Travis County Epidemiological Summary of Pertussis Cases

2012 Pertussis Case Counts		
Total	211	100.0%
Confirmed	102	48.3%
Probable	109	51.7%
Gender Distribution		
Male	106	50.2%
Female	105	49.8%
Median Age	4 Years	
Age Range	21 Days – 64 Years	

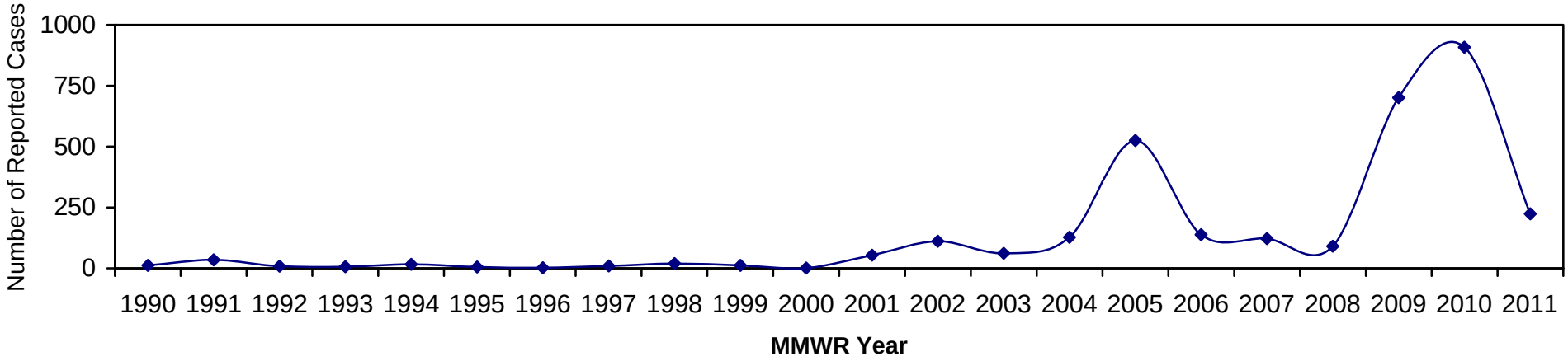
Age Distribution		
Under 1 Year	57	27.0%
1-3 Years	44	20.9%
4-8 Years	37	17.5%
9-14 Years	34	16.1%
15-24 Years	13	6.2%
25-34 Years	9	4.3%
35-44 Years	9	4.3%
45-54 Years	6	2.8%
55-64 Years	2	0.9%
65 Years and Older	0	0.0%

Data presented in this report include both confirmed and probable cases of Pertussis reported in Travis County. This report only includes completed case investigations; pending Pertussis reports and investigations are not included. All data 2012 are preliminary. The data provided for 2011 were generated on August 8, 2012 and 2012 data were generated on November 14, 2012.

The number of Pertussis cases varies over time in Travis County (Figure 1). In 2009 and 2010 there was an apparent outbreak of Pertussis in Travis County. Some of the increase resulted from advances in laboratory testing, the Pertussis case definition, and the process of case investigations. Since 2010, the Texas Department of State Health Services modified the Pertussis case definition and guidelines specific to case investigation. While there has been a recent decline in reported Pertussis cases in Travis County; it continues to be a public health concern. The majority of reported Pertussis cases correlate to the school year (Figure 2). Most reported cases of Pertussis occur in elementary age children and younger (Figure 3). Public health is especially concerned with cases of Pertussis in young children, especially those under 1 year old. About 60% of the cases reported for 2012 are less than eight years of age. The last reported Pertussis death in Travis County was in an infant in 2003. Preliminary data for 2012 indicate that reported cases of Pertussis seem to concentrate along the IH 35 corridor with cases most frequently being reported in North and South parts of Travis County (Map 1).

On September 6, 2012, the Texas Department of State Health Services (DSHS) Commissioner, David L. Lakey, M.D., issued a health advisory for Pertussis due to the "significant increase in reported cases of pertussis in 2012." DSHS reported six fatalities as a result of pertussis as of November 1, 2012. Five of these deaths occurred in infants under 3 months of age. Their age at time of death is significant because the first dose of DTap, the vaccine that prevents pertussis in children, is not recommended until 2 months of age. Due to the current situation with pertussis in the state, DSHS is urging "clinicians to offer pertussis vaccine to all their patients, especially pregnant women." "Following the Advisory Committee for Immunization Practices (ACIP), CDC recommends vaccinating all pregnant women with Tdap (Tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis vaccine) in the third trimester (any time after 20 weeks)."

