

Chapter 4

Communicable Diseases

Reportable Communicable Diseases

Table 4.1 shows the number of communicable diseases reported for residents of Taney County. It is evident that chronic Hepatitis C affects more residents than any other communicable disease with a 5 year average of 49 confirmed and probable cases reported per year.

Table 4.1

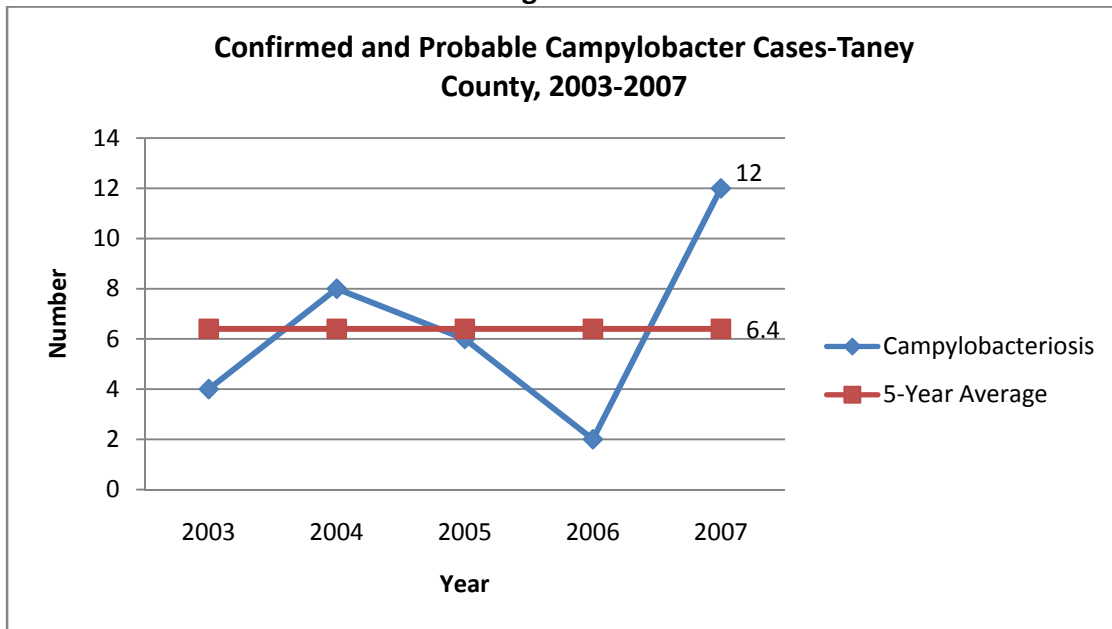
Confirmed and Probable Communicable Diseases-Taney County, 2003-2007						
Condition	2003	2004	2005	2006	2007	5-Year Mean
ASEPTIC MENINGITIS	1	0	0	0	0	0.2
CAMPYLOBACTERIOSIS	4	8	6	2	12	6.4
COCCIDIOIDOMYCOSIS	0	0	0	0	1	0.2
CREUTZFELDT-JAKOB DISEASE (CJD)	1	0	0	0	0	0.2
CRYPTOSPORIDIOSIS	0	2	1	1	1	1.0
E COLI SHIGA TOXIN POSITIVE	0	0	0	1	0	0.2
E. COLI O157 H7	0	0	0	1	1	0.4
EHRlichiosis HME	2	1	0	2	4	1.8
GIARDIASIS	5	2	2	4	4	3.4
HAEMOPHILUS INFLUENZAE, INVASIVE	0	1	1	0	0	0.4
HEPATITIS A ACUTE	1	1	0	0	0	0.4
HEPATITIS B (PREGNANCY) PRENATAL	0	0	0	1	0	0.2
HEPATITIS B ACUTE	6	0	0	1	0	1.4
HEPATITIS B CHRONIC INFECTION	1	2	6	1	1	2.2
HEPATITIS C, CHRONIC INFECTION	55	45	39	48	59	49.2
LISTERIOSIS	1	0	0	0	0	0.2
LYME	2	0	0	0	0	0.4
MENINGOCOCCAL DISEASE	0	0	0	0	1	0.2
MUMPS	0	0	0	1	0	0.2
PERTUSSIS	0	1	1	0	0	0.4
ROCKY MOUNTAIN SPOTTED FEVER	0	3	5	6	4	3.6
SALMONELLOSIS	3	1	7	4	5	4.0
SHIGELLOSIS	1	0	1	0	0	0.4
STREP DISEASE, GROUP A INVASIVE	3	0	0	0	1	0.8
STREP PNEUMONIAE, DRUG-RESISTANT	0	0	0	0	1	0.2
TULAREMIA	0	1	1	1	1	0.8
VARICELLA (CHICKENPOX)	0	0	1	10	19	6.0

Source: MOHSAIC, Crystal reports

Enteric Illnesses

Figure 4.1 shows the number for Campylobacter cases have declined since 2004 in Taney County. The number of cases in 2007 in the County was almost twice the average number recorded in the last 5 years.

