# **2021 Minnesota Health Statistics**

ANNUAL SUMMARY 11/17/2023



## 2021 MN Health Statistics Annual Summary

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Category	2020	2021	Percent Change
Total Population	5,657,342	5,707,390	0.9%
Population of Females 15-44	1,087,455	1,100,012	1.2%
Total Pregnancies to MN Residents	72,039	73,898	2.6%
Live Births to MN Residents	63,462	64,449	1.6%
Birth Rate (births per 1,000 total MN population)	11.2	11.3	0.7%
Pregnancy Rate (pregnancies per 1,000 females ages 15-44)	66.2	67.2	1.4%
Fertility Rate (births per 1,000 Females Ages 15-44)	58.4	58.6	0.4%
Births to Unmarried Mothers (%)	32.7%	31.8%	-2.7%
Low birthweight (Less than 2,500 grams)	6.7%	7.3%	8.6%
Preterm (Less than 37 weeks gestation) <sup>1</sup>	9.1%	9.6%	5.5%
Fetal Deaths <sup>2</sup>	326	322	-1.2%
Infant Deaths (Infants aged < 1 year)	264	310	17.4%
Neonatal Deaths (Infants aged < 28 days)	185	212	14.6%
Postneonatal Deaths (Infants aged 28 days to < 1 year)	79	98	24.1%
Fetal Mortality Rate (per 1,000 live births + Fetal Deaths)	5.1	5.0	-2.7%
Infant Mortality Rate (per 1,000 live births)	4.2	4.8	15.6%
Neonatal Mortality Rate (per 1,000 live births)	2.9	3.3	12.8%
Postneonatal Mortality Rate (per 1,000 live births)	1.2	1.5	22.2%
All Deaths	52,372	51,647	-1.4%
Death Rate (per 1,000 Total MN Population)	9.3	9.0	-2.2%
COVD-19 Deaths	5,215	4,439	-14.9%
COVID-19 Crude Rate (per 1,000 Total MN Population)	0.9	0.8	-11.1%
COVID-19 Crude Rate (per 100,000 Total MN Population)	92.2	77.8	-15.6%
Cancer Deaths (Malignant Neoplasms)	9,941	10,178	2.4%
Heart Disease Deaths	8,563	8,570	0.1%
Unintentional Injury Deaths	3,321	3,752	13.0%
Stroke Deaths (Cerebrovascular Diseases)	2,316	2,384	2.9%
Alzheimer's Disease Deaths	2,587	2,251	-13.0%
Chronic Lower Respiratory Disease Deaths	2,211	2,066	-6.6%
Diabetes Deaths	1,493	1,575	5.5%
Suicide Deaths (Intentional Self-harm)	757	809	6.9%

Table 1. Percent change between 2020 and 2021 selected Minnesota Health Statistics for Minnesota residents.

<sup>1</sup>Based on Clinical Estimate of Gestation, all live births.

<sup>2</sup>Fetal deaths of less than 20 weeks gestation are not included in the counts.

			Percent
Category	2020	2021	Change
Total Population	5,657,342	5,707,390	0.9%
Age groups			
Population < 5 years	345,991	337,504	-2.5%
Population 0-19 years	1,441,077	1,461,405	1.4%
Population >= 65 years	948,841	955,683	0.7%
Race/ethnicity <sup>1</sup>			
White, non-Hispanic	4,513,407	4,458,035	NA
African American, non-Hispanic	438,264	409,602	NA
American Indian, non-Hispanic	68,257	60,687	NA
Asian/Pacific Islander, non-Hispanic	315,728	305,845	NA
Multiracial	NA	139,747	NA
Hispanic/Latino (any race)	321,686	333,474	NA
Socioeconomic characteristics <sup>2</sup>			
Adults 25 years with HS diploma/GED or less	30.5%	29.1%	NA
Total population living in poverty	8.3%	9.3%	NA
Kids < 18 living in poverty	15.7%	10.8%	NA
Kids < 18 living in single-parent headed households	28.7%	25.9%	NA
Unemployed (annual average)	5.4%	4.9%	NA
Median household income	\$75,523.00	\$77,720.00	NA
Owner occupied houses	78.8%	73.0%	NA
Rural/urban residence <sup>3</sup>			
Large urban metropolitan area			
(population $\geq$ 1,000,000 and	1,816,311	1,810,673	-0.3%
largest city >= 250,000 population)			
Large suburban metropolitan area	1,721,343	1,757,125	2.1%
(population >= 1,000,000 & largest city < 250,000)	1,721,545	1,757,125	2.1/0
Medium metropolitan area	234,307	235,591	0.5%
(county with population 250,000-999,999)	20 1,007	200,001	0.070
Small metropolitan area	643,003	646,278	0.5%
(county with population < 250,000)	010,000	010,270	0.070
Micropolitan area			
(county population 10,000-49,999 and	667,598	676,627	1.4%
urban area with at least 2,500 population)			
Non-core (Rural) area	574 700	504.000	4
(county with population < 49,999 and	574,780	581,096	1.1%
no urban area with > 2,500 population)			

 Table 2. Selected Demographic and Socioeconomic Characteristics of Minnesota Residents, Changes

 from 2020 to 2021

<sup>1</sup> Annual Estimates are single-race Vintage 2021 postcensal estimates of the July 1 resident population. These estimates were prepared by the Census Bureau in collaboration with NCHS. Single race estimates created for six single race categories (including multiracial) or Hispanic categories based on the 1997 OMB standards. There are no population estimates for other/unknown. For more information or access to the data, see: <u>https://wonder.cdc.gov/wonder/help/single-race.html</u> <sup>2</sup> Data for 2020 from the 2020 American Community Survey (ACS), 1-year experimental data tables created due to the

COVID19 pandemic disruption. Data from 2020 should not be compared to other 1-year ACS estimates.

<sup>3</sup> Classification is based on the National Center for Health Statistics (NCHS) Urban-Rural Classification Scheme for Counties. See <u>https://www.cdc.gov/nchs/data\_access/urban\_rural.htm</u> for more detail.

_			Non-Hispanic			
	White	Black	American Indian	Asian/Pacific Islander	Multiracial	Hispanic
< 1 year	41,549	6,551	849	4,060	3,746	6,142
1 - 4 years	181,108	30,425	3,668	18,579	15,382	25,445
5 - 9 years	242,130	41,391	5,279	25,428	19,380	32,944
10 - 14 years	256,494	39,482	5,439	24,062	20,463	36,523
15 - 19 years	261,018	34,678	5,192	22,551	17,476	33,971
20 - 24 years	254,053	30,161	4,626	22,997	13,334	28,520
25 - 29 years	264,785	32,259	4,587	27,656	11,333	26,609
30 - 34 years	276,377	35,342	4,615	31,625	8,588	24,541
35 - 39 years	300,606	33,701	4,193	28,463	6,829	24,488
40 - 44 years	286,571	27,271	3,545	22,227	5 <i>,</i> 503	23,761
45 - 49 years	250,081	22,852	3,028	19,615	4,036	19,852
50 - 54 years	287,160	20,264	3,322	15,511	3,490	15,810
55 - 59 years	327,252	17,365	3,222	12,571	2,860	11,925
60 - 64 years	342,246	14,296	3,147	9,762	2,609	8,860
65 - 69 years	294,627	9,667	2,314	7,581	1,836	5,602
70 - 74 years	236,900	6,358	1,702	5,614	1,331	3,655
75 - 79 years	150,747	3,618	949	3,291	716	2,116
80 - 84 years	100,455	2,169	562	2,171	437	1,362
85+ years	103,876	1,752	448	2,081	398	1,348
TOTAL	4,458,035	409,602	60,687	305,845	139,747	333,474

Table 3. State Population by Race/Ethnicity and Age Group, MN Residents, 2021

**NOTES:** Annual Estimates are single-race Vintage 2021 postcensal estimates of the July 1 resident population. These estimates w by the Census Bureau in collaboration with NCHS. Single race estimates created for six single race categories (including multiraci categories based on the 1997 OMB standards. There are no population estimates for other/unknown. For more information or a data, see: <u>https://wonder.cdc.gov/wonder/help/single-race.html</u>

Estimates by sex are on Table 4.

_			Non-Hispanic				
Females	White	Black	American Asian/Pacific		Multiracial	Hispanic	TOTAL
	white		Indian	Islander	Wuthacia	пізрапіс	
< 1 year	20,382	3,233	430	1,965	1,824	3,008	30,842
1 - 4 years	88,433	15,007	1,797	9,052	7,507	12,436	134,232
5 - 9 years	117,974	20,422	2,582	12,501	9,508	16,133	179,120
10 - 14 years	124,915	19,167	2,680	11,929	9,925	17,812	186,428
15 - 19 years	127,638	17,012	2,565	11,216	8,649	16,745	183,825
20 - 24 years	126,133	14,822	2,237	11,577	6,686	13,779	175,234
25 - 29 years	130,247	15,826	2,213	13,677	5,625	12,511	180,099
30 - 34 years	134,836	16,901	2,263	15,918	4,526	11,535	185,979
35 - 39 years	147,301	16,105	2,102	14,916	3,577	11,186	195,187
40 - 44 years	139,519	12,887	1,784	11,670	2,921	10,907	179,688
45 - 49 years	122,345	10,920	1,505	10,014	2,143	9,207	156,134
50 - 54 years	141,213	9,604	1,691	7,893	1,837	7,451	169,689
55 - 59 years	163,056	8,178	1,674	6,444	1,474	5,569	186,395
60 - 64 years	171,501	6,883	1,639	5,297	1,367	4,287	190,974
65 - 69 years	149,110	4,853	1,298	4,095	966	2,799	163,121
70 - 74 years	122,374	3,506	984	3,167	736	1,905	132,672
75 - 79 years	80,823	2,024	564	1,838	392	1,071	86,712
80 - 84 years	56,502	1,372	341	1,238	255	774	60,482
85+ years	66,451	1,083	286	1,303	275	766	70,164
TOTAL	2,230,753	199,805	30,635	155,710	70,193	159,881	2,846,977
Males							
< 1 year	21,167	3,318	419	2,095	1,922	3,134	32,055
1 - 4 years	92,675	15,418	1,871	9,527	7,875	13,009	140,375
5 - 9 years	124,156	20,969	2,697	12,927	9,872	16,811	187,432
10 - 14 years	131,579	20,315	2,759	12,133	10,538	18,711	196,035
15 - 19 years	133,380	17,666	2,627	11,335	8,827	17,226	191,061
20 - 24 years	127,920	15,339	2,389	11,420	6,648	14,741	178,457
25 - 29 years	134,538	16,433	2,374	13,979	5,708	14,098	187,130
30 - 34 years	141,541	18,441	2,352	15,707	4,062	13,006	195,109
35 - 39 years	153,305	17,596	2,091	13,547	3,252	13,302	203,093
40 - 44 years	147,052	14,384	1,761	10,557	2,582	12,854	189,190
45 - 49 years	127,736	11,932	1,523	9,601	1,893	10,645	163,330
50 - 54 years	145,947	10,660	1,631	7,618	1,653	8,359	175,868
55 - 59 years	164,196	9,187	1,548	6,127	1,386	6,356	188,800
60 - 64 years	170,745	7,413	1,508	4,465	1,242	4,573	189,946
, 65 - 69 years	145,517	4,814	1,016	3,486	870	2,803	158,506
, 70 - 74 years	114,526	2,852	718	2,447	595	1,750	122,888
, 75 - 79 years	69,924	1,594	385	1,453	324	1,045	74,725
, 80 - 84 years	43,953	797	221	933	182	588	46,674
, 85+ years	37,425	669	162	778	123	582	39,739
TOTAL	2,227,282	209,797	30,052	150,135	69,554	173,593	2,860,413

Table 4. State Population by Race/Ethnicity, Age Group, and Sex, MN Residents, 2021.

	Live Bi	rths	Crude Birt	h Rate <sup>1</sup>	Fertility	Rate <sup>2</sup>
Year	Minnesota	U.S.	Minnesota	U.S.	Minnesota	U.S.
1945	54,656	2,858,000	20.9	20.4	85.1	85.9
1950	75,078	3,632,000	25.2	24.1	119.1	106.2
1955	81,532	4,097,000	25.7	25.0	130.1	118.3
1960	87,523	4,257,850	25.6	23.7	136.0	118.0
1965	70,810	3,760,358	19.7	19.4	105.9	96.3
1970	68,449	3,731,386	18.0	18.4	88.4	89.7
1975	56,463	3,144,198	14.4	14.6	65.4	66.0
1980	67,843	3,612,258	16.6	15.9	70.8	68.4
1985	67,412	3,760,561	16.1	15.8	68.0	66.2
1990	67,985	4,158,212	15.5	16.7	66.3	70.9
1995	63,259	3,899,589	13.7	14.7	60.1	65.6
2000	67,451	4,058,814	13.7	14.7	62.3	67.5
2005	70,920	4,140,419	13.8	14.0	64.9	66.7
2006	73,515	4,265,555	14.2	14.2	68.6	68.5
2007	73,675	4,316,233	14.2	14.3	69.6	69.5
2008	72,382	4,251,095	13.9	13.9	69.0	68.4
2009	70,617	4,130,665	13.4	13.5	67.5	66.7
2010	68,407	3,999,386	12.9	13.0	65.4	64.1
2011	68,416	3,953,593	12.8	12.7	65.5	63.2
2012	68,783	3,952,841	12.8	12.6	65.7	63.0
2013	69,183	3,932,181	12.8	12.4	65.9	62.5
2014	69,916	3,988,076	12.8	12.5	66.4	62.9
2015	69,835	3,978,497	12.7	12.4	66.3	62.5
2016	69,746	3,945,875	12.6	12.2	66.2	62.0
2017	68,603	3,855,500	12.3	11.8	64.3	60.3
2018	67,348	3,791,712	12.0	11.6	62.7	59.1
2019	66,033	3,745,540	11.7	11.4	61.0	58.2
2020	63,462	3,613,647	11.2	11.0	58.4	56.0
2021	64,449	3,664,292	11.3	11.0	58.6	56.3

Table 5. Resident Live Births, Crude Birth Rates<sup>1</sup>, Fertility Rates<sup>2</sup>, Minnesota and United States, 1945, 1950, 1955, 1960, 1965, 1970, 1975, 1980, 1985, 1990, 1995, 2000, 2005-2021

<sup>1</sup>Live Births per 1,000 total population.

<sup>2</sup> Live Births per 1,000 Female Population Ages 15-44.

