NOTIFIABLE DISEASES FOR MERCED COUNTY

Overview - 2009

- Sexually transmitted and bloodborne diseases account for over 80% of all reported diseases each year in Merced County.
    - Chlamydia and Gonorrhea are the most commonly reported notifiable diseases, yet the number of reported cases has continued to decline since peaking in 2005.
        - The rate of reported chlamydia in 2009 was 329.1 cases per 100,000 population, a decrease of 5.4 percent from 2008 (347.9).
        - The rate of reported gonorrhea in 2009 was 27.6 cases per 100,000 population, a decrease of 20.0 percent from 2008 (34.5).
    - Chronic hepatitis B and C incidence has decreased significantly from 2008.
        - The rate of reported chronic hepatitis B in 2009 was 7.4 cases per 100,000 population, a decrease of 41.3 percent from 2008 (12.6).
        - The rate of reported chronic hepatitis C in 2009 was 76.9 cases per 100,000 population, a decrease of 37.6 percent from 2008 (123.2).
- The incidence of active tuberculosis (TB) disease increased to the highest level since 2003 and Merced County had the second highest percent increase in the state (behind Marin County).
    - The rate of reported TB in 2009 was 4.3 cases per 100,000 population, an increase of 115.0 percent from 2008 (2.0).
- Enteric infections tend to fluctuate every year and many more cases go undiagnosed or unreported. The majority of the cases reported in Merced County were isolated, sporadic events.
    - Giardiasis, the most commonly reported enteric infection detected mainly among refugees and other immigrants, decreased 80.0% in 2009 compared to 2008.
    - Campylobacteriosis continues to be the most commonly reported enteric infection. Merced County averages two times more cases of Campylobacteriosis than Salmonellosis.
- The incidence of viral meningitis increased to the highest level since 2003.
    - The rate of reported viral meningitis in 2009 was 10.1 cases per 100,000 population, an increase of 42.3 percent from 2008 (7.1).
- The incidence of reported West Nile Neuroinvasive Disease increased 300.0% in 2009 compared to 2008.

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05/10/2010

Table 1a

NOTIFIABLE DISEASES FOR MERCED COUNTY
REPORTED NUMBER OF CASES* & CASE RATE† (PER 100,000 POPULATION) BY DISEASE
ANNUAL COMPARISON (2000 - 2009)

DISEASE	2000		2001		2002		2003		2004		2005		2006		2007		2008		2009	
	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate
Acquired immunodeficiency syndrome (AIDS)	10	4.7	11	5.0	15	6.7	10	4.3	8	3.4	5	2.1	8	3.2	10	4.0	7	2.7	5	1.9
Amebiasis	1	0.5	0	0.0	1	0.4	0	0.0	6	2.5	4	1.6	1	0.4	0	0.0	5	2.0	2	0.8
Anthrax	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Avian Influenza (human)	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	0	0.0	0	0.0	0	0.0
Babesiosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Botulism (Infant, Foodborne,Wound)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Brucellosis	0	0.0	0	0.0	2	0.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4
Campylobacteriosis	80	37.8	64	29.4	62	27.7	60	26.0	68	28.7	57	23.5	47	18.9	53	21.0	62	24.3	69	26.8
Chancroid	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0
Chickenpox (only hospitalizations and deaths)	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	0	0.0	0	0.0	1	0.4
Chlamydial Infections (including LGV)	459	217.1	468	214.6	645	288.1	873	378.6	892	376.9	1049	431.6	1045	421.2	900	357.1	887	347.9	847	329.1
Cholera	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Ciguatera Fish Poisoning	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Coccidioidomycosis	5	2.4	4	1.8	16	7.1	17	7.4	13	5.5	14	5.8	12	4.8	16	6.3	14	5.5	13	5.1
Colorado Tick Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Creutzfeldt-Jakob Disease and other TSE	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	0	0.0	0	0.0	0	0.0
Cryptosporidiosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	1	0.4	0	0.0	1	0.4	1	0.4
Cysticercosis or Taeniasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	1	0.4	0	0.0	1	0.4	0	0.0
Dengue	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0
Diphtheria	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Domoic Acid Poisoning	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Ehrlichiosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4
Encephalitis - total cases	0	0.0	0	0.0	2	0.9	1	0.4	1	0.4	1	0.4	0	0.0	3	1.2	1	0.4	0	0.0
E. coli O157:H7 Infection	4	1.9	2	0.9	3	1.3	3	1.3	5	2.1	4	1.6	4	1.6	2	0.8	9	3.5	3	1.2
E. coli (non-O157 STEC)	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	2	0.8	2	0.8	0	0.0
Foodborne Disease	0	0.0	0	0.0	1	0.4	2	0.9	12	5.1	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0
Giardiasis	20	9.5	18	8.3	11	4.9	11	4.8	105	44.4	116	47.7	24	9.7	11	4.4	15	5.9	3	1.2
Gonococcal Infections	55	26.0	59	27.1	71	31.7	141	61.2	212	89.6	263	108.2	238	95.9	146	57.9	88	34.5	71	27.6
Haemophilus influenzae, Invasive (<15 years of age)	0	0.0	0	0.0	0	0.0	3	1.3	0	0.0	1	0.4	0	0.0	1	0.4	0	0.0	0	0.0
Hantavirus Infections	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Hemolytic Uremic Syndrome (HUS)	0	0.0	1	0.5	0	0.0	0	0.0	3	1.3	2	0.8	2	0.8	0	0.0	2	0.8	0	0.0
Hepatitis, Viral (unspecified)	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0
Hepatitis A	15	7.1	3	1.4	8	3.6	1	0.4	0	0.0	4	1.6	2	0.8	0	0.0	2	0.8	0	0.0
Hepatitis B, acute	8	3.8	7	3.2	1	0.4	3	1.3	0	0.0	6	2.5	1	0.4	2	0.8	0	0.0	0	0.0
Hepatitis B, chronic	44	20.8	26	11.9	38	17.0	30	13.0	53	22.4	67	27.6	41	16.5	40	15.9	32	12.6	19	7.4

