

**HEALTH SERVICE REGION 4 - 2009  
CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2009 POP.	AMEBIASIS		ANAPLASMA PHAGOCYTOPHILUM		BOTULISM, INFANT <sup>2</sup>		BRUCELLOSIS	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,810	0	0.0	0	0.0	0	0.0	0	0.0
BOWIE	94,160	0	0.0	0	0.0	1	83.8	0	0.0
CAMP	12,969	0	0.0	0	0.0	0	0.0	0	0.0
CASS	30,439	0	0.0	0	0.0	0	0.0	0	0.0
CHEROKEE	49,480	0	0.0	0	0.0	0	0.0	0	0.0
DELTA	5,483	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,532	0	0.0	0	0.0	0	0.0	0	0.0
GREGG	119,194	0	0.0	0	0.0	0	0.0	0	0.0
HARRISON	64,966	0	0.0	0	0.0	0	0.0	0	0.0
HENDERSON	79,155	0	0.0	0	0.0	0	0.0	0	0.0
HOPKINS	34,505	0	0.0	0	0.0	0	0.0	0	0.0
LAMAR	49,907	0	0.0	0	0.0	0	0.0	0	0.0
MARION	10,631	0	0.0	0	0.0	0	0.0	0	0.0
MORRIS	13,039	0	0.0	0	0.0	0	0.0	0	0.0
PANOLA	23,297	0	0.0	0	0.0	0	0.0	0	0.0
RAINS	11,167	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,564	0	0.0	0	0.0	0	0.0	0	0.0
RUSK	48,882	0	0.0	0	0.0	0	0.0	0	0.0
SMITH	204,097	0	0.0	0	0.0	0	0.0	0	0.0
TITUS	30,464	0	0.0	0	0.0	1	191.9	0	0.0
UPSHUR	38,061	0	0.0	0	0.0	0	0.0	0	0.0
VAN ZANDT	52,818	0	0.0	0	0.0	0	0.0	0	0.0
WOOD	43,016	0	0.0	0	0.0	0	0.0	0	0.0
<b>REGIONAL TOTALS</b>	1,096,636	0	0.0	0	0.0	2	13.6	3	0.3
<b>STATEWIDE TOTALS</b>	24,782,302	244	1.0	2	0.0	4	1.0	12	0.0

**HEALTH SERVICE REGION 4 - 2009**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2009 POP.	CAMPYLOBACTERIOSIS		CHICKENPOX (VARICELLA)		CHOLERA		CREUTZFELDT-JAKOB DISEASE	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,810	2	3.5	17	29.9	0	0.0	0	0.0
BOWIE	94,160	3	3.2	19	20.2	0	0.0	0	0.0
CAMP	12,969	0	0.0	2	15.4	0	0.0	0	0.0
CASS	30,439	1	3.3	1	3.3	0	0.0	0	0.0
CHEROKEE	49,480	1	2.0	10	20.2	0	0.0	0	0.0
DELTA	5,483	1	18.2	0	0.0	0	0.0	0	0.0
FRANKLIN	10,532	0	0.0	0	0.0	0	0.0	0	0.0
GREGG	119,194	9	7.6	39	32.7	0	0.0	0	0.0
HARRISON	64,966	4	6.2	2	3.1	0	0.0	0	0.0
HENDERSON	79,155	1	1.3	8	10.1	0	0.0	0	0.0
HOPKINS	34,505	1	2.9	4	11.6	0	0.0	0	0.0
LAMAR	49,907	4	8.0	4	8.0	0	0.0	0	0.0
MARION	10,631	0	0.0	1	9.4	0	0.0	0	0.0
MORRIS	13,039	1	7.7	4	30.7	0	0.0	0	0.0
PANOLA	23,297	1	4.3	0	0.0	0	0.0	0	0.0
RAINS	11,167	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,564	1	7.4	2	14.7	0	0.0	0	0.0
RUSK	48,882	3	6.1	10	20.5	0	0.0	0	0.0
SMITH	204,097	21	10.3	73	35.8	0	0.0	0	0.0
TITUS	30,464	0	0.0	1	3.3	0	0.0	0	0.0
UPSHUR	38,061	4	10.5	3	7.9	0	0.0	0	0.0
VAN ZANDT	52,818	3	5.7	5	9.5	0	0.0	0	0.0
WOOD	43,016	6	13.9	6	13.9	0	0.0	0	0.0