		Deaths			Infant Deaths					Neonatal Deaths			
	Minne	sota	United S	tates	Minne	sota	United S	states	Minne	sota	United S	States	
Year	Number	Rate <sup>1</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>3</sup>	Number	Rate <sup>3</sup>	
1955	28,574	9.0	1,528,717	9.3	1,779	21.8	106,903	26.4	1,386	17.0	77,351	19.1	
1960	31,596	9.3	1,711,982	9.5	1,881	21.5	110,873	26.0	1,397	16.0	79,733	18.7	
1965	32,477	9.0	1,828,136	9.4	1,432	20.2	92,866	24.7	1,075	15.2	66,419	17.7	
1970	33,919	8.9	1,921,031	9.5	1,203	17.6	74,667	20.0	944	13.8	56,279	15.1	
1975	32,686	8.3	1,892,879	8.8	771	13.7	50,525	16.1	582	10.3	36,416	11.6	
1980	33,415	8.2	1,989,841	8.8	679	10.0	45,526	12.6	421	6.2	30,618	8.5	
1985	34,793	0.0	2,086,440	8.7	591	8.8	40,030	10.6	364	5.4	26,179	7.0	
1990	34,739	7.9	2,148,463	8.6	796	7.3	38,100	9.2	295	4.3	24,309	5.8	
1995	37,427	8.1	2,312,132	8.8	427	6.8	29,583	7.6	255	4.0	19,155	4.9	
2000	37,595	7.6	2,403,351	8.7	377	5.6	28,035	6.9	252	3.7	18,776	4.6	
2005	37,498	7.3	2,447,903	8.0	363	5.1	28,534	6.9	232	3.3	18,834	4.6	
2006	36,963	7.2	2,426,264	8.1	381	5.2	28,527	6.7	243	3.3	18,989	4.5	
2007	37,086	7.1	2,423,712	8.0	407	5.5	29,138	6.8	278	3.8	19,058	4.4	
2008	38,431	7.4	2,471,984	8.1	433	6.0	28,059	6.6	275	3.8	18,211	4.3	
2009	37,801	7.2	2,437,163	7.9	324	4.5	26,412	6.4	188	2.7	17,255	4.2	
2010	38,857	7.3	2,468,435	8.0	309	4.5	24,586	6.2	210	3.1	16,188	4.1	
2011	39,799	7.4	2,515,458	8.1	339	5.0	23,985	6.1	224	3.3	15,954	4.0	
2012	40,020	7.4	2,543,279	8.1	347	5.0	23,629	6.0	249	3.6	15,850	4.0	
2013	40,981	7.6	2,596,993	8.2	349	5.0	23,440	6.0	248	3.6	15,867	4.0	
2014	41,271	7.6	2,626,418	8.2	352	5.0	23,215	5.8	233	3.3	15,720	3.9	
2015	42,652	7.8	2,712,630	8.4	361	5.2	23,455	5.9	262	3.8	15,652	3.9	
2016	43,050	7.8	2,744,248	8.5	357	5.1	23,161	5.9	242	3.5	15,282	3.9	
2017	44,361	8.0	2,813,503	8.6	329	4.8	22,335	5.8	225	3.3	14,821	3.8	
2018	44,730	8.0	2,839,205	8.7	342	4.5	21,467	5.7	230	3.0	14,289	3.8	
2019	45,516	7.9	2,854,838	8.7	302	4.6	20,927	5.6	208	3.1	13,834	3.7	
2020	52,372	9.3	3,383,729	10.3	264	4.2	19,578	5.4	185	2.9	12,866	3.6	
2021	51,647	9.0	3,464,231	10.4	310	4.8	N/A	N/A	212	3.3	N/A	N/A	

Table 6. Numbers and Rates of Resident Deaths, Infant and Neonatal Deaths; Minnesota and United States, 1955, 1960, 1965, 1970, 1975, 1980, 1985, 1990, 1995, 2000, 2005-2021.

<sup>1</sup> Deaths per 1,000 Population.

<sup>2</sup> Infant Deaths per 1,000 Live Births.

<sup>3</sup> Neonatal Deaths (infant born alive and died within first 28 days) per 1,000 Live Births.

			Non-H	ispanic				
	White	African	American	Asian/	Multiracial	Other/	Hispanic	TOTAL
	American Indian Pacific Isl. Unknown							
Fertility (counts)								
Total pregnancies	47,375	10,323	985	5,536	2,649	690	6,340	73,898
Live births	43,595	7,594	792	4,903	2,064	159	5,342	64,449
Induced abortions <sup>2</sup>	3,606	2,661	185	620	572	517	966	9,127
Fetal deaths <sup>3</sup>	174	68	8	13	13	14	32	322
Late fetal deaths	86	33	7	3	9	7	15	160
Natality (percents)								
First-time mothers	37.9%	24.8%	25.8%	32.7%	36.2%	20.8%	33.9%	35.4%
Late PNC	1.7%	5.5%	17.0%	2.9%	4.3%	17.0%	5.4%	2.9%
Inadequate PNC	4.7%	17.0%	26.3%	11.1%	11.1%	17.0%	14.8%	8.0%
C-section (any) delivery	28.9%	31.6%	31.2%	24.5%	29.8%	22.6%	28.6%	28.9%
Low birthweight	6.2%	11.2%	8.8%	8.6%	9.7%	9.4%	7.6%	7.3%
Preterm	9.1%	11.0%	14.4%	9.2%	11.7%	11.3%	10.3%	9.6%
Mortality (counts)								
Female deaths	21,596	886	402	519	156	525	329	24,413
Male deaths	23,301	1,287	412	641	216	844	533	27,234
Total deaths <sup>4</sup>	44,897	2,173	814	1,160	372	1,369	862	51,647
Perinatal Mortality								
Perinatal deaths <sup>5</sup> (Late fetal + Early neonatal)	173	66	9	12	15	21	29	325
Total infant deaths <sup>6</sup>	149	71	15	16	14	18	27	310
Neonatal deaths (< 28 days)	112	42	7	11	8	15	17	212
Early neonatal death (< 7 days)	87	33	2	9	6	14	14	165
Postneonatal deaths (28 days - 1 yr)	37	29	8	5	6	3	10	98

Table 7. Summary of Selected Vital Statistics by Race and Hispanic Ethnicity<sup>1</sup>, Minnesota Residents, 2021.

<sup>1</sup> Race/ethnicity based on self-identified race/ethnicity of woman.

<sup>2</sup> Race and ethnicity data for abortions are not collected and processed the same as for natality data. The other/unknown race category for abortion includes those with multiple races, while multiple races are probablistically assigned to one of the other four race categories. Thus, the other/unknown race category for natality statistics only includes those with unknown race. Abortion statistics should be examined with this difference in mind.

<sup>3</sup> Fetal deaths of less than 20 weeks gestation are not included in the counts. Late fetal deaths are a subset of fetal deaths occurring at 28 weeks or later gestation.

<sup>4</sup> Perinatal deaths include late fetal deaths (28 or more weeks gestation) plus early neonatal deaths (under 7 days of age).

<sup>5</sup> Deaths that do not have an assigned gender are not included in the data.

<sup>6</sup> Infant deaths are period events that occurred in the reporting period and are included in the mortality files.

NOTE: Counts based on <20 events should not be used to calculate rates due to instability of the estimates.

		Metro	politan	-	Non-Me <sup>.</sup> (Ru	TOTAL	
	Large Urban	Large Suburban	Medium	Small	Micro	Non-Core	TOTAL
Fertility (counts)							
Total pregnancies	26,237	22,390	2,555	8,301	7,832	6,573	73,888
Live births	21,363	19,857	2,226	7,528	7,280	6,188	64,442
Induced abortions	4,760	2,442	315	741	517	350	9,125
Fetal deaths <sup>2</sup>	114	91	14	32	35	35	321
Late fetal deaths (> 28 weeks)	55	43	7	16	19	19	159
Natality (percents)							
First-time mothers	38.6%	34.4%	37.9%	34.1%	32.2%	31.7%	35.4%
Late PNC	3.6%	2.0%	2.1%	2.1%	3.4%	3.3%	2.9%
Inadequate PNC	10.1%	6.8%	5.9%	5.5%	8.2%	8.0%	8.0%
C-section	28.7%	29.8%	28.1%	27.8%	27.3%	30.0%	28.9%
Low birthweight	8.3%	6.8%	7.9%	6.7%	6.5%	6.6%	7.3%
Preterm	10.0%	9.3%	10.0%	8.5%	9.4%	10.2%	9.6%
Mortality (counts) <sup>3</sup>							
Female deaths	7,265	6,263	1,287	2,635	3,553	3,398	24,401
Male deaths	7,617	6,990	1,559	2,979	4,008	4,061	27,214
Total deaths	14,882	13,253	2,846	5,614	7,561	7,459	51,615
Perinatal Mortality							
Perinatal deaths <sup>4</sup> (Late fetal + Early neonatal)	114	84	12	36	43	33	322
Total infant deaths <sup>5</sup>	121	68	7	40	40	32	308
Neonatal deaths (< 28 days)	78	53	6	24	30	19	210
Early neonatal death (< 7 days)	59	41	5	20	24	14	163
Postneonatal deaths (28 days - 1 yr)	43	15	1	16	10	13	98

<sup>1</sup> Classification is based on the National Center for Health Statistics (NCHS) Urban-Rural Classification Scheme for Counties. See Introduction to this report or <u>https://www.cdc.gov/nchs/data\_access/urban\_rural.htm</u> Missing county of residence is not included in this variable.

<sup>2</sup> Fetal deaths of less than 20 weeks gestation are not included in the counts. Late fetal deaths are a subset of fetal deaths occurring at 28 weeks or later gestation.

<sup>3</sup> Total mortality counts do not include missing geography.

<sup>4</sup> Perinatal deaths include late fetal deaths (28 or more weeks gestation) plus early neonatal deaths (under 7 days of age).

<sup>5</sup> Infant deaths are period events that occurred in the reporting period and are from the annual mortality file.

NOTE: Counts based on <20 events should not be used to calculate rates due to instability of the estimates.

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		Births to MN County Residents			Births Occurring in EACH County				
		a	across Place of Birth		acro	ss Place of Resid			
				y of Residence		Other	Out of		
		Within	Within	Outside		Minnesota	State		
County	Total <sup>1</sup>	County	Minnesota	Minnesota	Total <sup>2</sup>	Residents	Residents		
State Total	64,444	37,482	24,408	2,554	63,520	24,408	1,630		
Aitkin	97	48	49	0	62	14	0		
Anoka	4,189	1,764	2,414	11	2,934	1,158	12		
Becker	359	242	59	58	450	206	2		
Beltrami	580	532	31	17	827	292	3		
Benton	476	15	461	0	15	0	0		
Big Stone	62	43	7	12	98	26	29		
Blue Earth	701	626	71	4	1,349	717	6		
Brown	266	212	53	1	378	166	0		
Carlton	385	79	306	0	159	79	1		
Carver	1,207	656	549	2	1,447	790	1		
Cass	278	2	273	3	2	0	0		
Chippewa	168	90	72	6	149	59	0		
Chisago	600	262	279	59	545	270	13		
Clay	828	11	30	787	11	0	0		
Clearwater	85	12	69	4	12	0	0		
Cook	33	2	31	0	2	0	0		
Cottonwood	145	73	47	25	106	33	0		
Crow Wing	626	437	189	0	612	173	2		
Dakota	5,036	1,928	3,083	25	3,017	1,047	42		
Dodge	265	4	260	1	4	0	0		
Douglas	399	347	47	5	599	252	0		
Faribault	125	46	77	2	102	50	6		
Fillmore	242	35	158	49	35	0	0		
Freeborn	309	7	296	6	7	0	0		
Goodhue	492	171	315	6	272	59	42		
Grant	70	0	66	4	0	0	0		
Hennepin	14,722	12,958	1,723	41	20,412	7,329	125		
Bloomington	, 931	7	922	2	7	0	0		
Edina	447	226	220	1	226	2,884	13		
Minneapolis	4,949	3,015	1,919	15	3,015	5,305	102		
Richfield	445	2	442	1	2	0	0		
Houston	164	0	8	156	0	0	0		
Hubbard	221	83	127	11	110	27	0		
santi	478	182	292	4	299	115	2		
tasca	381	297	81	3	379	80	2		
lackson	103	1	65	37	1	0	0		
Kanabec	168	103	65	0	230	127	0		
Kandiyohi	521	422	95	4	544	121	1		
Kittson	40	2	14	24	2	0	0		
Koochiching	103	3	98	2	3	0	0		
ac Qui Parle	70	2	52	16	3	1	0		
_ake	83	4	79	0	4	0	0		
ake of the Woods	38	1	37	0	1	0	0		
Le Sueur	318	1	317	0	1	0	0		
Lincoln	68	2	31	35	2	0	0		
Lyon	334	258	18	58	415	156	1		
McLeod	378	238	146	0	384	130	3		
Mahnomen	67	232	57	8	2	0	0		

Table 1. Resident Live Births Distributed by County of Occurrence (n=64,449); Live Births by County of Occurrence	
Distributed by Residence (n=63,520), Minnesota 2021.	

Annual Summary

			to MN County Re across Place of Bin			Occurring in EACH loss Place of Reside	-
			Outside Count	y of Residence		Other	Out of
		Within	Within	Outside		Minnesota	State
County	Total <sup>1</sup>	County	Minnesota	Minnesota	Total <sup>2</sup>	Residents	Residents
Marshall	105	5	47	53	5	0	0
Martin	222	133	87	2	169	28	8
Meeker	253	99	154	0	121	21	1
Mille Lacs	289	24	265	0	86	61	1
Morrison	343	84	258	1	99	15	0
Mower	490	352	136	2	647	250	45
Murray	79	1	50	28	1	0	0
Nicollet	317	13	303	1	52	38	1
Nobles	380	259	30	91	350	80	11
Norman	76	1	8	67	1	0	0
Olmsted	1,988	1,955	24	9	3,332	1,222	155
Otter Tail	637	369	212	56	471	97	5
Pennington	158	121	6	31	234	110	3
Pine	298	6	291	1	6	0	0
Pipestone	142	63	31	48	90	23	4
Polk	362	113	25	224	149	34	2
Pope	127	56	70	1	115	59	0
Ramsey	6,641	4,350	2,266	25	8,823	4,227	246
St. Paul	4,125	4,330 2,096	2,011	18	2,096	4,195	198
Red Lake	<i>4,125</i> 51	2,050	34	13	2,050	4,199 0	0
Redwood	194	84	104	6	108	24	0
Renville	134	32	104	1	45	12	1
Rice	656	223	433	0	288	64	1
Rock	104	32	455	70	111	65	14
	104	146	18	16	111	29	6
Roseau			35				
St. Louis	1,841	1,800		6	2,806	551	455
Duluth	1,043	1,027	14	2	1,027	856	455
Scott	1,727	639	1,086	2	1,031	388	4
Sherburne	1,167	127	1,038	2	344	216	1
Sibley	187	2	185	0	2	0	0
Stearns	1,963	1,756	202	5	2,958	1,197	5
Steele	436	297	137	2	464	166	1
Stevens	112	61	45	6	86	25	0
Swift	110	0	109	1	0	0	0
Fodd	313	195	115	3	590	393	2
Traverse	33	0	18	15	0	0	0
Wabasha	222	2	215	5	2	0	0
Wadena	190	59	127	4	135	75	1
Naseca	196	2	193	1	2	0	0
Washington	2,795	1,049	1,704	42	2,586	1,197	340
Watonwan	172	2	169	1	2	0	0
Wilkin	69	2	8	59	2	0	0
Winona	430	178	115	137	216	17	21
Wright	1,865	575	1,287	3	793	216	2
Yellow Medicine	110	14	68	28	27	12	1

## Table 1. Resident Live Births Distributed by County of Occurrence (n=64,449); Live Births by County of Occurrence Distributed by Residence (n=63,520), Minnesota 2021.

<sup>1</sup> Missing county of residence or occurrence is not included in this data.

<sup>2</sup> Total births occurring in each county includes births to MN county residents within county of residence (second column).

