

## Section D: Morbidity and Utilization

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**Morbidity Table 1: Number of Cases of Vaccine Preventable Disease Morbidity in Minnesota  
By State and County, 2007**

	<b>Mumps</b>	<b>Pertussis</b>	<b>Hepatitis A</b>	<b>Hepatitis B</b>
<b>State of Minnesota</b>	<b>28</b>	<b>393</b>	<b>94</b>	<b>25</b>
Aitkin	0	0	0	0
Anoka	1	19	1	1
Becker	0	0	0	0
Beltrami	0	0	1	1
Benton	0	0	1	0
Big Stone	0	0	0	0
Blue Earth	1	0	0	1
Brown	0	0	1	0
Carlton	0	1	1	0
Carver	0	3	1	0
Cass	0	0	0	1
Chippewa	0	0	0	0
Chisago	1	0	1	0
Clay	0	0	1	0
Clearwater	0	5	0	0
Cook	0	0	0	0
Cottonwood	0	0	0	0
Crow Wing	0	3	0	0
Dakota	1	68	1	1
Dodge	0	10	0	0
Douglas	0	1	0	0
Faribault	0	0	0	0
Fillmore	0	0	0	1
Freeborn	0	5	0	0
Goodhue	0	2	1	1
Grant	0	0	0	0
Hennepin	1	144	1	1
Houston	0	0	0	0
Hubbard	0	0	0	0
Isanti	0	0	0	0
Itasca	0	1	1	0
Jackson	0	0	0	0
Kanabec	0	0	0	0
Kandiyohi	1	0	0	1
Kittson	0	0	0	0
Koochiching	0	0	0	0
Lac Qui Parle	0	0	0	0
Lake	0	0	0	0
Lake of the Woods	0	2	0	0
Le Sueur	0	0	0	0
Lincoln	0	0	0	0
Lyon	0	0	0	1
McLeod	0	0	1	0
Mahnomen	0	0	0	0
Marshall	0	0	0	0
Martin	0	7	0	0
Meeker	0	0	0	0
Mille Lacs	0	2	0	1
Morrison	0	2	0	0
Mower	0	6	0	0
Murray	0	0	1	0
Nicollet	0	1	0	0

**Morbidity Table 1: Number of Cases of Vaccine Preventable Disease Morbidity in Minnesota By State and County, 2007**

	<b>Mumps</b>	<b>Pertussis</b>	<b>Hepatitis A</b>	<b>Hepatitis B</b>
<b>State of Minnesota</b>	<b>28</b>	<b>393</b>	<b>94</b>	<b>25</b>
Nobles	0	0	1	0
Norman	0	0	0	0
Olmsted	0	13	1	1
Otter Tail	0	11	1	0
Pennington	0	0	0	0
Pine	0	0	0	0
Pipestone	0	0	0	0
Polk	0	0	0	0
Pope	0	0	0	0
Ramsey	1	44	1	1
Red Lake	0	0	0	0
Redwood	0	0	0	0
Renville	0	0	0	0
Rice	0	5	0	0
Rock	0	0	0	0
Roseau	0	0	0	0
St. Louis	1	6	0	1
Scott	0	6	1	0
Sherburne	0	0	0	0
Sibley	0	0	0	0
Stearns	1	6	0	0
Steele	1	1	1	0
Stevens	0	0	0	0
Swift	0	0	0	0
Todd	0	2	0	0
Traverse	0	0	0	0
Wabasha	0	0	1	0
Wadena	0	0	1	0
Waseca	1	0	0	0
Washington	1	13	1	1
Watonwan	0	0	0	0
Wilkin	0	0	0	0
Winona	0	3	1	0
Wright	1	1	1	0
Yellow Medicine	0	0	0	0

Source: Minnesota Department of Health - Immunization, TB & International Health Section

Note: There were no cases of diphtheria, rubella or polio in Minnesota in 2007. There was one case of measles and one case of tetanus in Minnesota in 2007.

For information on definitions, sources of information, prevention and other information about these or other reportable diseases, please contact the Infectious Disease Epidemiology Prevention and Control Division at 651/201-5414

**Morbidity Table 2: Number of Cases of Sexually Transmitted Diseases Reported in Minnesota By State and County, 2007**

	Chlamydia <sup>1</sup>	Gonorrhea <sup>1</sup>	Primary/Secondary Syphilis	Syphilis - All Stages <sup>2</sup>	HIV <sup>3</sup>
<b>State of Minnesota</b>	<b>13,412</b>	<b>3,459</b>	<b>59</b>	<b>186</b>	<b>325</b>
Aitkin	10	1	0	0	0
Anoka	685	132	2	4	12
Becker	23	3	0	0	0
Beltrami	147	16	0	0	0
Benton	46	5	0	0	2
Big Stone	5	0	0	0	0
Blue Earth	239	20	0	0	1
Brown	23	1	0	0	0
Carlton	53	8	0	0	1
Carver	73	6	0	1	2
Cass	69	7	0	1	1
Chippewa	27	1	0	0	0
Chisago	88	9	1	1	1
Clay	87	7	1	2	0
Clearwater	5	2	0	0	1
Cook	2	0	0	0	0
Cottonwood	12	3	0	0	0
Crow Wing	91	16	0	1	0
Dakota	794	124	3	9	18
Dodge	24	7	0	0	0
Douglas	18	0	0	0	0
Faribault	19	0	0	0	0
Fillmore	13	1	0	0	0
Freeborn	57	2	0	1	0
Goodhue	89	5	0	0	0
Grant	1	0	0	0	0
Hennepin	4,742	1,651	41	112	190
Houston	17	4	0	0	0
Hubbard	13	0	0	0	2
Isanti	51	3	0	0	0
Itasca	76	10	0	0	0
Jackson	4	1	0	0	0
Kanabec	11	0	0	0	0
Kandiyohi	109	12	0	0	1
Kittson	0	0	0	0	0
Koochiching	36	0	0	0	0
Lac Qui Parle	5	0	0	0	0
Lake	12	2	0	0	0
Lake of the Woods	1	1	0	0	0
Le Sueur	36	3	0	0	0
Lincoln	3	0	0	0	0
Lyon	43	4	0	0	0
McLeod	55	4	0	0	0
Mahnomen	6	0	0	0	0
Marshall	6	0	0	0	0
Martin	21	0	0	0	0
Meeker	18	5	0	0	0
Mille Lacs	57	2	0	0	0
Morrison	31	1	0	0	2
Mower	89	13	0	0	0
Murray	12	0	0	0	0
Nicollet	33	4	0	0	0

**Morbidity Table 2: Number of Cases of Sexually Transmitted Diseases Reported in Minnesota By State and County, 2007**

	Chlamydia <sup>1</sup>	Gonorrhea <sup>1</sup>	Primary/Secondary Syphilis	Syphilis - All Stages <sup>2</sup>	HIV <sup>3</sup>
<b>State of Minnesota</b>	<b>13,412</b>	<b>3,459</b>	<b>59</b>	<b>186</b>	<b>325</b>
Nobles	45	3	0	1	0
Norman	3	0	0	0	0
Olmsted	308	87	0	2	4
Otter Tail	25	6	0	0	1
Pennington	13	3	0	0	0
Pine	48	2	0	0	0
Pipestone	2	1	0	0	0
Polk	25	2	0	0	0
Pope	4	0	0	0	2
Ramsey	2,249	775	8	30	54
Red Lake	1	0	0	0	0
Redwood	15	2	0	0	0
Renville	25	2	0	1	0
Rice	106	8	1	1	3
Rock	1	0	0	0	0
Roseau	10	2	0	0	0
St. Louis	526	124	0	0	6
Scott	186	26	0	2	5
Sherburne	85	16	0	0	2
Sibley	7	1	0	0	0
Stearns	377	70	0	1	8
Steele	74	7	0	0	0
Stevens	3	0	0	0	0
Swift	11	3	0	0	1
Todd	17	2	0	0	0
Traverse	0	0	0	0	0
Wabasha	15	3	0	0	0
Wadena	6	0	0	0	0
Waseca	31	4	0	0	0
Washington	299	58	1	7	4
Watonwan	9	0	0	0	1
Wilkin	1	0	0	0	0
Winona	53	6	0	0	0
Wright	125	25	0	2	0
Yellow Medicine	18	2	0	0	0

Source: Minnesota Department of Health, Acute Disease Epidemiology

<sup>1</sup> Data exclude cases diagnosed in federal or private correctional facilities; County data missing for 502 chlamydia, 123 gonorrhea and 1 primary/secondary syphilis cases.

<sup>2</sup> Neurosyphilis, primary, secondary, early latent, late latent, congenital and other syphilis

<sup>3</sup> HIV infection includes all new cases of HIV infection (both HIV (non-AIDS) and AIDS at first diagnosis) among Minnesota residents in 2007.

