



**Austin/Travis County Health and Human Services Department
Epidemiology and Health Statistics Unit**



Travis County Epidemiological Summary of West Nile Virus Cases in Humans¹

2012 West Nile Virus Case Counts

Total	149	100.0%
West Nile Encephalitis	62	41.6%
West Nile Fever (WNF)	87	58.4%

Gender Distribution

Male	90	60.4%
Female	59	39.6%

Hospitalizations

Total Hospitalizations	73	100.0%
WNND Hospitalizations	57	78.1%
WNF Hospitalizations	16	21.9%

Fatalities

Case Fatality Rate	5	3.4%
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Age Distribution

Under 1 Year	0	0.0%
1-3 Years	0	0.0%
4-8 Years	0	0.0%
9-14 Years	1	0.7%
15-24 Years	6	4.0%
25-34 Years	18	12.1%
35-44 Years	25	16.8%
45-54 Years	25	16.8%
55-64 Years	30	20.1%
65 Years and Older	44	29.5%

Median Age

54 Years

Age Range

11 Years - 91 Years

Data presented in this report includes both confirmed and probable cases of West Nile Fever and Encephalitis reported in Travis County. This report only includes cases in which investigations are complete, any pending reports and investigations for West Nile Virus are not included. All data for 2012 is preliminary. 2012 data provided for this report was generated on November 14, 2012 and historical data was generated on August 8, 2012. Data in this report may differ slightly from other published reports; be aware of the date the data is generated.



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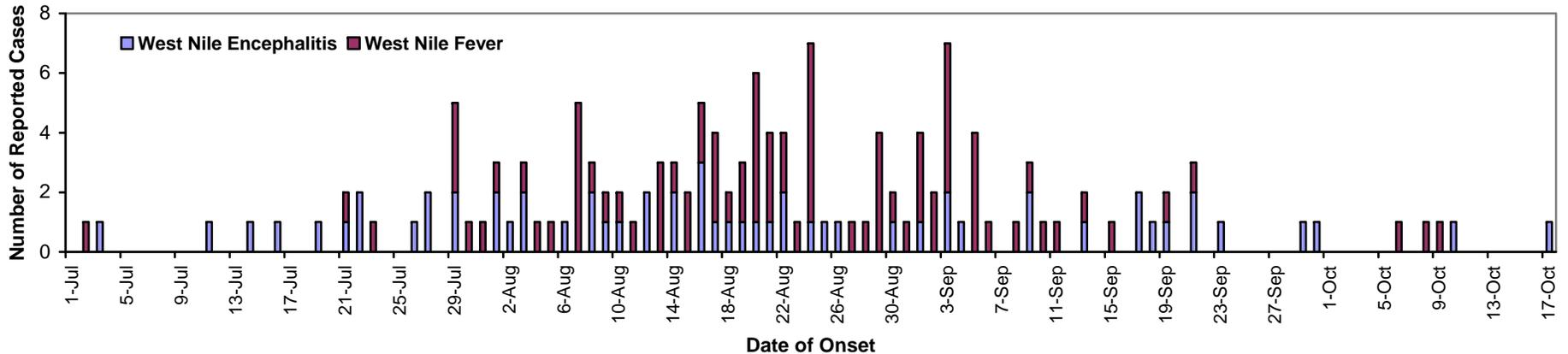
Until July of this year, Travis County had not had any reported cases of West Nile Virus (WNV) in humans since 2008 with the last reported WNV fatalities in 2007 (Figure 3 and Table 1). Since July, the A/TCHHSD Epidemiology and Health Statistics Unit has investigated 149 reported confirmed and probable cases of WNV including five deaths with a mean age of 71.6 years. Reported cases of WNV began feeling ill as early as July 2nd and as recently as October 17th (Figure 1). The number of WNV cases reported in 2012 is the highest it has been since the introduction of WNV to Travis County in 2002 (Figure 3). Approximately 57% (n=85) of the reported cases of West Nile Virus in Travis County occur among individuals over 50 years of age (Figure 5), and approximately 60% are males (n=90), which is consistent with historical and national trends.

Human cases are dispersed across Travis County however there does appear to be a concentration of cases who reside to the west of the IH 35 corridor (Map 1). It is important to note that the location in which individuals are bitten by an infected mosquito is unknown. The map is based on the case's place of residence at the time of the report, and also represents confirmed West Nile Virus activity in mosquitos. Mosquito surveillance, which is performed by the A/TCHHSD Environmental Health Services Division, Rodent and Vector Control Unit, indicates an [active 2012 mosquito season](#) with West Nile Virus activity confirmed in mosquitos throughout Travis County.

