**CSU Testing of Mosquito Pools for West Nile Virus, 2020 – Final Report**

**Summary for 2020 WNV testing season**

* During the 2020 season, CSU tested a total of 1219 mosquito pools (see section A below). Of these, 1027 came from Fort Collins, 128 came from Loveland, and 64 came from Berthoud. Of the Fort Collins mosquito pools, 497 were *Cx. tarsalis* and 530 were *Cx. pipiens*.
* All tested pools in Fort Collins were negative in weeks 24-29 & 36. WNV-positive pools were recorded in Fort Collins in weeks 30-35.
* All tested pools in Loveland were negative in weeks 24-31 & 34-35. WNV-positive pools were recorded in Loveland in weeks 32-33 & 36.
* All tested pools in Berthoud were negative in weeks 24-30, 32, & 34-35. WNV-positive pools were recorded in Berthoud in weeks 31 & 33. (Note that no pools were tested from Berthoud in week 36.)
* The overall numbers of WNV-positive pools were 33 from Fort Collins, 3 from Loveland, and 2 from Berthoud. The greatest number of WNV-positive pools for a single week was recorded in week 34 (n=13 positive pools, all from Fort Collins).
* Compared to historical 2006-2019 averages for Fort Collins (see section B below), the citywide Vector Index in 2020 was above the historical average in week 34. The Vector Index was at or below the historical average in weeks 24-33 and weeks 35-36.
* Compared to historical 2006-2019 averages for Fort Collins, the citywide *Culex* abundance in 2020 was at or below the historical average in weeks 24-32 & 36. The citywide *Culex* abundance was above the historical average in weeks 33-35.
* Compared to historical 2006-2019 averages for Fort Collins, the citywide WNV infection rate in 2020 was at or below the historical average in weeks 24-36. The citywide WNV infection rate did not exceed the weekly historical average at any time during the 2020 season.
* Among the four Fort Collins zones, the Vector Index exceeded 0.5 once this season, in the SE zone in week 34. Peak weekly VIs were 0.51 for the SE zone (week 34), 0.11 for the NE zone (week 35), 0.03 for the NW zone (week 34), and 0.20 for the SW zone (week 32).
* The Vector Index in Loveland did not exceed 0.5 in any of the weeks tested. Peak weekly VI in Loveland was 0.35 (week 32).
* The Vector Index in Berthoud did not exceed 0.5 in any of the weeks tested. Peak weekly VI in Berthoud was 0.22 (week 33).
* Detailed weekly data for Vector Index, *Culex* abundance and WNV infection rate are shown in section C below.

1. **Summary of tested mosquito pools – 2020**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Fort Collins | | | | Loveland | | | | Berthoud | | | |
|  |
|  | *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 |
| 24 | 13 | 0 | 14 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 2 | 0 |
| 25 | 23 | 0 | 31 | 0 | 2 | 0 | 5 | 0 | 0 | 0 | 4 | 0 |
| 26 | 30 | 0 | 36 | 0 | 2 | 0 | 6 | 0 | 1 | 0 | 2 | 0 |
| 27 | 33 | 0 | 41 | 0 | 4 | 0 | 7 | 0 | 2 | 0 | 4 | 0 |
| 28 | 55 | 0 | 42 | 0 | 4 | 0 | 11 | 0 | 1 | 0 | 3 | 0 |
| 29 | 33 | 0 | 42 | 0 | 5 | 0 | 8 | 0 | 2 | 0 | 3 | 0 |
| 30 | 37 | 0 | 55 | 1 | 3 | 0 | 7 | 0 | 1 | 0 | 5 | 0 |
| 31 | 57 | 1 | 50 | 0 | 3 | 0 | 14 | 0 | 1 | 0 | 5 | 1 |
| 32 | 49 | 2 | 46 | 1 | 1 | 0 | 6 | 1 | 3 | 0 | 4 | 0 |
| 33 | 62 | 4 | 48 | 3 | 3 | 0 | 8 | 1 | 2 | 0 | 5 | 1 |
| 34 | 62 | 9 | 44 | 4 | 2 | 0 | 7 | 0 | 2 | 0 | 5 | 0 |
| 35 | 51 | 7 | 32 | 1 | 3 | 0 | 5 | 0 | 2 | 0 | 4 | 0 |
| 36 | 25 | 0 | 16 | 0 | 5 | 0 | 4 | 1 | N/A | N/A | N/A | N/A |
| **TOTAL** | **530** | **23** | **497** | **10** | **37** | **0** | **91** | **3** | **18** | **0** | **46** | **2** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Total mosquito pools:** | | | **1219** |  | **Total WNV+ pools:** | | | **38** |  |  |  |  |
| Total from Fort Collins: | | | 1027 |  | Total WNV+ from F. Collins: | | | 33 |  |  |  |  |
| Total from Loveland: | | | 128 |  | Total WNV+ from Loveland: | | | 3 |  |  |  |  |
| Total from Berthoud: | | | 64 |  | Total WNV+ from Berthoud: | | | 2 |  |  |  |  |