					Non-H	lispanic								
	w	hite	African	American		an Indian		/Pacific nder	Mult	iracial	– Hispani	ic/Latino	то	TAL
Total births in each group	43,	.595	7,594		792		4,	903	2,064		5,342		64,	449
	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %
Age of Mother <sup>1</sup>														
< 18 years	139	0.3%	85	1.1%	26	3.3%	19		54	2.6%	120	2.2%	445	0.7%
18-19 years	456	1.0%	207	2.7%	52	6.6%	55	1.1%	98	4.7%	271	5.1%	1,143	1.8%
Teen Mom Total	595	1.4%	292	3.8%	78	9.8%	74	1.5%	152	7.4%	391	7.3%	1,588	2.5%
20-24 years	4,224	9.7%	1,150	15.1%	207	26.1%	526	10.7%	449	21.8%	1,301	24.4%	7,873	12.2%
25-29 years	12,416	28.5%	2,025	26.7%	192	24.2%	1,347	27.5%	586	28.4%	1,510	28.3%	18,122	28.1%
30-34 years	16,942	38.9%	2,318	30.5%	202	25.5%	1,762	35.9%	557	27.0%	1,234	23.1%	23,057	35.8%
35-39 years	8,005	18.4%	1,447	19.1%	104	13.1%	1,002	20.4%	263	12.7%	723	13.5%	11,581	18.0%
40-44 years	1,334	3.1%	319	4.2%	9		178	3.6%	52	2.5%	170	3.2%	2,073	3.2%
45+ years	73	0.2%	43	0.6%	0		14		5		12		148	0.2%
Educational Attainment <sup>2</sup>														
< High School	687	1.8%	1,449	23.6%	119	23.5%	441	10.2%	145	9.9%	1,001	27.4%	3,855	7.0%
HS Diploma / GED	3,496	9.0%	1,615	26.3%	151	29.8%	680	15.8%	256	17.5%	844	23.1%	7,059	12.8%
Some College, No degree	5,361	13.8%	1,301	21.1%	138	27.2%	596	13.9%	407	27.8%	638	17.5%	8,454	15.4%
Associate Degree	5,320	13.7%	613	10.0%	42	8.3%	407	9.5%	161	11.0%	333	9.1%	6,887	12.5%
Bachelor's Degree	15,457	39.9%	785	12.8%	33	6.5%	1,224	28.4%	311	21.3%	561	15.4%	18,382	33.4%
Graduate / Professional Degree	8,363	21.6%	321	5.2%	16		940	21.8%	178	12.2%	238	6.5%	10,062	18.3%
Unknown	86	0.2%	68	1.1%	8		15		5		34	0.9%	282	0.5%
Urban/Rural Residence <sup>3</sup>														
Large Urban Metro Area	10,932	25.1%	4,381	57.7%	130	16.4%	2,967	60.5%	821	39.8%	2,087	39.1%	21,363	33.1%
Large Suburban Metro Area	14,470	33.2%	1,854	24.4%	71	9.0%	1,380	28.1%	546	26.5%	1,484	27.8%	19,857	30.8%
Medium/ Small Metro Area	7,565	17.4%	1,002	13.2%	126	15.9%	247	5.0%	334	16.2%	451	8.4%	9,754	15.1%
Micropolitan Area	5,446	12.5%	321	4.2%	291	36.7%	215	4.4%	181	8.8%	812	15.2%	7,280	11.3%
Noncore (Rural) Area	5,177	11.9%	35	0.5%	174	22.0%	94	1.9%	181	8.8%	508	9.5%	6,188	9.6%
Natvity Status														
US born	42,256	96.9%	2,839	37.4%	782	98.7%	1,672	34.1%	1,785	86.5%	2,534	47.4%	51,988	80.7%
Foreign-born	1,339	3.1%	4,755	62.6%	10		3,231	65.9%	279	13.5%	2,808	52.6%	12,461	19.3%

#### Table 2. Counts and Percentages for Characteristerics of Birth Mother by Race/Ethnicity, MN Residents, 2021.

<sup>1</sup>Women missing age are not included in this data.

<sup>2</sup> Educational attainment calculated for mothers age 25 years and older.

<sup>3</sup> Missing county of residence is not included in this variable. See Appendix B for more information and definitions of each geographic area type.

					Non-H	ispanic								
-	White African American		America	n Indian	Asian/I Islan		Multir	acial	Hispanic	/Latino	тот	AL		
Total births in each group	43,5	95	7,5	94	79	2	4,90	03	2,06	54	5,34	42	64,4	49
	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %
Previous Live Births														
None	16,513	37.9%	1,887	24.8%	204	25.8%	1,602	32.7%	747	36.2%	1,812	33.9%	22,798	35.4%
One	14,766	33.9%	1,747	23.0%	192	24.2%	1,492	30.4%	604	29.3%	1,548	29.0%	20,381	31.6%
Two or more	12,280	28.2%	3,954	52.1%	395	49.9%	1,807	36.9%	711	34.4%	1,978	37.0%	21,203	32.9%
Prepregnancy BMI <sup>2</sup>														
Underweight (BMI < 19.0)	1,193	2.7%	250	3.3%	14		208	4.2%	71	3.4%	113	2.1%	1,855	2.9%
Acceptable (BMI 19.0 - 24.9)	17,941	41.2%	2,029	26.7%	187	23.6%	2,139	43.6%	643	31.2%	1,555	29.1%	24,548	38.1%
Overweight (BMI 25.0 - 29.9)	11,843	27.2%	2,467	32.5%	198	25.0%	1,464	29.9%	554	26.8%	1,608	30.1%	18,169	28.2%
Obese (BMI 30.0 - 40.9)	10,205	23.4%	2,352	31.0%	292	36.9%	995	20.3%	605	29.3%	1,652	30.9%	16,124	25.0%
Morbidly Obese (BMI > 40.9)	2,034	4.7%	378	5.0%	72	9.1%	60	1.2%	156	7.6%	321	6.0%	3,029	4.7%
Height/weight missing	379	0.9%	118	1.6%	29	3.7%	37	0.8%	35	1.7%	93	1.7%	724	1.1%
Trimester Prenatal Care Began														
First	36,621	84.0%	5,127	67.5%	438	55.3%	3,800	77.5%	1,525	73.9%	3,931	73.6%	51,507	79.9%
Second	3,706	8.5%	1,854	24.4%	164	20.7%	905	18.5%	317	15.4%	1,061	19.9%	8,032	12.5%
Third	593	1.4%	324	4.3%	70	8.8%	119	2.4%	57	2.8%	237	4.4%	1,412	2.2%
No prenatal care	140	0.3%	94	1.2%	65	8.2%	26	0.5%	30	1.5%	56	1.0%	426	0.7%
Out of state births <sup>3</sup>	2,184	5.0%	144	1.9%	42	5.3%	27	0.6%	119	5.8%	13		2,552	4.0%
Prenatal care not reported	351	0.8%	51	0.7%	13		26	0.5%	16		44	0.8%	520	0.8%
Adequacy of Prenatal Care														
None	140	0.3%	94	1.2%	65	8.2%	26	0.5%	30	1.5%	56	1.0%	426	0.7%
Inadequate	2,065	4.7%	1,294	17.0%	208	26.3%	543	11.1%	230	11.1%	790	14.8%	5,157	8.0%
Intermediate	3 <i>,</i> 980	9.1%	1,340	17.6%	101	12.8%	606	12.4%	231	11.2%	643	12.0%	6,910	10.7%
Adequate	21,288	48.8%	2,871	37.8%	246	31.1%	2,217	45.2%	851	41.2%	2,175	40.7%	29,684	46.1%
Intensive	13,442	30.8%	1,789	23.6%	114	14.4%	1,446	29.5%	583	28.2%	1,605	30.0%	19,008	29.5%
Out of state births <sup>3</sup>	2,184	5.0%	144	1.9%	42	5.3%	27	0.6%	119	5.8%	13		2,552	4.0%
Prenatal care not reported	496	1.1%	62	0.8%	16		38	0.8%	20	1.0%	60	1.1%	712	1.1%

#### Table 3. Counts and Percentages<sup>1</sup> for Selected Pregnancy Characteristics by Race/Ethnicity, MN Residents, 2021.

<sup>1</sup>Percentages are column (within each race/ethnicity group) percentages.

<sup>2</sup> BMI = Body Mass Index calculated as weight (kg) / height (meters)<sup>2</sup>.

<sup>3</sup> Out of state births are MN residents giving birth outside the state of MN. Prenatal care data are not available from some states.

					Non-Hi	ispanic								
-	Wh	ite	African A	merican	America	n Indian	Asian/I Islan		Multir	acial	Hispanic	/Latino	тот	AL
- Total births in each group	43,5	95	7,5	94	79.	2	4,90	03	2,00	54	5,34	42	64,44	49
	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %
Birth Attendant <sup>1</sup>														
MD or DO	36,392	83.5%	6,096	80.3%	712	89.9%	4,174	85.1%	1,730	83.8%	4,241	79.4%	53,447	82.9%
Certified Nurse Midwife	6,066	13.9%	1,414	18.6%	66	8.3%	700	14.3%	301	14.6%	1,048	19.6%	9,603	14.9%
Other licensed or lay midwife	355	0.8%	6		0		7		8		6		390	0.6%
Other (RN, EMT, non-med/ or missing)	782	1.8%	78	1.0%	14		22	0.4%	25	1.2%	47	0.9%	1,009	1.6%
Delivery setting <sup>2</sup>														
Hospital	42,092	96.6%	7,512	98.9%	780	98.5%	4,866	99.2%	2,015	97.6%	5,276	98.8%	62,646	97.2%
Free-standing birth center	593	1.4%	35	0.5%	2		16		25	1.2%	35	0.7%	712	1.1%
Home	888	2.0%	42	0.6%	6		20	0.4%	23	1.1%	30	0.6%	1,054	1.6%
Method of Delivery <sup>3</sup>														
Vaginal	30,236	69.4%	4,888	64.4%	524	66.2%	3,579	73.0%	1,404	68.0%	3,713	69.5%	44,449	69.0%
Vaginal Birth after C-Section	711	1.6%	310	4.1%	21	2.7%	124	2.5%	44	2.1%	100	1.9%	1,313	2.0%
C-Section	12,604	28.9%	2,396	31.6%	247	31.2%	1,200	24.5%	616	29.8%	1,528	28.6%	18,627	28.9%
Infant Outcomes														
Gestational Age <sup>4</sup>														
Preterm (< 37 weeks)	3 <i>,</i> 957	9.1%	835	11.0%	114	14.4%	452	9.2%	241	11.7%	549	10.3%	6,166	9.6%
Term (37 - 41 weeks)	39,403	90.4%	6,596	86.9%	662	83.6%	4,433	90.4%	1,807	87.5%	4,771	89.3%	57,795	89.7%
Post Term (42+ weeks)	164	0.4%	153	2.0%	4		15		11		13		365	0.6%
Birthweight⁵														
Very low birth weight	438	1.0%	154	2.0%	14		55	1.1%	28	1.4%	76	1.4%	768	1.2%
Low birth weight	2,272	5.2%	696	9.2%	56	7.1%	370	7.5%	172	8.3%	333	6.2%	3,911	6.1%
Normal birth weight	35 <i>,</i> 935	82.4%	6,159	81.1%	591	74.6%	4,226	86.2%	1,695	82.1%	4,523	84.7%	53,248	82.6%
High birth weight	4,950	11.4%	585	7.7%	131	16.5%	252	5.1%	169	8.2%	410	7.7%	6,522	10.1%
Number of Infants at Birth														
Singleton	42,036	96.4%	7,314	96.3%	774	97.7%	4,796	97.8%	1,991	96.5%	5,222	97.8%	62,285	96.6%
Twins	1,512	3.5%	274	3.6%	18		107	2.2%	73	3.5%	105	2.0%	2,096	3.3%
Triplets or more	47	0.1%	6		0		0		0		15		68	0.1%

#### Table 4. Counts and Percentages for Delivery Characteristics and Infant Outcomes by Race/Ethnicity, MN Residents, 2021.

<sup>1</sup>DO = Doctor of Osteopathy; Certified Nurse Midwife includes Certified Nurse midwives and Certified (non-nurse) Midwives.

<sup>2</sup> Delivery setting missing is not included in this data.

<sup>3</sup> Method of Delivery missing is not included in this data.

<sup>4</sup> Calculated based on clincian's estimate of completed weeks of gestion. Missing gestational age is not included in this data.

<sup>5</sup> Birthweight: VLBW < 1,500 gms (3 lbs 5 oz); LBW < 2,500 (5.5 lbs); normal range 2,500 - 3,900 gms High birthweight 4,000+ grams (8 pounds, 13 ounces). Missing birthweight is not included in this data.

				Metropo	olitan					Non-Metro (Rura	•			
	Large C	entral	Large F	ringe	Med	ium	Sma	all	Microp	olitan	Non-	Core	τοτΑ	4L <sup>2</sup>
– Total births in each group	21,3	63	19,8	57	2,22	26	7,52	28	7,2	80	6,1		64,44	42
	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %
Previous Live Births														
None	8,252	38.6%	6,821	34.4%	844	37.9%	2,567	34.1%	2,347	32.2%	1,964	31.7%	22,795	35.4%
One	6,578	30.8%	6,652	33.5%	747	33.6%	2,316	30.8%	2,237	30.7%	1,851	29.9%	20,381	31.6%
Two or more	6,514	30.5%	6,367	32.1%	632	28.4%	2,640	35.1%	2,686	36.9%	2,361	38.2%	21,200	32.9%
Prepregnancy BMI <sup>3</sup>														
Underweight (BMI < 19.0)	702	3.3%	519	2.6%	56	2.5%	228	3.0%	188	2.6%	162	2.6%	1,855	2.9%
Acceptable (BMI 19.0 - 24.9)	8,884	41.6%	7,548	38.0%	842	37.8%	2,811	37.3%	2,447	33.6%	2,014	32.5%	24,546	38.1%
Overweight (BMI 25.0 - 29.9)	6,031	28.2%	5,698	28.7%	644	28.9%	2,126	28.2%	2,002	27.5%	1,667	26.9%	18,168	28.2%
Obese (BMI 30.0 - 40.9)	4,736	22.2%	4,963	25.0%	528	23.7%	1,954	26.0%	2,094	28.8%	1,848	29.9%	16,123	25.0%
Morbidly Obese (BMI > 40.9)	734	3.4%	908	4.6%	141	6.3%	365	4.8%	480	6.6%	400	6.5%	3,028	4.7%
Height/weight missing	276	1.3%	221	1.1%	15		44	0.6%	69	0.9%	97	1.6%	722	1.1%
Trimester Prenatal Care Began														
First	17,164	80.3%	16,854	84.9%	1,935	86.9%	5,360	71.2%	5,673	77.9%	4,517	73.0%	51,503	79.9%
Second	3,252	15.2%	2,266	11.4%	223	10.0%	738	9.8%	820	11.3%	732	11.8%	8,031	12.5%
Third	581	2.7%	341	1.7%	29	1.3%	121	1.6%	182	2.5%	157	2.5%	1,411	2.2%
No prenatal care	189	0.9%	64	0.3%	17		39	0.5%	69	0.9%	48	0.8%	426	0.7%
Out of state births <sup>4</sup>	65	0.3%	150	0.8%	6		1,240	16.5%	447	6.1%	644	10.4%	2,552	4.0%
Prenatal care not reported	112	0.5%	182	0.9%	16		30	0.4%	89	1.2%	90	1.5%	519	0.8%
Adequacy of Prenatal Care														
None	189	0.9%	64	0.3%	17		39	0.5%	69	0.9%	48	0.8%	426	0.7%
Inadequate	2,159	10.1%	1,356	6.8%	132	5.9%	412	5.5%	598	8.2%	498	8.0%	5,155	8.0%
Intermediate	2,385	11.2%	2,091	10.5%	221	9.9%	964	12.8%	722	9.9%	526	8.5%	6,909	10.7%
Adequate	9,493	44.4%	9,817	49.4%	1,179	53.0%	3,177	42.2%	3,301	45.3%	2,716	43.9%	29,683	46.1%
Intensive	6,920	32.4%	6,104	30.7%	650	29.2%	1,655	22.0%	2,030	27.9%	1,647	26.6%	19,006	29.5%
Out of state births <sup>4</sup>	65	0.3%	150	0.8%	6		1,240	16.5%	447	6.1%	644	10.4%	2,552	4.0%
Prenatal care not reported	152	0.7%	275	1.4%	21	0.9%	41	0.5%	113	1.6%	109	1.8%	711	1.1%

#### Table 5. Counts and Percentages<sup>1</sup> for Selected Pregnancy Characteristics by Urban/Rural Residence,<sup>2</sup> MN Residents, 2021.