HIV Surveillance Reports, MDH [www.health.state.mn.us/divs/idepc/diseases/hiv/hivstatistics.html](http://www.health.state.mn.us/divs/idepc/diseases/hiv/hivstatistics.html)

STD Surveillance Reports, MDH: [www.health.state.mn.us/divs/idepc/dtopics/stds/stdstatistics.html](http://www.health.state.mn.us/divs/idepc/dtopics/stds/stdstatistics.html)

For information on definitions, sources of information, prevention and other information about these or other reportable diseases, contact the Acute Disease Epidemiology Section at 651/201-5414

**Morbidity Table 3: Number of Cases of Other Selected Diseases Reported in Minnesota  
By State and County, 2007**

	Campylo- bacteriosis	Giardiasis	Lyme Disease <sup>1</sup>	Human Anaplasmosis <sup>1</sup>	West Nile <sup>2</sup>	Salmo- nellosis	Shig- ellosis	Tuber- culosis
<b>State of Minnesota</b>	<b>907</b>	<b>904</b>	<b>1,239</b>	<b>322</b>	<b>101</b>	<b>711</b>	<b>237</b>	<b>238</b>
Aitkin	0	6	20	24	0	0	0	0
Anoka	45	39	101	20	1	43	26	10
Becker	2	3	11	5	5	1	0	0
Beltrami	2	1	15	8	2	6	21	0
Benton	12	4	3	1	0	12	0	0
Big Stone	2	0	0	0	8	0	0	0
Blue Earth	5	14	4	1	0	8	2	2
Brown	2	4	2	1	0	2	0	0
Carlton	3	4	34	7	0	4	4	0
Carver	21	12	11	1	1	7	0	1
Cass	3	2	40	34	0	5	8	1
Chippewa	0	1	0	0	0	1	0	0
Chisago	1	3	21	4	0	6	4	0
Clay	1	2	3	0	11	4	0	0
Clearwater	0	1	2	1	0	2	0	0
Cook	0	1	0	0	0	0	0	0
Cottonwood	7	0	1	0	1	0	1	0
Crow Wing	10	8	111	68	0	3	0	1
Dakota	68	33	75	8	2	56	21	8
Dodge	3	1	2	0	0	5	0	0
Douglas	9	3	2	1	1	2	5	0
Faribault	1	3	0	0	1	0	0	0
Fillmore	16	3	5	0	0	2	0	0
Freeborn	1	4	1	2	0	5	0	1
Goodhue	20	3	10	1	1	8	0	0
Grant	0	1	0	0	0	0	0	0
Hennepin	188	262	195	27	11	167	83	114
Houston	3	2	17	1	0	5	0	0
Hubbard	2	0	16	13	0	0	0	0
Isanti	1	0	15	4	0	5	0	0
Itasca	1	8	24	8	0	7	0	0
Jackson	2	0	0	0	0	1	0	0
Kanabec	3	2	12	3	0	0	0	0
Kandiyohi	9	10	5	0	1	6	3	2
Kittson	1	0	0	0	3	0	0	0
Koochiching	2	1	0	0	1	1	0	0
Lac Qui Parle	3	0	0	0	1	2	0	0
Lake	0	1	1	0	0	2	0	0
Lake of the Woods	1	0	0	0	0	1	0	0
Le Sueur	5	3	4	1	0	2	1	1
Lincoln	2	0	0	0	2	4	0	0
Lyon	6	1	0	0	2	5	1	1
McLeod	0	1	3	0	0	0	0	0
Mahnomen	1	1	1	2	0	0	0	0
Marshall	6	7	1	0	0	1	0	0
Martin	7	5	0	0	0	3	0	0
Meeker	4	2	0	0	1	2	0	0
Mille Lacs	6	2	12	1	1	0	1	0
Morrison	10	7	19	4	0	4	0	1
Mower	15	10	2	1	1	13	1	0
Murray	3	0	1	0	1	0	0	0

**Morbidity Table 3: Number of Cases of Other Selected Diseases Reported in Minnesota By State and County, 2007**

	Campylobacteriosis	Giardiasis	Lyme Disease <sup>1</sup>	Human Anaplasmosis <sup>1</sup>	West Nile <sup>2</sup>	Salmonellosis	Shigellosis	Tuberculosis
<b>State of Minnesota</b>	<b>907</b>	<b>904</b>	<b>1,239</b>	<b>322</b>	<b>101</b>	<b>711</b>	<b>237</b>	<b>238</b>
Nicollet	4	0	2	0	1	1	0	0
Nobles	8	0	0	0	1	5	0	1
Norman	0	4	0	0	7	0	0	0
Olmsted	28	17	17	2	0	36	1	20
Otter Tail	13	4	10	2	2	7	0	2
Pennington	1	0	0	0	1	1	1	0
Pine	2	1	41	12	0	5	0	1
Pipestone	3	1	0	0	0	0	0	0
Polk	3	2	6	1	8	2	1	0
Pope	4	3	0	0	1	0	0	0
Ramsey	76	177	94	15	3	76	32	47
Red Lake	1	0	1	0	1	1	0	0
Redwood	4	1	0	0	0	2	2	1
Renville	5	0	0	0	0	0	0	0
Rice	9	11	9	2	0	6	2	1
Rock	3	0	0	0	0	2	0	0
Roseau	0	2	0	0	2	0	0	0
St. Louis	18	14	30	6	3	17	3	3
Scott	7	7	18	1	0	17	2	3
Sherburne	2	1	35	5	0	2	0	1
Sibley	24	25	1	0	0	13	2	0
Stearns	33	25	29	6	2	13	2	8
Steele	9	4	1	1	0	8	1	1
Stevens	5	1	0	0	1	0	0	0
Swift	1	1	0	0	0	3	0	0
Todd	5	0	8	3	0	1	0	0
Traverse	1	1	0	0	1	1	0	0
Wabasha	7	2	3	1	0	6	0	1
Wadena	7	1	8	0	1	11	0	0
Waseca	2	2	2	0	0	2	0	1
Washington	47	24	64	10	1	36	5	4
Watsonwan	5	2	0	0	0	3	0	0
Wilkin	2	0	0	0	3	1	0	0
Winona	19	5	36	0	0	6	1	0
Wright	30	10	22	3	2	14	0	0
Yellow Medicine	4	1	0	0	1	0	0	0

Source: Minnesota Department of Health, Acute Disease Epidemiology

<sup>1</sup>Lyme disease and human anaplasmosis (HA) are caused by bites from blacklegged ticks (deer ticks), which are found in wooded areas of north-central, eastern, and southeastern Minnesota and western Wisconsin. Most Minnesotans with Lyme disease or HA lived or traveled to these areas. County of residence does not always indicate county of tick exposure.

<sup>2</sup>West Nile virus disease is caused by bites from *Culex tarsalis* mosquitoes. These mosquitoes can be found anywhere in Minnesota, but risk is greatest in agricultural areas of western and central Minnesota. County of residence does not always indicate county of mosquito exposure.

For more information on tick- and mosquito-borne diseases, please refer to the MDH Vector-borne Diseases webpage (<http://www.health.state.mn.us/divs/idepc/dtopics/vectorborne/index.html>) or call 651-201-5414.

For information on definitions, sources of information, prevention and other information about these or other reportable diseases, please contact the Acute Disease Epidemiology Section at 651/201-5414.

**Morbidity Table 4: Motor Vehicle Injuries by Severity in Minnesota  
By State and County, 2007**

	Injury Severity					Total
	Severe	Moderate	Minor	Killed	Unhurt	
<b>State of Minnesota</b>	<b>1,736</b>	<b>9,365</b>	<b>24,217</b>	<b>510</b>	<b>169,156</b>	<b>204,984</b>
Aitkin	8	30	58	2	293	391
Anoka	109	563	1,391	17	8,412	10,492
Becker	13	84	106	5	529	737
Beltrami	9	60	181	4	1,024	1,278
Benton	18	79	216	4	1,161	1,478
Big Stone		18	15	1	87	121
Blue Earth	27	173	293	3	2,748	3,244
Brown	8	36	103	3	585	735
Carlton	14	58	119	3	490	684
Carver	19	126	352	13	2,506	3,016
Cass	20	57	108	7	492	684
Chippewa	3	24	41	2	217	287
Chisago	25	120	221	8	1,299	1,673
Clay	9	64	219	6	1,665	1,963
Clearwater	3	16	20	1	139	179
Cook	2	12	22	2	154	192
Cottonwood	6	24	26	3	184	243
Crow Wing	16	103	324	11	1,490	1,944
Dakota	79	475	1,598	26	10,283	12,461
Dodge	10	26	71	2	387	496
Douglas	18	75	182	9	1,289	1,573
Faribault	5	26	62	5	317	415
Fillmore	9	26	57		385	477
Freeborn	10	54	121	4	1,029	1,218
Goodhue	29	120	166	12	1,337	1,664
Grant	3	15	17	1	120	156
Hennepin	347	2,314	6,849	52	49,526	59,088
Houston	14	30	47		468	559
Hubbard	10	43	79	3	273	408
Isanti	18	82	151	8	845	1,104
Itasca	25	98	232	10	924	1,289
Jackson	12	19	34	1	258	324
Kanabec	6	27	94	2	300	429
Kandiyohi	23	98	276	4	1,314	1,715
Kittson	1	7	6	2	43	59
Koochiching	5	22	37	2	306	372
Lac Qui Parle	2	8	12		87	109
Lake	6	28	29	3	222	288
Lake of the Woods		11	5	1	57	74
Le Sueur	10	59	124	3	647	843
Lincoln	3	11	15	3	149	181
Lyon	10	54	93	2	621	780
McLeod	8	52	150	2	1,006	1,218
Mahnomen	4	11	14	3	52	84
Marshall	2	19	23	1	85	130
Martin	11	47	116	4	620	798
Meeker	11	45	74	1	424	555
Mille Lacs	4	32	100	6	527	669
Morrison	18	52	116	4	605	795
Mower	11	51	142	2	1,205	1,411
Murray	2	15	24	3	85	129

**Morbidity Table 4: Motor Vehicle Injuries by Severity in Minnesota  
By State and County, 2007**

	Injury Severity					Total
	Severe	Moderate	Minor	Killed	Unhurt	
<b>State of Minnesota</b>	<b>1,736</b>	<b>9,365</b>	<b>24,217</b>	<b>510</b>	<b>169,156</b>	<b>204,984</b>
Nicollet	5	51	124	4	865	1,049
Nobles	4	54	101	4	516	679
Norman	6	17	17	1	66	107
Olmsted	58	395	544	14	4,835	5,846
Otter Tail	13	71	191	7	1,281	1,563
Pennington	6	19	73	1	346	445
Pine	10	62	165	6	505	748
Pipestone	11	16	42	4	255	328
Polk	13	52	87	7	610	769
Pope	3	13	43	2	167	228
Ramsey	131	792	2,895	21	27,803	31,642
Red Lake		2	5	2	29	38
Redwood	12	38	66	4	242	362
Renville	19	28	51	4	188	290
Rice	25	86	225	4	1,120	1,460
Rock	2	15	48	4	223	292
Roseau	1	10	51	2	161	225
St. Louis	80	396	933	23	6,756	8,188
Scott	52	198	467	19	2,924	3,660
Sherburne	19	123	310	10	2,147	2,609
Sibley	2	15	44	1	221	283
Stearns	61	349	766	10	5,386	6,572
Steele	22	74	131	7	913	1,147
Stevens	2	9	30	3	163	207
Swift	7	14	20	3	148	192
Todd	8	40	62	3	357	470
Traverse	3	4	9		48	64
Wabasha	6	61	78	2	404	551
Wadena	2	25	42	1	213	283
Waseca	10	35	74	4	340	463
Washington	36	287	895	20	5,894	7,132
Watonwan	3	23	38	3	212	279
Wilkin	6	10	20	6	149	191
Winona	29	120	206	6	1,640	2,001
Wright	31	141	411	20	2,642	3,245
Yellow Medicine	3	21	22	2	116	164

Sources: Minnesota Department of Public Safety

**Severe Injury:** Any injury, other than a fatal injury which prevents the injured person from walking, driving, or normally continuing activities which he/she was capable of performing just before the accident

**Moderate Injury:** Any injury, other than fatal or incapacitating, which is evident to a person other than the injured at the scene of the accident (e.g. bruises, abrasions, swelling, minor lacerations, limping etc.).

