | 0 | 1 | 22.65 | 0.00 | 18.39 |
| FC – Citywide | 436 | 71 | 507 | 36 | 23 | 59 | 3 | 0 | 3 | 6.97 | 0.00 | 6.01 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 55 | 46 | 101 | 4 | 5 | 9 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| BE | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| BC | 0 | 13 | 13 | 0 | 5 | 5 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |

1Maximum likelihood estimate (MLE) for WNV infection rate per 1,000 females calculated using the CDC PooledInfRate 4.0 plug-in for Excel.

***Week 37***

**Table 1a. Vector Index for current week**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **37** | Mean abundance of females per trap night1 | | Estimate for proportion of  females infected with WNV2 | | **Vector Index** | | |
| *Cx. pipiens* | *Cx. tarsalis* | *Cx.*  *pipiens* | *Cx.*  *tarsalis* | ***Cx. pipiens3*** | ***Cx. tarsalis4*** | **All**  ***Culex5*** |
| FC – Zone NW | 1.89 | 0.00 | 0.0000 | N/A | **0.000** | **N/A** | **0.000** |
| FC – Zone NE | 31.20 | 1.10 | 0.0056 | 0.0000 | **0.175** | **0.000** | **0.175** |
| FC – Zone SE | 6.73 | 0.53 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SW | 1.00 | 0.44 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Citywide | 10.21 | 0.53 | 0.0039 | 0.0000 | **0.039** | **0.000** | **0.039** |
|  |  |  |  |  |  |  |  |
| LV | N/A | N/A | N/A | N/A | **N/A** | **N/A** | **N/A** |
| BE | N/A | N/A | N/A | N/A | **N/A** | **N/A** | **N/A** |
| BC | N/A | N/A | N/A | N/A | **N/A** | **N/A** | **N/A** |

1From Table 2a (CDC light trap catches only).

2Derived from the data presented in Table 3a for estimated infection rate per 1,000 females (CDC light trap and gravid trap catches combined).

3Vector Index for *Cx. pipiens*= (Mean abundance of *Cx. pipiens*females per trap night) x (Estimate for proportion of all *Cx. pipiens*females infected with WNV).

4Vector Index for *Cx. tarsalis*= (Mean abundance of *Cx. tarsalis*females per trap night) x (Estimate for proportion of all *Cx. tarsalis*females infected with WNV).

5Vector Index for All *Culex*= (Vector Index for *Cx. pipiens*) *+* (Vector Index for *Cx. tarsalis*).

**Table 2a. Vector abundance for current week (CDC light trap catches only)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **37** | Total number  females collected | | | Number CDC light trap nights | Mean abundance of females per CDC light trap night | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens1* | *Cx. tarsalis2* | All  *Culex3* |
| FC – Zone NW | 17 | 0 | 17 | 9 | 1.89 | 0.00 | 1.89 |
| FC – Zone NE | 312 | 11 | 323 | 10 | 31.20 | 1.10 | 32.30 |
| FC – Zone SE | 101 | 8 | 109 | 15 | 6.73 | 0.53 | 7.27 |
| FC – Zone SW | 9 | 4 | 13 | 9 | 1.00 | 0.44 | 1.44 |
| FC – Citywide | 439 | 23 | 462 | 43 | 10.21 | 0.53 | 10.74 |
|  |  |  |  |  |  |  |  |
| LV | N/A | N/A | N/A | 0 | N/A | N/A | N/A |
| BE | N/A | N/A | N/A | 0 | N/A | N/A | N/A |
| BC | N/A | N/A | N/A | 0 | N/A | N/A | N/A |

1Mean abundance of *Cx. pipiens*females per CDC light trap night = (Total number *Cx. pipiens*females collected) / (Number CDC light trap nights).

2Mean abundance of *Cx. tarsalis*females per CDC light trap night = (Total number *Cx. tarsalis* females collected) / (Number CDC light trap nights).

3Mean abundance of All *Culex*females per CDC light trap night = (Total number All *Culex*females collected) / (Number CDC light trap nights).

**Table 3a. WNV infection rate per 1,000 females for current week (CDC light trap and gravid trap catches combined)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week: **37** | Total number individuals examined | | | Total number pools examined | | | Total number  WNV-infected pools | | | Estimate for WNV infection rate per 1,000 females1 | | |
| *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* | *Cx. pipiens* | *Cx. tarsalis* | All *Culex* |
| FC – Zone NW | 26 | 0 | 26 | 8 | 0 | 8 | 0 | 0 | 0 | 0.00 | N/A | 0.00 |
| FC – Zone NE | 354 | 11 | 365 | 13 | 3 | 16 | 2 | 0 | 2 | 5.61 | 0.00 | 5.46 |
| FC – Zone SE | 130 | 8 | 138 | 15 | 7 | 22 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SW | 14 | 4 | 18 | 5 | 1 | 6 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Citywide | 524 | 23 | 547 | 41 | 11 | 52 | 2 | 0 | 2 | 3.85 | 0.00 | 5.29 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| BE | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| BC | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

1Maximum likelihood estimate (MLE) for WNV infection rate per 1,000 females calculated using the CDC PooledInfRate 4.0 plug-in for Excel.