<sup>1</sup> Percentages are column (within each urban/rural group) percentages.

<sup>2</sup> Missing county of residence and are not included in this data.

<sup>3</sup> BMI = Body Mass Index calculated as weight (kg) / height (meters)<sup>2</sup>.

<sup>4</sup> Out of state births are MN residents giving birth outside the state of MN. Prenatal care data are not available from some states.

		-		Metropo	olitan	-				Non-Metro (Rura	•			
-	Large C	entral	Large F	ringe	Medi	um	Sma	all	Microp	olitan	Non-C	Core	τοτα	AL <sup>2</sup>
Total births in each group	21,3	63	19,8	57	2,22		7,52	28	7,28	30	6,18	38	64,44	42
	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %
Birth Attendant <sup>3</sup>														
MD or DO	17,118	80.1%	16,979	85.5%	2,003	90.0%	5,796	77.0%	6,256	85.9%	5,288	85.5%	53,440	82.9%
Certified Nurse Midwife	3,944	18.5%	2,512	12.7%	168	7.5%	1,483	19.7%	809	11.1%	687	11.1%	9,603	14.9%
Other licensed or lay midwife	69	0.3%	100	0.5%	30	1.3%	56	0.7%	61	0.8%	74	1.2%	390	0.6%
Other (RN, EMT, non-med/ or missing)	232	1.1%	266	1.3%	25	1.1%	193	2.6%	154	2.1%	139	2.2%	1,009	1.6%
Delivery setting <sup>4</sup>														
Hospital	20,781	97.3%	19,332	97.4%	2,176	97.8%	7,316	97.2%	7,069	97.1%	5,965	96.4%	62,639	97.2%
Free-standing birth center	366	1.7%	252	1.3%	4		40	0.5%	26	0.4%	24	0.4%	712	1.1%
Home	208	1.0%	259	1.3%	43	1.9%	170	2.3%	180	2.5%	194	3.1%	1,054	1.6%
Method of Delivery <sup>5</sup>														
Vaginal	14,737	69.0%	13,543	68.2%	1,551	69.7%	5,274	70.1%	5,114	70.2%	4,226	68.3%	44,445	69.0%
Vaginal Birth after C-Section	482	2.3%	374	1.9%	49	2.2%	150	2.0%	155	2.1%	102	1.6%	1,312	2.0%
C-Section	6,134	28.7%	5,927	29.8%	625	28.1%	2,096	27.8%	1,989	27.3%	1,854	30.0%	18,625	28.9%
Infant Outcomes														
Gestational Age <sup>6</sup>														
Preterm (< 37 weeks)	2,137	10.0%	1,853	9.3%	223	10.0%	640	8.5%	681	9.4%	631	10.2%	6,165	9.6%
Term (37 - 41 weeks)	19,021	89.0%	17,907	90.2%	1,991	89.4%	6,823	90.6%	6,540	89.8%	5,507	89.0%	57,789	89.7%
Post Term (42+ weeks)	177	0.8%	73	0.4%	6		48	0.6%	30	0.4%	31	0.5%	365	0.6%
Birthweight <sup>7</sup>														
Very low birth weight	282	1.3%	240	1.2%	19		67	0.9%	86	1.2%	74	1.2%	768	1.2%
Low birth weight	1,496	7.0%	1,105	5.6%	156	7.0%	436	5.8%	385	5.3%	333	5.4%	3,911	6.1%
Normal birth weight	17,669	82.7%	16,379	82.5%	1,808	81.2%	6,238	82.9%	6,052	83.1%	5,095	82.3%	53,241	82.6%
High birth weight	1,916	9.0%	2,133	10.7%	243	10.9%	787	10.5%	757	10.4%	686	11.1%	6,522	10.1%
Number of Infants at Birth														
Singleton	20,650	96.7%	19,118	96.3%	2,158	96.9%	7,309	97.1%	7,069	97.1%	5,974	96.5%	62,278	96.6%
Twins	695	3.3%	708	3.6%	68	3.1%	216	2.9%	203	2.8%	206	3.3%	2,096	3.3%
Triplets or more	18		31	0.2%	0		3		8		8		68	0.1%

#### Table 6. Counts and Percentages<sup>1</sup> for Delivery Characteristics and Infant Outcomes by Urban/Rural Residence, MN Residents, 2021.

<sup>1</sup> Percentages are column (within each urban/rural group) percentages.

<sup>2</sup> Missing county of residence is not included in this data.

<sup>3</sup> DO = Doctor of Osteopathy; Certified Nurse Midwife includes Certified Nurse midwives and Certified (non-nurse) Midwives.

<sup>4</sup> Delivery setting missing is not included in this data.

<sup>5</sup> Method of Delivery missing is not included in this data.

<sup>6</sup> Calculated based on clincian's estimate of completed weeks of gestion. Missing gestational age is not included in this data.

<sup>7</sup> Birthweight: VLBW < 1,500 gms (3 lbs 5 oz); LBW < 2,500 (5.5 lbs); normal range 2,500 - 3,900 gms High birthweight 4,000+ grams (8 pounds, 13 ounces). Missing birth weight is not included in this

data. Annual Summary

	Vagi	nal	VB	AC	C-Sec	tion
	#	Row %	#	Row %	#	Row %
All Births	44,449	69.0%	1,313	2.0%	18,627	28.9%
Race / Ethnicity						
White	30,236	69.4%	711	1.6%	12,604	28.9%
African American	4,888	64.4%	310	4.1%	2,396	31.6%
American Indian	524	66.2%	21	2.7%	247	31.2%
Asian/Pacific Islander	3 <i>,</i> 579	73.0%	124	2.5%	1,200	24.5%
Multiracial	1,404	68.0%	44	2.1%	616	29.8%
Other/Unknown	105	72.9%	3		36	25.0%
Hispanic/Latino	3,713	69.5%	100	1.9%	1,528	28.6%
Age of Mother						
< 18 years	361	81.1%	1		83	18.7%
18-19 years	929	81.3%	1		212	18.6%
Teen Mom Total	1,290	81.3%	2		295	18.6%
20-24 years	5 <i>,</i> 986	76.1%	76	1.0%	1,805	22.9%
25-29 years	13,278	73.3%	320	1.8%	4,510	24.9%
30-34 years	15,642	67.9%	536	2.3%	6,861	29.8%
35-39 years	7 <i>,</i> 079	61.2%	309	2.7%	4,180	36.1%
40-44 years	1,104	53.5%	65	3.1%	896	43.4%
45+ years	64	43.2%	5		79	53.4%
Educational Attainment <sup>2</sup>						
< High School	4,295	71.7%	177	3.0%	1,519	25.4%
HS Diploma / GED	7,341	69.1%	244	2.3%	3,037	28.6%
Some College, No degree	7,271	68.0%	216	2.0%	3,210	30.0%
Associate Degree	5,191	68.0%	133	1.7%	2,306	30.2%
Bachelor's Degree	13,254	69.6%	343	1.8%	5,434	28.6%
Graduate / Professional Degree	6,876	68.1%	189	1.9%	3,032	30.0%
Unknown	221	68.8%	11		89	27.7%
Prepregnancy BMI						
Underweight (BMI < 19.0)	1,489	80.4%	16		346	18.7%
Acceptable (BMI 19.0 - 24.9)	18,544	75.6%	478	1.9%	5,501	22.4%
Overweight (BMI 25.0 - 29.9)	12,527	69.0%	425	2.3%	5,209	28.7%
Obese (BMI 30.0 - 40.9)	9 <i>,</i> 877	61.3%	334	2.1%	5,910	36.7%
Morbidly Obese (BMI > 40.9)	1,517	50.1%	42	1.4%	1,470	48.5%
Height or weight not reported	495	70.3%	18		191	27.1%
Adequacy of Prenatal Care <sup>3</sup>						
No Prenatal Care	285	67.5%	17		120	28.4%
Inadequate	3,605	70.4%	161	3.1%	1,358	26.5%
Intermediate	5,140	74.4%	169	2.4%	1,599	23.1%
Adequate	21,471	72.3%	617	2.1%	, 7,592	25.6%
Intensive	11,666	61.4%	333	1.8%	7,009	36.9%
Out of state births <sup>4</sup>	1,778	69.8%	0		771	30.2%
Previous Live Births	_,5	/ •	5			
No previous births	15 700	60.0%	4		7 062	21 00/
One previous live birth	15,728	69.0%		2.2%	7,062	31.0%
Two or more previous births	13,863 14,826	68.0% 70.0%	444 863	2.2% 4.1%	6,068 5,482	29.8% 25.9%

#### Table 7. Route of Delivery<sup>1</sup> by Characteristics of Women Giving Birth, MN Residents, 2021.

NOTE: Row percentages (route of delivery within each category). Missing data for each variable not included except where shown. -- are not calcuated due to < 20 count.

<sup>1</sup> Route of delivery missing is not included in this data. VBAC = Vaginal Birth after [previous] Cesareansection.

<sup>2</sup> Educational attainment reported for mothers age 25 years and older.

<sup>3</sup> Adequacy is determined using the Adequacy of Prenatal Care Utilization (APNCU) Index and is not

comparable to GINDEX Index used in previous years. See glossary for definitions.

<sup>4</sup> Out of state births are MN residents giving birth outside the state of MN. Prenatal care data not available from some states.

		erm <sup>2</sup>	Low Birt	hweight <sup>3</sup>	High Birt	hweight <sup>3</sup>
	#	Row %	#	Row %	#	Row %
All Births	6,166	9.6%	4,679	7.3%	6,467	10.0%
Race and Ethnicity						
White	3,957	9.1%	2,710	6.2%	4,918	11.3%
African American	835	11.0%	850	11.2%	577	7.6%
American Indian	114	14.6%	70	8.8%	130	16.4%
Asian/Pacific Islander	452	9.2%	425	8.7%	250	5.1%
Multiracial	241	11.7%	200	9.7%	168	8.1%
Other/Unknown	18		15		23	14.5%
Hispanic/Latino	549	10.3%	409	7.7%	401	7.5%
Age of Mother						
< 18 years	40	9.1%	41	9.2%	27	6.1%
18-19 years	103	9.0%	105	9.2%	72	6.3%
Teen Mom Total	143	9.0%	146	9.2%	99	6.2%
20-24 years	775	9.9%	631	8.0%	623	7.9%
25-29 years	1,501	8.3%	1,165	6.4%	1,723	9.5%
30-34 years	2,167	9.4%	1,584	6.9%	2,532	11.0%
35-39 years	1,262	10.9%	935	8.1%	1,261	10.9%
40-44 years	277	13.4%	193	9.3%	215	10.4%
45+ years	40	27.2%	24	16.2%	14	
Educational Attainment <sup>4</sup>						
< High School	575	9.6%	517	8.6%	493	8.2%
HS Diploma / GED	1,100	10.4%	948	8.9%	887	8.3%
Some College, No degree	1,203	11.3%	883	8.3%	1,035	9.7%
Associate Degree	759	10.0%	537	7.0%	796	10.4%
Bachelor's Degree	1,619	8.5%	1,166	6.1%	2,140	11.2%
Graduate / Professional Degree	868	8.6%	599	5.9%	1,088	10.8%
Unknown	42	13.3%	29	8.8%	28	8.5%
Prepregnancy BMI						
Underweight (BMI < 19.0)	150	8.1%	181	9.8%	61	3.3%
Acceptable (BMI 19.0 - 24.9)	2,005	8.2%	1,656	6.7%	1,994	8.1%
Overweight (BMI 25.0 - 29.9)	1,664	9.2%	1,271	7.0%	1,905	10.5%
Obese (BMI 30.0 - 40.9)	1,810	11.2%	1,231	7.6%	2,009	12.5%
Morbidly Obese (BMI > 40.9)	402	13.3%	252	8.3%	422	13.9%
Height or weight not reported	135	19.8%	88	12.2%	76	10.5%
Adequacy of Prenatal Care <sup>5</sup>						
None	118	31.4%	85	20.0%	23	5.4%
Inadequate	514	10.0%	459	8.9%	432	8.4%
Intermediate	366	5.3%	283	4.1%	781	11.3%
Adequate	1,061	3.6%	943	3.2%	3,427	11.5%
Intensive	3,651	19.2%	2,549	13.4%	1,457	7.7%
Out of state births	373	14.6%	294	11.5%	260	10.2%
Previous Live Births						
No previous births	2,295	10.1%	1,976	8.7%	1,789	7.8%
One previous birth	1,723	8.5%	1,970	6.0%	2,249	11.0%
Two or more previous births	2,142	8.5% 10.1%	1,231 1,467	6.9%	2,249 2,421	11.0%

## Table 8. Counts and Percentages<sup>1</sup> of Selected Birth Outcomes by Demographic Characteristics of Women Giving Birth, MN Residents, 2021.

<sup>1</sup>Percentages are row percentages (outcome within each characteristic category).

<sup>2</sup> Preterm are infants born after 20 weeks but before 37 weeks of gestation.

<sup>3</sup> Low birthweight < 2,500 grams (5.5 pounds). High birthweight >= 4,000 grams (8 pounds, 13 ounces). Missing birthweight is not included in this data.

<sup>4</sup> Educational attainment reported for mothers age 25 years and older.

<sup>5</sup> Adequacy is determined using the Adequacy of Prenatal Care Utilization (APNCU) Index, and is not comparable to GINDEX Index used in previous years. See glossary for for more information. Out of state births are MN residents giving birth outside the state of MN. Prenatal care data not available from some states. Missing data is not included in this variable.

	Number that sel	ected <sup>1</sup>
	each checkb	
	2020	2021
Race Checkboxes		
White	46,902	48,269
African American	4,979	4,776
Somali	2,559	2,378
Ethiopian	714	700
Liberian	336	325
Sudanese	74	75
Nigerian	141	121
Other African	653	692
American Indian	1,625	1,640
Asian Indian	833	820
Chinese	374	330
Filipino	246	276
Japanese	90	95
Korean	257	247
Vietnamese	357	326
Hmong	2,174	2,111
Cambodian	188	151
Laotian	164	157
Other Asian	767	784
Hawaiian	22	19
Other Pacific Islander	95	110
Guamanian/Chamorro	19	15
Samoan	8	4
Other Race	2,280	2,406
Unknown Race	188	203
Hispanic/Latino Checkboxes		
Mexican	3,279	3,371
Cuban	62	48
Puerto Rican	240	252
Other Hispanic	1,598	1,671
Not Hispanic/Latino	57,186	57,873
Unknown/Nothing Selected	1,097	1,234

Table 9. Number of Race and Hispanic Checkboxes Selected by Women Who Gave Birth, Minnesota Residents, 2021.

<sup>1</sup> More than one category may be selected, thus counts sum to more than the Minnesota resident birth total. **Note:** Categories correspond to those listed on the birth certificate worksheet and are self-selected by each woman. Counts are the number of records on which that checkbox was indicated. Race(s) chosen do not necessarily correspond to birth country of mother.

**Note:** Classification of the checkboxes changed from 2016 to 2017. In 2016, all checkboxes selected were documented regardless of other information provided by the woman. In 2017, checkboxes are edited and corrected for inconsistencies to reflect complete race/ethnicity information provided by each woman. Edited codes are the national standard for reporting vital statistics by race/ethnicity.

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Woman's Birth Country	Number of Women Born in Each Country
United States	51,988
Foreign-Born	12,461
Somalia	2,123
Mexico	1,327
Ethiopia	955
Thailand	771
India	678
Kenya	532
Guatemala	433
Liberia	357
Laos	312
Myanmar (Burma)	301
El Salvador	254
Ecuador	243
Vietnam	225
Canada	209
Honduras	192
South Korea	191
Philippines	190
China	188
Russia	132
Nigeria	129
Ukraine	117
Germany	110
Cameroon	90
Brazil	78
Colombia	78
Ghana	78
All Others	2,168

Table 10. Live Births by Birth Country<sup>1</sup> of Women Giving Birth, MN Residents, 2021.