**Minor Injury:** None of the above injuries, but is a complaint of physical pain by the injured (e.g. momentary unconsciousness, nausea, hysteria, etc.)

**Morbidity Table 5: Seatbelt Use by Vehicle Occupant Killed or Injured in Minnesota  
By State and County, 2007**

	Seatbelt Use						Total Killed or Injured
	Used		Not Used		Unknown		
	Number	Percent	Number	Percent	Number	Percent	
<b>State of Minnesota</b>	<b>24,655</b>	<b>77.6</b>	<b>3,435</b>	<b>10.8</b>	<b>3,665</b>	<b>11.5</b>	<b>31,755</b>
Aitkin	69	78.4	17	19.3	2	2.3	88
Anoka	1,548	82.9	147	7.9	172	9.2	1,867
Becker	124	64.9	40	20.9	27	14.1	191
Beltrami	168	69.7	48	19.9	25	10.4	241
Benton	240	81.1	33	11.1	23	7.8	296
Big Stone	12	36.4	15	45.5	6	18.2	33
Blue Earth	351	79.1	46	10.4	47	10.6	444
Brown	101	77.7	12	9.2	17	13.1	130
Carlton	124	70.1	16	9.0	37	20.9	177
Carver	388	83.6	54	11.6	22	4.7	464
Cass	108	61.4	37	21.0	31	17.6	176
Chippewa	35	53.0	22	33.3	9	13.6	66
Chisago	261	75.4	33	9.5	52	15.0	346
Clay	214	79.0	29	10.7	28	10.3	271
Clearwater	20	57.1	11	31.4	4	11.4	35
Cook	26	74.3	7	20.0	2	5.7	35
Cottonwood	34	63.0	10	18.5	10	18.5	54
Crow Wing	324	79.4	54	13.2	30	7.4	408
Dakota	1,600	82.5	123	6.3	217	11.2	1,940
Dodge	60	60.6	24	24.2	15	15.2	99
Douglas	195	74.7	33	12.6	33	12.6	261
Faribault	48	53.3	19	21.1	23	25.6	90
Fillmore	58	69.9	18	21.7	7	8.4	83
Freeborn	141	85.5	17	10.3	7	4.2	165
Goodhue	223	75.6	47	15.9	25	8.5	295
Grant	23	65.7	9	25.7	3	8.6	35
Hennepin	6,404	78.1	550	6.7	1,242	15.2	8,196
Houston	54	70.1	16	20.8	7	9.1	77
Hubbard	93	75.6	20	16.3	10	8.1	123
Isanti	169	72.2	33	14.1	32	13.7	234
Itasca	243	70.6	53	15.4	48	14.0	344
Jackson	42	68.9	12	19.7	7	11.5	61
Kanabec	85	73.9	22	19.1	8	7.0	115
Kandiyohi	281	74.3	72	19.0	25	6.6	378
Kittson	7	43.8	5	31.3	4	25.0	16
Koochiching	35	61.4	12	21.1	10	17.5	57
Lac Qui Parle	11	68.8	4	25.0	1	6.3	16
Lake	37	68.5	13	24.1	4	7.4	54
Lake of the Woods	6	37.5	6	37.5	4	25.0	16
Le Sueur	131	72.4	27	14.9	23	12.7	181
Lincoln	17	56.7	8	26.7	5	16.7	30
Lyon	109	73.6	23	15.5	16	10.8	148
McLeod	146	79.8	21	11.5	16	8.7	183
Mahnomen	10	35.7	12	42.9	6	21.4	28
Marshall	27	67.5	11	27.5	2	5.0	40
Martin	111	69.8	33	20.8	15	9.4	159
Meeker	78	65.5	27	22.7	14	11.8	119
Mille Lacs	99	71.7	22	15.9	17	12.3	138
Morrison	113	68.5	36	21.8	16	9.7	165
Mower	151	78.2	33	17.1	9	4.7	193

**Morbidity Table 5: Seatbelt Use by Vehicle Occupant Killed or Injured in Minnesota  
By State and County, 2007**

	Seatbelt Use						Total Killed or Injured
	Used		Not Used		Unknown		
	Number	Percent	Number	Percent	Number	Percent	
<b>State of Minnesota</b>	<b>24,655</b>	<b>77.6</b>	<b>3,435</b>	<b>10.8</b>	<b>3,665</b>	<b>11.5</b>	<b>31,755</b>
Murray	23	62.2	6	16.2	8	21.6	37
Nicollet	121	74.7	22	13.6	19	11.7	162
Nobles	108	72.5	25	16.8	16	10.7	149
Norman	25	65.8	5	13.2	8	21.1	38
Olmsted	752	82.5	107	11.7	52	5.7	911
Otter Tail	200	79.7	33	13.1	18	7.2	251
Pennington	74	81.3	10	11.0	7	7.7	91
Pine	183	80.3	20	8.8	25	11.0	228
Pipestone	40	63.5	19	30.2	4	6.3	63
Polk	106	68.8	25	16.2	23	14.9	154
Pope	39	72.2	12	22.2	3	5.6	54
Ramsey	2,700	81.1	227	6.8	404	12.1	3,331
Red Lake	5	55.6	4	44.4	0	0.0	9
Redwood	74	66.1	26	23.2	12	10.7	112
Renville	57	60.0	29	30.5	9	9.5	95
Rice	224	74.2	49	16.2	29	9.6	302
Rock	41	64.1	19	29.7	4	6.3	64
Roseau	38	62.3	9	14.8	14	23.0	61
St. Louis	989	77.9	178	14.0	103	8.1	1,270
Scott	542	81.1	65	9.7	61	9.1	668
Sherburne	345	81.8	42	10.0	35	8.3	422
Sibley	32	57.1	17	30.4	7	12.5	56
Stearns	855	80.9	109	10.3	93	8.8	1,057
Steele	156	74.3	37	17.6	17	8.1	210
Stevens	11	31.4	11	31.4	13	37.1	35
Swift	23	56.1	12	29.3	6	14.6	41
Todd	60	57.1	28	26.7	17	16.2	105
Traverse	12	80.0	0	0.0	3	20.0	15
Wabasha	80	69.6	17	14.8	18	15.7	115
Wadena	40	65.6	14	23.0	7	11.5	61
Waseca	70	62.5	26	23.2	16	14.3	112
Washington	929	83.7	87	7.8	94	8.5	1,110
Watonwan	34	65.4	11	21.2	7	13.5	52
Wilkin	21	55.3	13	34.2	4	10.5	38
Winona	222	69.2	56	17.4	43	13.4	321
Wright	440	80.0	63	11.5	47	8.5	550
Yellow Medicine	30	68.2	10	22.7	4	9.1	44

Sources: Minnesota Department of Public Safety

**Note:** Occupants of vehicles normally equipped with seatbelts includes passenger vehicles, trucks, taxis, etc. This definition excludes motorcycles, buses, snowmobiles, etc.

**Morbidity Table 6: Number of Cases of Cancer Diagnosed by Major Site and Sex in Minnesota by State and County, 2003-2005\*\***