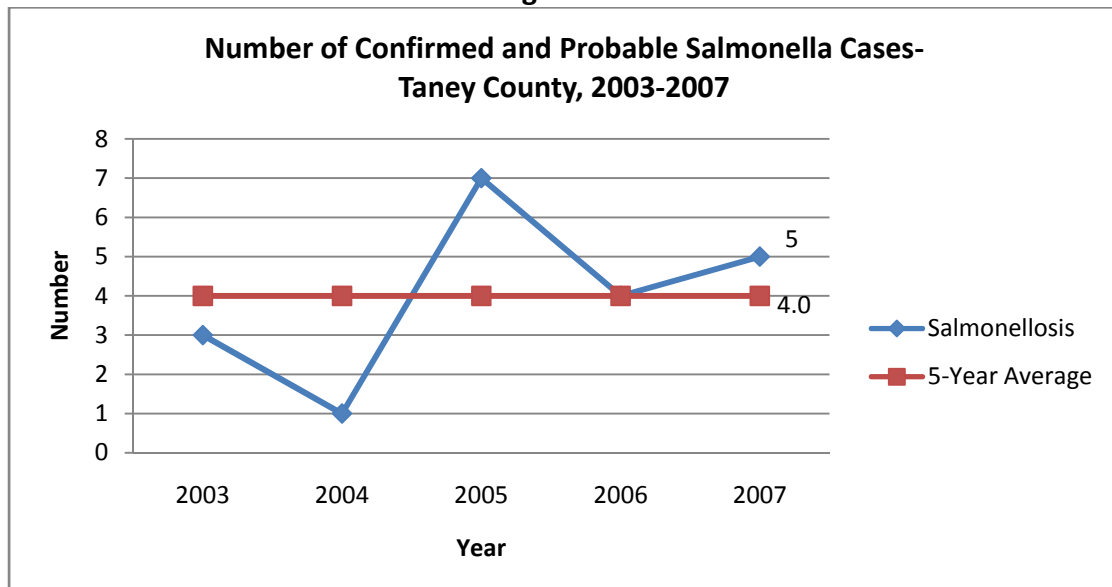
Figure 4.1



Source: Taney County Health Department

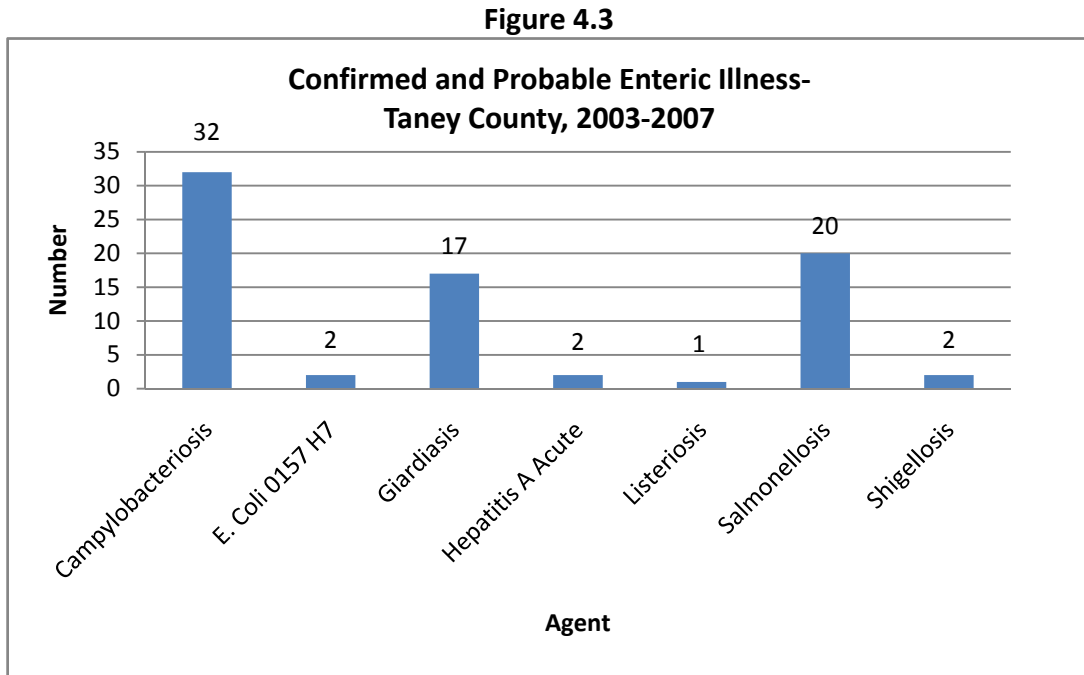
Fig. 4.2 demonstrates that the number of salmonella cases experienced a declining trend from 2005 to 2006 in Taney County.

