

**HEALTH SERVICE REGION 4 - 2008**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2008 POP.	AMEBIASIS		ANAPLASMA PHAGOCYTOPHILUM		BOTULISM, INFANT <sup>2</sup>		BOTULISM, WOUND	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,445	0	0.0	0	0.0	0	0.0	0	0.0
BOWIE	93,354	0	0.0	0	0.0	0	0.0	0	0.0
CAMP	12,865	0	0.0	0	0.0	0	0.0	0	0.0
CASS	30,347	0	0.0	0	0.0	0	0.0	0	0.0
CHEROKEE	49,394	0	0.0	0	0.0	0	0.0	0	0.0
DELTA	5,480	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,549	0	0.0	0	0.0	0	0.0	0	0.0
GREGG	118,189	0	0.0	0	0.0	1	53.0	0	0.0
HARRISON	64,219	0	0.0	0	0.0	0	0.0	0	0.0
HENDERSON	79,006	0	0.0	0	0.0	0	0.0	0	0.0
HOPKINS	34,112	0	0.0	0	0.0	0	0.0	0	0.0
LAMAR	49,861	0	0.0	0	0.0	0	0.0	0	0.0
MARION	10,667	0	0.0	0	0.0	0	0.0	0	0.0
MORRIS	13,053	0	0.0	0	0.0	0	0.0	0	0.0
PANOLA	23,265	0	0.0	0	0.0	0	0.0	0	0.0
RAINS	11,008	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,599	0	0.0	0	0.0	0	0.0	0	0.0
RUSK	48,343	0	0.0	0	0.0	0	0.0	0	0.0
SMITH	200,466	0	0.0	0	0.0	0	0.0	0	0.0
TITUS	30,360	0	0.0	0	0.0	0	0.0	0	0.0
UPSHUR	37,727	0	0.0	0	0.0	0	0.0	0	0.0
VAN ZANDT	52,370	0	0.0	0	0.0	0	0.0	0	0.0
WOOD	42,470	0	0.0	0	0.0	0	0.0	0	0.0
<b>REGIONAL TOTALS</b>	1,087,149	0	0.0	0	0.0	1	6.8	0	0.0
<b>STATEWIDE TOTALS</b>	24,326,974	336	1.4	1	0.0	8	2.0	1	0.0

**HEALTH SERVICE REGION 4 - 2008**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2008 POP.	BOTULISM, OTHER		BRUCELLOSIS		CAMPYLOBACTERIOSIS		CHICKENPOX (VARICELLA)	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,445	0	0.0	0	0.0	3	5.3	9	15.9
BOWIE	93,354	0	0.0	0	0.0	3	3.2	34	36.4
CAMP	12,865	0	0.0	0	0.0	0	0.0	1	7.8
CASS	30,347	0	0.0	0	0.0	2	6.6	0	0.0
CHEROKEE	49,394	0	0.0	0	0.0	8	16.2	19	38.5
DELTA	5,480	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,549	0	0.0	0	0.0	1	9.5	0	0.0
GREGG	118,189	0	0.0	0	0.0	5	4.2	12	10.2
HARRISON	64,219	0	0.0	0	0.0	2	3.1	16	24.9
HENDERSON	79,006	0	0.0	0	0.0	2	2.5	21	26.6
HOPKINS	34,112	0	0.0	0	0.0	1	2.9	1	2.9
LAMAR	49,861	0	0.0	0	0.0	1	2.0	35	70.2
MARION	10,667	0	0.0	0	0.0	0	0.0	0	0.0
MORRIS	13,053	0	0.0	0	0.0	0	0.0	0	0.0
PANOLA	23,265	0	0.0	0	0.0	1	4.3	16	68.8
RAINS	11,008	0	0.0	0	0.0	1	9.1	2	18.2
RED RIVER	13,599	0	0.0	0	0.0	1	7.4	4	29.4
RUSK	48,343	0	0.0	0	0.0	2	4.1	11	22.8
SMITH	200,466	0	0.0	0	0.0	16	8.0	57	28.4
TITUS	30,360	0	0.0	0	0.0	2	6.6	16	52.7
UPSHUR	37,727	0	0.0	0	0.0	3	8.0	0	0.0
VAN ZANDT	52,370	0	0.0	0	0.0	6	11.5	8	15.3
WOOD	42,470	0	0.0	0	0.0	2	4.7	17	40.0
<b>REGIONAL TOTALS</b>	<b>1,087,149</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>62</b>	<b>5.7</b>	<b>279</b>	<b>25.7</b>
<b>STATEWIDE TOTALS</b>	<b>24,326,974</b>	<b>1</b>	<b>0.0</b>	<b>9</b>	<b>0.0</b>	<b>1,441</b>	<b>5.9</b>	<b>7,839</b>	<b>32.2</b>