Arbovirus surveillance indicates a downward trend in positive mosquito pools. DSHS reported one additional positive mosquito pool for Travis County collected the week of October 22nd – 26th, bringing the total number of positive pools to 128 for 2012.

According to the Texas Department of State Health Services Health Services Region 7 Zoonosis Control Program, as of November 2nd, 2012, three horses in Travis County have tested positive for West Nile Virus.

Figure 1. 2012 Travis County West Nile Virus EPI Curve: Reported Cases by Onset Date^{1,2}



Data Source: Texas Department of State Health Services Zoonosis Control Branch

Austin/Travis County Health and Human Services Department Epidemiology and Health Statistics Unit - National Electronic Disease Surveillance System (NEDSS)
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Epidemiology and Health Statistics Unit**



Figure 2. 2012 Travis County West Nile Virus EPI Curve: Reported Cases by Week of Onset^{1,2}

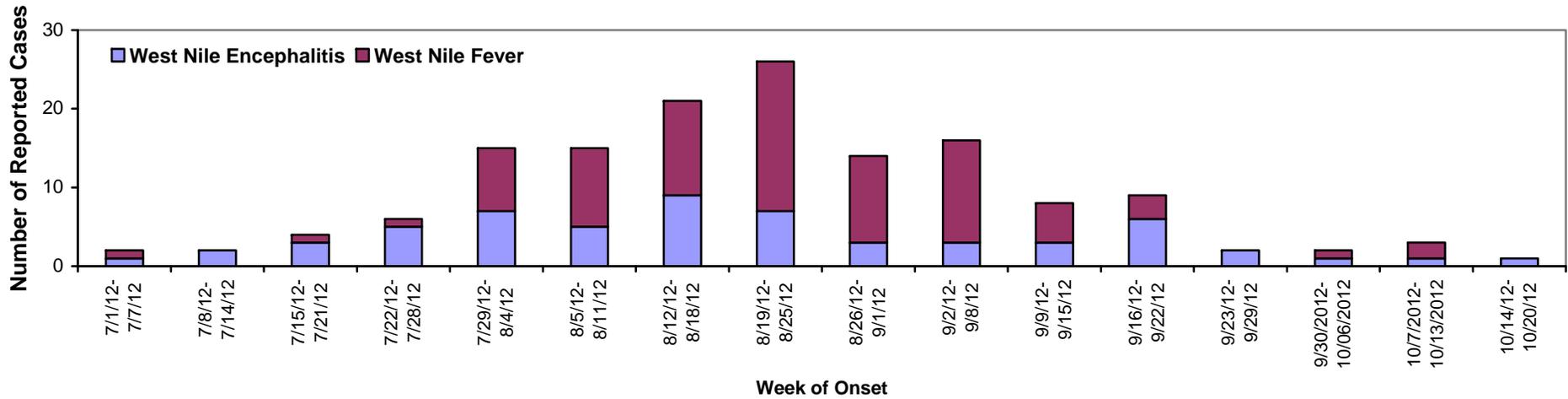
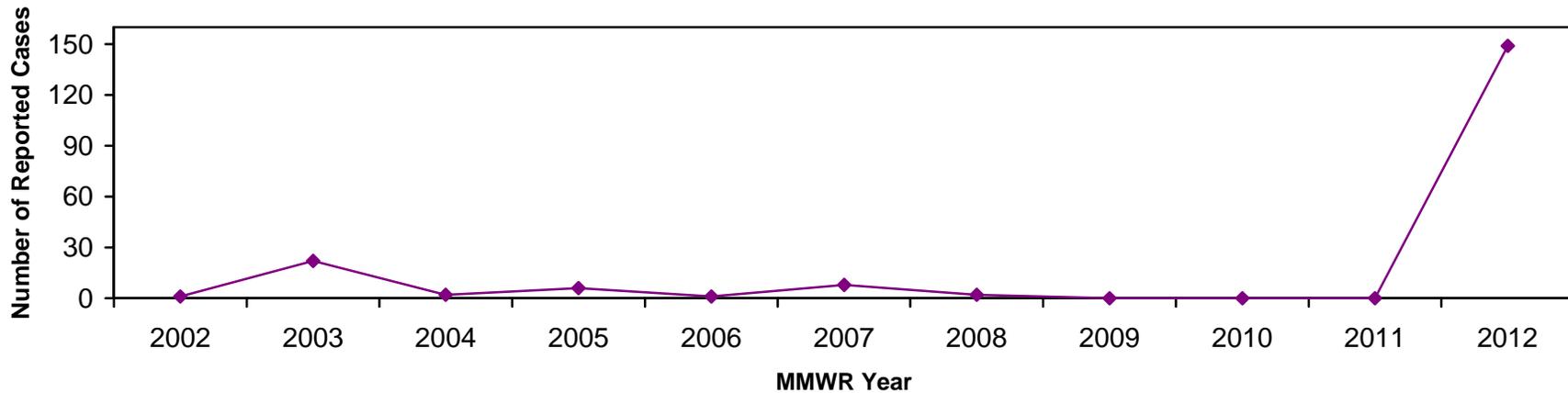