1. **B. Weekly data for 2020 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 |
| Current year | Historical average1 | Current year | Historical average1 | Current year | Historical average1 | Current year | Historical average1 | Current year | Historical average1 |
| 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 |
| 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 |
| 26 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 |
| 27 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 |
| 28 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.10 | 0.00 | 0.01 | 0.00 | 0.04 | 0.00 | 0.00 |
| 29 | 0.00 | 0.09 | 0.00 | 0.12 | 0.00 | 0.26 | 0.00 | 0.03 | 0.00 | 0.14 | 0.00 | 0.00 |
| 30 | 0.00 | 0.10 | 0.00 | 0.16 | 0.07 | 0.27 | 0.00 | 0.07 | 0.02 | 0.16 | 0.00 | 0.00 |
| 31 | 0.00 | 0.17 | 0.00 | 0.19 | 0.02 | 0.22 | 0.00 | 0.07 | 0.01 | 0.19 | 0.00 | 0.20 |
| 32 | 0.00 | 0.15 | 0.00 | 0.28 | 0.02 | 0.33 | 0.20 | 0.11 | 0.04 | 0.24 | 0.35 | 0.00 |
| 33 | 0.00 | 0.16 | 0.04 | 0.37 | 0.29 | 0.27 | 0.11 | 0.09 | 0.12 | 0.24 | 0.11 | 0.22 |
| 34 | 0.03 | 0.14 | 0.00 | 0.15 | 0.51 | 0.27 | 0.11 | 0.04 | 0.19 | 0.16 | 0.00 | 0.00 |
| 35 | 0.00 | 0.06 | 0.11 | 0.20 | 0.20 | 0.21 | 0.07 | 0.10 | 0.12 | 0.15 | 0.00 | 0.00 |
| 361 | 0.00 | 0.03 | 0.00 | 0.11 | 0.00 | 0.02 | 0.00 | 0.01 | 0.00 | 0.04 | 0.23 | N/A |

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

**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 |
| Current year | Historical average1 | Current year | Historical average1 | Current year | Historical average1 | Current year | Historical average1 | Current year | Historical average1 |
| 24 | 2.80 | 2.52 | 1.67 | 7.17 | 2.00 | 9.73 | 2.50 | 1.63 | 2.24 | 5.93 | 3.40 | 1.00 |
| 25 | 4.75 | 6.22 | 4.50 | 18.00 | 7.47 | 22.10 | 6.20 | 3.55 | 6.09 | 13.72 | 5.35 | 2.75 |
| 26 | 3.00 | 12.63 | 4.70 | 32.65 | 15.07 | 35.30 | 10.25 | 7.94 | 9.31 | 24.17 | 8.34 | 5.00 |
| 27 | 6.75 | 25.14 | 10.00 | 59.55 | 23.13 | 43.82 | 13.13 | 10.30 | 14.78 | 38.36 | 16.76 | 12.25 |
| 28 | 14.00 | 42.15 | 25.20 | 79.06 | 19.47 | 84.92 | 19.75 | 13.58 | 19.85 | 59.83 | 28.56 | 6.75 |
| 29 | 13.14 | 48.73 | 33.60 | 79.86 | 18.00 | 70.10 | 10.38 | 20.89 | 19.53 | 58.33 | 20.29 | 7.67 |
| 30 | 26.22 | 48.84 | 34.80 | 109.28 | 44.33 | 75.87 | 27.00 | 17.78 | 34.88 | 66.24 | 22.57 | 6.40 |
| 31 | 20.89 | 61.48 | 32.00 | 94.64 | 62.53 | 63.01 | 18.11 | 19.38 | 37.42 | 64.04 | 36.27 | 8.60 |
| 32 | 22.00 | 43.35 | 56.00 | 69.20 | 48.67 | 52.32 | 25.00 | 16.22 | 40.19 | 47.27 | 25.44 | 14.25 |
| 33 | 20.22 | 30.34 | 64.60 | 62.86 | 49.20 | 40.70 | 22.11 | 12.06 | 41.05 | 38.98 | 30.31 | 10.60 |
| 34 | 22.56 | 19.85 | 55.50 | 39.97 | 46.47 | 25.00 | 15.00 | 7.46 | 37.50 | 24.72 | 19.17 | 11.60 |
| 35 | 21.57 | 10.02 | 42.30 | 24.47 | 30.07 | 14.36 | 6.29 | 5.44 | 27.34 | 14.04 | 11.43 | 9.25 |
| 361 | 10.71 | 14.00 | 3.00 | 30.72 | 5.67 | 11.00 | 4.00 | 5.89 | 6.42 | 15.14 | 10.80 | N/A |

