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Tobacco Use in Minnesota: Consumption Patterns

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ADULTS REPORTING CURRENT CIGARETTE USE

About the Indicator: *Current cigarette use* is defined here using two criteria: reported lifetime smoking of 100 or more cigarettes and reported smoking either daily or on most days.

Daily cigarette use is defined here as reported lifetime smoking of 100 or more cigarettes and reported daily smoking.

Data Source(s): Behavioral Risk Factor Surveillance System (BRFSS)

Key Findings in Minnesota:

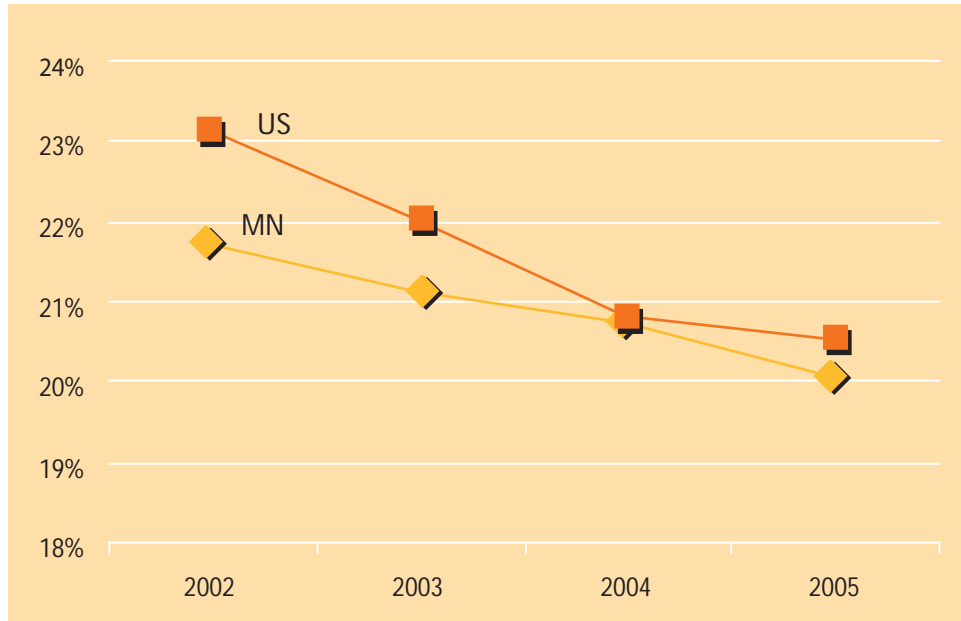
- Although current cigarette use has declined in recent years, over 20% of adults age 18-54 in Minnesota reported current smoking in 2005



Substance: Tobacco

Data Source: BRFSS

PERSONS 18 & OVER WHO REPORT SMOKING 100 OR MORE CIGARETTES IN THEIR LIFETIME AND NOW SMOKE CIGARETTES EITHER EVERYDAY OR ON SOME DAYS



	2002	2003	2004	2005
Minnesota	21.7%	21.1%	20.7%	20.0%
US	23.1%	22.0%	20.8%	20.5%
MN:US*	0.94	0.96	1.0	0.98

* Ratio of MN relative to the US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