<sup>1</sup> The list represents home countries of women giving birth where there were at least 75 women from that country.

	Total	% that Smoked	d Before or	% Smokers	that Quit	% Smokers	that Quit
	Births	During Pre	gnancy	Prior to Pr	egnancy	During Pre	egnancy
		#	%	#	%	#	%
All Births	64,449	4,690	7.3%	1,064	22.7%	726	15.5%
Race and Ethnicity							
White	43,595	3,303	7.6%	780	23.6%	507	15.3%
African American	7,594	352	4.6%	61	17.3%	53	15.1%
American Indian	792	324	40.9%	39	12.0%	49	15.1%
Asian/Pacific Islander	4,903	126	2.6%	52	41.3%	24	19.0%
Multiracial	2,064	366	17.7%	72	19.7%	57	15.6%
Other/Unknown	159	4		0		0	
Hispanic/Latino	5,342	215	4.0%	60	27.9%	36	16.7%
Age of Mother							
< 18 years	445	24	5.4%	2		9	
18-19 years	1,143	169	14.8%	44	26.0%	35	20.7%
20-24 years	7,873	961	12.2%	243	25.3%	176	18.3%
25-29 years	18,122	1,407	7.8%	327	23.2%	208	14.8%
30-34 years	23,057	1,363	5.9%	306	22.5%	194	14.2%
35-39 years	11,581	658	5.7%	129	19.6%	86	13.1%
40+ years	2,221	108	4.9%	13		18	
Trimester PNC began							
First	51,507	3,320	6.4%	871	26.2%	522	15.7%
Second	8,032	699	8.7%	105	15.0%	115	16.5%
Third	1,412	222	15.7%	17		36	16.2%
None	426	156	36.6%	9		8	
Out of state births <sup>2</sup>	2,552	243	9.5%	49	20.2%	41	16.9%
Not reported	520	50	9.6%	13		4	
Delivery Method							
Vaginal	44,449	3,061	6.9%	686	22.4%	500	16.3%
VBAC <sup>3</sup>	1,313	85	6.5%	16		16	
C-section	18,627	1,544	8.3%	362	23.4%	210	13.6%
Preterm							
< 37 weeks	6,166	627	10.2%	106	16.9%	90	14.4%
Low Birth Weight							
< 2500 grams	4,679	595	12.7%	84	14.1%	93	15.6%

Table 11. Selected Characteristics and Outcomes for Women Who Smoked Before or During Pregnancy,MInnesota Residents, 2021.

<sup>1</sup>Percentages are row percentages (smoking within each characteristic category). -- are not calcuated due to < 20 count.

<sup>2</sup>Out of state births are MN residents giving birth outside the state of MN. Prenatal care data not available from some states.

<sup>3</sup> VBAC - Vaginal Birth After [previous] Cesarean-Section.

		th Purality		
	Total	Singleton	Twin	Triplet+ <sup>2</sup>
Pregnancies <sup>1</sup>				
Total pregnancies	63,363	62290	1050	23
# resulting from infertility treatments	1,795	1619	166	10
% resulting from infertility treatments	2.8%	2.6%	15.8%	
Age of Mother				
<20 years	0	0	0	0
20-24 years	26	21	5	0
25-29 years	237	207	28	2
30-34 years	655	582	70	3
35-39 years	610	561	46	3
40-44 years	220	207	12	1
45+ years	46	40	5	1
Treatment Type				
Drugs/Artificial Insemination Only	457	405	49	3
Assisted Reproductive Technologies Only	1,309	1,185	117	7
Both Methods	10	10	0	0
Method Not Specified	19	19	0	0

#### Table 12. Pregnancies Resulting from Infertility Treatments, MN Residents, 2021.

<sup>1</sup>Number of pregnancies, not number of births. Each mother is counted only once regardless of the plurality of the pregnancy.

 $^{2}$  Due to the small numbers triplets or more are combined. -- rates not calculated due to < 20.

## **Fertility Tables**

Table 1: Pregnancies, Pregnancy Outcome, Birth/Fertility Rates, Minnesota Residents, 2006 - 2021Table 2: Pregnancies and Pregnancy Rates by Age of Mother, Minnesota Residents, 2010 - 2021



	Total Reported Pregnancies <sup>1</sup>	Live Births	Induced Abortions	Fetal Deaths <sup>2</sup>	Female <sup>3</sup> Population Ages 15-44	Pregnancy Rate <sup>4</sup>	Fertility Rate⁵
Year							
2006	86,814	73,515	12,948	351	1,070,877	81.1	68.6
2007	86,832	73,675	12,770	387	1,058,541	82.0	69.6
2008	84,653	72,382	11,896	375	1,048,477	80.7	69.0
2009	82,353	70,617	11,391	345	1,046,457	78.7	67.5
2010	79,329	68,407	10,570	352	1,045,681	75.9	65.4
2011	78,942	68,416	10,150	376	1,044,201	75.6	65.5
2012	78,906	68,783	9,758	365	1,046,298	75.4	65.7
2013	78,600	69,183	9,030	387	1,049,636	74.9	65.9
2014	79,534	69,916	9,180	438	1,053,340	75.5	66.4
2015	79,197	69 <i>,</i> 835	8,898	464	1,054,063	75.1	66.3
2016	79,219	69,746	9,053	420	1,054,178	75.1	66.2
2017	78,227	68,603	9,218	406	1,066,806	73.3	64.3
2018	76,636	67,348	8,896	392	1,074,005	71.4	62.7
2019	75,430	66,033	9,034	363	1,081,656	69.7	61.0
2020	72,039	63,462	8,251	326	1,087,455	66.2	58.4
2021	73,898	64,449	9,127	322	1,100,012	67.2	58.6
Race/ethnicity							
White, non-Hispanic (NH)	47,375	43,595	3,606	174	805,674	58.8	54.1
Black, NH	10,323	7,594	2,661	68	93,553	110.3	81.2
American Indian, NH	985	792	185	8	13,164	74.8	60.2
Asian/Pacific Islander, NH	5,536	4,903	620	13	78,974	70.1	62.1
Multiracial, NH	2,649	2,064	572	13	31,984	82.8	64.5
Other/Unknown, NH	690	159	517	14	N/A <sup>6</sup>		
Hispanic (any race)	6,340	5,342	966	32	76,663	82.7	69.7
Woman's age group <sup>7</sup>							
<15 years	44	26	18	0	N/A <sup>6</sup>		
, 15-19 years	2,333	1,562	751	20	183,825	12.7	8.5
20-24 years	10,386	7,873	2,478	35	175,234	59.3	44.9
25-29 years	20,729	18,122	2,517	90	180,099	115.1	100.6
30-34 years	25,047	23,057	1,905	85	185,979	134.7	124.0
35-39 years	12,728	11,581	1,087	60	195,187	65.2	59.3
40-44 years	2,440	2,073	343	24	179,688	13.6	11.5
45+ years	171	148	15	8	N/A <sup>6</sup>		

Fertility Table 1. Total Reported Pregnancies by Pregnancy Outcome, Pregnancy Rate, and Fertility Rate, MN Residents, 2006 - 2021.

<sup>1</sup>Includes Live Births, Fetal Deaths and Induced Abortions.

<sup>2</sup> Fetal Deaths of less than 20 weeks gestation are not included in the counts.

<sup>3</sup> Female population for race/ethnicity and age groups retrieved from CDC WONDER: <u>https://wonder.cdc.gov/wonder/help/single-race.html</u> Single-Race Population Estimates.

<sup>4</sup> Number of pregnancies per 1,000 women ages 15 - 44 years.

<sup>5</sup> Number of live births per 1,000 women ages 15 - 44 years.

<sup>6</sup> Population estimates for these age groups not calculated because population denominator data not available.

<sup>7</sup> Missing age is not included in this data.

Year/	Tatal	Age of Woman										
Event	Total —	<15	15-19	20-24	25-29	30-34	35-39	40+	Unkwr			
2010												
Reported Pregnancies <sup>1</sup>	79,329	89	5,351	16,455	25,102	21,031	9,023	2,275	3			
Age Specific Pregnancy Rate <sup>2</sup>	75.9	***	29.9	94.1	135.6	124.9	55.6	13.0	***			
2011												
Reported Pregnancies <sup>1</sup>	78,942	72	4,743	15,622	24,946	22,090	9,102	2,356	11			
Age Specific Pregnancy Rate <sup>2</sup>	75.6	***	26.4	90.6	134.9	125.9	57.9	13.5	***			
2012												
Reported Pregnancies <sup>1</sup>	78,906	77	4,392	15,501	24,543	22,865	9,189	2,333	6			
Age Specific Pregnancy Rate <sup>2</sup>	75.4	***	24.7	88.7	134.3	126.1	58.4	13.5	***			
2013												
Reported Pregnancies <sup>1</sup>	78,600	57	3,878	14,698	24,416	23,771	9,604	2,174	2			
Age Specific Pregnancy Rate <sup>2</sup>	74.9	* * *	22.1	82.7	135.5	128.0	59.6	12.9	***			
2014												
Reported Pregnancies <sup>1</sup>	79,534	53	3,561	14,330	24,435	24,726	10,182	2,243	4			
Age Specific Pregnancy Rate <sup>2</sup>	75.5	***	20.4	80.0	135.9	131.0	61.5	13.6	***			
2015												
Reported Pregnancies <sup>1</sup>	79,197	38	3,161	13,534	24,119	25,357	10,805	2,181	2			
Age Specific Pregnancy Rate <sup>2</sup>	75.1	***	18.1	75.2	135.7	133.2	63.2	13.6	***			
2016												
Reported Pregnancies <sup>1</sup>	79,219	41	3,004	12,939	23,975	25,552	11,453	2,255	0			
Age Specific Pregnancy Rate <sup>2</sup>	75.1	***	17.2	71.9	135.1	134.8	64.8	14.4	***			
2017		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+/unk			
Reported Pregnancies <sup>3</sup>	78,227	25	2,878	12,442	23,314	25,519	11,683	2,155	175			
Age Specific Pregnancy Rate <sup>2</sup>	73.3	***	16.4	69.4	129.0	138.4	63.4	13.7	***			
2018		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+/unk			
Reported Pregnancies <sup>3</sup>	76,636	33	2,496	11,610	22,908	25,251	11,988	2,135	208			
Age Specific Pregnancy Rate <sup>2</sup>		***	14.3	65.3	125.2	133.9	63.6	13.3	***			
2019		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+/unk			
Reported Pregnancies <sup>3</sup>	75,430	36	2,544	11,289	21,773	25,171	12,170	2,231	216			
Age Specific Pregnancy Rate <sup>2</sup>		***	14.5	63.5	119.0	133.4	64.5	13.9	***			
2020		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+/unk			
Reported Pregnancies <sup>3</sup>	72,039	42	2,309	10,500	20,790	24,101	11,787	2,320	190			
Age Specific Pregnancy Rate <sup>2</sup>		***	13.2	59.1	113.6	127.8	62.5	14.4	***			
2021		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+/unk			
Reported Pregnancies <sup>3</sup>	73,898	44	2,333	10,386	20,729	25,047	12,728	2,440	191			
Age Specific Pregnancy Rate <sup>2</sup>		***	12.7	59.3	115.1	134.7	65.2	13.6	***			

<sup>1</sup> Includes live births, all reported fetal deaths and induced abortions

<sup>2</sup> Pregnancies within a specific age group per 1,000 female population of that same age group. Total rate is calculated per 1,000 female population age 15-44.

<sup>3</sup> Beginning with 2017, the older age groups 40+ split to 40-44 and 45+ in order to isolate those in the 15-44 range.

\*\*\*Appropriate age-specific female population is not available for use in rate calculations.

Annual Summary

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### **Mortality Tables**

Table 1. Deaths by County of Residence and County of Occurrence, Minnesota Residents, 2021
Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2021
Table 3. Leading Causes of Death, Death Rates, and Rank Order, Minnesota and U.S., 2021
Table 4. Leading Causes of Death by Age Groups, Minnesota Residents, 2021
Table 5a. Deaths Due to Selected Causes by Race/Ethnicity, MN Residents, 2021
Table 5b. Cause-Specific Mortality Rates by Race/Ethnicity, MN Residents, 2021
Table 6a. Deaths Due to Selected Causes by Rural/Urban Residence, MN Residents, 2021



		Deaths t	o MN County Res	idents	Deaths Occurring in Each County					
		acr	oss Place of Deat	h	across Place of Residence					
		_	Outside County	of Residence		Other	Out of			
		Within	Within	Outside		Minnesota	State			
County	Total	County	Minnesota	Minnesota	Total <sup>1</sup>	Residents	Residents			
State Total	51,614	39,764	9,707	2,143	51,455	9,738	1,953			
Aitkin	248	185	54	9	219	32	2			
Anoka	2,768	2,058	665	45	2,571	480	33			
Becker	413	312	22	79	347	26	9			
Beltrami	523	429	29	65	530	94	7			
Benton	407	244	160	3	296	52	0			
Big Stone	76	62	2	12	75	3	10			
Blue Earth	595	505	83	7	704	182	17			
Brown	342	257	83	2	286	29	0			
Carlton	473	295	168	10	332	35	2			
Carver	673	450	213	10	568	106	12			
Cass	428	225	173	30	262	28	9			
Chippewa	172	134	32	6	143	9	0			
Chisago	544	372	157	15	499	119	8			
Clay	551	311	13	227	347	14	22			
Clearwater	125	87	22	16	97	9	1			
Cook	49	28	17	4	31	1	2			
Cottonwood	165	122	18	25	140	16	2			
Crow Wing	819	633	164	22	756	108	15			
Dakota	3,245	2,100	1081	64	2,420	271	49			
Dodge	163	83	79	1	91	7	1			
Douglas	449	363	54	32	424	53	8			
Faribault	185	140	42	3	155	9	6			
Fillmore	248	169	57	22	200	25	6			
Freeborn	392	274	107	11	302	20	8			
Goodhue	567	430	126	11	488	48	10			
Grant	78	51	17	10	59	7	10			
Hennepin	9,900	9,020	728	152	12,125	, 2,790	315			
Bloomington	915	517	385	13	619	95	7			
Edina	520	384	129	7	1,253	834	35			
Minneapolis	2,882	2,149	678	55	4,634	2,291	194			
Richfield	338	164	169	5	4,034 184	19	154			
Houston	202	104	7	67	145	5	12			
Hubbard	202	128	59	32	143	20	2			
Isanti	435	290	144	1	331	38	3			
	684	501	163		544	37				
Itasca Jackson	106			20		6	6			
		58	20	28	64		0			
Kanabec	213	134	74	5	163	29	0			
Kandiyohi	439	355	76	8	398	42	1			
Kittson	62	46	6	10	52	2	4			
Koochiching	186	131	44	11	133	1	1			
Lac Qui Parle	102	86	7	9	90	4	0			
Lake	169	105	61	3	122	15	2			
Lake of the Woods	50	35	3	12	41	4	2			
Le Sueur	284	172	111	1	194	16	6			
Lincoln	101	83	8	10	94	7	4			
Lyon	247	189	23	35	218	29	0			
McLeod	417	297	117	3	339	39	3			
Mahnomen	90	56	15	19	61	5	0			

Table 1. Resident Deaths Distributed by County of Occurrence (n=51,647); Deaths by County of Occurrence Distributed by Place of Residence (n=51,455), Minnesota 2021.