**HEALTH SERVICE REGION 4 - 2008**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2008 POP.	CHOLERA		CREUTZFELDT-JAKOB DISEASE		CRYPTOSPORIDIOSIS		CYCLOSPORIASIS	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,445	0	0.0	1	1.8	0	0.0	0	0.0
BOWIE	93,354	0	0.0	0	0.0	6	6.4	0	0.0
CAMP	12,865	0	0.0	0	0.0	0	0.0	0	0.0
CASS	30,347	0	0.0	0	0.0	0	0.0	0	0.0
CHEROKEE	49,394	0	0.0	0	0.0	0	0.0	0	0.0
DELTA	5,480	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,549	0	0.0	0	0.0	0	0.0	0	0.0
GREGG	118,189	0	0.0	0	0.0	2	1.7	0	0.0
HARRISON	64,219	0	0.0	1	1.6	2	3.1	0	0.0
HENDERSON	79,006	0	0.0	0	0.0	0	0.0	0	0.0
HOPKINS	34,112	0	0.0	0	0.0	0	0.0	0	0.0
LAMAR	49,861	0	0.0	0	0.0	11	22.1	0	0.0
MARION	10,667	0	0.0	0	0.0	0	0.0	0	0.0
MORRIS	13,053	0	0.0	0	0.0	0	0.0	0	0.0
PANOLA	23,265	0	0.0	0	0.0	0	0.0	0	0.0
RAINS	11,008	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,599	0	0.0	0	0.0	3	22.1	0	0.0
RUSK	48,343	0	0.0	0	0.0	1	2.1	0	0.0
SMITH	200,466	0	0.0	0	0.0	1	0.5	0	0.0
TITUS	30,360	0	0.0	0	0.0	3	9.9	0	0.0
UPSHUR	37,727	0	0.0	0	0.0	2	5.3	0	0.0
VAN ZANDT	52,370	0	0.0	0	0.0	0	0.0	0	0.0
WOOD	42,470	0	0.0	0	0.0	0	0.0	0	0.0
<b>REGIONAL TOTALS</b>	1,087,149	0	0.0	2	0.2	31	2.9	0	0.0
<b>STATEWIDE TOTALS</b>	24,326,974	1	0.0	19	0.1	3,342	13.7	6	0.0

**HEALTH SERVICE REGION 4 - 2008**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2008 POP.	CYSTICERCOSIS		DENGUE FEVER		EHRlichia CHAFFEENSIS		ENCEPHALITIS, NONARBOVIRAL	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,445	0	0.0	0	0.0	0	0.0	0	0.0
BOWIE	93,354	0	0.0	0	0.0	0	0.0	0	0.0
CAMP	12,865	0	0.0	0	0.0	0	0.0	0	0.0
CASS	30,347	0	0.0	0	0.0	0	0.0	0	0.0
CHEROKEE	49,394	0	0.0	0	0.0	0	0.0	0	0.0
DELTA	5,480	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,549	0	0.0	0	0.0	0	0.0	0	0.0
GREGG	118,189	0	0.0	0	0.0	0	0.0	0	0.0
HARRISON	64,219	0	0.0	0	0.0	0	0.0	0	0.0
HENDERSON	79,006	0	0.0	0	0.0	0	0.0	0	0.0
HOPKINS	34,112	0	0.0	0	0.0	0	0.0	0	0.0
LAMAR	49,861	0	0.0	0	0.0	0	0.0	0	0.0
MARION	10,667	0	0.0	0	0.0	0	0.0	0	0.0
MORRIS	13,053	0	0.0	0	0.0	0	0.0	0	0.0
PANOLA	23,265	0	0.0	0	0.0	0	0.0	0	0.0
RAINS	11,008	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,599	0	0.0	0	0.0	0	0.0	0	0.0
RUSK	48,343	0	0.0	0	0.0	0	0.0	0	0.0
SMITH	200,466	0	0.0	0	0.0	0	0.0	1	0.5
TITUS	30,360	0	0.0	0	0.0	0	0.0	0	0.0
UPSHUR	37,727	0	0.0	0	0.0	0	0.0	0	0.0
VAN ZANDT	52,370	0	0.0	0	0.0	0	0.0	0	0.0
WOOD	42,470	0	0.0	0	0.0	0	0.0	0	0.0
<b>REGIONAL TOTALS</b>	1,087,149	0	0.0	0	0.0	0	0.0	1	0.1
<b>STATEWIDE TOTALS</b>	24,326,974	5	0.0	22	0.1	28	0.1	15	0.1