Figure 4.2



Source: Taney County Health Department

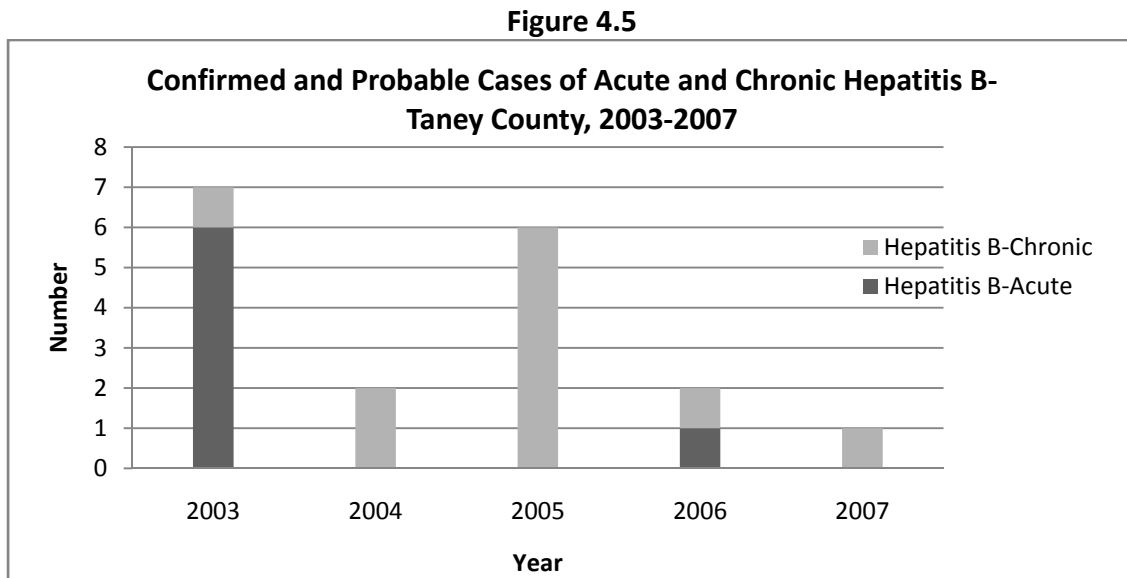
Fig. 4.3 reveals that more cases of Campylobacter were reported more than any other form of enteric illness between the years of 2003-2007 in Taney County.