			to MN County Res		Deaths Occurring in Each County					
	_	ac	ross Place of Deat		across Place of Residence					
			Outside County	-		Other	Out of			
<b>A</b>		Within	Within	Outside	1	Minnesota	State			
County	Total	County	Minnesota	Minnesota	Total <sup>1</sup>	Residents	Residents			
Marshall	99	52	20	27	57	5	0			
Martin	303	218	70	15	234	11	5			
Meeker	244	166	77	1	183	13	4			
Mille Lacs	377	246	122	9	292	44	2			
Morrison	415	306	103	6	337	29	2			
Mower	447	341	97	9	383	38	4			
Murray	109	70	17	22	83	11	2			
Nicollet	298	191	103	4	221	30	0			
Nobles	185	121	15	49	141	18	2			
Norman	87	59	6	22	61	1	1			
Olmsted	1,267	1,191	56	20	2,432	834	407			
Otter Tail	785	581	72	132	631	34	16			
Pennington	156	117	12	27	141	20	4			
Pine	394	231	156	7	260	25	4			
Pipestone	129	95	7	27	111	11	5			
Polk	381	271	16	94	305	24	10			
Роре	148	103	37	8	113	10	0			
Ramsey	4,981	4,171	750	60	6,067	1,586	310			
St. Paul	2,506	2,000	471	35	3,910	1,619	291			
Red Lake	44	28	9	7	31	2	1			
Redwood	187	126	51	10	143	17	0			
Renville	203	153	45	5	172	17	2			
Rice	616	444	160	12	522	73	5			
Rock	122	91	5	26	110	13	6			
Roseau	173	133	9	31	142	8	1			
St. Louis	2,373	2,230	94	49	3,113	491	392			
Duluth	1,051	1001	42	8	2,095	713	381			
Scott	912	590	311	11	741	134	17			
Sherburne	727	435	287	5	541	100	6			
Sibley	170	108	57	5	128	20	0			
Stearns	1,283	1127	136	20	1,821	669	25			
Steele	384	290	89	5	341	47	4			
Stevens	74	54	13	7	60	6	0			
Swift	94	63	29	2	76	13	0			
Todd	252	159	79	14	200	39	2			
Traverse	63	33	8	22	38	2	3			
Wabasha	219	145	68	6	167	9	13			
Wadena	222	145	37	23	217	51	4			
Waseca	188	102	58	3	140	13	4			
Washington			651			259				
	2,020	1,322		47	1,633		52			
Watonwan	128	76	46	6	95	19	0			
Wilkin	90	60	5	25	81	2	19			
Winona	431	318	52	61	346	14	14			
Wright	1,098	731	348	19	823	87	5			
Yellow Medicine	109	73	20	16	93	17	3			

Table 1. Resident Deaths Distributed by County of Occurrence (n=51,647); Deaths by County of Occurrence Distributed by
Place of Residence (n=51,455), Minnesota 2021.

<sup>1</sup> Total deaths occurring in each county also includes deaths to MN county residents within county of residence (second column).

NOTE: Total deaths by county excludes those for whom county of residence or both county of residence and county of occurence are unknown.

		Cause of Death		Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+
			Sex											
		ALL CAUSES, Total	т	51,603	308	51	49	60	206	1,419	2,595	7,656	15,745	23,514
CD10		-	М	27,214	183	23	27	34	125	1,010	1,733	4,774	8,986	10,319
Code			F	, 24,389	125	28	22	26	81	409	862	, 2,882	6,759	13,195
A00-	١.	INFECTIOUS AND	т	823	1	2	0	2	1	5	47	145	283	337
B99		PARASITIC DISEASES	Μ	432	1	2	0	1	1	2	32	89	157	147
			F	391	0	0	0	1	0	3	15	56	126	190
400-		Intestinal Infections	т	100	1	0	0	1	0	0	3	7	29	59
409			М	43	1	0	0	0	0	0	2	4	15	21
			F	57	0	0	0	1	0	0	1	3	14	38
<b>\40</b> -		Septicemia	т	473	0	1	0	1	0	3	16	83	167	202
41			М	243	0	1	0	1	0	2	11	46	90	92
			F	230	0	0	0	0	0	1	5	37	77	110
315-		Viral Hepatitis	т	42	0	0	0	0	0	0	1	18	20	3
319			М	24	0	0	0	0	0	0	1	12	10	1
			F	18	0	0	0	0	0	0	0	6	10	2
Re-		Other Infectious	т	208	0	1	0	0	1	2	27	37	67	73
sid-		and Parasitic	М	122	0	1	0	0	1	0	18	27	42	33
ual		Diseases and Sequelae	F	86	0	0	0	0	0	2	9	10	25	40
			_					_						
200-	II.	NEOPLASMS	Т	10,491	0	5	8	6	5	65	359	2,013	4,497	3,533
D48			M	5,555	0	1	7	1	5	36	180	1,068	2,461	1,796
			F	4,936	0	4	1	5	0	29	179	945	2,036	1,737
00-		Malignant Neoplasms	т	10,178	0	5	8	6	5	58	353	1,995	4,393	3,355
C97			Μ	5,391	0	1	7	1	5	32	176	1,060	2,402	1,707
			F	4,787	0	4	1	5	0	26	177	935	1,991	1,648

 Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2021.

	Cause of Death		Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+
		Sex											
	ALL CAUSES, Total	т	51,603	308	51	49	60	206	1,419	2,595	7,656	15,745	23,514
ICD10		Μ	27,214	183	23	27	34	125	1,010	1,733	4,774	8,986	10,319
Code		F	24,389	125	28	22	26	81	409	862	2,882	6,759	13,195
	Malignant Neoplasms contin	ued											
C00-	of Lip, Oral Cavity,	т	182	0	0	0	0	0	1	10	42	90	39
C14	and Pharynx	Μ	138	0	0	0	0	0	1	7	28	73	29
		F	44	0	0	0	0	0	0	3	14	17	10
C15	of Esophagus	т	293	0	0	0	0	0	1	11	80	124	77
		Μ	235	0	0	0	0	0	1	8	65	101	60
		F	58	0	0	0	0	0	0	3	15	23	17
C16	of Stomach	т	158	0	0	0	0	0	0	6	45	58	49
		Μ	93	0	0	0	0	0	0	3	27	36	27
		F	65	0	0	0	0	0	0	3	18	22	22
C18-	of Colon, Rectum,	т	832	0	0	0	0	0	2	58	175	289	308
C21	and Anus	Μ	436	0	0	0	0	0	2	40	108	156	130
		F	396	0	0	0	0	0	0	18	67	133	178
C22	of Liver and	т	375	0	1	1	0	0	4	11	83	185	90
	Intrahepatic Bile Ducts	Μ	243	0	0	1	0	0	1	6	57	122	56
		F	132	0	1	0	0	0	3	5	26	63	34
C25	of Pancreas	т	829	0	0	0	0	0	1	20	177	395	236
		Μ	444	0	0	0	0	0	0	11	107	224	102
		F	385	0	0	0	0	0	1	9	70	171	134
C32	of Larnyx	т	47	0	0	0	0	0	0	1	13	15	18
		Μ	41	0	0	0	0	0	0	1	11	13	16
		F	6	0	0	0	0	0	0	0	2	2	2
C33-	of Trachea,	т	2,224	0	0	0	0	0	0	31	465	1,097	631
C34	Bronchus, and Lung	Μ	1,157	0	0	0	0	0	0	20	247	584	306
		F	1,067	0	0	0	0	0	0	11	218	513	325

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2021.

	Cause of Death		Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+
		Sex											
	ALL CAUSES, Total	т	51,603	308	51	49	60	206	1,419	2,595	7,656	15,745	23,514
ICD10		М	27,214	183	23	27	34	125	1,010	1,733	4,774	8,986	10,319
Code		F	24,389	125	28	22	26	81	409	862	2,882	6,759	13,195
	Malignant Neoplasms cont	inued											
C43-	Skin	т	176	0	0	0	0	0	2	8	38	72	56
C44		М	115	0	0	0	0	0	1	5	23	51	35
		F	61	0	0	0	0	0	1	3	15	21	21
C50	of Breast	т	674	0	0	0	0	0	5	47	177	240	205
CSU	Of breast	M	12	0	0	0	0	0	0	47	2	240 5	203
		F	662	0	0	0	0	0	5	46	175	235	201
		•	002	Ū	Ū	Ū	Ū	Ū	5	40	1/5	255	201
C53	of Cervix Uteri	т	54	0	0	0	0	0	1	13	16	16	8
		Μ	0	0	0	0	0	0	0	0	0	0	C
		F	54	0	0	0	0	0	1	13	16	16	8
C54-	of Corpus Uteri and	т	193	0	0	0	0	0	1	6	34	100	52
C55	Uterus	М	0	0	0	0	0	0	0	0	0	0	C
		F	193	0	0	0	0	0	1	6	34	100	52
C56	of Ovary	т	221	0	0	0	0	0	1	8	41	114	57
		M	0	0	0	0	0	0	0	0	0	0	0
		F	221	0	0	0	0	0	1	8	41	114	57
C61	of Prostate	т	602	0	0	0	0	0	0	0	56	221	325
C01	or Prostate	M	602	0	0	0	0	0	0	0	56	221	325
		F	002	0	0	0	0	0	0	0	0	0	525
		•	Ŭ	Ũ	Ũ	Ũ	Ŭ	Ŭ	Ŭ	Ŭ	Ũ	5	U
C64-	of Kidney and	т	258	0	0	0	0	0	1	7	51	116	83
C65	Renal Pelvis	М	175	0	0	0	0	0	1	4	37	83	50
		F	83	0	0	0	0	0	0	3	14	33	33

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2021.

	Cause of Death		Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+
		Sex											
	ALL CAUSES, Total	т	51,603	308	51	49	60	206	1,419	2,595	7,656	15,745	23,514
ICD10		м	27,214	183	23	27	34	125	1,010	1,733	4,774	8,986	10,319
Code		F	24,389	125	28	22	26	81	409	862	2,882	6,759	13,195
	Malignant Neoplasms continu	ed											
C67	of Bladder	т	294	0	0	0	0	0	0	6	21	111	156
		Μ	209	0	0	0	0	0	0	4	18	88	99
		F	85	0	0	0	0	0	0	2	3	23	57
C69-	of Eye, Brain, and	т	318	0	0	4	3	0	13	35	94	132	37
C72	Other Parts of Central	М	194	0	0	3	0	0	10	22	57	80	22
	Nervous System	F	124	0	0	1	3	0	3	13	37	52	15
C82-	Non-Hodgkin's	т	408	0	0	0	0	0	2	9	57	164	176
C85	Lymphoma	Μ	226	0	0	0	0	0	2	5	43	90	86
		F	182	0	0	0	0	0	0	4	14	74	90
C91-	Leukemia	т	409	0	3	1	1	1	14	10	44	180	155
C95		М	261	0	1	1	1	1	8	6	27	122	94
		F	148	0	2	0	0	0	6	4	17	58	61
C88	Multiple Myeloma	т	253	0	0	0	0	0	0	1	34	112	106
C90	and Immunoproliferative	М	145	0	0	0	0	0	0	0	19	76	50
	Neoplasms	F	108	0	0	0	0	0	0	1	15	36	56
Re-	Other Malignant	т	1,378	0	1	2	2	4	9	55	252	562	491
sid-	Neoplasms	Μ	665	0	0	2	0	4	5	33	128	277	216
ual		F	713	0	1	0	2	0	4	22	124	285	275
D00-	In Situ and Benign	т	313	0	0	0	0	0	7	6	18	104	178
D48	Neoplasms and Neoplasms	М	164	0	0	0	0	0	4	4	8	59	89
	of Uncertain Behavior	F	149	0	0	0	0	0	3	2	10	45	89

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2021.

		Cause of Death		Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+
			Sex											
		ALL CAUSES, Total	т	51,603	308	51	49	60	206	1,419	2,595	7,656	15,745	23,514
ICD10			М	27,214	183	23	27	34	125	1,010	1,733	4,774	8,986	10,319
Code			F	24,389	125	28	22	26	81	409	862	2,882	6,759	13,195
D50-	III.	DISEASES OF THE	т	214	5	1	0	0	0	2	9	34	57	106
D30- D89		BLOOD AND BLOOD-	M	103	2	0	0	0	0	1	3	21	24	52
005		FORMING ORGANS	F	103	2	1	0	0	0	1	6	13	33	54
		FORIVING ORGANS	F	111	5	T	0	0	0	T	0	15	55	54
D50-		Anemias	т	119	0	0	0	0	0	0	3	8	26	82
D64			Μ	54	0	0	0	0	0	0	2	4	11	37
			F	65	0	0	0	0	0	0	1	4	15	45
D65-		Other Diseases of the	т	95	5	1	0	0	0	2	6	26	31	24
D89		Blood and Blood-Forming	М	49	2	0	0	0	0	1	1	17	13	15
		Organs	F	46	3	1	0	0	0	1	5	9	18	9
E00-	IV.	ENDOCRINE, NUTRITIONAL,	т	2,423	3	2	1	3	4	35	131	510	896	838
E90		AND METABOLIC DISEASES	M	1,342	2	1	0	1	1	22	80	334	524	377
250		AND IMMUNITY DISORDERS	F	1,081	1	1	1	2	3	13	51	176	372	461
E10-		Diabetes Mellitus	т	1,575	0	0	0	1	2	18	81	343	600	530
E14			М	904	0	0	0	1	1	11	45	228	356	262
			F	671	0	0	0	0	1	7	36	115	244	268
Re-		Other Endocrine,	т	848	3	2	1	2	2	17	50	167	296	308
sid-		Nutritional, Metabolic,	Μ	438	2	1	0	0	0	11	35	106	168	115
ual		and Immunity Disorders	F	410	1	1	1	2	2	6	15	61	128	193

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2021.