MINNESOTA DATA BY GENDER, AGE AND RACE/ETHNICITY

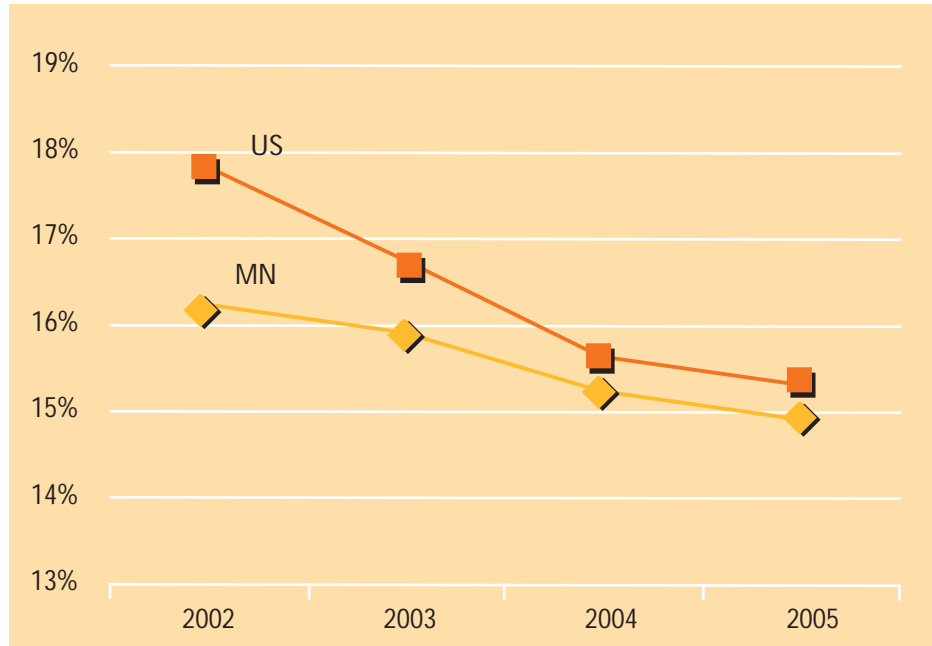
		2002	2003	2004	2005
Gender	Male	24.3%	22.4%	22.0%	21.0%
	Female	19.3%	19.9%	19.5%	19.1%
Age	Ages 18 thru 24	30.7%	36.7%	32.3%	28.7%
	Ages 25 thru 34	26.8%	20.8%	22.0%	24.1%
	Ages 35 thru 44	23.6%	24.6%	23.9%	22.6%
	Ages 45 thru 54	20.8%	22.4%	21.3%	21.1%
	Ages 55 thru 64	20.1%	14.3%	17.9%	14.8%
	Ages 65 and over	8.6%	8.1%	7.1%	8.2%
Race/Ethnicity	White	21.3%	20.6%	23.0%	19.1%
	Black	N/A	N/A	N/A	N/A
	Hispanic	N/A	N/A	N/A	N/A
	Other	N/A	N/A	N/A	N/A

N/A = Not available if the unweighted sample size for the denominator was < 50

Substance: Tobacco

Data Source: BRFSS

**PERSONS 18 & OVER WHO REPORT SMOKING 100 CIGARETTES
IN THEIR LIFETIME AND NOW SMOKE EVERY DAY**



	2002	2003	2004	2005
Minnesota	16.2%	15.9%	15.2%	14.9%
US	17.8%	16.7%	15.6%	15.3%
MN:US*	0.91	0.95	0.97	0.97

* Ratio of MN relative to the US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

MINNESOTA DATA BY GENDER, AGE AND RACE/ETHNICITY

		2002	2003	2004	2005
Gender	Male	18.0%	16.2%	16.5%	16.4%
	Female	14.6%	15.5%	14.0%	13.4%
Age	Ages 18 thru 24	21.0%	25.0%	21.4%	19.6%
	Ages 25 thru 34	17.2%	14.5%	16.3%	16.4%
	Ages 35 thru 44	19.0%	19.5%	17.9%	17.8%
	Ages 45 thru 54	16.0%	18.3%	15.7%	15.8%
	Ages 55 thru 64	17.3%	11.4%	14.3%	11.8%
	Ages 65 and over	6.9%	5.8%	5.6%	7.0%
	Race/Ethnicity	White	16.2%	15.7%	15.1%
	Black	N/A	N/A	N/A	N/A
	Hispanic	N/A	N/A	N/A	N/A
	Other	N/A	N/A	N/A	N/A

N/A = Not available if the unweighted sample size for the denominator was < 50

YOUTH REPORTING CURRENT CIGARETTE USE

- About the Indicator: Reported tobacco use within the past 30 days (“30-day use”) is a frequent measure of current use, especially among youth.
- Daily use is measured here as reported smoking on 20 days or more within the past 30 days.
- Youth tobacco use is presented here using 3 statistics: 30-day use of cigarettes, 30-day use of other tobacco products, and daily use.
- Data Source(s): Minnesota Student Survey (MSS)
- Key Findings in Minnesota:
- 30-day use among Minnesota students has fallen nearly 12% from 1998 to 2004
 - In 2004, over a quarter of 12th grade students reported 30-day use