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

**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 |
| Current year | Historical average1 | Current year | Historical average1 | Current year | Historical average1 | Current year | Historical average1 | Current year | Historical average1 |
| 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 | 0.37 | 0.00 | 0.00 |
| 25 | 0.00 | 0.00 | 0.00 | 0.44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 |
| 26 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.34 | 0.00 | 0.34 | 0.00 | 0.21 | 0.00 | 0.00 |
| 27 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 | 0.34 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 |
| 28 | 0.00 | 0.00 | 0.00 | 0.51 | 0.00 | 0.74 | 0.00 | 0.59 | 0.00 | 0.52 | 0.00 | 0.00 |
| 29 | 0.00 | 1.55 | 0.00 | 1.04 | 0.00 | 2.34 | 0.00 | 1.02 | 0.00 | 1.58 | 0.00 | 0.00 |
| 30 | 0.00 | 2.40 | 0.00 | 1.84 | 1.30 | 3.83 | 0.00 | 2.31 | 0.50 | 2.69 | 0.00 | 0.00 |
| 31 | 0.00 | 3.57 | 0.00 | 2.14 | 0.74 | 4.79 | 0.00 | 3.15 | 0.40 | 3.47 | 0.00 | 23.26 |
| 32 | 0.00 | 3.66 | 0.00 | 5.23 | 0.86 | 7.28 | 9.15 | 9.72 | 1.28 | 5.60 | 13.15 | 0.00 |
| 33 | 0.00 | 6.87 | 1.24 | 6.51 | 4.12 | 9.85 | 4.91 | 6.31 | 2.83 | 7.64 | 3.59 | 20.50 |
| 34 | 1.95 | 7.80 | 0.00 | 4.10 | 12.06 | 10.47 | 4.27 | 9.85 | 5.39 | 7.44 | 0.00 | 0.00 |
| 35 | 0.00 | 9.55 | 3.18 | 6.07 | 7.49 | 15.40 | 12.49 | 40.82 | 5.07 | 10.40 | 0.00 | 0.00 |
| 361 | 0.00 | 5.78 | 0.00 | 2.88 | 0.00 | 3.33 | 0.00 | 5.63 | 0.00 | 2.97 | 19.08 | N/A |

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

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

***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 | 1.33 | 1.00 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone NE | 0.29 | 1.14 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SE | 0.67 | 0.67 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SW | 0.00 | 2.50 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Citywide | 0.60 | 1.30 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
|  |  |  |  |  |  |  |  |
| LV | 0.2 | 2.8 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| BE | 0.3 | 0.7 | 0.0000 | 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: **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 | 8 | 6 | 14 | 6 | 1.33 | 1.00 | 2.33 |
| FC – Zone NE | 2 | 8 | 10 | 7 | 0.29 | 1.14 | 1.43 |
| FC – Zone SE | 2 | 2 | 4 | 3 | 0.67 | 0.67 | 1.33 |
| FC – Zone SW | 0 | 10 | 10 | 4 | 0.00 | 2.50 | 2.50 |
| FC – Citywide | 12 | 26 | 38 | 20 | 0.60 | 1.30 | 1.90 |
|  |  |  |  |  |  |  |  |
| LV | 4 | 47 | 51 | 17 | 0.24 | 2.76 | 3.00 |
| BE | 1 | 2 | 3 | 3 | 0.33 | 0.67 | 1.00 |

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: **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 | 12 | 6 | 18 | 6 | 2 | 8 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone NE | 18 | 8 | 26 | 4 | 6 | 10 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SE | 35 | 2 | 37 | 2 | 2 | 4 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SW | 5 | 10 | 15 | 1 | 4 | 5 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Citywide | 70 | 26 | 96 | 13 | 14 | 27 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 0 | 12 | 12 | 0 | 3 | 3 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| BE | 1 | 2 | 3 | 1 | 2 | 3 | 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 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 | 0.25 | 4.50 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone NE | 0.71 | 2.50 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SE | 0.37 | 5.53 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SW | 1.14 | 3.29 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Citywide | 0.59 | 4.11 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
|  |  |  |  |  |  |  |  |
| LV | 0.4 | 4.0 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| BE | 0.0 | 2.8 | 0.0000 | 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 | 1 | 18 | 19 | 4 | 0.25 | 4.50 | 4.75 |
| FC – Zone NE | 10 | 35 | 45 | 14 | 0.71 | 2.50 | 3.21 |
| FC – Zone SE | 7 | 105 | 112 | 19 | 0.37 | 5.53 | 5.89 |
| FC – Zone SW | 8 | 23 | 31 | 7 | 1.14 | 3.29 | 4.43 |
| FC – Citywide | 26 | 181 | 207 | 44 | 0.59 | 4.11 | 4.70 |
|  |  |  |  |  |  |  |  |
| LV | 12 | 127 | 139 | 32 | 0.38 | 3.97 | 4.34 |
| BE | 0 | 11 | 11 | 4 | 0.00 | 2.75 | 2.75 |