	Breast				Colon and Rectum			
	Men		Women		Men		Women	
	Number	Percent*	Number	Percent^	Number	Percent*	Number	Percent^
<b>State of Minnesota</b>	<b>84</b>	<b>0.2%</b>	<b>10,252</b>	<b>30.4%</b>	<b>3,842</b>	<b>10.2%</b>	<b>3,640</b>	<b>10.8%</b>
Aitkin	0	0.0%	46	31.3%	22	9.9%	17	11.6%
Anoka	4	0.2%	544	31.9%	183	9.9%	138	8.1%
Becker	1	0.3%	59	27.2%	39	12.9%	29	13.4%
Beltrami	2	0.7%	68	24.8%	35	11.6%	45	16.4%
Benton	1	0.4%	61	28.4%	20	7.8%	13	6.0%
Big Stone	0	0.0%	14	24.6%	11	18.6%	11	19.3%
Blue Earth	1	0.2%	101	28.5%	46	11.5%	53	15.0%
Brown	0	0.0%	64	25.8%	32	13.1%	35	14.1%
Carlton	0	0.0%	68	28.3%	42	12.9%	27	11.3%
Carver	0	0.0%	126	31.7%	35	9.0%	28	7.0%
Cass	0	0.0%	57	25.1%	25	8.3%	27	11.9%
Chippewa	0	0.0%	30	29.1%	20	15.6%	10	9.7%
Chisago	0	0.0%	91	29.2%	35	10.3%	34	10.9%
Clay	0	0.0%	102	30.6%	43	12.1%	56	16.8%
Clearwater	0	0.0%	18	38.3%	14	13.3%	4	8.5%
Cook	0	0.0%	8	21.6%	5	10.2%	4	10.8%
Cottonwood	0	0.0%	33	33.3%	19	14.0%	19	19.2%
Crow Wing	1	0.2%	133	27.3%	66	10.5%	45	9.2%
Dakota	4	0.2%	654	31.1%	212	9.6%	208	9.9%
Dodge	0	0.0%	30	23.6%	11	9.7%	17	13.4%
Douglas	1	0.2%	72	28.6%	43	10.6%	29	11.5%
Faribault	0	0.0%	37	27.2%	22	12.9%	19	14.0%
Fillmore	0	0.0%	65	35.3%	32	15.3%	18	9.8%
Freeborn	0	0.0%	77	31.4%	27	8.7%	30	12.2%
Goodhue	0	0.0%	114	31.8%	39	9.8%	52	14.5%
Grant	0	0.0%	15	30.6%	10	14.1%	8	16.3%
Hennepin	23	0.3%	2,300	31.3%	697	9.2%	693	9.4%
Houston	0	0.0%	46	33.3%	19	11.2%	10	7.2%
Hubbard	1	0.5%	55	32.2%	24	11.5%	18	10.5%
Isanti	1	0.4%	64	34.0%	19	8.0%	19	10.1%
Itasca	0	0.0%	118	33.2%	56	12.4%	48	13.5%
Jackson	0	0.0%	17	23.0%	16	16.3%	14	18.9%
Kanabec	0	0.0%	23	23.0%	13	8.6%	8	8.0%
Kandiyohi	1	0.3%	104	30.1%	28	8.9%	39	11.3%
Kittson	0	0.0%	19	44.2%	5	11.9%	4	9.3%
Koochiching	1	0.6%	30	23.8%	25	14.0%	18	14.3%
Lac Qui Parle	0	0.0%	26	32.9%	11	12.4%	14	17.7%
Lake	0	0.0%	21	23.3%	13	11.4%	14	15.6%
Lake of the Woods	0	0.0%	11	28.9%	9	13.8%	6	15.8%
Le Sueur	0	0.0%	56	30.4%	23	10.3%	17	9.2%
Lincoln	0	0.0%	14	24.1%	9	11.7%	9	15.5%
Lyon	0	0.0%	54	30.7%	16	8.3%	29	16.5%
McLeod	0	0.0%	77	33.3%	25	9.1%	25	10.8%
Mahnomen	0	0.0%	11	28.2%	12	25.5%	4	10.3%
Marshall	0	0.0%	27	35.1%	20	17.4%	13	16.9%
Martin	0	0.0%	48	24.2%	18	10.0%	25	12.6%
Meeker	0	0.0%	48	27.9%	18	9.7%	29	16.9%
Mille Lacs	0	0.0%	59	28.5%	17	7.0%	18	8.7%
Morrison	1	0.3%	71	30.2%	42	13.0%	16	6.8%
Mower	0	0.0%	83	27.9%	52	12.3%	26	8.8%

**Morbidity Table 6: Number of Cases of Cancer Diagnosed by Major Site and Sex in Minnesota by State and County, 2003-2005\*\***

	Breast				Colon and Rectum			
	Men		Women		Men		Women	
	Number	Percent*	Number	Percent^	Number	Percent*	Number	Percent^
<b>State of Minnesota</b>	<b>84</b>	<b>0.2%</b>	<b>10,252</b>	<b>30.4%</b>	<b>3,842</b>	<b>10.2%</b>	<b>3,640</b>	<b>10.8%</b>
Murray	0	0.0%	22	23.2%	11	11.5%	18	18.9%
Nicollet	1	0.5%	51	27.1%	26	13.3%	21	11.2%
Nobles	0	0.0%	43	25.3%	25	13.5%	33	19.4%
Norman	1	1.3%	23	38.3%	5	6.3%	1	1.7%
Olmsted	1	0.1%	275	31.3%	85	8.5%	66	7.5%
Otter Tail	2	0.4%	131	29.9%	70	12.6%	52	11.9%
Pennington	0	0.0%	30	28.6%	13	10.5%	13	12.4%
Pine	0	0.0%	67	29.9%	28	10.5%	26	11.6%
Pipestone	0	0.0%	39	34.2%	14	12.6%	25	21.9%
Polk	1	0.4%	70	27.6%	33	12.9%	53	20.9%
Pope	0	0.0%	22	22.4%	25	17.9%	9	9.2%
Ramsey	3	0.1%	1,010	29.8%	338	9.6%	358	10.6%
Red Lake	0	0.0%	9	26.5%	5	10.0%	1	2.9%
Redwood	0	0.0%	45	32.6%	14	8.6%	21	15.2%
Renville	1	0.6%	44	26.3%	25	15.2%	23	13.8%
Rice	2	0.5%	99	29.3%	48	10.8%	45	13.3%
Rock	0	0.0%	24	32.0%	11	11.7%	11	14.7%
Roseau	1	0.8%	22	29.7%	8	6.2%	11	14.9%
St Louis	6	0.3%	472	29.0%	187	10.7%	163	10.0%
Scott	2	0.4%	183	33.7%	53	10.2%	57	10.5%
Sherburne	1	0.2%	102	29.2%	35	8.0%	19	5.4%
Sibley	0	0.0%	27	24.8%	16	12.7%	20	18.3%
Stearns	3	0.3%	281	31.3%	101	9.8%	87	9.7%
Steele	1	0.4%	67	31.2%	17	6.3%	28	13.0%
Stevens	0	0.0%	21	28.0%	8	11.8%	8	10.7%
Swift	0	0.0%	33	29.5%	14	12.8%	20	17.9%
Todd	5	2.0%	51	29.7%	36	14.6%	26	15.1%
Traverse	1	2.0%	6	20.0%	5	10.0%	5	16.7%
Wabasha	0	0.0%	58	34.1%	22	12.7%	16	9.4%
Wadena	0	0.0%	29	23.6%	15	8.4%	26	21.1%
Waseca	1	0.8%	43	28.1%	8	6.0%	21	13.7%
Washington	5	0.4%	431	33.8%	133	9.6%	124	9.7%
Watonwan	0	0.0%	37	35.9%	8	8.2%	15	14.6%
Wilkin	0	0.0%	15	25.9%	15	21.7%	12	20.7%
Winona	1	0.3%	120	34.4%	45	13.1%	50	14.3%
Wright	2	0.3%	157	29.7%	49	7.5%	52	9.8%
Yellow Medicine	0	0.0%	24	27.9%	16	14.3%	12	14.0%

Source: Minnesota Department of Health, Minnesota Cancer Surveillance System

\*\*Includes number of cases diagnosed for the years 2003, 2004 and 2005.

\*Percent = # specific cancer cases diagnosed in males for county (or state) / total cancer cases diagnosed in males for county (or state)

^Percent = # specific cancer cases diagnosed in females for county (or state) / total cancer cases diagnosed in females for county (or state)

**ICD-O-3 Site Codes:**

Breast C50.0 - C50.9, excluding lymphomas (ICD-O-3 cell types M959\_ - M998\_)

Colon & Rectum C18.0 - C18.9, C19.9, C20.9, C26.0, excluding lymphomas (ICD-O-3 cell types M959\_ - M998\_)

**Morbidity Table 7: Number of Cases of Cancer Diagnosed by Major Site and Sex in Minnesota by State and County, 2003-2005\*\***

	Lung				Prostate			
	Men		Women		Men		Women	
	Number	Percent*	Number	Percent^	Number	Percent*	Number	Percent^
<b>State of Minnesota</b>	<b>4,721</b>	<b>12.6%</b>	<b>4,035</b>	<b>12.0%</b>	<b>12,174</b>	<b>32.4%</b>	<b>0</b>	<b>0.0%</b>
Aitkin	33	14.8%	25	17.0%	75	33.6%	0	0.0%
Anoka	219	11.8%	239	14.0%	602	32.5%	0	0.0%
Becker	35	11.6%	27	12.4%	91	30.0%	0	0.0%
Beltrami	43	14.2%	48	17.5%	105	34.7%	0	0.0%
Benton	29	11.2%	30	14.0%	96	37.2%	0	0.0%
Big Stone	11	18.6%	6	10.5%	15	25.4%	0	0.0%
Blue Earth	54	13.5%	31	8.8%	139	34.7%	0	0.0%
Brown	21	8.6%	27	10.9%	79	32.4%	0	0.0%
Carlton	38	11.7%	33	13.8%	96	29.5%	0	0.0%
Carver	41	10.5%	32	8.0%	133	34.0%	0	0.0%
Cass	43	14.3%	37	16.3%	105	34.9%	0	0.0%
Chippewa	18	14.1%	13	12.6%	38	29.7%	0	0.0%
Chisago	47	13.9%	46	14.7%	103	30.4%	0	0.0%
Clay	49	13.8%	32	9.6%	97	27.3%	0	0.0%
Clearwater	13	12.4%	4	8.5%	30	28.6%	0	0.0%
Cook	4	8.2%	5	13.5%	19	38.8%	0	0.0%
Cottonwood	14	10.3%	6	6.1%	54	39.7%	0	0.0%
Crow Wing	87	13.9%	73	15.0%	227	36.1%	0	0.0%
Dakota	262	11.8%	238	11.3%	687	31.0%	0	0.0%
Dodge	17	15.0%	13	10.2%	30	26.5%	0	0.0%
Douglas	51	12.5%	35	13.9%	134	32.9%	0	0.0%
Faribault	20	11.8%	16	11.8%	52	30.6%	0	0.0%
Fillmore	30	14.4%	13	7.1%	71	34.0%	0	0.0%
Freeborn	36	11.6%	21	8.6%	116	37.3%	0	0.0%
Goodhue	52	13.1%	27	7.5%	117	29.5%	0	0.0%
Grant	11	15.5%	6	12.2%	21	29.6%	0	0.0%
Hennepin	918	12.1%	905	12.3%	2,342	30.9%	0	0.0%
Houston	15	8.8%	18	13.0%	58	34.1%	0	0.0%
Hubbard	27	12.9%	30	17.5%	64	30.6%	0	0.0%
Isanti	38	16.0%	28	14.9%	78	32.8%	0	0.0%
Itasca	63	13.9%	37	10.4%	149	32.9%	0	0.0%
Jackson	13	13.3%	9	12.2%	27	27.6%	0	0.0%
Kanabec	26	17.2%	16	16.0%	41	27.2%	0	0.0%
Kandiyohi	41	13.1%	31	9.0%	103	32.8%	0	0.0%
Kittson	7	16.7%	4	9.3%	13	31.0%	0	0.0%
Koochiching	32	18.0%	22	17.5%	54	30.3%	0	0.0%
Lac Qui Parle	13	14.6%	1	1.3%	35	39.3%	0	0.0%
Lake	12	10.5%	12	13.3%	48	42.1%	0	0.0%
Lake of the Woods	6	9.2%	6	15.8%	21	32.3%	0	0.0%
Le Sueur	40	17.9%	27	14.7%	67	30.0%	0	0.0%
Lincoln	10	13.0%	3	5.2%	35	45.5%	0	0.0%
Lyon	20	10.4%	17	9.7%	63	32.8%	0	0.0%
McLeod	31	11.3%	14	6.1%	106	38.7%	0	0.0%
Mahnomen	9	19.1%	3	7.7%	10	21.3%	0	0.0%
Marshall	10	8.7%	5	6.5%	41	35.7%	0	0.0%
Martin	15	8.3%	19	9.6%	72	40.0%	0	0.0%
Meeker	25	13.5%	15	8.7%	59	31.9%	0	0.0%
Mille Lacs	39	16.1%	33	15.9%	85	35.1%	0	0.0%
Morrison	46	14.3%	35	14.9%	110	34.2%	0	0.0%
Mower	52	12.3%	45	15.2%	150	35.5%	0	0.0%