<b>REGIONAL TOTALS</b>	1,096,636	67	6.1	211	19.2	0	0.0	0	0.0
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<b>STATEWIDE TOTALS</b>	24,782,302	1,617	6.5	4,445	17.9	2	0.0	20	0.1
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**HEALTH SERVICE REGION 4 - 2009  
CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2009 POP.	CRYPTOSPORIDIOSIS		CYCLOSPORIASIS		CYSTICERCOSIS		DENGUE FEVER	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,810	0	0.0	0	0.0	0	0.0	0	0.0
BOWIE	94,160	2	2.1	0	0.0	0	0.0	0	0.0
CAMP	12,969	0	0.0	0	0.0	0	0.0	0	0.0
CASS	30,439	0	0.0	0	0.0	0	0.0	0	0.0
CHEROKEE	49,480	0	0.0	0	0.0	0	0.0	0	0.0
DELTA	5,483	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,532	0	0.0	0	0.0	0	0.0	0	0.0
GREGG	119,194	1	0.8	0	0.0	0	0.0	0	0.0
HARRISON	64,966	0	0.0	0	0.0	0	0.0	0	0.0
HENDERSON	79,155	0	0.0	0	0.0	0	0.0	0	0.0
HOPKINS	34,505	0	0.0	0	0.0	0	0.0	0	0.0
LAMAR	49,907	6	12.0	0	0.0	0	0.0	0	0.0
MARION	10,631	0	0.0	0	0.0	0	0.0	0	0.0
MORRIS	13,039	0	0.0	0	0.0	0	0.0	0	0.0
PANOLA	23,297	0	0.0	0	0.0	0	0.0	0	0.0
RAINS	11,167	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,564	1	7.4	0	0.0	0	0.0	0	0.0
RUSK	48,882	0	0.0	0	0.0	0	0.0	0	0.0
SMITH	204,097	0	0.0	0	0.0	0	0.0	0	0.0
TITUS	30,464	0	0.0	0	0.0	0	0.0	0	0.0
UPSHUR	38,061	0	0.0	0	0.0	0	0.0	0	0.0
VAN ZANDT	52,818	0	0.0	0	0.0	0	0.0	0	0.0
WOOD	43,016	1	2.3	0	0.0	0	0.0	0	0.0
<b>REGIONAL TOTALS</b>	1,096,636	11	1.0	0	0.0	0	0.0	0	0.0
<b>STATEWIDE TOTALS</b>	24,782,302	419	1.7	10	0.0	9	0.0	14	0.1

**HEALTH SERVICE REGION 4 - 2009**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2009 POP.	<i>EHRlichia chaffeensis</i>		EHRlichiosis/ANAPLASMOSIS - UNDETERMINED		ENCEPHALITIS, NONARBOVIRAL		ENCEPHALITIS, ST LOUIS	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,810	0	0.0	0	0.0	0	0.0	0	0.0
BOWIE	94,160	0	0.0	0	0.0	0	0.0	0	0.0
CAMP	12,969	0	0.0	0	0.0	0	0.0	0	0.0
CASS	30,439	0	0.0	0	0.0	0	0.0	0	0.0
CHEROKEE	49,480	0	0.0	0	0.0	0	0.0	0	0.0
DELTA	5,483	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,532	0	0.0	0	0.0	0	0.0	0	0.0
GREGG	119,194	0	0.0	0	0.0	0	0.0	0	0.0
HARRISON	64,966	0	0.0	0	0.0	0	0.0	0	0.0
HENDERSON	79,155	0	0.0	0	0.0	0	0.0	0	0.0
HOPKINS	34,505	0	0.0	0	0.0	0	0.0	0	0.0
LAMAR	49,907	0	0.0	0	0.0	0	0.0	0	0.0
MARION	10,631	0	0.0	0	0.0	0	0.0	0	0.0
MORRIS	13,039	0	0.0	0	0.0	0	0.0	0	0.0
PANOLA	23,297	0	0.0	0	0.0	0	0.0	0	0.0
RAINS	11,167	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,564	0	0.0	0	0.0	0	0.0	0	0.0
RUSK	48,882	0	0.0	0	0.0	0	0.0	0	0.0
SMITH	204,097	0	0.0	0	0.0	0	0.0	0	0.0
TITUS	30,464	0	0.0	0	0.0	0	0.0	0	0.0
UPSHUR	38,061	0	0.0	0	0.0	0	0.0	0	0.0
VAN ZANDT	52,818	0	0.0	0	0.0	0	0.0	0	0.0
WOOD	43,016	0	0.0	0	0.0	0	0.0	0	0.0