Substance: Tobacco

Data Source: Minnesota Student Survey

STUDENTS REPORTING SMOKING A CIGARETTE ON ONE OR MORE DAYS WITHIN THE PAST 30 DAYS

Minnesota	1998	2001	2004
Number of students	--	22712	17806
Percent of students	26.3%	19.9%	14.4%

2004 MINNESOTA DATA BY GENDER, GRADE, RACE/ETHNICITY, REGION

		N (#)	%
Gender	Male	8501	14.1%
	Female	9305	14.7%
Grade	6th	1354	3%
	9th	7038	15.3%
	12th	9414	28.9%
Race/Ethnicity	White	14034	14.7%
	African-American or Black	439	9.3%
	Native American	434	24.2%
	Asian American/Pacific Islander	642	11.2%
	Hispanic/Latino	552	16.1%
	Bi-racial/Multi-racial	1076	17.3%
Region	Metro	8258	12.9%
	Non-Metro	9548	16.1%

2004 MINNESOTA DATA BY GENDER AND GRADE

		MALE		FEMALE	
		N (#)	%	N (#)	%
Grade	6th	713	3.2%	641	2.8%
	9th	3132	14.2%	3906	16.3%
	12th	4656	29.5%	4758	28.4%

2004 MINNESOTA DATA BY RACE AND GRADE

Race/Ethnicity	6TH GRADE		9TH GRADE		12TH GRADE	
	N (#)	%	N (#)	%	N (#)	%
White	648	2%	5152	14.2%	8234	29.5%
African-American or Black	93	4.7%	235	12.9%	111	12%
Native American	119	11.9%	227	37.8%	88	45.1%
Asian American/Pacific Islander	62	2.9%	283	12.9%	297	21.2%
Hispanic/Latino	107	7%	281	22.4%	164	25.2%
Bi-racial/Multi-racial	195	6.7%	576	23.8%	305	34.1%

**RACE-SPECIFIC DATA BY GENDER AND GRADE:
WHITE STUDENTS ONLY**

Grade		MALE		FEMALE	
		N (#)	%	N (#)	%
6th		366	2.3%	282	1.8%
9th		2247	13%	2905	15.3%
12th		4014	29.8%	4220	29.3%

**RACE-SPECIFIC DATA BY GENDER AND GRADE:
AFRICAN-AMERICAN OR BLACK STUDENTS ONLY**

Grade		MALE		FEMALE	
		N (#)	%	N (#)	%
6th		59	5.8%	34	3.5%
9th		134	14.8%	101	11%
12th		72	15.3%	39	6.8%

**RACE-SPECIFIC DATA BY GENDER AND GRADE:
NATIVE AMERICAN STUDENTS ONLY**

Grade		MALE		FEMALE	
		N (#)	%	N (#)	%
6th		54	10.3%	65	13.7%
9th		37	31.7%	130	44.2%
12th		47	45.6%	41	44.6%

**RACE-SPECIFIC DATA BY GENDER AND GRADE:
ASIAN AMERICAN/PACIFIC ISLANDER STUDENTS ONLY**

		MALE		FEMALE	
		N (#)	%	N (#)	%
Grade	6th	38	3.6%	*	*
	9th	155	14.7%	128	11.2%
	12th	163	25.1%	134	17.9%

**RACE-SPECIFIC DATA BY GENDER AND GRADE:
HISPANIC/LATINO STUDENTS ONLY**

		MALE		FEMALE	
		N (#)	%	N (#)	%
Grade	6th	44	5.9%	63	8.2%
	9th	143	22%	138	22.8%
	12th	85	27.2%	79	23.2%

**RACE-SPECIFIC DATA BY GENDER AND GRADE:
BI-RACIAL/MULTI-RACIAL STUDENTS ONLY**

		MALE		FEMALE	
		N (#)	%	N (#)	%
Grade	6th	78	6.2%	117	7.1%
	9th	198	19%	378	27.5%
	12th	122	31%	183	36.5%

2004 MINNESOTA DATA BY RACE/ETHNICITY AND REGION

		METRO		NON-METRO	
Race/Ethnicity		N (#)	%	N (#)	%
	White	6081	13.3%	7953	15.9%
	African-American or Black	354	8.5%	85	14.5%
	Native American	100	16.2%	334	28.3%
	Asian American/Pacific Islander	521	10.8%	121	13.7%
	Hispanic/Latino	299	14.9%	253	17.9%
	Bi-racial/Multi-racial	610	16.2%	466	19%