Sources: Merced County Department of Public Health - AVSS Data System, MCDPH TB Program, MCDPH HIV/AIDS Program, STD Division; State of California, Department of Finance, California County Population Estimates and Components of Change by Year, July 1, 2000–2009, Sacramento, California, Dec 2009;
State of California, County Population Estimates and Components of Change by County - July 1, 1990-2000, February 2005

* *Incidence data for reporting years are provisional.*

† *Rates of disease based on less than 20 cases or events are considered unstable and subject to variability; conclusions drawn from unreliable rates should be made with caution, if they are made at all.*

‡ *Officially reportable in California in 2007.*

Table 1b

NOTIFIABLE DISEASES FOR MERCED COUNTY
REPORTED NUMBER OF CASES* & CASE RATE† (PER 100,000 POPULATION) BY DISEASE
ANNUAL COMPARISON (2000 - 2009)

DISEASE	2000		2001		2002		2003		2004		2005		2006		2007		2008		2009	
	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate
Hepatitis C, acute	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Hepatitis C, chronic	165	78.0	120	55.0	102	45.6	52	22.6	32	13.5	24	9.9	28	11.3	117	46.4	314	123.2	198	76.9
Hepatitis D (Delta)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Hepatitis, other, acute	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
HIV (Human Immunodeficiency Virus)	¶	¶	¶	¶	¶	¶	¶	¶	¶	¶	¶	¶	0	0.0	17	6.7	11	4.3	17	6.6
Influenza deaths (<18 years of age)	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	0	0.0	2	0.8	1	0.4
Kawasaki Syndrome	2	0.9	1	0.5	1	0.4	0	0.0	4	1.7	5	2.1	2	0.8	3	1.2	5	2.0	0	0.0
Legionellosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Leprosy (Hansen's Disease)	2	0.9	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0
Leptospirosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Listeriosis	0	0.0	2	0.9	0	0.0	0	0.0	0	0.0	3	1.2	2	0.8	0	0.0	1	0.4	0	0.0
Lyme Disease	1	0.5	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0
Malaria	0	0.0	0	0.0	2	0.9	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	1	0.4	0	0.0
Measles (Rubeola)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Meningitis - Bacterial	3	1.4	6	2.8	7	3.1	5	2.2	6	2.5	1	0.4	5	2.0	6	2.4	13	5.1	2	0.8
Meningitis - Fungal	0	0.0	1	0.5	1	0.4	1	0.4	6	2.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Meningitis - Viral (aseptic)	7	3.3	10	4.6	18	8.0	28	12.1	19	8.0	16	6.6	11	4.4	8	3.2	18	7.1	26	10.1
Meningitis - Parasitic	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Meningococcal Infections	2	0.9	2	0.9	2	0.9	3	1.3	1	0.4	2	0.8	0	0.0	1	0.4	4	1.6	0	0.0
Mumps	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0
Paralytic Shellfish Poisoning	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Pelvic Inflammatory Disease (PID)	5	2.4	0	0.0	2	0.9	7	3.0	5	2.1	19	7.8	12	4.8	6	2.4	2	0.8	4	1.6
Pertussis (Whooping Cough)	8	3.8	0	0.0	8	3.6	2	0.9	4	1.7	15	6.2	20	8.1	7	2.8	0	0.0	6	2.3
Plague, Human or Animal	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Polio virus Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Psittacosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Q Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	1	0.4
Rabies, Human or Animal	0	0.0	0	0.0	3	1.3	2	0.9	1	0.4	1	0.4	2	0.8	1	0.4	0	0.0	1	0.4
Relapsing Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rheumatic Fever, Acute	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rocky Mountain Spotted Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rubella (German Measles)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rubella Syndrome, Congenital	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salmonellosis	29	13.7	23	10.5	58	25.9	48	20.8	30	12.7	27	11.1	48	19.3	44	17.5	36	14.1	38	14.8
Scombroid Fish Poisoning	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Severe Acute Respiratory Syndrome (SARS)	††	††	††	††	††	††	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