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 | 29 | 18 | 47 | 3 | 3 | 6 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone NE | 39 | 35 | 74 | 8 | 10 | 18 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SE | 98 | 105 | 203 | 8 | 14 | 22 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SW | 9 | 23 | 32 | 4 | 4 | 8 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Citywide | 175 | 181 | 356 | 23 | 31 | 54 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 6 | 38 | 44 | 2 | 5 | 7 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| BE | 0 | 11 | 11 | 0 | 4 | 4 | 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 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 | 1.57 | 1.43 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone NE | 0.90 | 3.80 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SE | 1.00 | 14.07 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SW | 2.25 | 8.00 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Citywide | 1.22 | 8.08 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
|  |  |  |  |  |  |  |  |
| LV | 0.7 | 7.7 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| BE | 1.5 | 3.5 | 0.0000 | 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 | 11 | 10 | 21 | 7 | 1.57 | 1.43 | 3.00 |
| FC – Zone NE | 9 | 38 | 47 | 10 | 0.90 | 3.80 | 4.70 |
| FC – Zone SE | 15 | 211 | 226 | 15 | 1.00 | 14.07 | 15.07 |
| FC – Zone SW | 9 | 32 | 41 | 4 | 2.25 | 8.00 | 10.25 |
| FC – Citywide | 44 | 291 | 335 | 36 | 1.22 | 8.08 | 9.31 |
|  |  |  |  |  |  |  |  |
| LV | 22 | 245 | 267 | 32 | 0.69 | 7.66 | 8.34 |
| BE | 3 | 7 | 10 | 2 | 1.50 | 3.50 | 5.00 |

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 | 23 | 10 | 33 | 7 | 5 | 12 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone NE | 29 | 38 | 67 | 9 | 10 | 19 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SE | 246 | 211 | 457 | 11 | 17 | 28 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SW | 16 | 32 | 48 | 3 | 4 | 7 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Citywide | 314 | 291 | 605 | 30 | 36 | 66 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 3 | 90 | 93 | 2 | 6 | 8 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| BE | 3 | 7 | 10 | 1 | 2 | 3 | 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 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 | 4.25 | 2.50 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone NE | 1.10 | 8.90 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SE | 1.67 | 21.47 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SW | 2.75 | 10.38 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Citywide | 2.24 | 12.54 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
|  |  |  |  |  |  |  |  |
| LV | 1.3 | 15.5 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| BE | 1.5 | 10.8 | 0.0000 | 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 | 34 | 20 | 54 | 8 | 4.25 | 2.50 | 6.75 |
| FC – Zone NE | 11 | 89 | 100 | 10 | 1.10 | 8.90 | 10.00 |
| FC – Zone SE | 25 | 322 | 347 | 15 | 1.67 | 21.47 | 23.13 |
| FC – Zone SW | 22 | 83 | 105 | 8 | 2.75 | 10.38 | 13.13 |
| FC – Citywide | 92 | 514 | 606 | 41 | 2.24 | 12.54 | 14.78 |
|  |  |  |  |  |  |  |  |
| LV | 43 | 527 | 570 | 34 | 1.26 | 15.50 | 16.76 |
| BE | 6 | 43 | 49 | 4 | 1.50 | 10.75 | 12.25 |