Source: Taney County Health Department

Hepatitis Illnesses

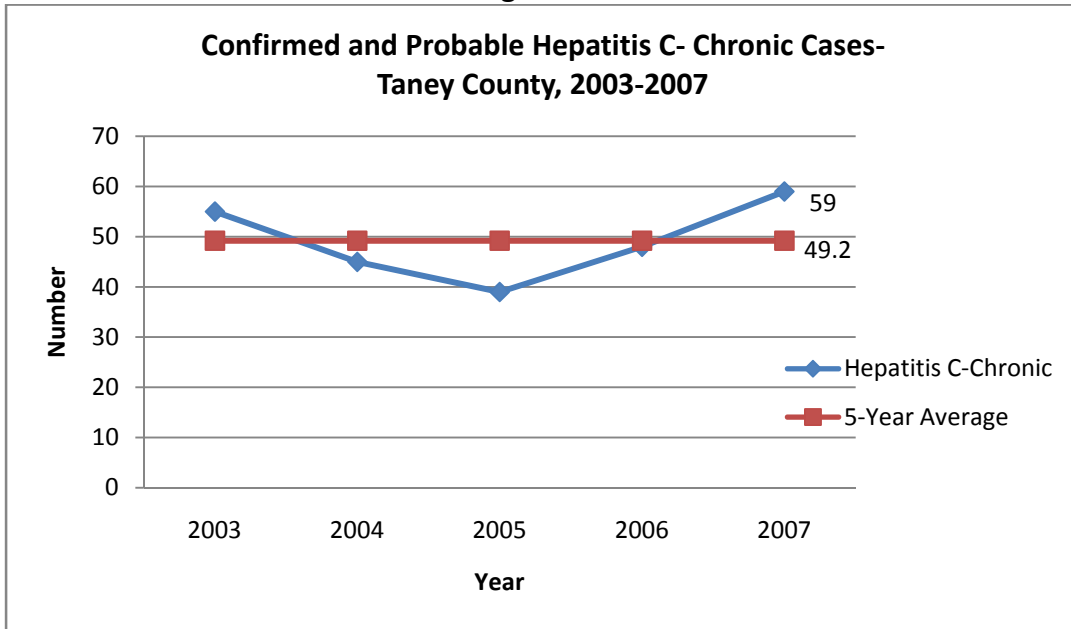
Figure 4.5 demonstrates that the number of Acute Hepatitis B cases experienced an increasing trend between 2005-2006 in Taney County. According to the graph, the number of cases reported in 2006 is marginally above the average number cases reported in the last five years.



Source: Taney County Health Department

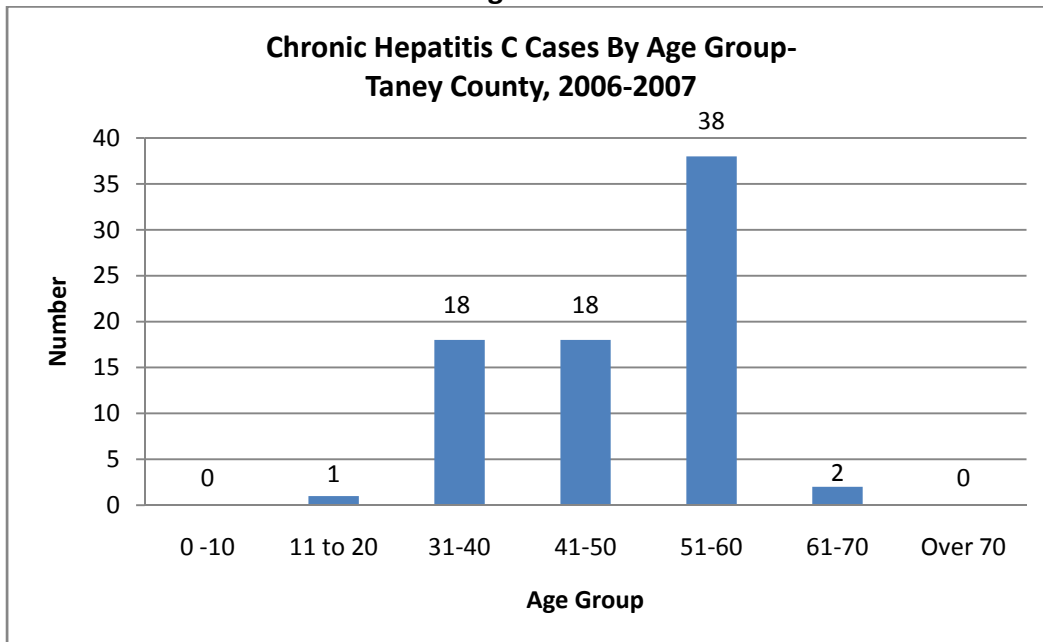
Fig. 4.6 illustrates that the number of Confirmed and Probable chronic Hepatitis C cases reported from 2003 to 2006 have experienced a declining trend in Taney County. However, in 2007 the number of cases increased beyond the 5 year average. Hepatitis C cases by age groups and history of intravenous drug use are shown in Figure 4.7 and 4.8.