**HEALTH SERVICE REGION 4 - 2008**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2008 POP.	ESCHERICHIA COLI, SHIGA TOXIN- PRODUCING (STEC)		HAEMOPHILUS INFLUENZAE TYPE B, INVASIVE		HANTAVIRUS INFECTION		HEMOLYTIC UREMIC SYNDROME	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,445	0	0.0	0	0.0	0	0.0	0	0.0
BOWIE	93,354	8	8.6	0	0.0	0	0.0	1	1.1
CAMP	12,865	0	0.0	0	0.0	0	0.0	0	0.0
CASS	30,347	1	3.3	0	0.0	0	0.0	0	0.0
CHEROKEE	49,394	1	2.0	1	2.0	0	0.0	0	0.0
DELTA	5,480	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,549	2	19.0	0	0.0	0	0.0	1	9.5
GREGG	118,189	0	0.0	0	0.0	0	0.0	0	0.0
HARRISON	64,219	4	6.2	0	0.0	0	0.0	0	0.0
HENDERSON	79,006	1	1.3	0	0.0	0	0.0	0	0.0
HOPKINS	34,112	0	0.0	0	0.0	0	0.0	0	0.0
LAMAR	49,861	4	8.0	0	0.0	0	0.0	1	2.0
MARION	10,667	0	0.0	0	0.0	0	0.0	0	0.0
MORRIS	13,053	0	0.0	0	0.0	0	0.0	0	0.0
PANOLA	23,265	1	4.3	0	0.0	0	0.0	0	0.0
RAINS	11,008	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,599	2	14.7	0	0.0	0	0.0	0	0.0
RUSK	48,343	0	0.0	0	0.0	0	0.0	0	0.0
SMITH	200,466	2	1.0	1	0.5	0	0.0	0	0.0
TITUS	30,360	1	3.3	0	0.0	0	0.0	0	0.0
UPSHUR	37,727	0	0.0	0	0.0	0	0.0	0	0.0
VAN ZANDT	52,370	1	1.9	0	0.0	0	0.0	0	0.0
WOOD	42,470	0	0.0	0	0.0	0	0.0	0	0.0
<b>REGIONAL TOTALS</b>	1,087,149	28	2.6	2	0.2	0	0.0	3	0.3
<b>STATEWIDE TOTALS</b>	24,326,974	332	1.4	11	0.0	1	0.0	12	0.0