<b>REGIONAL TOTALS</b>	1,096,636	0	0.0	0	0.0	0	0.0	0	0.0
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<b>STATEWIDE TOTALS</b>	24,782,302	4	0.0	1	0.0	4	0.0	4	0.0
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**HEALTH SERVICE REGION 4 - 2009**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2009 POP.	ESCHERICHIA COLI, SHIGA TOXIN- PRODUCING (STEC)		HAEMOPHILUS INFLUENZAE TYPE B, INVASIVE		HEMOLYTIC UREMIC SYNDROME		HEPATITIS A, ACUTE	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,810	0	0.0	0	0.0	0	0.0	0	0.0
BOWIE	94,160	4	4.2	0	0.0	1	1.1	0	0.0
CAMP	12,969	0	0.0	0	0.0	0	0.0	0	0.0
CASS	30,439	1	3.3	0	0.0	0	0.0	0	0.0
CHEROKEE	49,480	0	0.0	0	0.0	0	0.0	0	0.0
DELTA	5,483	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,532	1	9.5	0	0.0	0	0.0	0	0.0
GREGG	119,194	0	0.0	0	0.0	0	0.0	4	3.4
HARRISON	64,966	0	0.0	0	0.0	0	0.0	1	1.5
HENDERSON	79,155	0	0.0	0	0.0	0	0.0	0	0.0
HOPKINS	34,505	1	2.9	0	0.0	0	0.0	0	0.0
LAMAR	49,907	1	2.0	0	0.0	0	0.0	2	4.0
MARION	10,631	0	0.0	0	0.0	0	0.0	0	0.0
MORRIS	13,039	0	0.0	0	0.0	0	0.0	0	0.0
PANOLA	23,297	0	0.0	0	0.0	0	0.0	0	0.0
RAINS	11,167	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,564	0	0.0	0	0.0	0	0.0	1	7.4
RUSK	48,882	1	2.0	0	0.0	0	0.0	0	0.0
SMITH	204,097	3	1.5	0	0.0	0	0.0	1	0.5
TITUS	30,464	1	3.3	0	0.0	0	0.0	0	0.0
UPSHUR	38,061	1	2.6	0	0.0	0	0.0	0	0.0
VAN ZANDT	52,818	0	0.0	0	0.0	0	0.0	0	0.0
WOOD	43,016	2	4.6	0	0.0	0	0.0	0	0.0
<b>REGIONAL TOTALS</b>	1,096,636	16	1.5	0	0.0	1	0.1	9	0.8
<b>STATEWIDE TOTALS</b>	24,782,302	247	1.0	7	0.0	6	0.0	184	0.7