Sources: Merced County Department of Public Health - AVSS Data System, MCDPH TB Program, MCDPH HIV/AIDS Program, STD Division; State of California, Department of Finance, California County Population Estimates and Components of Change by Year, July 1, 2000–2009, Sacramento, California, Dec 2009; State of California, County Population Estimates and Components of Change by County - July 1, 1990-2000, February 2005

** Incidence data for reporting years are provisional.*

† Rates of disease based on less than 20 cases or events are considered unstable and subject to variability; conclusions drawn from unreliable rates should be made with caution, if they are made at all.

¶ Limited to HIV cases reported by name (mandatory in April 2006)

‡ Officially reportable in California in 2007.

†† Officially reportable in California in 2003.

Table 1c

NOTIFIABLE DISEASES FOR MERCED COUNTY
REPORTED NUMBER OF CASES* & CASE RATE† (PER 100,000 POPULATION) BY DISEASE
ANNUAL COMPARISON (2000 - 2009)

DISEASE	2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		5 Year Annual Average
	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate	Case Count	Rate	2005 - 2009
Shiga toxin (detected in feces)	††	††	††	††	††	††	††	††	††	††	††	††	0	0.0	0	0.0	1	0.4	1	0.4	N/A
Shigellosis	7	3.3	10	4.6	14	6.3	5	2.2	8	3.4	11	4.5	3	1.2	2	0.8	4	1.6	9	3.5	6
Smallpox (Variola)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Staphylococcus aureus Infection (Severe)	\\	\\	\\	\\	\\	\\	\\	\\	\\	\\	\\	\\	\\	\\	\\	\\	1	0.4	1	0.4	N/A
Streptococcal infections	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Syphilis - Primary	6	2.8	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	1	0.4	2	0.8	0	0.0	1
Syphilis - Secondary	3	1.4	3	1.4	0	0.0	0	0.0	0	0.0	0	0.0	3	1.2	1	0.4	3	1.2	3	1.2	1
Syphilis - Other Stages	15	7.1	6	2.8	3	1.3	5	2.2	4	1.7	17	7.0	6	2.4	12	4.8	7	2.7	8	3.1	9
Tetanus	0	0.0	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Toxic Shock Syndrome	0	0.0	0	0.0	1	0.4	0	0.0	2	0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Trichinosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Tuberculosis (TB)	10	4.7	15	6.9	15	6.7	17	7.4	8	3.4	8	3.3	9	3.6	5	2.0	5	2.0	11	4.3	7
Tularemia	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Typhoid Fever, Cases and Carriers	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	3	1.2	0	0.0	2	0.8	1
Typhus Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Vibrio Infections	1	0.5	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Viral Hemorrhagic Fevers (e.g. Ebola)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Water-associated Disease (e.g., Swimmer's Itch)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
West Nile Fever	**	**	**	**	**	**	**	**	1	0.4	18	7.4	4	1.6	3	1.2	0	0.0	0	0.0	5
West Nile Neuroinvasive Disease	**	**	**	**	**	**	**	**	0	0.0	7	2.9	0	0.0	1	0.4	1	0.4	4	1.6	2
Yellow Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Yersiniosis	0	0.0	0	0.0	2	0.9	2	0.9	0	0.0	0	0.0	0	0.0	4	1.6	0	0.0	2	0.8	1
Outbreaks of Any Disease	1	0.5	0	0.0	1	0.4	3	1.3	2	0.8	1	0.4	3	1.2	1	0.4	8	3.1	5	1.9	3

Sources: Merced County Department of Public Health - AVSS Data System, MCDPH TB Program, MCDPH HIV/AIDS Program, STD Division; State of California, Department of Finance, California County Population Estimates and Components of Change by Year, July 1, 2000–2009, Sacramento, California, Dec 2009; State of California, County Population Estimates and Components of Change by County - July 1, 1990-2000, February 2005

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†† Officially reportable in California in 2006.

\\ Officially reportable in California in 2008.

*** Officially reportable in California in 2004.*