**Morbidity Table 7: Number of Cases of Cancer Diagnosed by Major Site and Sex in Minnesota by State and County, 2003-2005\*\***

	Lung				Prostate			
	Men		Women		Men		Women	
	Number	Percent*	Number	Percent^	Number	Percent*	Number	Percent^
<b>State of Minnesota</b>	<b>4,721</b>	<b>12.6%</b>	<b>4,035</b>	<b>12.0%</b>	<b>12,174</b>	<b>32.4%</b>	<b>0</b>	<b>0.0%</b>
Murray	15	15.6%	10	10.5%	25	26.0%	0	0.0%
Nicollet	20	10.3%	26	13.8%	63	32.3%	0	0.0%
Nobles	21	11.4%	18	10.6%	70	37.8%	0	0.0%
Norman	12	15.2%	8	13.3%	29	36.7%	0	0.0%
Olmsted	130	12.9%	99	11.3%	268	26.7%	0	0.0%
Otter Tail	59	10.6%	50	11.4%	202	36.3%	0	0.0%
Pennington	18	14.5%	9	8.6%	40	32.3%	0	0.0%
Pine	44	16.5%	33	14.7%	88	33.1%	0	0.0%
Pipestone	12	10.8%	10	8.8%	37	33.3%	0	0.0%
Polk	31	12.2%	27	10.6%	79	31.0%	0	0.0%
Pope	17	12.1%	15	15.3%	45	32.1%	0	0.0%
Ramsey	461	13.1%	415	12.3%	1,195	33.9%	0	0.0%
Red Lake	5	10.0%	7	20.6%	19	38.0%	0	0.0%
Redwood	25	15.3%	10	7.2%	67	41.1%	0	0.0%
Renville	15	9.1%	20	12.0%	53	32.1%	0	0.0%
Rice	63	14.2%	31	9.2%	120	27.1%	0	0.0%
Rock	10	10.6%	3	4.0%	29	30.9%	0	0.0%
Roseau	12	9.2%	7	9.5%	50	38.5%	0	0.0%
St. Louis	246	14.1%	224	13.8%	533	30.5%	0	0.0%
Scott	57	10.9%	60	11.0%	146	28.0%	0	0.0%
Sherburne	50	11.4%	44	12.6%	164	37.5%	0	0.0%
Sibley	16	12.7%	14	12.8%	37	29.4%	0	0.0%
Stearns	132	12.9%	84	9.4%	381	37.1%	0	0.0%
Steele	28	10.3%	14	6.5%	98	36.0%	0	0.0%
Stevens	5	7.4%	5	6.7%	18	26.5%	0	0.0%
Swift	14	12.8%	10	8.9%	43	39.4%	0	0.0%
Todd	37	15.0%	19	11.0%	89	36.2%	0	0.0%
Traverse	3	6.0%	5	16.7%	19	38.0%	0	0.0%
Wabasha	34	19.7%	17	10.0%	41	23.7%	0	0.0%
Wadena	23	12.8%	8	6.5%	55	30.7%	0	0.0%
Waseca	19	14.3%	16	10.5%	40	30.1%	0	0.0%
Washington	133	9.6%	148	11.6%	443	31.9%	0	0.0%
Watonwan	10	10.2%	9	8.7%	34	34.7%	0	0.0%
Wilkin	6	8.7%	9	15.5%	14	20.3%	0	0.0%
Winona	52	15.2%	48	13.8%	102	29.7%	0	0.0%
Wright	89	13.6%	79	15.0%	229	35.0%	0	0.0%
Yellow Medicine	11	9.8%	6	7.0%	45	40.2%	0	0.0%

Source: Minnesota Department of Health, Minnesota Cancer Surveillance System

\*\*Includes number of cases diagnosed for the years 2003, 2004 and 2005.

\*Percent = # specific cancer cases diagnosed in males for county (or state) / total cancer cases diagnosed in males for county (or state)

^Percent = # specific cancer cases diagnosed in females for county (or state) / total cancer cases diagnosed in females for county (or state)

**ICD-O-3 Site Codes:**

Lung & Bronchus C34.0 - C34.9, excluding lymphomas (ICD-O-3 cell types M959\_ - M998\_)

Prostate C61.9, excluding lymphomas (ICD-O-3 cell types M959\_ - M998\_)

**Morbidity Table 8: Number of Cases of Cancer Diagnosed by Major Site and Sex in Minnesota by State and County, 2003-2005\*\***

	Other				Total			
	Men		Women		Men		Women	
	Number	Percent*	Number	Percent^	Number	Percent*	Number	Percent^
State of Minnesota	16,795	44.6%	15,804	46.9%	37,616	100%	33,731	100%
Aitkin	93	41.7%	59	40.1%	223	100%	147	100%
Anoka	845	45.6%	784	46.0%	1,853	100%	1,705	100%
Becker	137	45.2%	102	47.0%	303	100%	217	100%
Beltrami	118	38.9%	113	41.2%	303	100%	274	100%
Benton	112	43.4%	111	51.6%	258	100%	215	100%
Big Stone	22	37.3%	26	45.6%	59	100%	57	100%
Blue Earth	161	40.1%	169	47.7%	401	100%	354	100%
Brown	112	45.9%	122	49.2%	244	100%	248	100%
Carlton	149	45.8%	112	46.7%	325	100%	240	100%
Carver	182	46.5%	212	53.3%	391	100%	398	100%
Cass	128	42.5%	106	46.7%	301	100%	227	100%
Chippewa	52	40.6%	50	48.5%	128	100%	103	100%
Chisago	154	45.4%	141	45.2%	339	100%	312	100%
Clay	166	46.8%	143	42.9%	355	100%	333	100%
Clearwater	48	45.7%	21	44.7%	105	100%	47	100%
Cook	21	42.9%	20	54.1%	49	100%	37	100%
Cottonwood	49	36.0%	41	41.4%	136	100%	99	100%
Crow Wing	247	39.3%	237	48.6%	628	100%	488	100%
Dakota	1,054	47.5%	1,002	47.7%	2,219	100%	2,102	100%
Dodge	55	48.7%	67	52.8%	113	100%	127	100%
Douglas	178	43.7%	116	46.0%	407	100%	252	100%
Faribault	76	44.7%	64	47.1%	170	100%	136	100%
Fillmore	76	36.4%	88	47.8%	209	100%	184	100%
Freeborn	132	42.4%	117	47.8%	311	100%	245	100%
Goodhue	188	47.5%	165	46.1%	396	100%	358	100%
Grant	29	40.8%	20	40.8%	71	100%	49	100%
Hennepin	3,592	47.4%	3,440	46.9%	7,572	100%	7,338	100%
Houston	78	45.9%	64	46.4%	170	100%	138	100%
Hubbard	93	44.5%	68	39.8%	209	100%	171	100%
Isanti	102	42.9%	77	41.0%	238	100%	188	100%
Itasca	185	40.8%	152	42.8%	453	100%	355	100%
Jackson	42	42.9%	34	45.9%	98	100%	74	100%
Kanabec	71	47.0%	53	53.0%	151	100%	100	100%
Kandiyohi	141	44.9%	171	49.6%	314	100%	345	100%
Kittson	17	40.5%	16	37.2%	42	100%	43	100%
Koochiching	66	37.1%	56	44.4%	178	100%	126	100%
Lac Qui Parle	30	33.7%	38	48.1%	89	100%	79	100%
Lake	41	36.0%	43	47.8%	114	100%	90	100%
Lake of the Woods	29	44.6%	15	39.5%	65	100%	38	100%
Le Sueur	93	41.7%	84	45.7%	223	100%	184	100%
Lincoln	23	29.9%	32	55.2%	77	100%	58	100%
Lyon	93	48.4%	76	43.2%	192	100%	176	100%
McLeod	112	40.9%	115	49.8%	274	100%	231	100%
Mahnomen	16	34.0%	21	53.8%	47	100%	39	100%
Marshall	44	38.3%	32	41.6%	115	100%	77	100%
Martin	75	41.7%	106	53.5%	180	100%	198	100%
Meeker	83	44.9%	80	46.5%	185	100%	172	100%
Mille Lacs	101	41.7%	97	46.9%	242	100%	207	100%
Morrison	123	38.2%	113	48.1%	322	100%	235	100%
Mower	169	40.0%	143	48.1%	423	100%	297	100%

**Morbidity Table 8: Number of Cases of Cancer Diagnosed by Major Site and Sex in Minnesota by State and County, 2003-2005\*\***