**HEALTH SERVICE REGION 4 - 2008**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1)</sup>)**

COUNTY	2008 POP.	HEPATITIS A, ACUTE		HEPATITIS B, ACUTE		HEPATITIS B, PERINATAL <sup>3</sup>		HEPATITIS C, ACUTE	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,445	0	0.0	0	0.0	0	0.0	0	0.0
BOWIE	93,354	0	0.0	0	0.0	0	0.0	0	0.0
CAMP	12,865	0	0.0	0	0.0	0	0.0	0	0.0
CASS	30,347	0	0.0	1	3.3	0	0.0	0	0.0
CHEROKEE	49,394	0	0.0	0	0.0	0	0.0	2	4.0
DELTA	5,480	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,549	0	0.0	0	0.0	0	0.0	0	0.0
GREGG	118,189	0	0.0	2	1.7	0	0.0	1	0.8
HARRISON	64,219	1	1.6	4	6.2	0	0.0	1	1.6
HENDERSON	79,006	1	1.3	2	2.5	0	0.0	0	0.0
HOPKINS	34,112	0	0.0	0	0.0	0	0.0	0	0.0
LAMAR	49,861	0	0.0	1	2.0	0	0.0	0	0.0
MARION	10,667	0	0.0	1	9.4	0	0.0	0	0.0
MORRIS	13,053	0	0.0	1	7.7	0	0.0	0	0.0
PANOLA	23,265	0	0.0	0	0.0	0	0.0	0	0.0
RAINS	11,008	1	9.1	0	0.0	0	0.0	0	0.0
RED RIVER	13,599	0	0.0	0	0.0	0	0.0	0	0.0
RUSK	48,343	1	2.1	2	4.1	0	0.0	0	0.0
SMITH	200,466	3	1.5	2	1.0	0	0.0	0	0.0
TITUS	30,360	3	9.9	3	9.9	0	0.0	0	0.0
UPSHUR	37,727	0	0.0	0	0.0	0	0.0	0	0.0
VAN ZANDT	52,370	0	0.0	1	1.9	0	0.0	0	0.0
WOOD	42,470	0	0.0	0	0.0	0	0.0	0	0.0
<b>REGIONAL TOTALS</b>	1,087,149	10	0.9	20	1.8	0	0.0	4	0.4
<b>STATEWIDE TOTALS</b>	24,326,974	259	1.1	562	2.3	8	1.0	59	0.2

**HEALTH SERVICE REGION 4 - 2008**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2008 POP.	HEPATITIS D, ACUTE		INFLUENZA- ASSOCIATED PEDIATRIC MORTALITY <sup>4</sup>		INFLUENZA, NOVEL A		LEGIONELLOSIS	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,445	0	0.0	0	0.0	0	0.0	0	0.0
BOWIE	93,354	0	0.0	0	0.0	0	0.0	0	0.0
CAMP	12,865	0	0.0	0	0.0	0	0.0	0	0.0
CASS	30,347	0	0.0	0	0.0	0	0.0	0	0.0
CHEROKEE	49,394	0	0.0	0	0.0	0	0.0	0	0.0
DELTA	5,480	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,549	0	0.0	0	0.0	0	0.0	0	0.0
GREGG	118,189	0	0.0	0	0.0	0	0.0	0	0.0
HARRISON	64,219	0	0.0	0	0.0	0	0.0	0	0.0
HENDERSON	79,006	0	0.0	0	0.0	0	0.0	0	0.0
HOPKINS	34,112	0	0.0	0	0.0	0	0.0	0	0.0
LAMAR	49,861	0	0.0	0	0.0	0	0.0	1	2.0
MARION	10,667	0	0.0	0	0.0	0	0.0	0	0.0
MORRIS	13,053	0	0.0	0	0.0	0	0.0	0	0.0
PANOLA	23,265	0	0.0	0	0.0	0	0.0	0	0.0
RAINS	11,008	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,599	0	0.0	0	0.0	0	0.0	0	0.0
RUSK	48,343	0	0.0	0	0.0	0	0.0	0	0.0
SMITH	200,466	0	0.0	0	0.0	0	0.0	0	0.0
TITUS	30,360	0	0.0	0	0.0	0	0.0	0	0.0
UPSHUR	37,727	0	0.0	0	0.0	0	0.0	0	0.0
VAN ZANDT	52,370	0	0.0	0	0.0	0	0.0	1	1.9
WOOD	42,470	0	0.0	0	0.0	0	0.0	0	0.0
<b>REGIONAL TOTALS</b>	1,087,149	0	0.0	0	0.0	0	0.0	2	0.2
<b>STATEWIDE TOTALS</b>	24,326,974	1	0.0	9	0.1	1	0.0	81	0.3