* = not available if cell count is less than 30

Substance: Tobacco

Data Source: Minnesota Student Survey

STUDENTS REPORTING SMOKING CIGARETTES ON 20 OR MORE DAYS WITHIN THE PAST 30 DAYS

Minnesota	2001	2004
Number of students	10580	7604
Percent of students	8.3%	6.1%

2004 MINNESOTA DATA BY GENDER, GRADE, RACE/ETHNICITY, REGION

		N (#)	%
Gender	Male	3746	6.2%
	Female	3858	6.1%
Grade	6th	287	0.6%
	9th	2632	5.7%
	12th	4685	14.4%
Race/Ethnicity	White	6175	6.4%
	African-American or Black	128	2.7%
	Native American	211	11.7%
	Asian American/Pacific Islander	239	4.2%
	Hispanic/Latino	157	4.6%
	Bi-racial/Multi-racial	429	6.9%
Region	Metro	3245	5.1%
	Non-Metro	4359	7.3%

2004 MINNESOTA DATA BY GENDER AND GRADE

		MALE		FEMALE	
		N (#)	%	N (#)	%
Grade	6th	177	0.8%	110	0.5%
	9th	1233	5.6%	1399	5.8%
	12th	2336	14.8%	2349	14%

2004 MINNESOTA DATA BY RACE AND GRADE

Race/Ethnicity	6TH GRADE		9TH GRADE		12TH GRADE	
	N (#)	%	N (#)	%	N (#)	%
White	139	0.4%	1912	5.3%	4142	14.8%
African-American or Black	*	*	60	3.3%	42	4.5%
Native American	*	*	131	21.8%	52	26.7%
Asian American/Pacific Islander	*	*	96	4.4%	133	9.5%
Hispanic/Latino	*	*	77	6.1%	61	9.4%
Bi-racial/Multi-racial	36	1.2%	226	9.4%	167	18.7%

RACE-SPECIFIC DATA BY GENDER AND GRADE: WHITE STUDENTS ONLY

Grade		MALE		FEMALE	
		N (#)	%	N (#)	%
6th		92	0.6%	47	0.3%
9th		868	5%	1044	5.5%
12th		2032	15.1%	2092	14.5%

RACE-SPECIFIC DATA BY GENDER AND GRADE: AFRICAN-AMERICAN OR BLACK STUDENTS ONLY

Grade		MALE		FEMALE	
		N (#)	%	N (#)	%
6th		*	*	*	*
9th		40	4.4%	*	*
12th		*	*	*	*

RACE-SPECIFIC DATA BY GENDER AND GRADE: NATIVE AMERICAN STUDENTS ONLY

Grade		MALE		FEMALE	
		N (#)	%	N (#)	%
6th		*	*	*	*
9th		53	17.3%	78	26.5%
12th		*	*	30	32.6%

* = not available if cell count is less than 30

**RACE-SPECIFIC DATA BY GENDER AND GRADE:
ASIAN AMERICAN/PACIFIC ISLANDER STUDENTS ONLY**

		MALE		FEMALE	
		N (#)	%	N (#)	%
Grade	6th	*	*	*	*
	9th	61	5.8%	35	3.1%
	12th	77	11.8%	56	7.5%

**RACE-SPECIFIC DATA BY GENDER AND GRADE:
HISPANIC/LATINO STUDENTS ONLY**

		MALE		FEMALE	
		N (#)	%	N (#)	%
Grade	6th	*	*	*	*
	9th	42	6.5%	35	5.8%
	12th	35	11.2%	26	7.6%

**RACE-SPECIFIC DATA BY GENDER AND GRADE:
BI-RACIAL/MULTI-RACIAL STUDENTS ONLY**

		MALE		FEMALE	
		N (#)	%	N (#)	%
Grade	6th	*	*	*	*
	9th	86	8.3%	140	10.2%
	12th	63	16%	104	20.8%