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 | 62 | 20 | 82 | 10 | 6 | 16 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone NE | 59 | 90 | 149 | 7 | 11 | 18 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SE | 128 | 322 | 450 | 11 | 16 | 27 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SW | 37 | 83 | 120 | 5 | 8 | 13 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Citywide | 286 | 515 | 801 | 33 | 41 | 74 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 8 | 162 | 170 | 4 | 7 | 11 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| BE | 6 | 43 | 49 | 2 | 4 | 6 | 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 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 | 3.50 | 10.50 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone NE | 3.40 | 21.80 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SE | 1.93 | 17.53 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SW | 1.63 | 18.13 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Citywide | 2.54 | 17.32 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
|  |  |  |  |  |  |  |  |
| LV | 1.5 | 27.0 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| BE | 0.3 | 6.5 | 0.0000 | 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 | 28 | 84 | 112 | 8 | 3.50 | 10.50 | 14.00 |
| FC – Zone NE | 34 | 218 | 252 | 10 | 3.40 | 21.80 | 25.20 |
| FC – Zone SE | 29 | 263 | 292 | 15 | 1.93 | 17.53 | 19.47 |
| FC – Zone SW | 13 | 145 | 158 | 8 | 1.63 | 18.13 | 19.75 |
| FC – Citywide | 104 | 710 | 814 | 41 | 2.54 | 17.32 | 19.85 |
|  |  |  |  |  |  |  |  |
| LV | 55 | 973 | 1028 | 36 | 1.53 | 27.03 | 28.56 |
| BE | 1 | 26 | 27 | 4 | 0.25 | 6.50 | 6.75 |

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 | 221 | 84 | 305 | 11 | 7 | 18 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone NE | 90 | 218 | 308 | 10 | 11 | 21 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SE | 909 | 263 | 1172 | 28 | 15 | 43 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SW | 43 | 145 | 188 | 6 | 9 | 15 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Citywide | 1263 | 710 | 1973 | 55 | 42 | 97 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 13 | 404 | 417 | 4 | 11 | 15 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| BE | 1 | 26 | 27 | 1 | 3 | 4 | 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 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 | 6.86 | 6.29 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone NE | 2.90 | 30.70 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SE | 2.27 | 15.73 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SW | 0.50 | 9.88 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Citywide | 2.88 | 16.65 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
|  |  |  |  |  |  |  |  |
| LV | 2.1 | 18.2 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| BE | 2.0 | 5.7 | 0.0000 | 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: **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 | 48 | 44 | 92 | 7 | 6.86 | 6.29 | 13.14 |
| FC – Zone NE | 29 | 307 | 336 | 10 | 2.90 | 30.70 | 33.60 |
| FC – Zone SE | 34 | 236 | 270 | 15 | 2.27 | 15.73 | 18.00 |
| FC – Zone SW | 4 | 79 | 83 | 8 | 0.50 | 9.88 | 10.38 |
| FC – Citywide | 115 | 666 | 781 | 40 | 2.88 | 16.65 | 19.53 |
|  |  |  |  |  |  |  |  |
| LV | 73 | 637 | 710 | 35 | 2.09 | 18.20 | 20.29 |
| BE | 6 | 17 | 23 | 3 | 2.00 | 5.67 | 7.67 |

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 | 156 | 44 | 200 | 8 | 7 | 15 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone NE | 333 | 307 | 640 | 13 | 12 | 25 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SE | 90 | 236 | 326 | 9 | 15 | 24 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SW | 38 | 79 | 117 | 3 | 8 | 11 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Citywide | 617 | 666 | 1283 | 33 | 42 | 75 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 16 | 208 | 224 | 5 | 8 | 13 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| BE | 6 | 17 | 23 | 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 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 | 4.11 | 22.11 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone NE | 3.20 | 31.60 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SE | 3.40 | 40.93 | 0.0000 | 0.0016 | **0.000** | **0.067** | **0.067** |
| FC – Zone SW | 3.88 | 23.13 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Citywide | 3.60 | 31.29 | 0.0000 | 0.0008 | **0.000** | **0.024** | **0.024** |
|  |  |  |  |  |  |  |  |
| LV | 2.4 | 20.2 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| BE | 1.4 | 5.0 | 0.0000 | 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: **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 | 37 | 199 | 236 | 9 | 4.11 | 22.11 | 26.22 |
| FC – Zone NE | 32 | 316 | 348 | 10 | 3.20 | 31.60 | 34.80 |
| FC – Zone SE | 51 | 614 | 665 | 15 | 3.40 | 40.93 | 44.33 |
| FC – Zone SW | 31 | 185 | 216 | 8 | 3.88 | 23.13 | 27.00 |
| FC – Citywide | 151 | 1314 | 1465 | 42 | 3.60 | 31.29 | 34.88 |
|  |  |  |  |  |  |  |  |
| LV | 87 | 748 | 835 | 37 | 2.35 | 20.22 | 22.57 |
| BE | 7 | 25 | 32 | 5 | 1.40 | 5.00 | 6.40 |