**HEALTH SERVICE REGION 4 - 2008**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2008 POP.	LISTERIOSIS		LYME DISEASE		MALARIA		MENINGITIS, ASEPTIC	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,445	0	0.0	0	0.0	0	0.0	2	3.5
BOWIE	93,354	0	0.0	0	0.0	0	0.0	30	32.1
CAMP	12,865	0	0.0	0	0.0	0	0.0	1	7.8
CASS	30,347	1	3.3	0	0.0	0	0.0	2	6.6
CHEROKEE	49,394	0	0.0	0	0.0	0	0.0	1	2.0
DELTA	5,480	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,549	0	0.0	0	0.0	0	0.0	0	0.0
GREGG	118,189	0	0.0	0	0.0	0	0.0	39	33.0
HARRISON	64,219	1	1.6	0	0.0	0	0.0	5	7.8
HENDERSON	79,006	0	0.0	2	2.5	0	0.0	4	5.1
HOPKINS	34,112	0	0.0	0	0.0	0	0.0	3	8.8
LAMAR	49,861	0	0.0	0	0.0	0	0.0	3	6.0
MARION	10,667	0	0.0	0	0.0	0	0.0	1	9.4
MORRIS	13,053	0	0.0	0	0.0	0	0.0	1	7.7
PANOLA	23,265	0	0.0	0	0.0	0	0.0	0	0.0
RAINS	11,008	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,599	0	0.0	0	0.0	0	0.0	0	0.0
RUSK	48,343	0	0.0	1	2.1	0	0.0	1	2.1
SMITH	200,466	0	0.0	0	0.0	0	0.0	29	14.5
TITUS	30,360	0	0.0	0	0.0	0	0.0	0	0.0
UPSHUR	37,727	0	0.0	0	0.0	0	0.0	5	13.3
VAN ZANDT	52,370	0	0.0	2	3.8	1	1.9	6	11.5
WOOD	42,470	0	0.0	1	2.4	0	0.0	6	14.1
<b>REGIONAL TOTALS</b>	1,087,149	2	0.2	6	0.6	1	0.1	139	12.8
<b>STATEWIDE TOTALS</b>	24,326,974	37	0.2	153	0.6	87	0.4	1,747	7.2



**HEALTH SERVICE REGION 4 - 2008**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2008 POP.	MENINGITIS, BACTERIAL		MENINGITIS, OTHER		MENINGOCOCCAL INFECTION		MUMPS	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,445	0	0.0	0	0.0	0	0.0	0	0.0
BOWIE	93,354	6	6.4	3	3.2	0	0.0	0	0.0
CAMP	12,865	0	0.0	1	7.8	0	0.0	0	0.0
CASS	30,347	1	3.3	0	0.0	0	0.0	0	0.0
CHEROKEE	49,394	0	0.0	0	0.0	1	2.0	0	0.0
DELTA	5,480	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,549	0	0.0	0	0.0	0	0.0	0	0.0
GREGG	118,189	3	2.5	0	0.0	1	0.8	0	0.0
HARRISON	64,219	1	1.6	0	0.0	0	0.0	0	0.0
HENDERSON	79,006	0	0.0	2	2.5	0	0.0	0	0.0
HOPKINS	34,112	1	2.9	0	0.0	0	0.0	0	0.0
LAMAR	49,861	0	0.0	0	0.0	0	0.0	0	0.0
MARION	10,667	1	9.4	0	0.0	0	0.0	0	0.0
MORRIS	13,053	0	0.0	0	0.0	0	0.0	0	0.0
PANOLA	23,265	0	0.0	1	4.3	0	0.0	0	0.0
RAINS	11,008	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,599	0	0.0	0	0.0	0	0.0	0	0.0
RUSK	48,343	1	2.1	0	0.0	0	0.0	0	0.0
SMITH	200,466	9	4.5	0	0.0	0	0.0	0	0.0
TITUS	30,360	0	0.0	0	0.0	0	0.0	0	0.0
UPSHUR	37,727	1	2.7	0	0.0	0	0.0	1	2.7
VAN ZANDT	52,370	1	1.9	0	0.0	0	0.0	0	0.0
WOOD	42,470	0	0.0	0	0.0	0	0.0	0	0.0
<b>REGIONAL TOTALS</b>	1,087,149	25	2.3	7	0.6	2	0.2	1	0.1
<b>STATEWIDE TOTALS</b>	24,326,974	400	1.6	109	0.4	70	0.3	20	0.1