Figure 4.6



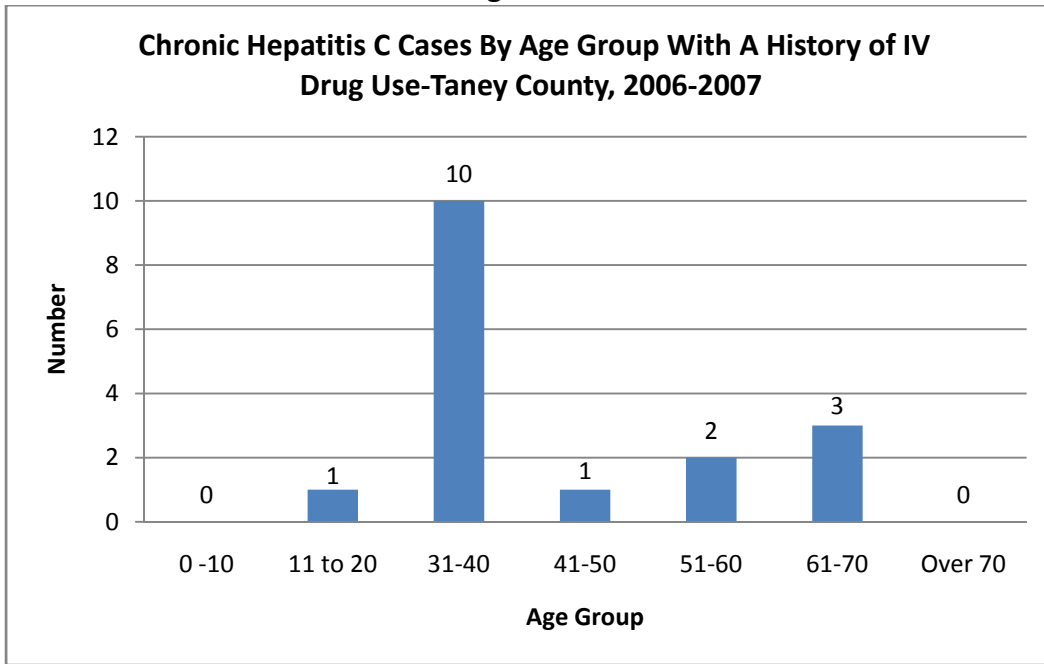
Source: Taney County Health Department

Figure 4.7



Source: Taney County Health Department

Figure 4.8



Source: Taney County Health Department

Table 4.2

Mortality Rate For Bacterial and Viral Infections-Taney County, 2000-2006			
Cause of Death	Taney County		Missouri
	Number	Rate Per 100,000	Rate
Septicemia	38	10.3	11.5
AIDS/HIV	3	@.@	2.4
Pneumonia and Influenza	105	29.6	23.7

Source: Taney County Health Department;
 @@ -indicates numbers are too small for calculations

Table 4.3

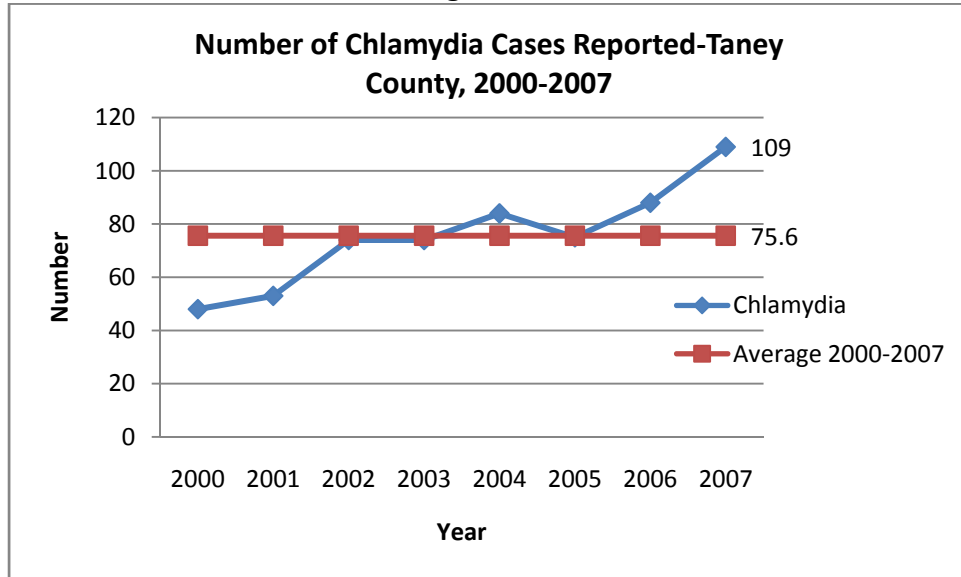
Hospital Discharges For Infections-Taney County, 2000-2005			
	Taney County		Missouri
	Number	Rate	Rate
Bacterial infection	580	20.0	13.8
Mycoses	15	@.@	0.7
Viral infection	130	5.3	5.7
Other infections- including parasitic	19	@.@	0.7
Immunizations and screening for infectious disease	0	@.@	0
Total for Selection	744	26.5	20.9