Figure 3. 2002 - 2012 Travis County Reported Cases of West Nile Virus by Year^{1,3}



Data Source: Texas Department of State Health Services Zoonosis Control Branch
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Figure 4. 2002 – 2012 Travis County Reported Cases of West Nile Virus by Year^{1,2}

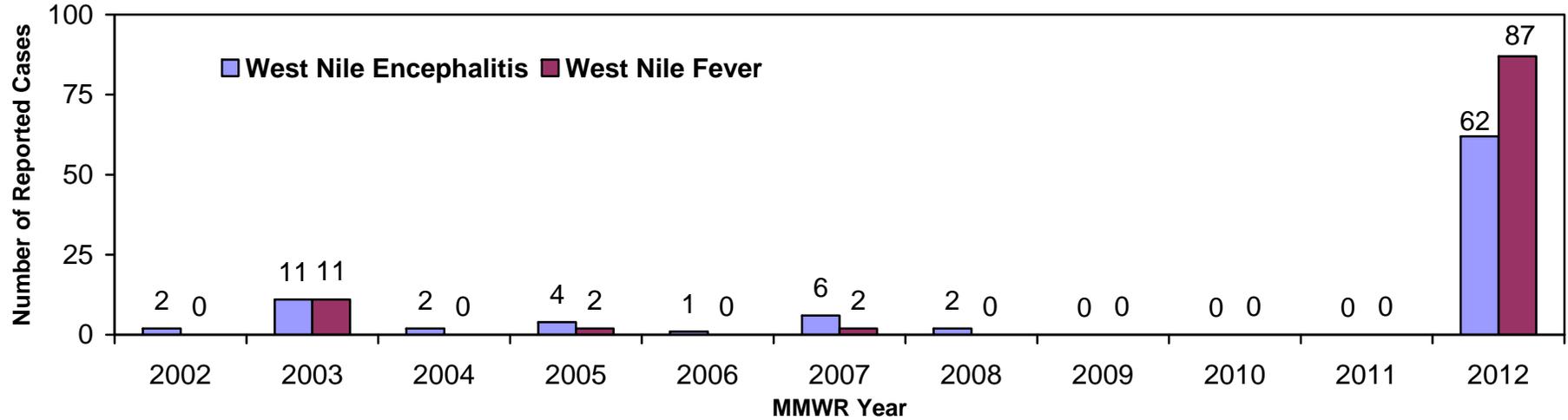


Table 1. 2002 -2011 Travis County Reported Cases of West Nile Virus²

Year	Total Reported Cases	West Nile Fever	West Nile Neuroinvasive Disease	Number of Hospitalizations	Percent of Hospitalizations	Imported	Fatalities	Case Fatality Rate
2002	1	0	1	1	100.0	0	0	0.0%
2003	22	11	11	14	63.6	0	1	4.5%
2004	2	0	2	2	100.0	0	0	0.0%
2005	6	2	4	3	50.0	0	0	0.0%
2006	1	0	1	1	100.0	0	0	0.0%
2007	8	2	6	2	25.0	0	2	25.0%
2008	2	0	2	2	100.0	0	0	0.0%
2009	0	0	0	0	0.0	0	0	0.0%
2010	0	0	0	0	0.0	0	0	0.0%
2011	0	0	0	0	0.0	0	0	0.0%