**HEALTH SERVICE REGION 4 - 2009**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2009 POP.	HEPATITIS B, ACUTE		HEPATITIS B, PERINATAL <sup>3</sup>		HEPATITIS C, ACUTE		HEPATITIS E, ACUTE	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,810	0	0.0	0	0.0	0	0.0	0	0.0
BOWIE	94,160	1	1.1	0	0.0	0	0.0	0	0.0
CAMP	12,969	1	7.7	0	0.0	0	0.0	0	0.0
CASS	30,439	1	3.3	0	0.0	0	0.0	0	0.0
CHEROKEE	49,480	0	0.0	0	0.0	0	0.0	0	0.0
DELTA	5,483	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,532	0	0.0	0	0.0	0	0.0	0	0.0
GREGG	119,194	9	7.6	0	0.0	2	1.7	0	0.0
HARRISON	64,966	4	6.2	0	0.0	0	0.0	0	0.0
HENDERSON	79,155	0	0.0	0	0.0	0	0.0	0	0.0
HOPKINS	34,505	1	2.9	0	0.0	0	0.0	0	0.0
LAMAR	49,907	3	6.0	0	0.0	0	0.0	0	0.0
MARION	10,631	0	0.0	0	0.0	1	9.4	0	0.0
MORRIS	13,039	0	0.0	0	0.0	0	0.0	0	0.0
PANOLA	23,297	0	0.0	0	0.0	0	0.0	0	0.0
RAINS	11,167	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,564	0	0.0	0	0.0	0	0.0	0	0.0
RUSK	48,882	1	2.0	0	0.0	1	2.0	0	0.0
SMITH	204,097	2	1.0	0	0.0	0	0.0	0	0.0
TITUS	30,464	0	0.0	0	0.0	0	0.0	0	0.0
UPSHUR	38,061	1	2.6	0	0.0	0	0.0	0	0.0
VAN ZANDT	52,818	0	0.0	0	0.0	0	0.0	0	0.0
WOOD	43,016	0	0.0	0	0.0	0	0.0	0	0.0
<b>REGIONAL TOTALS</b>	1,096,636	24	2.2	0	0.0	4	0.4	0	0.0
<b>STATEWIDE TOTALS</b>	24,782,302	420	1.7	1	0.1	36	0.1	1	0.0

**HEALTH SERVICE REGION 4 - 2009**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2009 POP.	INFLUENZA-ASSOCIATED PEDIATRIC MORTALITY <sup>4</sup>		LEGIONELLOSIS		LEISHMANIASIS		LISTERIOSIS	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,810	0	0.0	0	0.0	0	0.0	0	0.0
BOWIE	94,160	1	4.7	0	0.0	0	0.0	0	0.0
CAMP	12,969	0	0.0	0	0.0	0	0.0	0	0.0
CASS	30,439	0	0.0	0	0.0	0	0.0	0	0.0
CHEROKEE	49,480	0	0.0	0	0.0	0	0.0	0	0.0
DELTA	5,483	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,532	0	0.0	0	0.0	0	0.0	0	0.0
GREGG	119,194	0	0.0	0	0.0	0	0.0	1	0.8
HARRISON	64,966	0	0.0	0	0.0	0	0.0	0	0.0
HENDERSON	79,155	0	0.0	0	0.0	0	0.0	0	0.0
HOPKINS	34,505	0	0.0	0	0.0	0	0.0	0	0.0
LAMAR	49,907	1	8.2	0	0.0	0	0.0	0	0.0
MARION	10,631	0	0.0	0	0.0	0	0.0	0	0.0
MORRIS	13,039	1	33.7	0	0.0	0	0.0	0	0.0
PANOLA	23,297	0	0.0	0	0.0	0	0.0	0	0.0
RAINS	11,167	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,564	0	0.0	0	0.0	0	0.0	0	0.0
RUSK	48,882	0	0.0	0	0.0	0	0.0	0	0.0
SMITH	204,097	2	3.8	0	0.0	0	0.0	1	0.5
TITUS	30,464	0	0.0	0	0.0	0	0.0	0	0.0
UPSHUR	38,061	0	0.0	0	0.0	0	0.0	0	0.0
VAN ZANDT	52,818	0	0.0	0	0.0	0	0.0	1	1.9
WOOD	43,016	0	0.0	1	2.3	0	0.0	0	0.0
<b>REGIONAL TOTALS</b>	1,096,636	5	1.9	1	0.1	0	0.0	3	0.3
<b>STATEWIDE TOTALS</b>	24,782,302	54	0.8	115	0.5	2	0.0	27	0.1