	Cause of Death		Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+
		Sex											
	ALL CAUSES, Total	т	51,603	308	51	49	60	206	1,419	2,595	7,656	15,745	23,514
ICD10		м	27,214	183	23	27	34	125	1,010	1,733	4,774	8,986	10,319
Code		F	24,389	125	28	22	26	81	409	862	2,882	6,759	13,195
						_	_	_					
	7. MENTAL AND	т	3,183	0	0	0	0	2	47	98	248	579	2,209
F99	BEHAVIORAL DISORDERS	Μ	1,298	0	0	0	0	1	31	68	168	283	747
		F	1,885	0	0	0	0	1	16	30	80	296	1,462
F01	Vascular Dementia	т	408	0	0	0	0	0	0	0	1	82	325
	result of infarction of the brain	м	143	0	0	0	0	0	0	0	0	30	113
	due to vascular disease	F	265	0	0	0	0	0	0	0	1	52	212
F03	Unspecified dementia	т	2,118	0	0	0	0	0	0	0	15	301	1,802
	excludes Alzheimer's Disease	м	711	0	0	0	0	0	0	0	6	117	588
	[See G30 for Alzheimer's]	F	1,407	0	0	0	0	0	0	0	9	184	1,214
F10-	Disorders due to Psychoactive	т	438	0	0	0	0	1	41	93	178	108	17
F18, F19	Substance use [excl. tobacco]	м	314	0	0	0	0	0	28	65	127	83	11
		F	124	0	0	0	0	1	13	28	51	25	6
Re-	Other Mental Illness and	т	219	0	0	0	0	1	6	5	54	88	65
sid-	Disorders of Psychological	м	130	0	0	0	0	1	3	3	35	53	35
ual	Development	F	89	0	0	0	0	0	3	2	19	35	30
G00- V	I. DISEASES OF THE	т	4,243	2	3	5	7	12	45	61	252	1,101	2,755
G99	NERVOUS SYSTEM	Μ	1,841	0	2	4	5	5	28	33	143	578	1,043
		F	2,402	2	1	1	2	7	17	28	109	523	1,712
G20-	Parkinson's Disease	т	696	0	0	0	0	0	0	0	13	239	444
G21		М	443	0	0	0	0	0	0	0	9	157	277
		F	253	0	0	0	0	0	0	0	4	82	167

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	Cause of Death		Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+
		Sex											
	ALL CAUSES, Total	т	51,603	308	51	49	60	206	1,419	2,595	7,656	15,745	23,514
ICD10		М	27,214	183	23	27	34	125	1,010	1,733	4,774	8,986	10,319
Code		F	24,389	125	28	22	26	81	409	862	2,882	6,759	13,195
	Diseases of Nervous System	Continue	ed										
G30	Alzheimer's Disease	т	2,251	0	0	0	0	0	0	1	19	375	1,856
		М	703	0	0	0	0	0	0	1	7	148	547
		F	1,548	0	0	0	0	0	0	0	12	227	1,309
Re-	Other Diseases of the	т	1,296	2	3	5	7	12	45	60	220	487	455
sid-	Nervous System	м	695	0	2	4	5	5	28	32	127	273	219
ual		F	601	2	1	1	2	7	17	28	93	214	236
100- IX.	DISEASES OF THE	т	12,354	5	1	0	4	8	64	373	1,409	3,334	7,156
199	CIRCULATORY SYSTEM	M	6,447	4	0	0	1	4	45	261	989	2,063	3,080
		F	5,907	1	1	0	3	4	19	112	420	1,271	4,076
100-	Major Cardiovascular	Т	12,275	5	1	0	4	8	64	363	1,388	3,310	7,132
78	<u>Diseases</u>	Μ	6,407	4	0	0	1	4	45	256	977	2,052	3,068
		F	5,868	1	1	0	3	4	19	107	411	1,258	4,064
00-109,	**Diseases of the Heart	т	8,570	4	0	0	2	7	51	268	946	2,256	5,036
11,113,		М	4,677	3	0	0	1	4	38	186	677	1,451	2,317
120-151		F	3,893	1	0	0	1	3	13	82	269	805	2,719
100-	Acute Rheumatic Fever	т	147	0	0	0	0	0	1	3	9	34	100
109	and Chronic Rheumatic	М	47	0	0	0	0	0	0	2	2	18	25
	Heart Diseases	F	100	0	0	0	0	0	1	1	7	16	75
111	Hypertensive Heart	т	494	0	0	0	0	0	3	19	54	74	344
	Disease	М	196	0	0	0	0	0	2	13	38	43	100
		F	298	0	0	0	0	0	1	6	16	31	244

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2021.

	Cause of Death		Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+
		Sex											
	ALL CAUSES, Total	т	51,603	308	51	49	60	206	1,419	2,595	7,656	15,745	23,514
ICD10		Μ	27,214	183	23	27	34	125	1,010	1,733	4,774	8,986	10,319
Code		F	24,389	125	28	22	26	81	409	862	2,882	6,759	13,195
	Diseases of Circulatory System	Contin	ued										
l13	Hypertensive Heart	т	284	0	0	0	0	0	0	1	11	29	243
	and Renal Disease	Μ	100	0	0	0	0	0	0	0	4	12	84
		F	184	0	0	0	0	0	0	1	7	17	159
120-	Ischaemic Heart Disease	т	4,325	0	0	0	0	0	15	141	567	1,333	2,269
125		Μ	2,761	0	0	0	0	0	14	110	430	940	1,267
		F	1,564	0	0	0	0	0	1	31	137	393	1,002
121-	~Acute Myocardial	т	1,057	0	0	0	0	0	4	45	173	348	487
122	Infarction	Μ	638	0	0	0	0	0	4	36	133	225	240
		F	419	0	0	0	0	0	0	9	40	123	247
123-	~Other Acute Ischaemic	т	35	0	0	0	0	0	0	0	4	19	12
124	Heart Diseases	Μ	13	0	0	0	0	0	0	0	1	8	4
		F	22	0	0	0	0	0	0	0	3	11	8
125.0,	~Atherosclerotic (chronic)	т	2,888	0	0	0	0	0	11	91	358	879	1,549
125.1	Cardiovascular Disease	Μ	1,884	0	0	0	0	0	10	71	273	641	889
		F	1,004	0	0	0	0	0	1	20	85	238	660
120,	~Other Chronic Ischaemic	т	345	0	0	0	0	0	0	5	32	87	221
125.2-	Heart Diseases	Μ	226	0	0	0	0	0	0	3	23	66	134
125.9		F	119	0	0	0	0	0	0	2	9	21	87
126-	Other Heart Disease	т	3,320	4	0	0	2	7	32	104	305	786	2,080
151		Μ	1,573	3	0	0	1	4	22	61	203	438	841
		F	1,747	1	0	0	1	3	10	43	102	348	1,239

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2021.

	Cause of Death		Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+
		Sex											
	ALL CAUSES, Total	т	51,603	308	51	49	60	206	1,419	2,595	7,656	15,745	23,514
ICD10		Μ	27,214	183	23	27	34	125	1,010	1,733	4,774	8,986	10,319
Code		F	24,389	125	28	22	26	81	409	862	2,882	6,759	13,195
	Diseases of Circulatory System C	ontin	nued										
150	~Heart Failure	т	967	0	0	0	0	0	1	6	53	185	722
		Μ	450	0	0	0	0	0	1	3	38	99	309
		F	517	0	0	0	0	0	0	3	15	86	413
126-128,	~All Other Forms	т	2,353	4	0	0	2	7	31	98	252	601	1,358
130-139,	of Heart Disease	М	1,123	3	0	0	1	4	21	58	165	339	532
142-149,1	51	F	1,230	1	0	0	1	3	10	40	87	262	826
110,	**Essential Hypertension	т	908	0	0	0	0	0	1	24	151	275	457
112,	& Hypertensive Renal Disease	Μ	452	0	0	0	0	0	0	19	112	172	149
115		F	456	0	0	0	0	0	1	5	39	103	308
160-	**Cerebrovascular	т	2,384	1	1	0	2	1	10	48	229	649	1,443
169	Diseases	Μ	1,058	1	0	0	0	0	5	32	146	349	525
		F	1,326	0	1	0	2	1	5	16	83	300	918
170-	**Diseases of arteries,	т	413	0	0	0	0	0	2	23	62	130	196
178	arterioles and capillaries	Μ	220	0	0	0	0	0	2	19	42	80	77
		F	193	0	0	0	0	0	0	4	20	50	119
171	Aortic Aneurysm and	т	224	0	0	0	0	0	1	16	39	76	92
	Dissection	Μ	134	0	0	0	0	0	1	14	27	51	41
		F	90	0	0	0	0	0	0	2	12	25	51
172-	Other Diseases of the	т	189	0	0	0	0	0	1	7	23	54	104
178	Arteries, Arterioles,	Μ	86	0	0	0	0	0	1	5	15	29	36
	and Capillaries	F	103	0	0	0	0	0	0	2	8	25	68

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2021.

	Cause of Death		Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+
		Sex											
	ALL CAUSES, Total	т	51,603	308	51	49	60	206	1,419	2,595	7,656	15,745	23,514
ICD10		М	27,214	183	23	27	34	125	1,010	1,733	4,774	8,986	10,319
Code		F	24,389	125	28	22	26	81	409	862	2,882	6,759	13,195
	Diseases of Circulatory Syst	em Contin	nued										
180-	Other Disorders of the	т	79	0	0	0	0	0	0	10	21	24	24
199	Circulatory System	М	40	0	0	0	0	0	0	5	12	11	12
		F	39	0	0	0	0	0	0	5	9	13	12
J00- X.	DISEASES OF THE	т	3,409	11	2	5	3	0	15	42	395	1,283	1,653
J99	RESPIRATORY SYSTEM	M	1,764	7	2	4	1	0	10	20	213	688	819
		F	1,645	4	0	1	2	0	5	22	182	595	834
		•	1,010	·	Ū	-	-	Ũ	5		102	555	001
J10-	Influenza and	т	392	5	0	2	0	0	2	13	49	99	222
J18	Pneumonia	М	205	4	0	1	0	0	0	8	29	52	111
		F	187	1	0	1	0	0	2	5	20	47	111
J10-	Influenza	т	9	2	0	1	0	0	0	0	2	1	3
J11		Μ	5	1	0	0	0	0	0	0	2	0	2
		F	4	1	0	1	0	0	0	0	0	1	1
J12-	Pneumonia	т	383	3	0	1	0	0	2	13	47	98	219
J18		М	200	3	0	1	0	0	0	8	27	52	109
		F	183	0	0	0	0	0	2	5	20	46	110
J40-	Chronic Lower	т	2,066	0	0	2	1	0	5	8	238	880	932
J47	Respiratory Diseases	Μ	986	0	0	2	1	0	4	1	121	445	412
		F	1,080	0	0	0	0	0	1	7	117	435	520
J43	Emphysema	т	138	0	0	0	0	0	0	1	14	63	60
		Μ	79	0	0	0	0	0	0	0	9	41	29
		F	59	0	0	0	0	0	0	1	5	22	31

 Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2021.

	Cause of Death		Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+
		Sex											
	ALL CAUSES, Total	т	51,603	308	51	49	60	206	1,419	2,595	7,656	15,745	23,514
ICD10		М	27,214	183	23	27	34	125	1,010	1,733	4,774	8,986	10,319
Code		F	24,389	125	28	22	26	81	409	862	2,882	6,759	13,195
	Diseases of Respiratory Sys	tem Conti	nued										
J45-	Asthma	т	58	0	0	2	1	0	5	4	17	12	17
J46		М	24	0	0	2	1	0	4	1	7	6	3
		F	34	0	0	0	0	0	1	3	10	6	14
J44,	Other Chronic Lower	т	1,870	0	0	0	0	0	0	3	207	805	855
J47	Respiratory Diseases	М	883	0	0	0	0	0	0	0	105	398	380
		F	987	0	0	0	0	0	0	3	102	407	475
J69	Pneumonitis Due to	т	239	0	0	0	0	0	3	3	22	65	146
	Solids and Liquids	М	157	0	0	0	0	0	3	2	10	44	98
		F	82	0	0	0	0	0	0	1	12	21	48
Re-	Other Disease of the	т	712	6	2	1	2	0	5	18	86	239	353
sid-	Respiratory System	Μ	416	3	2	1	0	0	3	9	53	147	198
ual		F	296	3	0	0	2	0	2	9	33	92	155
K00 X		-	2 4 0 0	4	2	0	0	2	50	244	5 4 7	640	600
K00- X		Т	2,188	1	2	0	0	3	58	241	547	648	688
К93	DIGESTIVE SYSTEM	M	1,153	1	0	0	0	2	42	156	317	356	279
		F	1,035	0	2	0	0	1	16	85	230	292	409
К70,	Chronic Liver Disease	т	885	0	0	0	0	0	42	182	361	253	47
К73-	and Cirrhosis	М	562	0	0	0	0	0	28	120	223	170	21
К74		F	323	0	0	0	0	0	14	62	138	83	26
К70	Alcoholic Liver	т	675	0	0	0	0	0	39	157	305	162	12
	Disease	М	452	0	0	0	0	0	27	102	194	120	9
		F	223	0	0	0	0	0	12	55	111	42	Э

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2021.

	Cause of Death		Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+
		Sex											
	ALL CAUSES, Total	т	51,603	308	51	49	60	206	1,419	2,595	7,656	15,745	23,514
ICD10		м	27,214	183	23	27	34	125	1,010	1,733	4,774	8,986	10,319
Code		F	24,389	125	28	22	26	81	409	862	2,882	6,759	13,195
	Diseases of Respiratory System	n Conti	nued										
K73-	Other Chronic Liver	т	210	0	0	0	0	0	3	25	56	91	35
K74	Disease and Cirrhosis	м	110	0	0	0	0	0	1	18	29	50	12
		F	100	0	0	0	0	0	2	7	27	41	23
Re-	Other Disease of the	т	1,303	1	2	0	0	3	16	59	186	395	641
sid-	Digestive System	м	591	1	0	0	0	2	14	36	94	186	258
ual		F	712	0	2	0	0	1	2	23	92	209	383
LOO- XII	DISEASES OF THE SKIN	т	102	0	0	0	0	0	1	2	13	40	46
LOO- XII L99	AND SUBCUTANEOUS TISSUE	M	52	0	0	0	0	0	1 1	2	13	40 22	40 21
233		F	50	0	0	0	0	0	0	1	6	18	25
M00- XIII	. DISEASES OF THE	т	323	0	0	0	0	0	4	11	46	112	150
M99	MUSCULOSKELETAL SYSTEM	М	124	0	0	0	0	0	1	4	23	42	54
	AND CONNECTIVE TISSUE	F	199	0	0	0	0	0	3	7	23	70	96
N00- XIV	. DISEASES OF THE	т	894	1	0	0	0	0	2	20	91	279	501
N99	GENITOURINARY SYSTEM	м	450	1	0	0	0	0	1	13	51	144	240
		F	444	0	0	0	0	0	1	7	40	135	261
N00-N07,	Nephritis, Nephrotic	т	509	1	0	0	0	0	1	15	55	163	274
N17-N19,	Syndrome, and Nephrosis	Μ	277	1	0	0	0	0	1	10	33	94	138
N25-N27		F	232	0	0	0	0	0	0	5	22	69	136

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2021.

	Cause of Death		Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+
		Sex											
	ALL CAUSES, Total	т	51,603	308	51	49	60	206	1,419	2,595	7,656	15,745	23,514
ICD10		м	27,214	183	23	27	34	125	1,010	1,733	4,774	8,986	10,319
Code		F	24,389	125	28	22	26	81	409	862	2,882	6,759	13,195
	Diseases of Genitourinary Sys	tem Co	ntinued										
N17-	Renal Failure	т	484	0	0	0	0	0	1	15	49	151	268
N19		М	263	0	0	0	0	0	1	10	30	86	136
		F	221	0	0	0	0	0	0	5	19	65	132
Re-	Other Diseases of the	т	385	0	0	0	0	0	1	5	36	116	227
sid-	Genitourinary System	М	173	0	0	0	0	0	0	3	18	50	102
ual		F	212	0	0	0	0	0	1	2	18	66	125
		-	112	112	4	0	0	0	0	0	0	0	0
	CERTAIN CONDITIONS	Т	143	142	1	0	0	0	0	0	0	0	0
P96	ORIGINATING IN THE	M	85	85	0	0	0	0	0	0	0	0	0
	PERINATAL PERIOD	F	58	57	1	0	0	0	0	0	0	0	0
Q00- XVII	. CONGENITAL MALFORMATIO	NS, T	236	84	8	4	4	8	9	16	58	35	10
Q99	DEFORMATIONS, AND	M	119	45	3	0	2	2	6	10	31	15	5
	CHROMOSOMAL ABNORMAL	ITIE F	117	39	5	4	2	6	3	6	27	20	5
R00- XVII	I. SYMPTOMS, SIGNS, AND	т	1,152	24	2	1	1	2	15	25	140	324	618
R99	ABNORMAL CLINICAL AND	М	569	15	1	0	0	2	12	17	102	193	227
	LABORATORY FINDINGS	F	583	9	1	1	1	0	3	8	38	131	391

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2021.