	Other				Total			
	Men		Women		Men		Women	
	Number	Percent*	Number	Percent^	Number	Percent*	Number	Percent^
State of Minnesota	16,795	44.6%	15,804	46.9%	37,616	100%	33,731	100%
Murray	45	46.9%	45	47.4%	96	100%	95	100%
Nicollet	85	43.6%	90	47.9%	195	100%	188	100%
Nobles	69	37.3%	76	44.7%	185	100%	170	100%
Norman	32	40.5%	28	46.7%	79	100%	60	100%
Olmsted	520	51.8%	439	49.9%	1,004	100%	879	100%
Otter Tail	224	40.2%	205	46.8%	557	100%	438	100%
Pennington	53	42.7%	53	50.5%	124	100%	105	100%
Pine	106	39.8%	98	43.8%	266	100%	224	100%
Pipestone	48	43.2%	40	35.1%	111	100%	114	100%
Polk	111	43.5%	104	40.9%	255	100%	254	100%
Pope	53	37.9%	52	53.1%	140	100%	98	100%
Ramsey	1,527	43.3%	1,602	47.3%	3,524	100%	3,385	100%
Red Lake	21	42.0%	17	50.0%	50	100%	34	100%
Redwood	57	35.0%	62	44.9%	163	100%	138	100%
Renville	71	43.0%	80	47.9%	165	100%	167	100%
Rice	210	47.4%	163	48.2%	443	100%	338	100%
Rock	44	46.8%	37	49.3%	94	100%	75	100%
Roseau	59	45.4%	34	45.9%	130	100%	74	100%
St. Louis	776	44.4%	766	47.1%	1,748	100%	1,625	100%
Scott	264	50.6%	243	44.8%	522	100%	543	100%
Sherburne	187	42.8%	184	52.7%	437	100%	349	100%
Sibley	57	45.2%	48	44.0%	126	100%	109	100%
Stearns	410	39.9%	445	49.6%	1,027	100%	897	100%
Steele	128	47.1%	106	49.3%	272	100%	215	100%
Stevens	37	54.4%	41	54.7%	68	100%	75	100%
Swift	38	34.9%	49	43.8%	109	100%	112	100%
Todd	79	32.1%	76	44.2%	246	100%	172	100%
Traverse	22	44.0%	14	46.7%	50	100%	30	100%
Wabasha	76	43.9%	79	46.5%	173	100%	170	100%
Wadena	86	48.0%	60	48.8%	179	100%	123	100%
Waseca	65	48.9%	73	47.7%	133	100%	153	100%
Washington	675	48.6%	574	44.9%	1,389	100%	1,277	100%
Watonwan	46	46.9%	42	40.8%	98	100%	103	100%
Wilkin	34	49.3%	22	37.9%	69	100%	58	100%
Winona	143	41.7%	131	37.5%	343	100%	349	100%
Wright	285	43.6%	240	45.5%	654	100%	528	100%
Yellow Medicine	40	35.7%	44	51.2%	112	100%	86	100%

Source: Minnesota Department of Health, Minnesota Cancer Surveillance System

\*\*Includes number of cases diagnosed for the years 2003, 2004 and 2005.

\*Percent = # specific cancer cases diagnosed in males for county (or state) / total cancer cases diagnosed in males for county (or state)

^Percent = # specific cancer cases diagnosed in females for county (or state) / total cancer cases diagnosed in females for county (or state)

**ICD-O-3 Site Codes:**

Other Cell types M959\_ - M998\_, and all other Site Codes

Total Includes all microscopically-confirmed or Death-Certificate-Only cancers

(Counts include invasive cancers only, with the exception of cancers of urinary bladder, which include in situ cancers.)

**Morbidity Table 9: Minnesota Nonfatal Hospitalized Traumatic Brain Injury  
Number and Rate per 100,000 population by State and County, 2005-2007**

	2005		2006		2007	
	Number	Rate	Number	Rate	Number	Rate
<b>State of Minnesota</b>	<b>4,817</b>	<b>92.0</b>	<b>4,759</b>	<b>90.4</b>	<b>4,623</b>	<b>87.7</b>
Aitkin	17	*	17	*	15	*
Anoka	296	104.3	269	92.5	245	81.7
Becker	22	66.0	23	64.7	11	*
Beltrami	17	*	23	54.1	41	92.6
Benton	42	113.8	28	70.0	39	106.0
Big Stone	1	*	1	*	1	*
Blue Earth	63	111.5	50	80.7	73	117.6
Brown	18	*	29	98.5	22	79.6
Carlton	29	83.2	36	98.9	32	86.3
Carver	51	68.8	61	81.7	57	69.1
Cass	22	72.8	28	96.9	22	70.7
Chippewa	11	*	11	*	5	*
Chisago	65	135.6	56	116.8	63	129.0
Clay	2	*	3	*	4	*
Clearwater	5	*	4	*	5	*
Cook	4	*	3	*	4	*
Cottonwood	11	*	3	*	4	*
Crow Wing	51	80.0	65	96.6	58	90.7
Dakota	319	91.2	299	84.3	313	88.2
Dodge	31	159.5	30	155.7	25	127.9
Douglas	30	72.2	29	63.4	31	75.6
Faribault	17	*	16	*	18	*
Fillmore	33	160.2	33	144.0	29	131.6
Freeborn	34	95.5	32	89.8	33	95.0
Goodhue	75	152.6	62	127.5	64	128.0
Grant	5	*	6	*	1	*
Hennepin	1046	93.4	1011	90.7	940	84.3
Houston	15	*	13	*	13	*
Hubbard	5	*	2	*	7	*
Isanti	43	110.9	37	107.2	41	108.2
Itasca	36	75.6	32	77.7	40	82.1
Jackson	0	*	4	*	5	*
Kanabec	24	147.7	19	*	23	137.5
Kandiyohi	33	73.7	30	69.2	19	*
Kittson	0	*	3	*	0	*
Koochiching	7	*	8	*	14	*
Lac Qui Parle	3	*	4	*	6	*
Lake	7	*	8	*	5	*
Lake of the Woods	2	*	3	*	1	*
Le Sueur	35	128.2	41	141.7	33	116.2
Lincoln	1	*	0	*	4	*
Lyon	10	*	14	*	8	*
McLeod	36	95.0	36	93.3	28	72.3
Mahnomen	1	*	2	*	3	*
Marshall	3	*	2	*	2	*
Martin	22	82.4	20	84.9	17	*
Meeker	21	90.4	10	*	19	*
Mille Lacs	37	143.2	50	182.3	29	110.5
Morrison	38	110.0	37	102.8	30	85.8
Mower	57	131.2	77	189.7	49	108.0

**Morbidity Table 9: Minnesota Nonfatal Hospitalized Traumatic Brain Injury  
Number and Rate per 100,000 population by State and County, 2005-2007**

	2005		2006		2007	
	Number	Rate	Number	Rate	Number	Rate
<b>State of Minnesota</b>	<b>4,817</b>	<b>92.0</b>	<b>4,759</b>	<b>90.4</b>	<b>4,623</b>	<b>87.7</b>
Murray	4	*	4	*	3	*
Nicollet	38	129.2	27	84.6	17	*
Nobles	8	*	7	*	6	*
Norman	2	*	1	*	1	*
Olmsted	195	147.1	194	141.6	186	137.0
Otter Tail	42	64.5	35	60.3	30	41.6
Pennington	1	*	3	*	4	*
Pine	41	139.2	32	110.8	28	95.5
Pipestone	0	*	4	*	4	*
Polk	4	*	8	*	7	*
Pope	10	*	14	*	20	157.6
Ramsey	599	117.9	593	118.0	567	111.8
Red Lake	2	*	1	*	0	*
Redwood	17	*	13	*	13	*
Renville	15	*	17	*	23	117.1
Rice	71	112.5	64	101.7	63	97.2
Rock	2	*	1	*	1	*
Roseau	3	*	2	*	3	*
St. Louis	259	122.8	217	100.6	181	85.0
Scott	73	71.3	74	73.6	83	78.0
Sherburne	64	89.3	81	96.4	77	100.4
Sibley	9	*	13	*	11	*
Stearns	143	99.9	139	94.6	129	89.5
Steele	50	138.2	32	82.6	50	136.2
Stevens	11	*	16	*	14	*
Swift	2	*	8	*	8	*
Todd	15	*	18	*	18	*
Traverse	3	*	1	*	2	*
Wabasha	32	137.8	42	186.3	24	101.5
Wadena	11	*	6	*	7	*
Waseca	19	*	26	135.2	24	122.2
Washington	157	79.8	188	91.9	166	81.4
Watonwan	8	*	12	*	10	*
Wilkin	2	*	1	*	2	*
Winona	35	65.4	43	74.9	42	80.3
Wright	104	95.9	107	99.2	111	105.3
Yellow Medicine	6	*	5	*	5	*

Source: Minnesota Department of Health, Injury and Violence Prevention Unit

**Traumatic Brain Injuries (TBI):** Numbers are traumatic brain injury events, (vs. people or hospitalizations). Events are nonfatal at time of discharge from the final acute care hospital. Only Minnesota residents are included. Total Minnesota values include events with unknown counties. Minnesota residents who were injured and/or hospitalized out of state and reported to the MDH are also included. All rates are per 100,000 people and were age adjusted to the US 2000 standard population.