Source: Taney County Health Department
 @@ -indicates numbers are too small for calculations

Sexually Transmitted Diseases

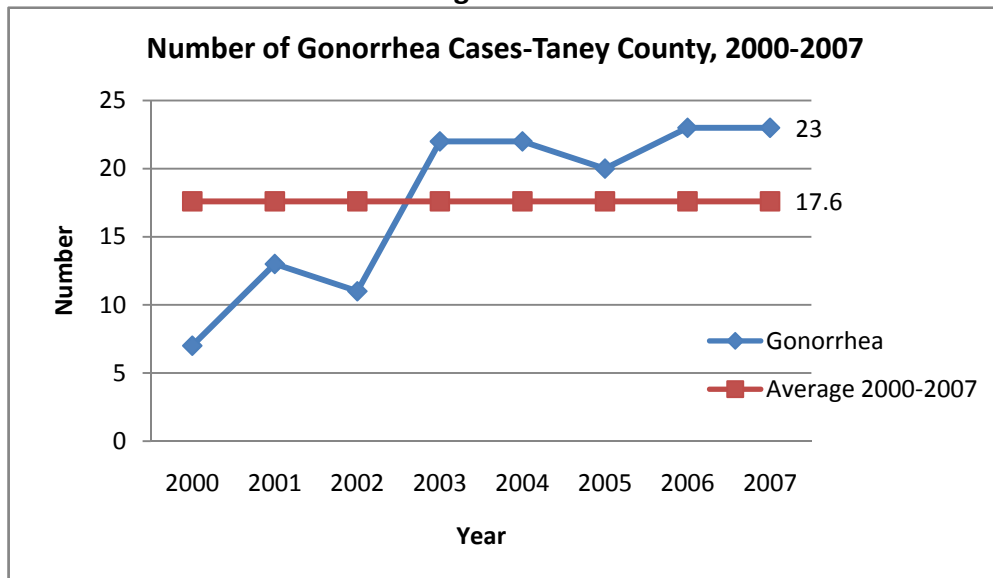
Sexually transmitted diseases have been increasing in Taney County since 2005. The sudden increase since 2005 indicates that a need exists for additional community education regarding the prevention of sexually transmitted diseases. Figures 4.9-4.12 and Table 4.4 illustrate the trends in the county for Chlamydia, Gonorrhea and Syphilis.