Figure 1. Travis County Reported Cases of Pertussis by Year 1990 - 2011[1,2]



Data Source: Austin/Travis County Health and Human Services Department Epidemiology and Health Statistics Unit – National Electronic Disease Surveillance System (NEDSS)

Figure 2. Travis County Reported Cases of Pertussis by Month of Report 2008 - 2012[1,3]

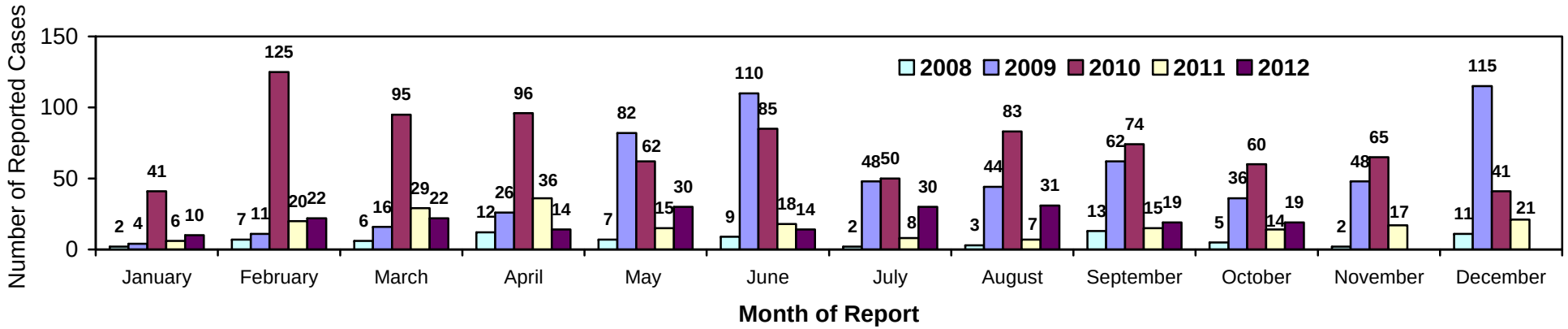
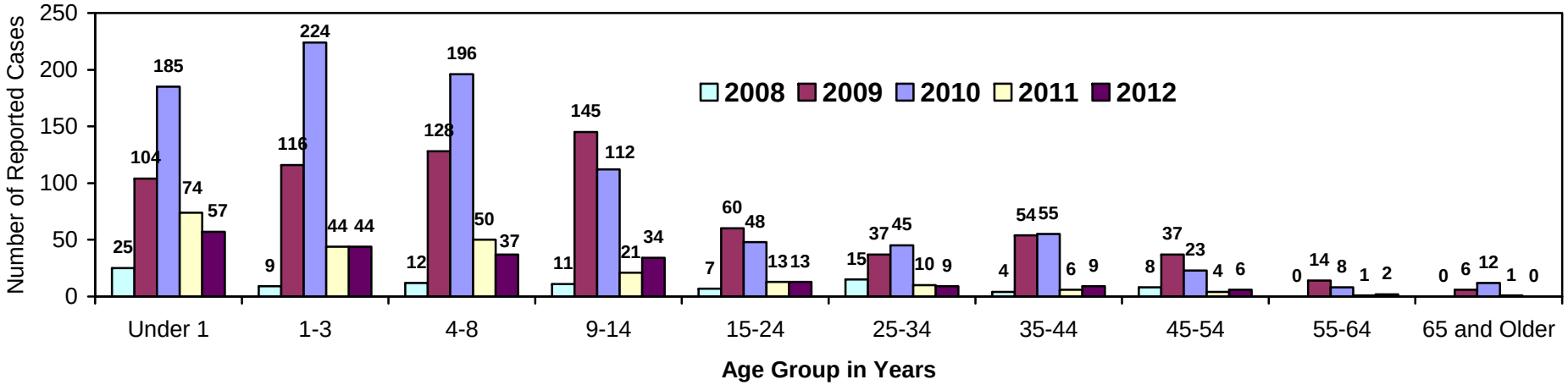