**HEALTH SERVICE REGION 4 - 2009**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2009 POP.	LYME DISEASE		MALARIA		MEASLES		MENINGITIS, ASEPTIC		MENINGITIS, BACTERIAL	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,810	0	0.0	1	1.8	0	0.0	3	5.3	1	1.8
BOWIE	94,160	0	0.0	0	0.0	0	0.0	5	5.3	2	2.1
CAMP	12,969	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CASS	30,439	0	0.0	0	0.0	0	0.0	2	6.6	0	0.0
CHEROKEE	49,480	0	0.0	0	0.0	0	0.0	1	2.0	0	0.0
DELTA	5,483	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,532	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
GREGG	119,194	0	0.0	0	0.0	0	0.0	59	49.5	6	5.0
HARRISON	64,966	0	0.0	0	0.0	0	0.0	6	9.2	1	1.5
HENDERSON	79,155	0	0.0	0	0.0	0	0.0	6	7.6	0	0.0
HOPKINS	34,505	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LAMAR	49,907	0	0.0	0	0.0	0	0.0	2	4.0	2	4.0
MARION	10,631	0	0.0	0	0.0	0	0.0	2	18.8	0	0.0
MORRIS	13,039	0	0.0	0	0.0	0	0.0	2	15.3	2	15.3
PANOLA	23,297	0	0.0	0	0.0	0	0.0	1	4.3	0	0.0
RAINS	11,167	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,564	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
RUSK	48,882	0	0.0	0	0.0	0	0.0	7	14.3	2	4.1
SMITH	204,097	1	0.5	1	0.5	0	0.0	41	20.1	5	2.4
TITUS	30,464	0	0.0	0	0.0	0	0.0	0	0.0	1	3.3
UPSHUR	38,061	0	0.0	0	0.0	0	0.0	10	26.3	1	2.6
VAN ZANDT	52,818	2	3.8	1	1.9	0	0.0	2	3.8	2	3.8
WOOD	43,016	0	0.0	0	0.0	0	0.0	2	4.6	0	0.0
<b>REGIONAL TOTALS</b>	1,096,636	3	0.3	3	0.3	0	0.0	151	13.8	25	2.3
<b>STATEWIDE TOTALS</b>	24,782,302	276	1.1	87	0.4	1	0.0	1,858	7.5	336	1.4



**HEALTH SERVICE REGION 4 - 2009  
CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2009 POP.	MENINGITIS, OTHER		MENINGOCOCCAL INFECTION		MUMPS		PERTUSSIS	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,810	1	1.8	0	0.0	0	0.0	1	1.8
BOWIE	94,160	1	1.1	0	0.0	2	2.1	7	7.4
CAMP	12,969	0	0.0	0	0.0	0	0.0	0	0.0
CASS	30,439	0	0.0	0	0.0	0	0.0	2	6.6
CHEROKEE	49,480	0	0.0	0	0.0	0	0.0	3	6.1
DELTA	5,483	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,532	0	0.0	0	0.0	0	0.0	1	9.5
GREGG	119,194	0	0.0	1	0.8	0	0.0	4	3.4
HARRISON	64,966	0	0.0	0	0.0	0	0.0	1	1.5
HENDERSON	79,155	0	0.0	0	0.0	0	0.0	2	2.5
HOPKINS	34,505	1	2.9	0	0.0	0	0.0	0	0.0
LAMAR	49,907	0	0.0	0	0.0	0	0.0	1	2.0
MARION	10,631	0	0.0	0	0.0	0	0.0	0	0.0
MORRIS	13,039	0	0.0	0	0.0	0	0.0	0	0.0
PANOLA	23,297	0	0.0	0	0.0	0	0.0	0	0.0
RAINS	11,167	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,564	0	0.0	0	0.0	0	0.0	2	14.7
RUSK	48,882	0	0.0	0	0.0	0	0.0	2	4.1
SMITH	204,097	4	2.0	0	0.0	0	0.0	8	3.9
TITUS	30,464	0	0.0	0	0.0	0	0.0	6	19.7
UPSHUR	38,061	0	0.0	0	0.0	1	2.6	8	21.0
VAN ZANDT	52,818	0	0.0	0	0.0	0	0.0	1	1.9
WOOD	43,016	0	0.0	0	0.0	0	0.0	1	2.3
<b>REGIONAL TOTALS</b>	1,096,636	7	0.6	1	0.1	3	0.3	50	4.6
<b>STATEWIDE TOTALS</b>	24,782,302	92	0.4	53	0.2	40	0.2	3,358	13.5