2004 MINNESOTA DATA BY RACE/ETHNICITY AND REGION

		METRO		NON-METRO	
Race/Ethnicity		N (#)	%	N (#)	%
	White	2509	5.5%	3666	7.3%
	African-American or Black	102	2.5%	*	*
	Native American	41	3.6%	170	14.4%
	Asian American/Pacific Islander	180	3.7%	59	6.7%
	Hispanic/Latino	77	3.8%	80	5.7%
	Bi-racial/Multi-racial	225	6%	204	8.3%

* = not available if cell count is less than 30

Substance: Tobacco

Data Source: Minnesota Student Survey

STUDENTS REPORTING USE OF CHEWING TOBACCO OR SNUFF WITHIN THE PAST 30 DAYS

Minnesota	2001	2004
Number of students	4740	3992
Percent of students	3.7%	3.2%

2004 MINNESOTA DATA BY GENDER, GRADE, RACE/ETHNICITY, REGION

		N (#)	%
Gender	Male	3603	6%
	Female	389	0.6%
Grade	6th	289	0.6%
	9th	1471	3.2%
	12th	2232	6.8%
Race/Ethnicity	White	3235	3.4%
	African-American or Black	124	2.7%
	Native American	58	3.3%
	Asian American/Pacific Islander	103	1.8%
	Hispanic/Latino	97	2.9%
	Bi-racial/Multi-racial	176	2.8%
Region	Metro	1464	2.3%
	Non-Metro	2528	4.2%

2004 MINNESOTA DATA BY GENDER AND GRADE

		MALE		FEMALE	
		N (#)	%	N (#)	%
Grade	6th	209	0.9%	80	0.4%
	9th	1270	5.8%	201	0.8%
	12th	2124	13.4%	108	0.6%



2004 MINNESOTA DATA BY RACE AND GRADE

Race/Ethnicity	6TH GRADE		9TH GRADE		12TH GRADE	
	N (#)	%	N (#)	%	N (#)	%
White	139	0.4%	1124	3.1%	1972	7%
African-American or Black	34	1.7%	58	3.2%	32	3.5%
Native American	*	*	*	*	*	*
Asian American/Pacific Islander	*	*	47	2.1%	45	3.2%
Hispanic/Latino	*	*	48	3.8%	*	3.6%
Bi-racial/Multi-racial	33	1.1%	84	3.5%	59	6.5%

**RACE-SPECIFIC DATA BY GENDER AND GRADE:
WHITE STUDENTS ONLY**

Grade		MALE		FEMALE	
		N (#)	%	N (#)	%
6th		104	0.7%	35	0.2%
9th		983	5.7%	141	0.7%
12th		1885	13.9%	87	0.6%

**RACE-SPECIFIC DATA BY GENDER AND GRADE:
AFRICAN-AMERICAN OR BLACK STUDENTS ONLY**

Grade		MALE		FEMALE	
		N (#)	%	N (#)	%
6th		*	*	*	*
9th		52	5.9%	*	*
12th		31	6.7%	*	*

**RACE-SPECIFIC DATA BY GENDER AND GRADE:
NATIVE AMERICAN STUDENTS ONLY**

Grade		MALE		FEMALE	
		N (#)	%	N (#)	%
6th		*	*	*	*
9th		*	*	*	*
12th		*	*	*	*

* = not available if cell count is less than 30

**RACE-SPECIFIC DATA BY GENDER AND GRADE:
ASIAN AMERICAN/PACIFIC ISLANDER STUDENTS ONLY**

		MALE		FEMALE	
		N (#)	%	N (#)	%
Grade	6th	*	*	*	*
	9th	44	4.1%	*	*
	12th	39	6%	*	*

**RACE-SPECIFIC DATA BY GENDER AND GRADE:
HISPANIC/LATINO STUDENTS ONLY**

		MALE		FEMALE	
		N (#)	%	N (#)	%
Grade	6th	*	*	*	*
	9th	43	6.6%	*	*
	12th	*	*	*	*

**RACE-SPECIFIC DATA BY GENDER AND GRADE:
BI-RACIAL/MULTI-RACIAL STUDENTS ONLY**

		MALE		FEMALE	
		N (#)	%	N (#)	%
Grade	6th	*	*	*	*
	9th	61	5.9%	*	*
	12th	54	13.6%	*	*