**Go to Page D-21 for Traumatic Brain Injuries Case Report Definitions**

\*Rate not calculated under 20 events

**Morbidity Table 10: Minnesota Nonfatal Hospitalized Spinal Cord Injury  
Number and Annualized Rate per 100,000 population by State and County, 2005-2007**

	2005	2006	2007	Annualized Rate 2005-2007
	Number	Number	Number	
<b>State of Minnesota</b>	<b>242</b>	<b>266</b>	<b>218</b>	<b>4.6</b>
Aitkin	1	0	2	*
Anoka	15	13	12	4.4
Becker	0	2	0	*
Beltrami	0	2	1	*
Benton	2	4	1	*
Big Stone	0	0	1	*
Blue Earth	3	2	3	*
Brown	0	0	1	*
Carlton	1	2	0	*
Carver	5	5	6	*
Cass	0	1	2	*
Chippewa	0	1	0	*
Chisago	6	3	5	*
Clay	0	0	0	*
Clearwater	0	0	0	*
Cook	1	2	0	*
Cottonwood	1	0	0	*
Crow Wing	5	5	4	*
Dakota	8	13	8	2.8
Dodge	3	0	2	*
Douglas	2	2	2	*
Faribault	2	2	1	*
Fillmore	1	0	3	*
Freeborn	2	2	2	*
Goodhue	3	2	1	*
Grant	2	0	0	*
Hennepin	63	75	44	5.2
Houston	1	3	1	*
Hubbard	0	1	1	*
Isanti	1	2	5	*
Itasca	3	0	1	*
Jackson	0	0	0	*
Kanabec	1	0	1	*
Kandiyohi	1	4	2	*
Kittson	0	0	0	*
Koochiching	2	0	0	*
Lac Qui Parle	0	0	0	*
Lake	0	0	0	*
Lake of the Woods	0	0	0	*
Le Sueur	1	5	2	*
Lincoln	0	0	0	*
Lyon	0	5	0	*
McLeod	1	3	1	*
Mahnomen	0	0	1	*
Marshall	0	1	0	*
Martin	1	0	1	*
Meeker	2	0	2	*
Mille Lacs	1	2	1	*
Morrison	2	1	1	*
Mower	2	0	1	*

**Morbidity Table 10: Minnesota Nonfatal Hospitalized Spinal Cord Injury  
Number and Annualized Rate per 100,000 population by State and County, 2005-2007**

	2005	2006	2007	Annualized Rate 2005-2007
	Number	Number	Number	
<b>State of Minnesota</b>	<b>242</b>	<b>266</b>	<b>218</b>	<b>4.6</b>
Murray	0	0	0	*
Nicollet	2	1	0	*
Nobles	0	0	0	*
Norman	0	0	0	*
Olmsted	9	3	8	5.1
Otter Tail	1	1	0	*
Pennington	0	1	0	*
Pine	5	2	1	*
Pipestone	0	0	0	*
Polk	1	1	0	*
Pope	1	1	3	*
Ramsey	13	27	18	3.8
Red Lake	0	0	0	*
Redwood	1	1	0	*
Renville	2	2	2	*
Rice	2	1	3	*
Rock	0	0	0	*
Roseau	0	0	0	*
St. Louis	20	9	6	5.4
Scott	2	4	4	*
Sherburne	2	4	4	*
Sibley	2	0	0	*
Stearns	9	10	6	5.9
Steele	1	2	1	*
Stevens	2	1	0	*
Swift	2	0	0	*
Todd	0	1	1	*
Traverse	0	0	0	*
Wabasha	1	2	2	*
Wadena	0	2	2	*
Waseca	0	1	0	*
Washington	11	13	6	4.9
Watonwan	0	0	1	*
Wilkin	0	0	0	*
Winona	1	0	5	*
Wright	5	7	11	6.7
Yellow Medicine	1	1	2	*

Source: Minnesota Department of Health, Injury and Violence Prevention Unit

**Spinal Cord Injuries (SCI):** Numbers are spinal cord injury events, (vs. people or hospitalizations). Events are nonfatal at time of discharge from the final acute care hospital. Only Minnesota residents are included. Total Minnesota values include events with unknown counties. Minnesota residents who were injured and/or hospitalized out of state and reported to the MDH are also included. All rates are per 100,000 people and were age adjusted to the US 2000 standard population.

**Go to Page D-21 for Spinal Cord Injuries Case Report Definitions**

\*Rate not calculated under 20 events

## Morbidity Tables 9 and 10: TBI and SCI Case Report Definitions

### Traumatic Brain Injury (TBI)

Cases of traumatic brain injury must be reported to the Minnesota Department of Health if the patient receives one of the following ICD-9 N-codes (including respective subcoded four or five digit rubrics), either as a principal or secondary diagnosis:

310.2 - postconcussion syndrome  
348.1 - (when coded with 994.1 or 994.7) - anoxic brain damage  
800.0-800.99 - fracture of vault of skull  
801.00-801.99 - fracture of base of skull  
803.00-803.99 - other and unqualified skull fractures  
804.00-804.99 - multiple fractures involving skull or face with other bones  
850.0-850.9 - concussion  
851.00-851.99 - cerebral laceration and contusion  
852.00-852.59 - subarachnoid, subdural, and extradural hemorrhage, following injury  
853.00-853.19 - other and unspecified intracranial hemorrhage following injury  
854.00-854.19 - intracranial injury of other and unspecified nature  
905.0\* - late effect of fracture of skull and face bones  
907.0\* - late effect of intracranial injury without mention of skull fracture  
950.0-950.9 - injury to optic nerve and pathways  
995.55 - shaken infant syndrome

AND

the patient: was admitted as an inpatient to an acute care hospital.

Out-of-state hospitals are report cases who are Minnesota residents or who were injured in Minnesota.

Excludes patients: seen only in the emergency room and then discharged; or admitted only as outpatients for observation, and then discharged; or admitted directly to long-term care or rehabilitation facilities.

TBI/SCI Registry and Universal Bill-1992 version (UB-92) data are linked to provide more complete counts. Late effects of TBI or SCI found only in the UB-92 data were not included as, unlike late effects in the Registry, they have limited information with which to unduplicate them from previously treated injuries and there are many of them.

### Spinal Cord Injuries (SCI)

Cases of spinal cord injury must be reported to the Minnesota Department of Health if the patient receives on of the following ICD-9 N-codes (including respective subcoded four or five digit rubrics), either as a principal or secondary diagnosis:

806.00-806.9 - fracture of vertebral column with spinal cord injury  
907.2\* - late effect of spinal cord injury  
952.00-952.9 - spinal cord injury without evidence of spinal bone injury

AND

the patient: was admitted as an inpatient to an acute care hospital.

Out-of-state hospitals are report cases who are Minnesota residents or who were injured in Minnesota.

Excludes patients: seen only in the emergency room and then discharged; or admitted only as outpatients for observation, and then discharged; or admitted directly to long-term care or rehabilitation facilities.

TBI/SCI Registry and Universal Bill-1992 version (UB-92) data are linked to provide more complete counts. Late effects of TBI or SCI found only in the UB-92 data were not included as, unlike late effects in the Registry, they have limited information with which to unduplicate them from previously treated injuries and there are many of them.

**Morbidity Table 11: Minnesota Behavioral Risk Factors^ of Adults -  
County Synthetic Estimates and State Estimates, 2007**

	Estimated Percent of:				
	Overweight (Not Obese)*	Obese	Current Smokers	Acute Drinking	Chronic Drinking
<b>State of Minnesota</b>	<b>35.8</b>	<b>25.9</b>	<b>16.5</b>	<b>14.3</b>	<b>3.8</b>
Aitkin	37.1	26.0	14.9	11.9	3.5
Anoka	35.8	26.2	17.1	15.1	3.9
Becker	36.2	25.9	15.9	13.3	3.6
Beltrami	34.5	25.0	16.5	14.5	3.8
Benton	35.1	25.3	17.0	15.4	3.7
Big Stone	36.8	25.6	14.5	11.4	3.5
Blue Earth	33.8	24.4	17.0	15.4	3.9
Brown	36.1	25.6	15.6	13.0	3.7
Carlton	36.0	25.9	16.2	14.0	3.7
Carver	35.6	25.9	17.1	15.3	3.9
Cass	36.4	26.1	15.6	13.0	3.6
Chippewa	36.5	25.8	15.3	12.5	3.6
Chisago	35.7	25.9	17.0	15.2	3.8
Clay	34.2	24.5	16.6	14.4	3.9
Clearwater	36.4	25.9	15.6	13.0	3.6
Cook	37.0	26.6	15.7	12.8	3.6
Cottonwood	36.7	25.7	15.0	12.2	3.5
Crow Wing	36.1	25.7	15.8	13.4	3.5
Dakota	35.6	26.1	17.0	14.9	3.9
Dodge	35.9	25.8	16.5	14.4	3.7
Douglas	36.0	25.5	15.7	13.5	3.5
Faribault	36.8	25.8	15.0	12.1	3.5
Fillmore	36.5	25.8	15.5	12.9	3.6
Freeborn	36.6	25.9	15.4	12.7	3.6
Goodhue	36.2	25.9	16.0	13.5	3.7
Grant	36.8	25.5	14.8	12.0	3.4
Hennepin	35.8	26.0	16.6	14.5	3.8
Houston	36.3	25.9	15.7	13.1	3.7
Hubbard	36.6	26.0	15.4	12.6	3.6
Isanti	35.6	25.8	16.9	15.0	3.7
Itasca	36.3	26.0	15.6	12.9	3.7
Jackson	36.7	25.7	15.3	12.6	3.6
Kanabec	36.2	26.0	16.2	13.8	3.6
Kandiyohi	36.0	25.7	15.9	13.4	3.7
Kittson	37.3	26.2	14.5	11.4	3.6
Koochiching	36.7	26.2	15.3	12.3	3.6
Lac Qui Parle	37.1	25.8	14.8	11.8	3.5
Lake	36.8	26.0	15.3	12.5	3.6
Lake of the Woods	37.2	26.5	15.2	12.1	3.5
Le Sueur	36.0	25.9	16.2	14.0	3.7
Lincoln	37.0	25.6	14.6	11.7	3.4
Lyon	35.0	25.1	16.2	14.0	3.8
McLeod	35.9	25.8	16.2	14.0	3.7
Mahnomen	36.5	26.1	15.5	12.8	3.7
Marshall	36.8	26.0	15.3	12.5	3.6
Martin	36.7	25.9	15.0	12.1	3.5

**Morbidity Table 11: Minnesota Behavioral Risk Factors<sup>^</sup> of Adults -  
County Synthetic Estimates and State Estimates, 2007**