Figure 4.9



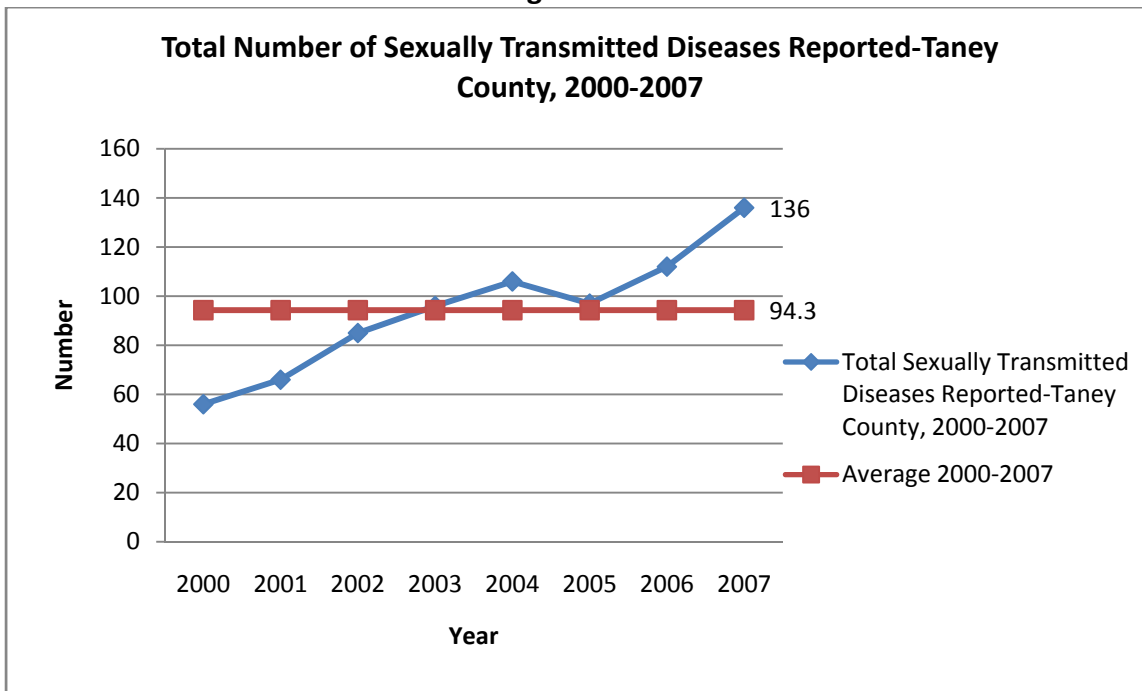
Source: Taney County Health Department

Figure 4.10



Source: Taney County Health Department

Figure 4.11



Source: Taney County Health Department

Table 4.4

Number of Sexually Transmitted Diseases Reported-Taney County, 2000-2007										
	2000	2001	2002	2003	2004	2005	2006	2007	Average	Total
Chlamydia	48	53	74	74	84	75	88	109	75.63	605
Gonorrhea	7	13	11	22	22	20	23	23	17.63	141
Syphilis	1	0	0	0	0	2	1	4	1	8

Source: Taney County Health Department

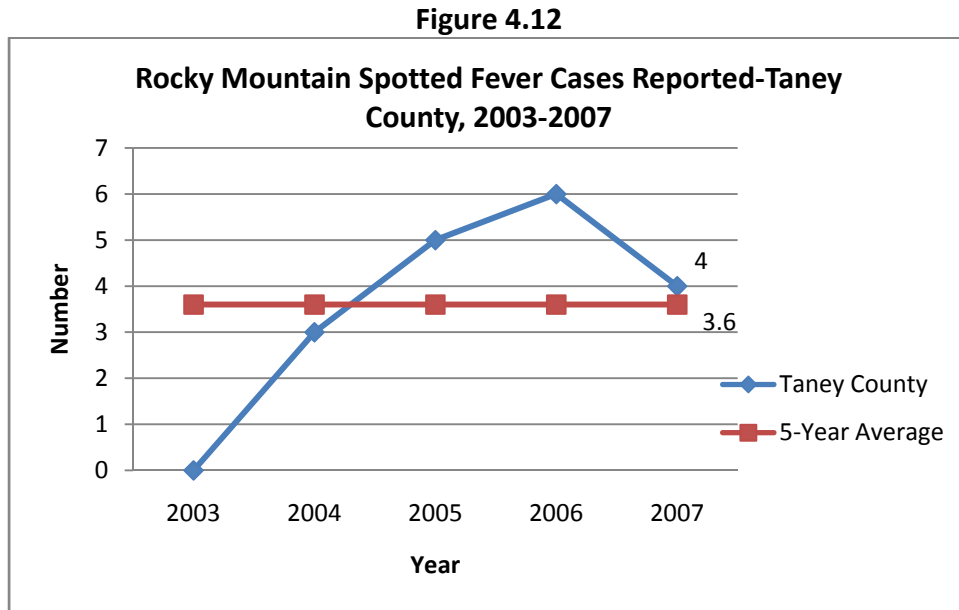
Table 4.5

HIV and AIDS Cases, 2005 and Cumulative*-Taney County, 2005				
	Taney County		SW HIV Region	
	Cumulative*	Rate Per 100,000	Cumulative*	Rate Per 100,000
HIV	19	45.3	346	32.8
AIDS	29	69.1	770	73.1
HIV Diagnosed 2005	1	2.4	25	2.4

Source: Missouri Department of Health and Senior Services; *includes all cases, living and deceased.

Tick Borne Infections

Tick borne diseases that are reported in Taney County include Rocky Mountain Spotted Fever, Ehrlichiosis, Lyme Disease, Tularemia and Q-Fever. Figure 4.12 provides the number of confirmed and probable cases of Rocky Mountain Spotted Fever Cases Identified in Taney County from 2003 to 2007. During this time the numbers of cases reported increased. The average number of cases during this time was 3.6.