**HEALTH SERVICE REGION 4 - 2008**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2008 POP.	PERTUSSIS		PRIMARY AMOEBIC MENINGOENCEPHALITIS		Q FEVER, ACUTE		Q FEVER, CHRONIC	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,445	0	0.0	0	0.0	0	0.0	0	0.0
BOWIE	93,354	8	8.6	1	1.1	0	0.0	0	0.0
CAMP	12,865	0	0.0	0	0.0	0	0.0	0	0.0
CASS	30,347	6	19.8	0	0.0	0	0.0	0	0.0
CHEROKEE	49,394	5	10.1	0	0.0	0	0.0	0	0.0
DELTA	5,480	9	164.2	0	0.0	0	0.0	0	0.0
FRANKLIN	10,549	3	28.4	0	0.0	0	0.0	0	0.0
GREGG	118,189	0	0.0	0	0.0	0	0.0	0	0.0
HARRISON	64,219	0	0.0	0	0.0	0	0.0	0	0.0
HENDERSON	79,006	7	8.9	0	0.0	0	0.0	0	0.0
HOPKINS	34,112	4	11.7	0	0.0	0	0.0	0	0.0
LAMAR	49,861	103	206.6	0	0.0	0	0.0	0	0.0
MARION	10,667	1	9.4	0	0.0	0	0.0	0	0.0
MORRIS	13,053	3	23.0	0	0.0	0	0.0	0	0.0
PANOLA	23,265	0	0.0	0	0.0	0	0.0	0	0.0
RAINS	11,008	2	18.2	0	0.0	0	0.0	0	0.0
RED RIVER	13,599	2	14.7	0	0.0	0	0.0	0	0.0
RUSK	48,343	3	6.2	0	0.0	0	0.0	0	0.0
SMITH	200,466	4	2.0	0	0.0	0	0.0	0	0.0
TITUS	30,360	12	39.5	0	0.0	0	0.0	0	0.0
UPSHUR	37,727	0	0.0	0	0.0	0	0.0	0	0.0
VAN ZANDT	52,370	4	7.6	0	0.0	0	0.0	0	0.0
WOOD	42,470	1	2.4	0	0.0	0	0.0	0	0.0
<b>REGIONAL TOTALS</b>	1,087,149	177	16.3	1	0.1	0	0.0	0	0.0
<b>STATEWIDE TOTALS</b>	24,326,974	2,046	8.4	1	0.0	20	0.1	4	0.0

**HEALTH SERVICE REGION 4 - 2008**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2008 POP.	SALMONELLOSIS		SHIGELLOSIS		SPOTTED FEVER GP RICKETTSIOSES		STREPTOCOCCUS, GROUP A	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,445	9	15.9	14	24.8	0	0.0	0	0.0
BOWIE	93,354	16	17.1	3	3.2	0	0.0	2	2.1
CAMP	12,865	0	0.0	1	7.8	0	0.0	0	0.0
CASS	30,347	3	9.9	0	0.0	0	0.0	0	0.0
CHEROKEE	49,394	8	16.2	30	60.7	0	0.0	0	0.0
DELTA	5,480	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,549	1	9.5	0	0.0	0	0.0	0	0.0
GREGG	118,189	14	11.8	26	22.0	0	0.0	2	1.7
HARRISON	64,219	6	9.3	12	18.7	0	0.0	0	0.0
HENDERSON	79,006	19	24.0	4	5.1	1	1.3	4	5.1
HOPKINS	34,112	4	11.7	0	0.0	0	0.0	1	2.9
LAMAR	49,861	11	22.1	3	6.0	0	0.0	3	6.0
MARION	10,667	1	9.4	0	0.0	0	0.0	0	0.0
MORRIS	13,053	2	15.3	0	0.0	0	0.0	0	0.0
PANOLA	23,265	3	12.9	1	4.3	0	0.0	0	0.0
RAINS	11,008	2	18.2	0	0.0	0	0.0	0	0.0
RED RIVER	13,599	4	29.4	0	0.0	0	0.0	0	0.0
RUSK	48,343	6	12.4	7	14.5	0	0.0	1	2.1
SMITH	200,466	48	23.9	19	9.5	1	0.5	10	5.0
TITUS	30,360	5	16.5	1	3.3	0	0.0	0	0.0
UPSHUR	37,727	5	13.3	7	18.6	0	0.0	0	0.0
VAN ZANDT	52,370	16	30.6	0	0.0	0	0.0	2	3.8
WOOD	42,470	8	18.8	3	7.1	0	0.0	0	0.0
<b>REGIONAL TOTALS</b>	1,087,149	191	17.6	131	12.0	2	0.2	25	2.3
<b>STATEWIDE TOTALS</b>	24,326,974	5,583	22.9	4,665	19.2	62	0.3	426	1.8