Data Source: Texas Department of State Health Services Zoonosis Control Branch

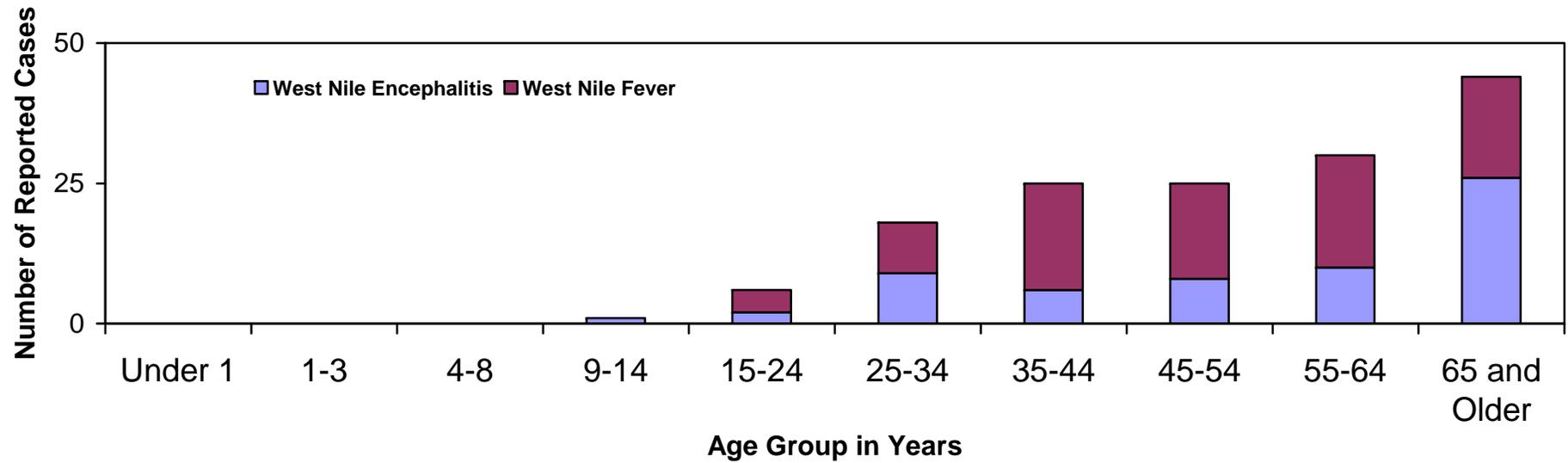
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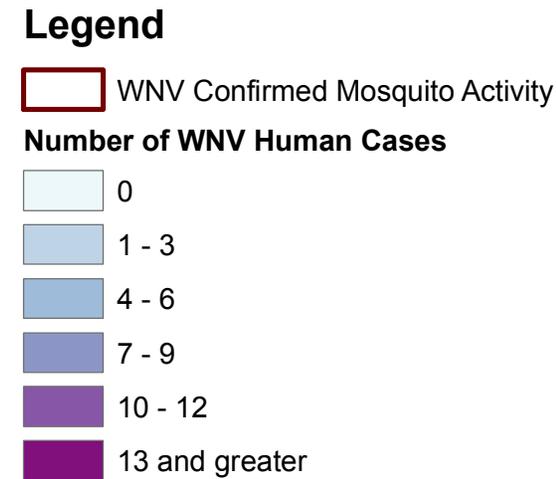
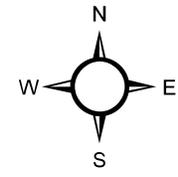
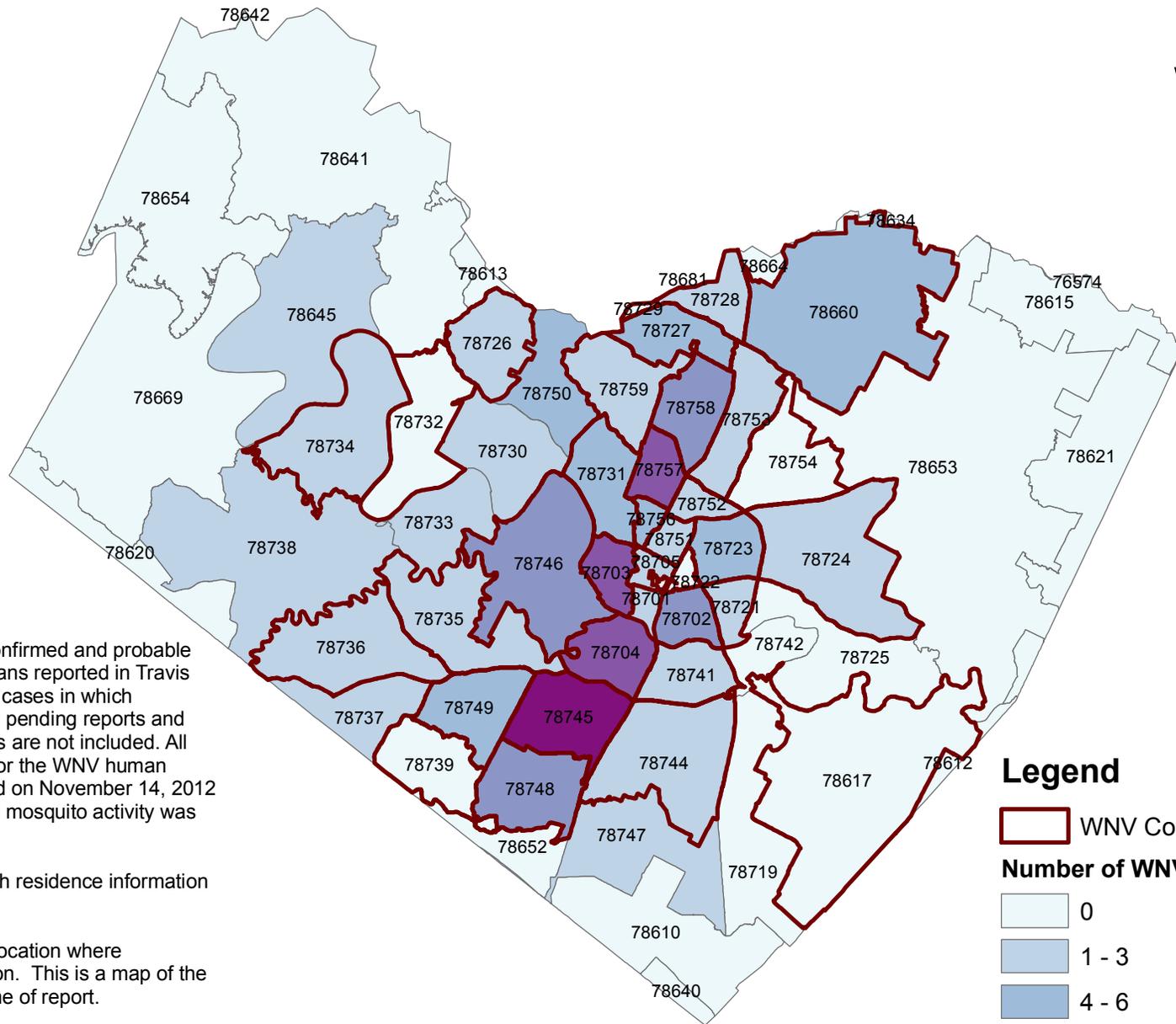
Figure 5. 2012 Travis County Reported Cases of West Nile Virus by Age Group^{1,2}