**HEALTH SERVICE REGION 4 - 2009**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2009 POP.	Q FEVER, ACUTE		Q FEVER, CHRONIC		RABIES, HUMAN		SALMONELLOSIS	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,810	0	0.0	0	0.0	0	0.0	4	7.0
BOWIE	94,160	0	0.0	0	0.0	0	0.0	13	13.8
CAMP	12,969	0	0.0	0	0.0	0	0.0	1	7.7
CASS	30,439	0	0.0	0	0.0	0	0.0	6	19.7
CHEROKEE	49,480	0	0.0	0	0.0	0	0.0	7	14.1
DELTA	5,483	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,532	0	0.0	0	0.0	0	0.0	0	0.0
GREGG	119,194	0	0.0	0	0.0	0	0.0	22	18.5
HARRISON	64,966	0	0.0	0	0.0	0	0.0	7	10.8
HENDERSON	79,155	0	0.0	0	0.0	0	0.0	5	6.3
HOPKINS	34,505	0	0.0	0	0.0	0	0.0	5	14.5
LAMAR	49,907	0	0.0	0	0.0	0	0.0	10	20.0
MARION	10,631	0	0.0	0	0.0	0	0.0	1	9.4
MORRIS	13,039	0	0.0	0	0.0	0	0.0	2	15.3
PANOLA	23,297	0	0.0	0	0.0	0	0.0	3	12.9
RAINS	11,167	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,564	0	0.0	0	0.0	0	0.0	0	0.0
RUSK	48,882	0	0.0	0	0.0	0	0.0	10	20.5
SMITH	204,097	0	0.0	0	0.0	0	0.0	35	17.1
TITUS	30,464	0	0.0	0	0.0	0	0.0	5	16.4
UPSHUR	38,061	0	0.0	0	0.0	0	0.0	10	26.3
VAN ZANDT	52,818	0	0.0	0	0.0	0	0.0	2	3.8
WOOD	43,016	0	0.0	0	0.0	0	0.0	11	25.6
<b>REGIONAL TOTALS</b>	1,096,636	0	0.0	0	0.0	0	0.0	159	14.5
<b>STATEWIDE TOTALS</b>	24,782,302	8	0.0	5	0.0	1	0.0	3,964	16.0

**HEALTH SERVICE REGION 4 - 2009**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2009 POP.	SHIGELLOSIS		SPOTTED FEVER GP RICKETTSIOSSES		STREPTOCOCCUS, GROUP A		STREPTOCOCCUS, GROUP B	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,810	0	0.0	0	0.0	0	0.0	0	0.0
BOWIE	94,160	3	3.2	0	0.0	2	2.1	3	3.2
CAMP	12,969	1	7.7	0	0.0	0	0.0	0	0.0
CASS	30,439	1	3.3	0	0.0	0	0.0	1	3.3
CHEROKEE	49,480	3	6.1	0	0.0	2	4.0	1	2.0
DELTA	5,483	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,532	0	0.0	0	0.0	0	0.0	1	9.5
GREGG	119,194	13	10.9	0	0.0	3	2.5	13	10.9
HARRISON	64,966	0	0.0	0	0.0	1	1.5	3	4.6
HENDERSON	79,155	0	0.0	0	0.0	0	0.0	2	2.5
HOPKINS	34,505	2	5.8	0	0.0	0	0.0	1	2.9
LAMAR	49,907	0	0.0	0	0.0	3	6.0	4	8.0
MARION	10,631	0	0.0	0	0.0	0	0.0	0	0.0
MORRIS	13,039	1	7.7	0	0.0	0	0.0	3	23.0
PANOLA	23,297	2	8.6	0	0.0	0	0.0	0	0.0
RAINS	11,167	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,564	0	0.0	0	0.0	0	0.0	0	0.0
RUSK	48,882	1	2.0	0	0.0	1	2.0	1	2.0
SMITH	204,097	1	0.5	0	0.0	1	0.5	8	3.9
TITUS	30,464	1	3.3	0	0.0	0	0.0	0	0.0
UPSHUR	38,061	0	0.0	0	0.0	0	0.0	7	18.4
VAN ZANDT	52,818	0	0.0	0	0.0	1	1.9	0	0.0
WOOD	43,016	0	0.0	0	0.0	1	2.3	0	0.0
<b>REGIONAL TOTALS</b>	1,096,636	29	2.6	0	0.0	15	1.4	48	4.4
<b>STATEWIDE TOTALS</b>	24,782,302	2,295	9.3	36	0.1	326	1.3	658	2.7