**HEALTH SERVICE REGION 4 - 2008**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2008 POP.	STREPTOCOCCUS, GROUP B		STREPTOCOCCUS PNEUMONIAE		TETANUS		TYPHOID FEVER	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,445	1	1.8	1	1.8	0	0.0	0	0.0
BOWIE	93,354	5	5.4	15	16.1	0	0.0	0	0.0
CAMP	12,865	1	7.8	0	0.0	0	0.0	0	0.0
CASS	30,347	2	6.6	4	13.2	0	0.0	0	0.0
CHEROKEE	49,394	1	2.0	3	6.1	0	0.0	0	0.0
DELTA	5,480	0	0.0	1	18.2	0	0.0	0	0.0
FRANKLIN	10,549	0	0.0	1	9.5	0	0.0	0	0.0
GREGG	118,189	6	5.1	14	11.8	0	0.0	0	0.0
HARRISON	64,219	0	0.0	5	7.8	0	0.0	0	0.0
HENDERSON	79,006	0	0.0	10	12.7	0	0.0	0	0.0
HOPKINS	34,112	0	0.0	0	0.0	0	0.0	0	0.0
LAMAR	49,861	2	4.0	13	26.1	0	0.0	0	0.0
MARION	10,667	0	0.0	1	9.4	0	0.0	0	0.0
MORRIS	13,053	0	0.0	2	15.3	0	0.0	0	0.0
PANOLA	23,265	0	0.0	1	4.3	0	0.0	0	0.0
RAINS	11,008	2	18.2	2	18.2	0	0.0	0	0.0
RED RIVER	13,599	0	0.0	0	0.0	0	0.0	0	0.0
RUSK	48,343	1	2.1	6	12.4	0	0.0	0	0.0
SMITH	200,466	7	3.5	26	13.0	0	0.0	0	0.0
TITUS	30,360	0	0.0	1	3.3	0	0.0	0	0.0
UPSHUR	37,727	2	5.3	1	2.7	0	0.0	0	0.0
VAN ZANDT	52,370	3	5.7	4	7.6	0	0.0	0	0.0
WOOD	42,470	0	0.0	5	11.8	0	0.0	0	0.0
<b>REGIONAL TOTALS</b>	1,087,149	33	3.0	116	10.7	0	0.0	0	0.0
<b>STATEWIDE TOTALS</b>	24,326,974	583	2.4	1,886	7.8	3	0.0	31	0.1