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: **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 | 80 | 199 | 279 | 9 | 10 | 19 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone NE | 264 | 317 | 581 | 10 | 14 | 24 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SE | 154 | 614 | 768 | 11 | 21 | 32 | 0 | 1 | 1 | 0.00 | 1.63 | 1.30 |
| FC – Zone SW | 179 | 185 | 364 | 7 | 10 | 17 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Citywide | 677 | 1315 | 1992 | 37 | 55 | 92 | 0 | 1 | 1 | 0.00 | 0.76 | 0.50 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 10 | 201 | 211 | 3 | 7 | 10 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| BE | 7 | 25 | 32 | 1 | 5 | 6 | 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 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 | 10.22 | 10.67 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone NE | 8.50 | 23.50 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SE | 15.00 | 47.53 | 0.0016 | 0.0000 | **0.024** | **0.000** | **0.024** |
| FC – Zone SW | 2.22 | 15.89 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Citywide | 9.81 | 27.60 | 0.0008 | 0.0000 | **0.008** | **0.000** | **0.008** |
|  |  |  |  |  |  |  |  |
| LV | 0.9 | 35.4 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| BE | 0.2 | 8.4 | 0.0000 | 0.0237 | **0.000** | **0.199** | **0.199** |

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 | 92 | 96 | 188 | 9 | 10.22 | 10.67 | 20.89 |
| FC – Zone NE | 85 | 235 | 320 | 10 | 8.50 | 23.50 | 32.00 |
| FC – Zone SE | 225 | 713 | 938 | 15 | 15.00 | 47.53 | 62.53 |
| FC – Zone SW | 20 | 143 | 163 | 9 | 2.22 | 15.89 | 18.11 |
| FC – Citywide | 422 | 1187 | 1609 | 43 | 9.81 | 27.60 | 37.42 |
|  |  |  |  |  |  |  |  |
| LV | 34 | 1308 | 1342 | 37 | 0.92 | 35.35 | 36.27 |
| BE | 1 | 42 | 43 | 5 | 0.20 | 8.40 | 8.60 |

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: **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 | 184 | 96 | 280 | 11 | 9 | 20 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone NE | 329 | 235 | 564 | 14 | 10 | 24 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SE | 634 | 713 | 1347 | 24 | 22 | 46 | 1 | 0 | 1 | 1.59 | 0.00 | 0.74 |
| FC – Zone SW | 165 | 143 | 308 | 8 | 9 | 17 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Citywide | 1312 | 1187 | 2499 | 57 | 50 | 107 | 1 | 0 | 1 | 0.77 | 0.00 | 0.40 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 13 | 553 | 566 | 3 | 14 | 17 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| BE | 1 | 42 | 43 | 1 | 5 | 6 | 0 | 1 | 1 | 0.00 | 23.72 | 23.26 |

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 | 8.56 | 13.44 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone NE | 18.10 | 37.90 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SE | 14.40 | 34.27 | 0.0015 | 0.0000 | **0.022** | **0.000** | **0.022** |
| FC – Zone SW | 6.63 | 18.38 | 0.0110 | 0.0070 | **0.073** | **0.128** | **0.201** |
| FC – Citywide | 12.55 | 27.64 | 0.0017 | 0.0009 | **0.021** | **0.024** | **0.045** |
|  |  |  |  |  |  |  |  |
| LV | 1.5 | 23.9 | 0.0000 | 0.0145 | **0.000** | **0.346** | **0.346** |
| BE | 3.8 | 10.5 | 0.0000 | 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: **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 | 77 | 121 | 198 | 9 | 8.56 | 13.44 | 22.00 |
| FC – Zone NE | 181 | 379 | 560 | 10 | 18.10 | 37.90 | 56.00 |
| FC – Zone SE | 216 | 514 | 730 | 15 | 14.40 | 34.27 | 48.67 |
| FC – Zone SW | 53 | 147 | 200 | 8 | 6.63 | 18.38 | 25.00 |
| FC – Citywide | 527 | 1161 | 1688 | 42 | 12.55 | 27.64 | 40.19 |
|  |  |  |  |  |  |  |  |
| LV | 55 | 861 | 916 | 36 | 1.53 | 23.92 | 25.44 |
| BE | 15 | 42 | 57 | 4 | 3.75 | 10.50 | 14.25 |