	Estimated Percent of:				
	Overweight (Not Obese)*	Obese	Current Smokers	Acute Drinking	Chronic Drinking
<b>State of Minnesota</b>	<b>35.8</b>	<b>25.9</b>	<b>16.5</b>	<b>14.3</b>	<b>3.8</b>
Meeker	36.3	25.9	15.9	13.5	3.6
Mille Lacs	35.9	25.6	16.1	13.9	3.6
Morrison	36.1	25.8	16.1	13.8	3.7
Mower	36.3	25.6	15.4	13.0	3.6
Murray	36.8	25.9	15.0	12.1	3.6
Nicollet	34.6	25.1	16.7	14.6	3.9
Nobles	36.5	25.9	15.6	13.1	3.6
Norman	36.9	26.0	15.0	12.1	3.6
Olmsted	35.8	25.8	16.6	14.4	3.7
Otter Tail	36.5	25.8	15.4	12.7	3.6
Pennington	35.6	25.6	16.1	13.8	3.7
Pine	36.3	26.0	16.3	14.1	3.6
Pipestone	36.4	25.4	15.0	12.1	3.5
Polk	35.8	25.5	15.8	13.3	3.7
Pope	36.6	25.7	15.2	12.4	3.5
Ramsey	35.5	25.6	16.3	14.0	3.8
Red Lake	36.3	25.8	15.8	13.3	3.6
Redwood	36.6	25.9	15.3	12.6	3.6
Renville	36.7	25.9	15.4	12.7	3.6
Rice	34.6	25.1	16.8	14.9	3.9
Rock	36.3	25.6	15.3	12.7	3.6
Roseau	36.4	26.2	16.4	14.1	3.7
St. Louis	35.5	25.5	16.0	13.5	3.8
Scott	35.4	25.9	17.4	15.9	3.8
Sherburne	35.1	25.6	17.4	16.0	3.8
Sibley	36.3	25.9	15.9	13.5	3.7
Stearns	34.6	25.0	16.8	14.9	3.9
Steele	35.9	25.8	16.3	14.0	3.7
Stevens	34.0	24.1	16.0	13.6	3.9
Swift	37.3	26.4	16.0	14.3	3.6
Todd	36.2	25.9	15.9	13.3	3.7
Traverse	37.1	25.1	14.1	11.2	3.4
Wabasha	36.3	26.0	15.9	13.3	3.7
Wadena	36.3	25.5	15.2	12.6	3.5
Waseca	36.3	26.1	16.4	14.4	3.7
Washington	35.7	26.2	16.9	14.7	3.9
Watsonwan	36.5	25.8	15.2	12.4	3.6
Wilkin	36.4	25.9	15.9	13.1	3.7
Winona	34.0	24.5	16.5	14.3	3.9
Wright	35.4	25.8	17.1	15.4	3.8
Yellow Medicine	36.5	25.6	15.1	12.3	3.6

Source: Minnesota Department of Health, Behavioral Risk Factor Surveillance System

<sup>^</sup>See page D-26 for definitions

\*Note: In previous County Health Tables, estimated percent of overweight included obesity.

**Synthetic Estimates:** County level estimated percentages for behavioral risk factors represent the percent of adults considered to be at risk for those behaviors in that county. These estimated percentages were derived through a synthetic estimation method, which adjusts statewide BRFSS percentages by the age and gender distributions of adults in each county.

**Morbidity Table 12: Minnesota Behavioral Risk Factors^ of Adults -  
County Synthetic Estimates and State Estimates, 2007**

	Estimated Percent of:			
	Health Status (fair or poor)*	Reporting Limitations**	No Exercise	Hypertension
<b>State of Minnesota</b>	<b>11.0</b>	<b>18.8</b>	<b>16.7</b>	<b>21.5</b>
Aitkin	13.5	23.0	18.5	28.1
Anoka	10.2	17.6	15.8	19.6
Becker	12.0	20.5	17.5	24.2
Beltrami	10.8	18.1	17.2	20.6
Benton	10.3	17.5	16.4	19.2
Big Stone	14.0	23.6	19.1	29.0
Blue Earth	10.4	16.8	17.3	18.6
Brown	12.4	20.9	17.9	24.9
Carlton	11.6	19.6	17.2	22.9
Carver	10.1	17.2	15.7	18.9
Cass	12.3	21.0	17.6	25.1
Chippewa	12.9	21.9	18.2	26.3
Chisago	10.4	17.8	16.0	19.8
Clay	10.8	17.6	17.5	20.0
Clearwater	12.4	21.1	17.8	25.2
Cook	12.3	21.2	17.4	25.5
Cottonwood	13.3	22.5	18.5	27.2
Crow Wing	12.0	20.5	17.6	24.1
Dakota	10.2	17.6	15.8	19.7
Dodge	11.0	18.7	16.6	21.4
Douglas	12.2	20.7	17.8	24.3
Faribault	13.4	22.6	18.5	27.5
Fillmore	12.6	21.3	17.9	25.4
Freeborn	12.7	21.6	17.9	25.8
Goodhue	11.8	20.1	17.3	23.6
Grant	13.6	22.8	18.7	27.7
Hennepin	10.8	18.5	16.4	21.0
Houston	12.2	20.7	17.5	24.5
Hubbard	12.7	21.6	18.0	26.0
Isanti	10.4	17.9	16.3	20.0
Itasca	12.3	21.0	17.7	25.1
Jackson	12.9	21.8	18.1	26.1
Kanabec	11.5	19.7	17.0	22.9
Kandiyohi	11.9	20.2	17.4	23.7
Kittson	14.0	23.8	18.7	29.3
Koochiching	12.9	22.0	18.0	26.5
Lac Qui Parle	13.7	23.1	18.7	28.3
Lake	12.8	21.8	17.9	26.2
Lake of the Woods	13.1	22.3	18.0	27.1
Le Sueur	11.5	19.5	17.0	22.6
Lincoln	13.9	23.4	18.9	28.6
Lyon	11.5	19.2	17.6	22.2
McLeod	11.5	19.6	17.0	22.7
Mahnomen	12.5	21.3	17.8	25.5
Marshall	12.9	21.9	18.0	26.4
Martin	13.3	22.6	18.4	27.4

**Morbidity Table 12: Minnesota Behavioral Risk Factors^ of Adults -  
County Synthetic Estimates and State Estimates, 2007**

	Estimated Percent of:			
	Health Status (fair or poor)*	Reporting Limitations**	No Exercise	Hypertension
<b>State of Minnesota</b>	<b>11.0</b>	<b>18.8</b>	<b>16.7</b>	<b>21.5</b>
Meeker	12.0	20.5	17.4	24.1
Mille Lacs	11.6	19.8	17.3	23.0
Morrison	11.8	20.0	17.3	23.3
Mower	12.6	21.4	18.0	25.4
Murray	13.3	22.6	18.4	27.5
Nicollet	10.8	17.8	17.1	20.3
Nobles	12.5	21.1	17.7	25.0
Norman	13.3	22.4	18.3	27.2
Olmsted	10.9	18.6	16.5	21.2
Otter Tail	12.7	21.5	18.0	25.9
Pennington	11.6	19.9	17.4	23.1
Pine	11.6	19.8	17.1	22.9
Pipestone	13.3	22.3	18.6	27.0
Polk	12.1	20.4	17.8	24.1
Pope	13.1	22.1	18.3	26.7
Ramsey	11.2	19.0	17.0	21.8
Red Lake	12.2	20.6	17.7	24.4
Redwood	12.9	21.9	18.1	26.4
Renville	12.8	21.6	17.9	25.9
Rice	10.6	17.6	17.0	19.8
Rock	12.8	21.8	18.2	26.0
Roseau	11.4	19.3	16.6	22.3
St. Louis	11.7	19.7	17.6	23.2
Scott	9.5	16.5	15.3	17.7
Sherburne	9.7	16.5	15.7	17.8
Sibley	11.9	20.3	17.3	23.8
Stearns	10.6	17.6	17.0	19.9
Steele	11.3	19.3	16.9	22.3
Stevens	11.7	18.8	18.5	22.0
Swift	12.5	21.0	17.5	24.6
Todd	12.1	20.4	17.5	24.1
Traverse	14.6	24.4	19.5	30.1
Wabasha	12.0	20.4	17.3	24.1
Wadena	13.0	22.0	18.4	26.4
Waseca	11.5	19.5	16.9	22.5
Washington	10.4	17.8	15.9	20.1
Watonwan	13.0	22.0	18.2	26.4
Wilkin	12.1	20.4	17.4	24.2
Winona	11.0	17.9	17.7	20.5
Wright	10.1	17.3	15.9	19.0
Yellow Medicine	13.2	22.2	18.4	26.8

Source: Minnesota Department of Health, Behavioral Risk Factor Surveillance System

^See page D-26 for definitions

\*estimate of those who perceive their health status to be fair or poor

\*\*in any activities because of any impairment or health problem

**Synthetic Estimates:** County level estimated percentages for behavioral risk factors represent the percent of adults considered to be at risk for those behaviors in that county. These estimated percentages were derived through a synthetic estimation method, which adjusts statewide BRFSS percentages by the age and gender distributions of adults in each county.

## **Morbidity Tables 11 and 12:**

### **Definitions for Behavior Risk Factors of Adults**

**Behavioral Risk Factor Surveillance System (BRFSS):** A continuous monthly telephone survey that monitors health risk behaviors that has impact on chronic diseases and disabilities. Approximately, 4800 interviews of adults 18 years and older are completed yearly.

**Smoking:** Current regular smoker (ever smoked 100 cigarettes and now smokes every day or some days).

**Overweight:** The prevalence of overweight is defined as a Body Mass Index (BMI) [(weight in kilograms)/(height in meters)<sup>2</sup>] is between 25.0 to 29.9. Note this does not include obese as it did in previous years.

**Obese:** The prevalence of obese is defined as a Body Mass Index (BMI) [(weight in kilograms)/(height in meters)<sup>2</sup>] greater than or equal to 30.0.

**Acute Drinking:** Respondents who report they have consumed five or more drinks on an occasion, one or more times in the month prior to the survey.

**Chronic Drinking:** Chronic drinking of adults is defined as the percent of male respondents 18 and older who report an average of more than two drinks per day and female respondents 18 and older who report an average of more than one drink per day.

**Limitation of Activities:** The percent of adults who are limited in any activities because of physical mental or emotional problems, OR those adults who have a health impairment that requires the use of special equipment, such as cane, a wheelchair, a special bed or special telephone.

**No Exercise:** Percent of respondents who reported no physical activities during the past month, other than regular job.

**Hypertension:** Percent of respondents who have EVER been told by a doctor, nurse or other health professional that they have high blood pressure.