**HEALTH SERVICE REGION 4 - 2008**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	TYPHUS, MURINE	TYPHUS, MURINE		VIBRIO PARAHAEMOLYTICUS		VIBRIO VULNIFICUS		VIBRIO OTHER/UNSPECIFIED	
	2008 POP.	CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,445	0	0.0	0	0.0	0	0.0	0	0.0
BOWIE	93,354	0	0.0	0	0.0	0	0.0	0	0.0
CAMP	12,865	0	0.0	0	0.0	0	0.0	0	0.0
CASS	30,347	0	0.0	0	0.0	0	0.0	0	0.0
CHEROKEE	49,394	0	0.0	0	0.0	0	0.0	0	0.0
DELTA	5,480	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,549	0	0.0	0	0.0	0	0.0	0	0.0
GREGG	118,189	0	0.0	0	0.0	0	0.0	0	0.0
HARRISON	64,219	0	0.0	0	0.0	0	0.0	0	0.0
HENDERSON	79,006	0	0.0	0	0.0	0	0.0	0	0.0
HOPKINS	34,112	0	0.0	0	0.0	0	0.0	0	0.0
LAMAR	49,861	0	0.0	0	0.0	0	0.0	0	0.0
MARION	10,667	0	0.0	0	0.0	0	0.0	0	0.0
MORRIS	13,053	0	0.0	0	0.0	0	0.0	0	0.0
PANOLA	23,265	0	0.0	0	0.0	0	0.0	0	0.0
RAINS	11,008	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,599	0	0.0	0	0.0	0	0.0	0	0.0
RUSK	48,343	0	0.0	0	0.0	0	0.0	0	0.0
SMITH	200,466	0	0.0	0	0.0	0	0.0	0	0.0
TITUS	30,360	0	0.0	0	0.0	0	0.0	0	0.0
UPSHUR	37,727	0	0.0	0	0.0	0	0.0	0	0.0
VAN ZANDT	52,370	0	0.0	0	0.0	0	0.0	0	0.0
WOOD	42,470	0	0.0	0	0.0	0	0.0	0	0.0
<b>REGIONAL TOTALS</b>	1,087,149	0	0.0	0	0.0	0	0.0	0	0.0
<b>STATEWIDE TOTALS</b>	24,326,974	157	0.6	12	0.0	17	0.1	28	0.1

**HEALTH SERVICE REGION 4 - 2008  
CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2008 POP.	VISA		WEST NILE FEVER		WEST NILE NEUROINVASIVE DISEASE		YERSINIOSIS	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,445	0	0.0	0	0.0	0	0.0	0	0.0
BOWIE	93,354	0	0.0	0	0.0	0	0.0	0	0.0
CAMP	12,865	0	0.0	0	0.0	0	0.0	0	0.0
CASS	30,347	0	0.0	0	0.0	0	0.0	0	0.0
CHEROKEE	49,394	0	0.0	0	0.0	0	0.0	0	0.0
DELTA	5,480	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,549	0	0.0	0	0.0	0	0.0	0	0.0
GREGG	118,189	0	0.0	0	0.0	0	0.0	0	0.0
HARRISON	64,219	0	0.0	0	0.0	0	0.0	0	0.0
HENDERSON	79,006	0	0.0	0	0.0	0	0.0	0	0.0
HOPKINS	34,112	0	0.0	0	0.0	0	0.0	0	0.0
LAMAR	49,861	0	0.0	0	0.0	0	0.0	0	0.0
MARION	10,667	0	0.0	0	0.0	0	0.0	0	0.0
MORRIS	13,053	0	0.0	0	0.0	0	0.0	0	0.0
PANOLA	23,265	0	0.0	0	0.0	0	0.0	1	4.3
RAINS	11,008	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,599	0	0.0	0	0.0	0	0.0	0	0.0
RUSK	48,343	0	0.0	0	0.0	0	0.0	0	0.0
SMITH	200,466	0	0.0	0	0.0	1	0.5	0	0.0
TITUS	30,360	0	0.0	0	0.0	0	0.0	0	0.0
UPSHUR	37,727	0	0.0	0	0.0	0	0.0	0	0.0
VAN ZANDT	52,370	0	0.0	0	0.0	0	0.0	0	0.0
WOOD	42,470	0	0.0	0	0.0	0	0.0	0	0.0

<b>REGIONAL TOTALS</b>	1,087,149	0	0.0	0	0.0	1	0.1	1	0.1
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<b>STATEWIDE TOTALS</b>	24,326,974	2	0.0	24	0.1	40	0.2	14	0.1
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<sup>1</sup> DSHS Center for Health Statistics estimated 2008 Texas population data <http://www.dshs.state.tx.us/chs/popdat/detailX.shtm>.

<sup>2</sup> Infant botulism rates are calculated using population under 1 year of age.

<sup>3</sup> Perinatal hepatitis B rates are calculated using population under 2 years of age.

<sup>4</sup> Pediatric influenza deaths are calculated using population under 18 years of age.