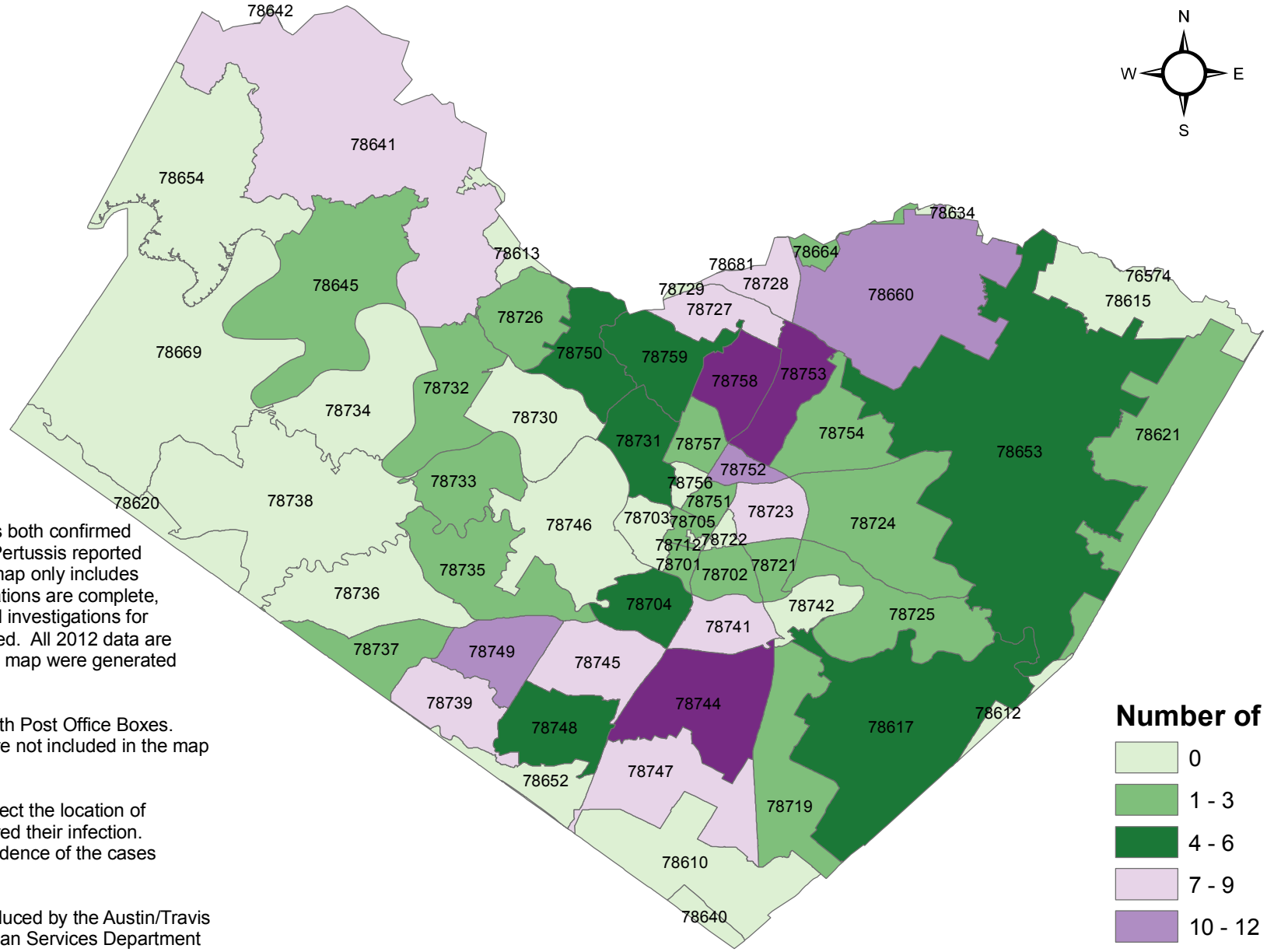
Figure 3. Travis County Reported Cases of Pertussis by Age Group 2011 – 2012[1,2]



Data Source: Austin/Travis County Health and Human Services Department Epidemiology and Health Statistics Unit – National Electronic Disease Surveillance System (NEDSS)

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

Map 1. Travis County Reported Cases of Pertussis 2012[1,2]



Data presented includes both confirmed and probable cases of Pertussis reported in Travis County. This map only includes cases in which investigations are complete, any pending reports and investigations for Pertussis are not included. All 2012 data are preliminary. Data in this map were generated on November 14, 2012.

Unable to map cases with Post Office Boxes. Three reported cases are not included in the map above.

This map does NOT reflect the location of 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.

For additional information about Texas Department of State Health Services Pertussis Health Advisory from September 6, 2012:
Texas DSHS Pertussis Update

For additional information about Pertussis:
CDC - Pertussis (Whooping Cough)

For additional information about Pertussis vaccination:
http://www.cdc.gov/pertussis/vaccines.html
http://www.austintexas.gov/department/immunizations
http://www.preventpertussis.org/

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[1] Data provided for 2012 are preliminary data. The data provided for 2011 were generated on August 8, 2012 and 2012 data were generated on November 14, 2012.
[2] Yearly data provided are based on MMWR year and not calendar year.
[3] Data by month of report may not include all cases for that MMWR year. All data are pulled by MMWR year and not calendar year. As a result, there are some instances in which cases are reported with a MMWR year in one year but the actual report was received the following calendar year. Consequently, the annual totals may not equal the exact total number of cases when each month's totals are summed.

Data Sources:
Texas Department of State Health Services Infectious Disease Control Unit
Austin/Travis County Health and Human Services Department Epidemiology and Health Statistics Unit – National Electronic Disease Surveillance System (NEDSS)