2004 MINNESOTA DATA BY RACE/ETHNICITY AND REGION

		METRO		NON-METRO	
Race/Ethnicity		N (#)	%	N (#)	%
	White	1063	2.3%	2172	4.3%
	African-American or Black	91	2.2%	33	5.7%
	Native American	*	*	39	3.3%
	Asian American/Pacific Islander	63	1.3%	40	4.5%
	Hispanic/Latino	50	2.5%	47	3.3%
	Bi-racial/Multi-racial	93	2.5%	83	3.4%

* = not available if cell count is less than 30

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Tobacco Use in Minnesota: Consequences

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TOBACCO-RELATED MORTALITY

- About the Indicator:** Smoking is a risk factor for many causes of death in Minnesota.
- Lung cancer is the most common cause of cancer deaths. The risk of lung cancer increases in proportion to the duration of smoking and the numbers of cigarettes smoked.
- In addition to lung cancer rates, the disease impact of smoking can be assessed using Smoking Attributable Mortality¹ figures calculated by the Centers for Disease Control and Prevention (CDC).
- Data Source(s):** National Vital Statistics System (NVSS)
Centers for Disease Control and Prevention (CDC)
- Key Findings in Minnesota:**
- The lung cancer death rate in Minnesota has been consistently lower than national rates for the past several years
 - In 2001, the number of smoking-attributable deaths in Minnesota exceeded 22 million

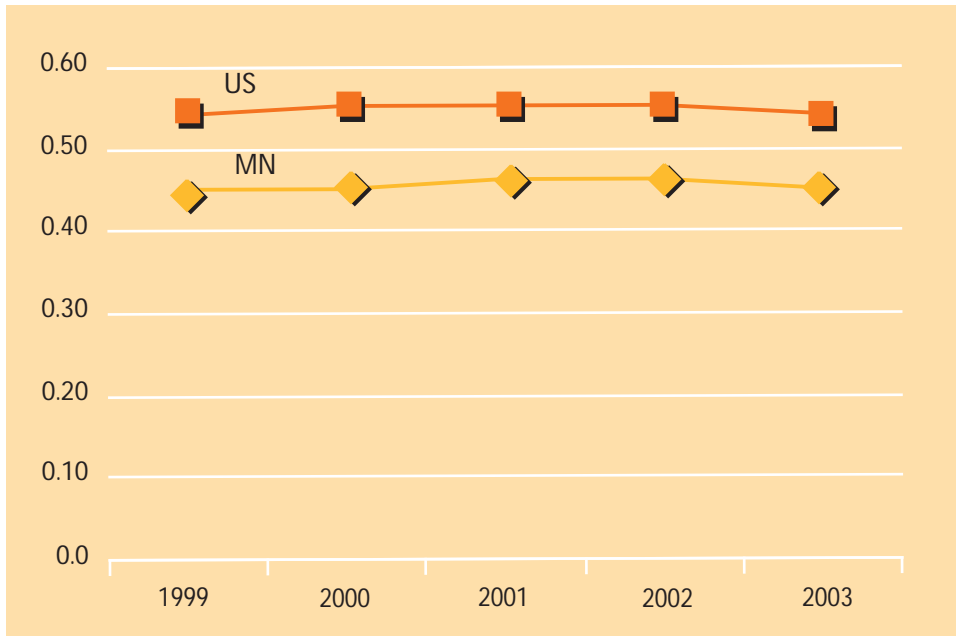
¹ Attributable fractions are based on relative risks estimated from the American Cancer Society's second Cancer Prevention Study (CPS II) and smoking prevalence estimated from the National Health Interview Survey (NHIS).



Substance: Tobacco

Data Source: National Vital Statistics System

DEATHS FROM LUNG CANCER PER 1000 POPULATION



Minnesota	1999	2000	2001	2002	2003
Lung Cancer deaths	2205	2197	2270	2326	2283
Rate per 1000 population	0.45	0.45	0.46	0.46	0.45
United States	1999	2000	2001	2002	2003
Lung Cancer deaths	152,063	155,431	155,973	157,630	157,992
Rate per 1000 population	0.54	0.55	0.55	0.55	0.54
	1999	2000	2001	2002	2003
MN:US**	.83	.82	.84	.84	.83