**HEALTH SERVICE REGION 4 - 2009  
CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2009 POP.	STREPTOCOCCUS PNEUMONIAE		TAENIASIS		TETANUS		TYPHOID FEVER	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,810	2	3.5	0	0.0	0	0.0	0	0.0
BOWIE	94,160	14	14.9	0	0.0	0	0.0	0	0.0
CAMP	12,969	1	7.7	0	0.0	0	0.0	0	0.0
CASS	30,439	2	6.6	0	0.0	0	0.0	0	0.0
CHEROKEE	49,480	3	6.1	0	0.0	0	0.0	0	0.0
DELTA	5,483	1	18.2	0	0.0	0	0.0	0	0.0
FRANKLIN	10,532	1	9.5	0	0.0	0	0.0	0	0.0
GREGG	119,194	29	24.3	0	0.0	0	0.0	0	0.0
HARRISON	64,966	4	6.2	0	0.0	0	0.0	0	0.0
HENDERSON	79,155	2	2.5	0	0.0	0	0.0	0	0.0
HOPKINS	34,505	4	11.6	0	0.0	0	0.0	0	0.0
LAMAR	49,907	14	28.1	0	0.0	0	0.0	0	0.0
MARION	10,631	0	0.0	0	0.0	0	0.0	0	0.0
MORRIS	13,039	5	38.3	0	0.0	0	0.0	0	0.0
PANOLA	23,297	1	4.3	0	0.0	0	0.0	0	0.0
RAINS	11,167	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,564	1	7.4	0	0.0	0	0.0	0	0.0
RUSK	48,882	6	12.3	0	0.0	0	0.0	0	0.0
SMITH	204,097	23	11.3	0	0.0	0	0.0	0	0.0
TITUS	30,464	0	0.0	0	0.0	0	0.0	0	0.0
UPSHUR	38,061	5	13.1	0	0.0	0	0.0	0	0.0
VAN ZANDT	52,818	6	11.4	0	0.0	0	0.0	0	0.0
WOOD	43,016	10	23.2	0	0.0	0	0.0	0	0.0
<b>REGIONAL TOTALS</b>	1,096,636	134	12.2	0	0.0	0	0.0	0	0.0
<b>STATEWIDE TOTALS</b>	24,782,302	1,952	7.9	2	0.0	1	0.0	23	0.1