Data Source: Texas Department of State Health Services Zoonosis Control Branch
Austin/Travis County Health and Human Services Department Epidemiology and Health Statistics Unit - National Electronic Disease Surveillance System (NEDSS)
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Map 1. Travis County Reported Cases of West Nile Virus 2012¹



Data presented includes both confirmed and probable cases of West Nile Virus in humans reported in Travis County. This map only includes cases in which investigations are complete, any pending reports and investigations for West Nile Virus are not included. All 2012 data is preliminary. Data for the WNV human cases in this map was generated on November 14, 2012 and data for the WNV confirmed mosquito activity was generated on October 30, 2012.

Unable to map human cases with residence information at Post Office Boxes.

This map does NOT reflect the location where individuals acquired their infection. This is a map of the residence of the cases at the time of report.

This map has been produced by the Austin/Travis County Health and Human Services Department for the sole purpose of geographic reference. No warranty is made by the City of Austin regarding specific accuracy or completeness.



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RESOURCES

For additional information about West Nile Virus:

[City of Austin West Nile Virus](#)

[Texas Department of State Health Services West Nile Virus](#)

[CDC West Nile Virus](#)

For additional information about how to protect from West Nile Virus:

[Mosquito Season: Take Steps to Avoid Exposure](#)

For additional Information about Mosquito Control in Travis County:

<http://www.austintexas.gov/departement/vector-control>

For additional Information on Arbovirus Surveillance Maps:

[Travis County West Nile Virus Confirmed Mosquito Activity 10-12-12](#)

¹ Data provided for 2012 are preliminary data. The 2012 data provided in this report are from A/TCHHSD Epidemiology and Health Statistics Unit - National Electronic Disease Surveillance System (NEDSS) and were generated on November 14, 2012.

² The date of onset is not available for four West Nile cases and consequently is not included in this graph.

³ Data provided for the years 2002-2011 were provided by Texas Department of State Health Services Zoonosis Control Branch and were generated August 8, 2012.