Source: Missouri Department of Health and Senior Services

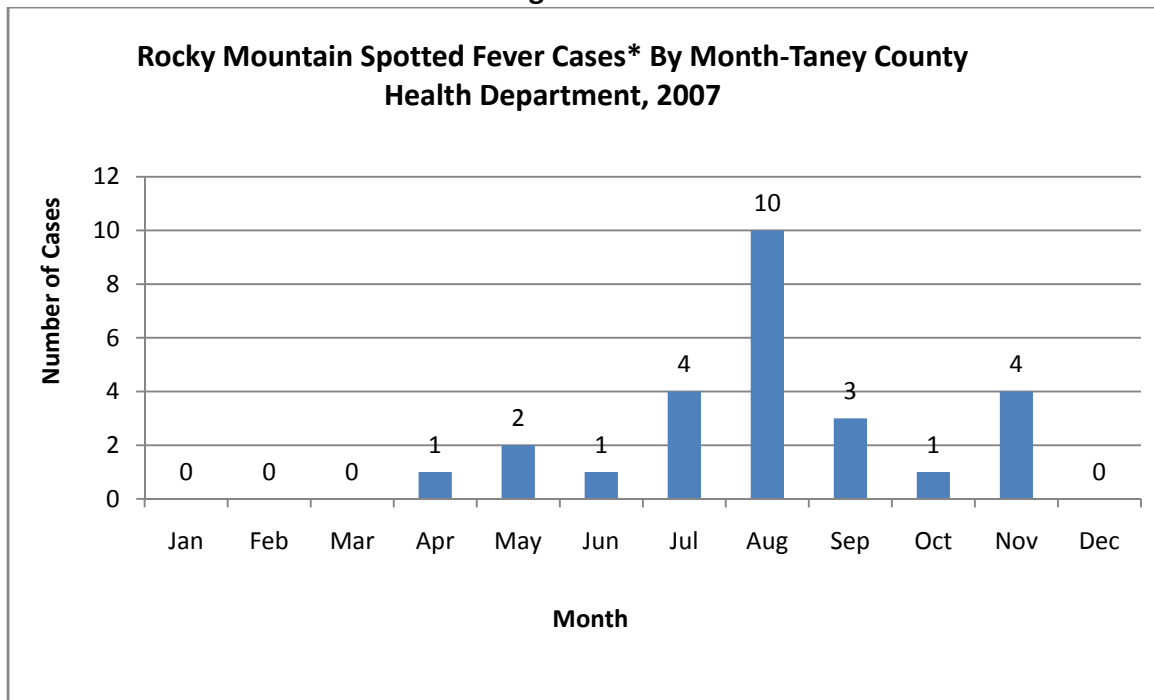
Additional suspect cases of the various tick-borne diseases are reported and investigated as well. These cases show many of the classic signs of the illnesses, but do not meet the case definition to be classified as probable or confirmed cases.

Table 4.6

Suspect, Probable and Confirmed Tick Borne Diseases-Taney County, 2007	
Ehrlichiosis	6
Lyme Disease	12
Rocky Mountain Spotted Fever	26
Tularemia	1

Source: Taney County Health Department

Figure 4.13



Source: Taney County Health Department; *Includes Suspect, Probable and Confirmed Cases.

Figure 4.13 provides an excellent example of the incidence of tick borne diseases by month of diagnosis. Diseases caused by tick bites occur mainly during the summer months in Taney County. However, these illnesses have been diagnosed during winter months and very early spring as well. Regardless of the time of year, it is best to take precautions to avoid tick bites whenever going outdoors where ticks may be.

Immunizations

Table 4.7 shows the percentage of 2 year olds that have been adequately immunized as assessed by DHSS during quality assurance contract monitoring in 2007.

Table 4.7

Immunization Statistics: Adequately Immunized- Taney County, 2007		
Child's Age: 2		
	2003	2005
Taney County	47.9%	67.0%

Source: Missouri Department of Health and Senior Services

Table 4.8 is a summary of selected vaccination series and the percent of children 2 years old that were classified as being up-to-date with their immunizations. Approximately 92% of children were adequately immunized for Polio and MMR.

Table 4.8

Percent of School Children Adequately Immunized, Grades K-12-Taney County, 2007-2008 School Year	
Select Series/Antigens	Percent Adequately Immunized
Diphtheria/Pertussis/Tetanus	96.51
Polio	97.45
Measels	97.35
Mumps 2 Dose	96.59
Mumps 1 Dose	97.89
Rubella 2 Dose	96.59
Rubella 1 Dose	97.89
Hepatitis B	96.99
Varicella	93.61

Source: State of Missouri Immunization Assessment Survey Results, 2008