**HEALTH SERVICE REGION 4 - 2009**  
**CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2009 POP.	TYPHUS, MURINE		VIBRIO PARAHAEMOLYTICUS		VIBRIO VULNIFICUS		VIBRIO, OTHER/UNSPECIFIED	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,810	0	0.0	0	0.0	0	0.0	0	0.0
BOWIE	94,160	0	0.0	0	0.0	0	0.0	0	0.0
CAMP	12,969	0	0.0	0	0.0	0	0.0	0	0.0
CASS	30,439	0	0.0	0	0.0	0	0.0	0	0.0
CHEROKEE	49,480	0	0.0	0	0.0	0	0.0	0	0.0
DELTA	5,483	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,532	0	0.0	0	0.0	0	0.0	0	0.0
GREGG	119,194	0	0.0	0	0.0	0	0.0	0	0.0
HARRISON	64,966	0	0.0	0	0.0	0	0.0	0	0.0
HENDERSON	79,155	0	0.0	0	0.0	0	0.0	0	0.0
HOPKINS	34,505	0	0.0	0	0.0	0	0.0	0	0.0
LAMAR	49,907	0	0.0	0	0.0	0	0.0	0	0.0
MARION	10,631	0	0.0	0	0.0	0	0.0	0	0.0
MORRIS	13,039	0	0.0	0	0.0	0	0.0	0	0.0
PANOLA	23,297	0	0.0	0	0.0	0	0.0	0	0.0
RAINS	11,167	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,564	0	0.0	0	0.0	0	0.0	0	0.0
RUSK	48,882	0	0.0	0	0.0	0	0.0	0	0.0
SMITH	204,097	0	0.0	0	0.0	0	0.0	0	0.0
TITUS	30,464	0	0.0	0	0.0	0	0.0	1	3.3
UPSHUR	38,061	0	0.0	0	0.0	0	0.0	0	0.0
VAN ZANDT	52,818	0	0.0	0	0.0	0	0.0	0	0.0
WOOD	43,016	0	0.0	0	0.0	0	0.0	0	0.0
<b>REGIONAL TOTALS</b>	1,096,636	0	0.0	0	0.0	0	0.0	1	0.1
<b>STATEWIDE TOTALS</b>	24,782,302	191	0.8	13	0.1	19	0.1	36	0.1

**HEALTH SERVICE REGION 4 - 2009  
CASES AND RATES (CASES PER 100,000 POPULATION<sup>1</sup>)**

COUNTY	2009 POP.	VISA		WEST NILE FEVER		WEST NILE NEUROINVASIVE DISEASE		YERSINIOSIS	
		CASES	RATES	CASES	RATES	CASES	RATES	CASES	RATES
ANDERSON	56,810	0	0.0	0	0.0	0	0.0	0	0.0
BOWIE	94,160	0	0.0	0	0.0	0	0.0	0	0.0
CAMP	12,969	0	0.0	0	0.0	0	0.0	0	0.0
CASS	30,439	0	0.0	0	0.0	0	0.0	0	0.0
CHEROKEE	49,480	0	0.0	0	0.0	0	0.0	0	0.0
DELTA	5,483	0	0.0	0	0.0	0	0.0	0	0.0
FRANKLIN	10,532	0	0.0	0	0.0	0	0.0	0	0.0
GREGG	119,194	0	0.0	0	0.0	0	0.0	0	0.0
HARRISON	64,966	0	0.0	0	0.0	0	0.0	0	0.0
HENDERSON	79,155	0	0.0	0	0.0	0	0.0	0	0.0
HOPKINS	34,505	0	0.0	0	0.0	0	0.0	0	0.0
LAMAR	49,907	0	0.0	0	0.0	0	0.0	1	2.0
MARION	10,631	0	0.0	0	0.0	0	0.0	0	0.0
MORRIS	13,039	0	0.0	0	0.0	0	0.0	0	0.0
PANOLA	23,297	0	0.0	0	0.0	0	0.0	0	0.0
RAINS	11,167	0	0.0	0	0.0	0	0.0	0	0.0
RED RIVER	13,564	0	0.0	0	0.0	0	0.0	0	0.0
RUSK	48,882	0	0.0	0	0.0	0	0.0	0	0.0
SMITH	204,097	0	0.0	0	0.0	0	0.0	0	0.0
TITUS	30,464	0	0.0	0	0.0	0	0.0	0	0.0
UPSHUR	38,061	0	0.0	0	0.0	0	0.0	0	0.0
VAN ZANDT	52,818	0	0.0	0	0.0	0	0.0	0	0.0
WOOD	43,016	0	0.0	0	0.0	0	0.0	0	0.0

<b>REGIONAL TOTALS</b>	1,096,636	0	0.0	0	0.0	0	0.0	1	0.1
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<b>STATEWIDE TOTALS</b>	24,782,302	4	0.0	22	0.1	93	0.4	17	0.1
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<sup>1</sup> DSHS Center for Health Statistics estimated 2009 Texas population data <https://www.dshs.texas.gov/chs/popdat/ST2009.shtm>.

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

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

<sup>4</sup> Influenza-associated pediatric mortality is calculated using county populations under 18 years of age.