**Ratio of MN relative to US; A score above 1 means MN rates are above US rates; a score below 1 means MN rates are below US rates

MINNESOTA DATA BY GENDER, AGE, RACE/ETHNICITY

		1999		2000		2001		2002		2003	
		N (#)	%	N (#)	%	N (#)	%	N (#)	%	N (#)	%
Gender	Male	1297	58.8%	1226	55.8%	1271	56.0%	1261	54.2%	1267	55.5%
	Female	908	41.2%	971	44.2%	999	44.0%	1065	45.8%	1016	44.5%
Age	Under 19	*	*	*	*	*	*	*	*	*	*
	20-24	*	*	*	*	*	*	*	*	2	0.1%
	25-34	*	*	*	*	*	*	3	0.1%	2	0.1%
	35-44	35	1.6%	33	1.5%	43	1.9%	38	1.6%	36	1.6%
	45-54	147	6.7%	167	7.6%	176	7.8%	158	6.8%	167	7.3%
	55-64	458	20.8%	384	17.5%	426	18.8%	431	18.5%	420	18.4%
	65-74	698	31.7%	715	32.5%	724	31.9%	701	30.1%	680	29.8%
	75-84	681	30.9%	684	31.1%	686	30.2%	759	32.6%	739	32.4%
	85+	186	8.4%	213	9.7%	213	9.4%	236	10.1%	237	10.4%
Race	White	2129	96.6%	2108	95.9%	2180	96.0%	2275	97.8%	2202	96.5%
	Black or African-American	48	2.2%	61	2.8%	41	1.8%	30	1.3%	43	1.9%
	Other Race	28	1.3%	28	1.3%	49	2.2%	21	0.9%	38	1.7%

* = Not available if fewer than 2 cases occurred per year

Substance: Tobacco

Data Source: Smoking-Attributable Mortality, Morbidity, and Economic Costs (SAMMEC)

AGE-ADJUSTED SMOKING-ATTRIBUTABLE MORTALITY (SAM) RATE PER 100,000

SAM Rate per 100,000 (2001)^{1,2}

DISEASE CATEGORY	MINNESOTA			UNITED STATES		
	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL
Malignant Neoplasms						
Lip, Oral Cavity, Pharynx	4.8	1.4	2.9	5.9	1.4	3.4
Esophagus	9.4	2.0	5.3	11.0	2.0	5.9
Stomach	2.9	0.7	1.6	3.2	0.7	1.7
Pancreas	4.7	3.8	4.2	5.1	4.1	4.6
Larynx	3.7	0.7	1.9	4.0	0.7	2.1
Trachea, Lung, Bronchus	104.5	50.9	73.8	128.9	56.1	86.7
Cervix Uteri	0.0	0.2	0.1	0	0.6	0.3
Kidney and Renal Pelvis	4.2	0.2	2.0	4.6	0.3	2.1
Urinary Bladder	6.6	0.9	3.2	6.9	1.2	3.4
Acute Myeloid Leukemia	1.5	0.4	0.9	1.4	0.4	0.8
Sub-total	142.3	61.2	95.9	171.0	67.5	111.0
Cardiovascular Diseases						
Ischemic Heart Disease	62.3	18.2	37.0	86.7	33.9	56.4
Other Heart Disease	21.6	7.3	12.7	23.3	8.7	14.4
Cerebrovascular Disease	11.1	6.8	8.4	14.0	9.6	11.3
Atherosclerosis	1.7	0.4	0.9	2.6	0.7	1.4
Aortic Aneurysm	12.2	4.3	7.5	10.0	3.3	6.0
Other Arterial Disease	0.9	0.7	0.8	1.0	0.9	0.9
Sub-total	109.8	37.7	67.3	137.6	57.1	90.4
Respiratory Diseases						
Pneumonia, In uenza	7.8	3.0	4.7	11.4	4.7	7.1
Bronchitis, Emphysema	7.9	4.3	5.8	13.9	7.9	10.2
Chronic Airway Obstruction	67.4	40.5	50.9	71.1	43.5	53.8
Sub-total	83.1	47.8	61.4	96.4	56.1	71.1
Total	335.2	146.7	224.6	405.0	180.7	272.5

¹ Among adults aged 35 years and older.

² Does not include burn or second hand smoke deaths.