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 | 151 | 117 | 268 | 8 | 8 | 16 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone NE | 326 | 379 | 705 | 11 | 12 | 23 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SE | 649 | 514 | 1163 | 21 | 18 | 39 | 1 | 0 | 1 | 1.55 | 0.00 | 0.86 |
| FC – Zone SW | 105 | 151 | 256 | 9 | 8 | 17 | 1 | 1 | 2 | 11.00 | 6.96 | 9.15 |
| FC – Citywide | 1231 | 1161 | 2392 | 49 | 46 | 95 | 2 | 1 | 3 | 1.67 | 0.87 | 1.28 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 8 | 81 | 89 | 1 | 6 | 7 | 0 | 1 | 1 | 0.00 | 14.46 | 13.15 |
| BE | 15 | 42 | 57 | 3 | 4 | 7 | 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 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 | 6.44 | 13.78 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone NE | 11.40 | 53.20 | 0.0037 | 0.0000 | **0.042** | **0.000** | **0.042** |
| FC – Zone SE | 26.80 | 22.40 | 0.0021 | 0.0102 | **0.057** | **0.229** | **0.286** |
| FC – Zone SW | 9.22 | 12.89 | 0.0115 | 0.0000 | **0.106** | **0.000** | **0.106** |
| FC – Citywide | 15.28 | 25.77 | 0.0028 | 0.0028 | **0.043** | **0.072** | **0.115** |
|  |  |  |  |  |  |  |  |
| LV | 1.2 | 29.1 | 0.0000 | 0.0038 | **0.000** | **0.109** | **0.109** |
| BE | 0.4 | 10.2 | 0.0000 | 0.0212 | **0.000** | **0.217** | **0.217** |

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 | 58 | 124 | 182 | 9 | 6.44 | 13.78 | 20.22 |
| FC – Zone NE | 114 | 532 | 646 | 10 | 11.40 | 53.20 | 64.60 |
| FC – Zone SE | 402 | 336 | 738 | 15 | 26.80 | 22.40 | 49.20 |
| FC – Zone SW | 83 | 116 | 199 | 9 | 9.22 | 12.89 | 22.11 |
| FC – Citywide | 657 | 1108 | 1765 | 43 | 15.28 | 25.77 | 41.05 |
|  |  |  |  |  |  |  |  |
| LV | 44 | 1047 | 1091 | 36 | 1.22 | 29.08 | 30.31 |
| BE | 2 | 51 | 53 | 5 | 0.40 | 10.20 | 10.60 |

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: **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 | 161 | 124 | 285 | 12 | 7 | 19 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone NE | 279 | 532 | 811 | 15 | 16 | 31 | 1 | 0 | 1 | 3.70 | 0.00 | 1.24 |
| FC – Zone SE | 964 | 336 | 1300 | 28 | 16 | 44 | 2 | 3 | 5 | 2.13 | 10.22 | 4.12 |
| FC – Zone SW | 83 | 116 | 199 | 7 | 9 | 16 | 1 | 0 | 1 | 11.51 | 0.00 | 4.91 |
| FC – Citywide | 1487 | 1108 | 2595 | 62 | 48 | 110 | 4 | 3 | 7 | 2.81 | 2.80 | 2.83 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 14 | 257 | 271 | 3 | 8 | 11 | 0 | 1 | 1 | 0.00 | 3.76 | 3.59 |
| BE | 2 | 51 | 53 | 2 | 5 | 7 | 0 | 1 | 1 | 0.00 | 21.24 | 20.50 |

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 | 10.22 | 12.33 | 0.0025 | 0.0000 | **0.025** | **0.000** | **0.025** |
| FC – Zone NE | 17.40 | 38.10 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SE | 21.07 | 25.40 | 0.0132 | 0.0092 | **0.279** | **0.234** | **0.513** |
| FC – Zone SW | 7.38 | 7.63 | 0.0000 | 0.0144 | **0.000** | **0.110** | **0.110** |
| FC – Citywide | 15.26 | 22.24 | 0.0058 | 0.0045 | **0.089** | **0.101** | **0.190** |
|  |  |  |  |  |  |  |  |
| LV | 0.6 | 18.6 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| BE | 1.2 | 10.4 | 0.0000 | 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: **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 | 92 | 111 | 203 | 9 | 10.22 | 12.33 | 22.56 |
| FC – Zone NE | 174 | 381 | 555 | 10 | 17.40 | 38.10 | 55.50 |
| FC – Zone SE | 316 | 381 | 697 | 15 | 21.07 | 25.40 | 46.47 |
| FC – Zone SW | 59 | 61 | 120 | 8 | 7.38 | 7.63 | 15.00 |
| FC – Citywide | 641 | 934 | 1575 | 42 | 15.26 | 22.24 | 37.50 |
|  |  |  |  |  |  |  |  |
| LV | 21 | 669 | 690 | 36 | 0.58 | 18.58 | 19.17 |
| BE | 6 | 52 | 58 | 5 | 1.20 | 10.40 | 11.60 |

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: **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 | 405 | 111 | 516 | 15 | 8 | 23 | 1 | 0 | 1 | 2.48 | 0.00 | 1.95 |
| FC – Zone NE | 397 | 381 | 778 | 14 | 12 | 26 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SE | 781 | 381 | 1162 | 25 | 17 | 42 | 8 | 3 | 11 | 13.23 | 9.20 | 12.06 |
| FC – Zone SW | 158 | 61 | 219 | 8 | 7 | 15 | 0 | 1 | 1 | 0.00 | 14.36 | 4.27 |
| FC – Citywide | 1741 | 934 | 2675 | 62 | 44 | 106 | 9 | 4 | 13 | 5.80 | 4.55 | 5.39 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 3 | 175 | 178 | 2 | 7 | 9 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| BE | 6 | 52 | 58 | 2 | 5 | 7 | 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 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 | 16.43 | 5.14 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone NE | 24.60 | 17.70 | 0.0044 | 0.0000 | **0.108** | **0.000** | **0.108** |
| FC – Zone SE | 14.93 | 15.14 | 0.0087 | 0.0045 | **0.130** | **0.069** | **0.199** |
| FC – Zone SW | 5.14 | 1.14 | 0.0134 | 0.0000 | **0.069** | **0.000** | **0.069** |
| FC – Citywide | 15.95 | 11.39 | 0.0061 | 0.0023 | **0.097** | **0.026** | **0.123** |
|  |  |  |  |  |  |  |  |
| LV | 0.5 | 10.9 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| BE | 1.3 | 8.0 | 0.0000 | 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: **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 | 115 | 36 | 151 | 7 | 16.43 | 5.14 | 21.57 |
| FC – Zone NE | 246 | 177 | 423 | 10 | 24.60 | 17.70 | 42.30 |
| FC – Zone SE | 209 | 212 | 421 | 14 | 14.93 | 15.14 | 30.07 |
| FC – Zone SW | 36 | 8 | 44 | 7 | 5.14 | 1.14 | 6.29 |
| FC – Citywide | 606 | 433 | 1039 | 38 | 15.95 | 11.39 | 27.34 |
|  |  |  |  |  |  |  |  |
| LV | 20 | 403 | 423 | 37 | 0.54 | 10.89 | 11.43 |
| BE | 5 | 32 | 37 | 4 | 1.25 | 8.00 | 9.25 |

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 | 195 | 36 | 231 | 9 | 6 | 15 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone NE | 474 | 177 | 651 | 16 | 9 | 25 | 2 | 0 | 2 | 4.41 | 0.00 | 3.18 |
| FC – Zone SE | 535 | 212 | 747 | 20 | 14 | 34 | 4 | 1 | 5 | 8.69 | 4.55 | 7.49 |
| FC – Zone SW | 83 | 8 | 91 | 6 | 3 | 9 | 1 | 0 | 1 | 13.43 | 0.00 | 12.49 |
| FC – Citywide | 1287 | 433 | 1720 | 51 | 32 | 83 | 7 | 1 | 8 | 6.10 | 2.27 | 5.07 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 7 | 82 | 89 | 3 | 5 | 8 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| BE | 5 | 32 | 37 | 2 | 4 | 6 | 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 | 10.00 | 0.71 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone NE | 1.00 | 2.00 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SE | 3.44 | 2.22 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Zone SW | 2.50 | 1.50 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
| FC – Citywide | 4.79 | 1.63 | 0.0000 | 0.0000 | **0.000** | **0.000** | **0.000** |
|  |  |  |  |  |  |  |  |
| LV | 6.6 | 4.2 | 0.0000 | 0.0549 | **0.000** | **0.231** | **0.231** |
| BE | 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: **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 | 70 | 5 | 75 | 7 | 10.00 | 0.71 | 10.71 |
| FC – Zone NE | 4 | 8 | 12 | 4 | 1.00 | 2.00 | 3.00 |
| FC – Zone SE | 31 | 20 | 51 | 9 | 3.44 | 2.22 | 5.67 |
| FC – Zone SW | 10 | 6 | 16 | 4 | 2.50 | 1.50 | 4.00 |
| FC – Citywide | 115 | 39 | 154 | 24 | 4.79 | 1.63 | 6.42 |
|  |  |  |  |  |  |  |  |
| LV | 33 | 21 | 54 | 5 | 6.60 | 4.20 | 10.80 |
| BE | 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: **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 | 90 | 34 | 124 | 7 | 4 | 11 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone NE | 57 | 8 | 65 | 6 | 3 | 9 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SE | 88 | 20 | 108 | 9 | 6 | 15 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Zone SW | 41 | 6 | 47 | 3 | 3 | 6 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| FC – Citywide | 276 | 68 | 344 | 25 | 16 | 41 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| LV | 33 | 21 | 54 | 5 | 4 | 9 | 0 | 1 | 1 | 0.00 | 54.92 | 19.08 |
| 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 |

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