	Cause of Death		Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+
		Sex											
	ALL CAUSES, Total	т	51,603	308	51	49	60	206	1,419	2,595	7,656	15,745	23,514
ICD10		Μ	27,214	183	23	27	34	125	1,010	1,733	4,774	8,986	10,319
Code		F	24,389	125	28	22	26	81	409	862	2,882	6,759	13,195
V01- XX.	EXTERNAL CAUSES	т	4,986	29	22	24	30	157	991	929	868	724	1,212
Y98		М	3,254	20	11	12	22	99	732	701	635	485	537
		F	1,732	9	11	12	8	58	259	228	233	239	675
V01-	Accidents	т	3,752	19	16	16	15	94	640	655	601	559	1,137
X59,		Μ	2,314	15	9	8	13	58	457	483	431	357	483
Y85-Y86		F	1,438	4	7	8	2	36	183	172	170	202	654
V01-	**Transport Accidents	т	654	2	8	5	7	41	146	134	133	128	50
V99,		Μ	473	2	4	2	6	22	104	105	103	93	32
Y85		F	181	0	4	3	1	19	42	29	30	35	18
	+Motor Vehicle	т	604	2	8	5	6	40	139	129	116	109	50
	Accidents	Μ	428	2	4	2	5	21	97	101	87	77	32
		F	176	0	4	3	1	19	42	28	29	32	18
+	+Other Transport Accidents	т	50	0	0	0	1	1	7	5	17	19	0
V90-	(land, water, air, space)	Μ	45	0	0	0	1	1	7	4	16	16	0
V99,Y85		F	5	0	0	0	0	0	0	1	1	3	0
	9.0,V09.2,V12-V14,V19.0-V19.2,V19.4 V09.1,V09.3-V09.9,V10-V11,V15-V18,V												
W00-	**Non-Transport Accidents	т	3,098	17	8	11	8	53	494	521	468	431	1,087
X59,		Μ	1,841	13	5	6	7	36	353	378	328	264	451
Y86		F	1,257	4	3	5	1	17	141	143	140	167	636
W00-	Falls	т	1,340	0	0	1	0	0	10	20	79	272	958
W19		Μ	636	0	0	1	0	0	9	17	55	160	394
		F	704	0	0	0	0	0	1	3	24	112	564

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2021.

	Cause of Death		Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+
		Sex											
	ALL CAUSES, Total	т	51,603	308	51	49	60	206	1,419	2,595	7,656	15,745	23,514
ICD10		м	27,214	183	23	27	34	125	1,010	1,733	4,774	8,986	10,319
Code		F	24,389	125	28	22	26	81	409	862	2,882	6,759	13,195
	External Causes Accidents Co	ntinue	ed										
X00-	Accidental Exposure	т	39	0	1	3	0	1	1	6	9	14	4
X09	to Smoke, Fire, and Flames	м	26	0	1	0	0	0	1	5	7	11	1
		F	13	0	0	3	0	1	0	1	2	3	3
X40-	Accidental Poisoning <sup>1</sup>	т	1,306	1	0	1	4	41	448	437	306	57	11
X49	and Exposure to	м	906	1	0	1	4	26	318	311	209	30	6
	Noxious Substances	F	400	0	0	0	0	15	130	126	97	27	5
Re-	Other Non-Transport	т	413	16	7	6	4	11	35	58	74	88	114
sid-	Accidents and Their	м	273	12	4	4	3	10	25	45	57	63	50
ual	Sequelae	F	140	4	3	2	1	1	10	13	17	25	64
X60-	Intentional Self-Harm	т	809	0	0	1	8	39	236	191	204	97	33
X84,	(Suicide)	м	650	0	0	1	4	23	193	152	165	83	29
Y87.0		F	159	0	0	0	4	16	43	39	39	14	4
X72-	**By Discharge of	т	394	0	0	0	1	15	97	87	111	59	24
X74	Firearms	м	359	0	0	0	0	13	87	79	99	57	24
		F	35	0	0	0	1	2	10	8	12	2	0
X60-X71,	**By Other and Unspecified	т	415	0	0	1	7	24	139	104	93	38	9
X75-X84,	Means and Their Sequelae	М	291	0	0	1	4	10	106	73	66	26	5
Y87.0	-	F	124	0	0	0	3	14	33	31	27	12	4

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2021.

Cause of Death		Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+
	Sex											
ALL CAUSES, Total	т	51,603	308	51	49	60	206	1,419	2,595	7,656	15,745	23,514
	М	27,214	183	23	27	34	125	1,010	1,733	4,774	8,986	10,319
	F	24,389	125	28	22	26	81	409	862	2,882	6,759	13,195
External Causes Continued												
Assault (Homicide)	т	231	6	3	4	6	18	91	63	27	12	1
	Μ	173	2	1	1	5	14	68	50	21	10	1
	F	58	4	2	3	1	4	23	13	6	2	0
**D. Discharge of	-	104	0	1	2	F	47	70	45	10	2	0
	-											0
Firearms												0
	F	38	0	1	2	1	3	19	9	2	1	0
**By Other and Unspecified	т	67	6	2	2	1	1	13	18	14	9	1
Means and Their Sequelae	М	47	2	1	1	1	0	9	14	10	8	1
	F	20	4	1	1	0	1	4	4	4	1	0
Events of Undetermined	т	75	4	з	2	0	6	21	19	13	5	2
	-			-		-						2
<u></u>	F	24	1	2	0	0	2	10	3	5	1	0
	-	110	0	0		4	0	2		22	-1	20
	-											39
and Surgical Care				-	-			-	-			22
	F	53	0	0	1	1	0	0	1	13	20	17
Codes for Special Purposes	т	4,439	0	0	1	0	4	61	231	887	1,553	1,702
		-									-	895
()	F	1,813	0	0	1	0	1	21	77	304	602	807
	ALL CAUSES, Total External Causes Continued Assault (Homicide) **By Discharge of Firearms **By Other and Unspecified	ALL CAUSES, Total       T         M       F         External Causes Continued       T         Assault (Homicide)       T         M       F         **By Discharge of       T         Firearms       M         **By Other and Unspecified       T         Means and Their Sequelae       M         F       F         Events of Undetermined       T         Intent       M         F       F         Complications of Medical and Surgical Care       T         M       F         Codes for Special Purposes       T         (COVID-19)       M	ALL CAUSES, TotalSex TALL CAUSES, TotalT51,603 MM27,214 F24,389External Causes ContinuedTAssault (Homicide)T231 MM173 F58**By Discharge of FirearmsT164 M**By Other and Unspecified Means and Their SequelaeT67 MEvents of Undetermined IntentT75 MScomplications of Medical and Surgical CareT119 66 FCodes for Special Purposes (COVID-19)T4,439 A,439	Sex         T         51,603         308           M         27,214         183         F         24,389         125           External Causes Continued         T         231         6         M         173         2         F           Assault (Homicide)         T         231         6         M         173         2         F         58         4           **By Discharge of         T         164         0         0         F         38         0           **By Other and Unspecified         T         67         6         M         47         2         F         20         4           Events of Undetermined         T         75         4         1         3         F         24         1           Complications of Medical         T         75         4         1         3         5         3         3           F         24         1         119         0         3	Sex         T         51,603         308         51           M         27,214         183         23         F         24,389         125         28           External Causes Continued         T         231         6         3         M         173         2         1           Assault (Homicide)         T         231         6         3         M         173         2         1           Assault (Homicide)         T         231         6         3         M         173         2         1           #sy Discharge of         T         164         0         1         1           Firearms         M         126         0         0         1           **By Other and Unspecified         T         67         6         2           Means and Their Sequelae         M         47         2         1           Events of Undetermined         T         75         4         3           Intent         T         119         0         0           and Surgical Care         T         119         0         0           M         66         0         0         0         0 </td <td>Sex         T         51,603         308         51         49           M         27,214         183         23         27           F         24,389         125         28         22           External Causes Continued         T         231         6         3         4           Assault (Homicide)         T         231         6         3         4           M         173         2         1         1         1           F         58         4         2         3           **By Discharge of         T         164         0         1         2           Firearms         M         126         0         0         0         0           F         38         0         1         2         1         1           F         38         0         1         2         1         1           F         38         0         1         2         1         1           F         20         4         1         1         1         1           Events of Undetermined         T         75         4         3         2</td> <td>ALL CAUSES, Total         Sex T         51,603         308         51         49         60           M         27,214         183         23         27         34           F         24,389         125         28         22         26           External Causes Continued         T         231         6         3         4         6           Assault (Homicide)         T         231         6         3         4         6           M         173         2         1         1         5           F         58         4         2         3         1           **By Discharge of         T         164         0         1         2         5           Firearms         M         126         0         0         4         1         1           **By Other and Unspecified         T         67         6         2         2         1           M         47         2         1         1         1         0           Means and Their Sequelae         M         47         2         1         1         0           Intent         M         51         3         <t< td=""><td>ALL CAUSES, Total         Sex T         51,603         308         51         49         60         206           M         27,214         183         23         27         34         125           F         24,389         125         28         22         26         81           External Causes Continued         T         231         6         3         4         6         18           Assault (Homicide)         T         231         6         3         4         6         18           M         173         2         1         1         5         14           F         58         4         2         3         1         4           **By Discharge of         T         164         0         1         2         5         17           Firearms         M         126         0         0         0         4         14           F         38         0         1         2         1         3           **By Other and Unspecified         T         67         6         2         2         1         1           Events of Undetermined         T         75</td><td>Sex         T         51,603         308         51         49         60         206         1,419           M         27,214         183         23         27         34         125         1,010           F         24,389         125         28         22         26         81         409           External Causes Continued         T         231         6         3         4         6         18         91           Assault (Homicide)         T         231         6         3         4         6         18         91           M         173         2         1         1         5         14         68           F         58         4         2         3         1         4         23           **By Discharge of Firearms         T         164         0         1         2         5         17         78           Firearms         M         126         0         0         0         4         14         59           F         38         0         1         2         1         1         13           Means and Their Sequelae         T         75</td><td>ALL CAUSES, Total         Sex T         51,603 51,603         308 308         51 23         49 27         60 34         206 125         1,419 125         2,595 1,010         1,733 1,733           External Causes Continued Assault (Homicide)         T         231 7         6         3         4         6         18         91 63         63 64           M         173 2         2         1         5         14         68 50         51 7         78 63         45 7         14         63 7           **By Discharge of Firearms         T         164         0         1         2         5         17         78 78         45 79         36 78           **By Other and Unspecified Means and Their Sequelae         T         67 7         6 7         2 7         2 7         1 1         1 3         18 18           Means and Their Sequelae         T         75 7         4         3 7         2 7         0         6 7         1 1         1 1         1 1         1 1           Events of Undetermined Intent         T         75 7         4 7         3 1         2 7         0 7         4 7         1 1         1 1         1 1         1 1           Complications of Medical and Surgical Care         T</td><td>ALL CAUSES, Total         Sex T         51,603 51,603         308 308         51 51         49 49         60 60         206 1,419         1,419 2,595         7,656 7,656           M         27,214         183         23 22         27 34         34 125         1,25 1,010         1,733         4,774 4,774           Assault (Homicide)         T         231         6         3         4         6         18         91         63         27           M         173         2         1         1         5         14         68         50         21           F         58         4         2         3         1         4         23         13         6           **By Discharge of Firearms         T         164         0         1         2         5         17         78         45         13           F         38         0         1         2         1         1         13         18         14           M         126         0         0         4         14         59         36         11           F         38         0         1         2         1         1         10         4<!--</td--><td>ALL CAUSES, Total         Sex T         51,603         308         51         49         60         206         1,419         2,595         7,656         15,745           M         27,214         183         23         27         34         125         1,010         1,733         4,774         8,986           External Causes Continued         T         231         6         3         4         6         18         91         63         27         12           Assault (Homicide)         T         231         6         3         4         6         18         91         63         27         12           M         173         2         1         1         5         14         68         50         21         100           F         58         4         2         3         1         4         23         13         6         2           **By Discharge of F         T         164         0         1         2         5         17         78         45         13         3           #*By Other and Unspecified Means and Their Sequelae         T         67         6         2         2         1</td></td></t<></td>	Sex         T         51,603         308         51         49           M         27,214         183         23         27           F         24,389         125         28         22           External Causes Continued         T         231         6         3         4           Assault (Homicide)         T         231         6         3         4           M         173         2         1         1         1           F         58         4         2         3           **By Discharge of         T         164         0         1         2           Firearms         M         126         0         0         0         0           F         38         0         1         2         1         1           F         38         0         1         2         1         1           F         38         0         1         2         1         1           F         20         4         1         1         1         1           Events of Undetermined         T         75         4         3         2	ALL CAUSES, Total         Sex T         51,603         308         51         49         60           M         27,214         183         23         27         34           F         24,389         125         28         22         26           External Causes Continued         T         231         6         3         4         6           Assault (Homicide)         T         231         6         3         4         6           M         173         2         1         1         5           F         58         4         2         3         1           **By Discharge of         T         164         0         1         2         5           Firearms         M         126         0         0         4         1         1           **By Other and Unspecified         T         67         6         2         2         1           M         47         2         1         1         1         0           Means and Their Sequelae         M         47         2         1         1         0           Intent         M         51         3 <t< td=""><td>ALL CAUSES, Total         Sex T         51,603         308         51         49         60         206           M         27,214         183         23         27         34         125           F         24,389         125         28         22         26         81           External Causes Continued         T         231         6         3         4         6         18           Assault (Homicide)         T         231         6         3         4         6         18           M         173         2         1         1         5         14           F         58         4         2         3         1         4           **By Discharge of         T         164         0         1         2         5         17           Firearms         M         126         0         0         0         4         14           F         38         0         1         2         1         3           **By Other and Unspecified         T         67         6         2         2         1         1           Events of Undetermined         T         75</td><td>Sex         T         51,603         308         51         49         60         206         1,419           M         27,214         183         23         27         34         125         1,010           F         24,389         125         28         22         26         81         409           External Causes Continued         T         231         6         3         4         6         18         91           Assault (Homicide)         T         231         6         3         4         6         18         91           M         173         2         1         1         5         14         68           F         58         4         2         3         1         4         23           **By Discharge of Firearms         T         164         0         1         2         5         17         78           Firearms         M         126         0         0         0         4         14         59           F         38         0         1         2         1         1         13           Means and Their Sequelae         T         75</td><td>ALL CAUSES, Total         Sex T         51,603 51,603         308 308         51 23         49 27         60 34         206 125         1,419 125         2,595 1,010         1,733 1,733           External Causes Continued Assault (Homicide)         T         231 7         6         3         4         6         18         91 63         63 64           M         173 2         2         1         5         14         68 50         51 7         78 63         45 7         14         63 7           **By Discharge of Firearms         T         164         0         1         2         5         17         78 78         45 79         36 78           **By Other and Unspecified Means and Their Sequelae         T         67 7         6 7         2 7         2 7         1 1         1 3         18 18           Means and Their Sequelae         T         75 7         4         3 7         2 7         0         6 7         1 1         1 1         1 1         1 1           Events of Undetermined Intent         T         75 7         4 7         3 1         2 7         0 7         4 7         1 1         1 1         1 1         1 1           Complications of Medical and Surgical Care         T</td><td>ALL CAUSES, Total         Sex T         51,603 51,603         308 308         51 51         49 49         60 60         206 1,419         1,419 2,595         7,656 7,656           M         27,214         183         23 22         27 34         34 125         1,25 1,010         1,733         4,774 4,774           Assault (Homicide)         T         231         6         3         4         6         18         91         63         27           M         173         2         1         1         5         14         68         50         21           F         58         4         2         3         1         4         23         13         6           **By Discharge of Firearms         T         164         0         1         2         5         17         78         45         13           F         38         0         1         2         1         1         13         18         14           M         126         0         0         4         14         59         36         11           F         38         0         1         2         1         1         10         4<!--</td--><td>ALL CAUSES, Total         Sex T         51,603         308         51         49         60         206         1,419         2,595         7,656         15,745           M         27,214         183         23         27         34         125         1,010         1,733         4,774         8,986           External Causes Continued         T         231         6         3         4         6         18         91         63         27         12           Assault (Homicide)         T         231         6         3         4         6         18         91         63         27         12           M         173         2         1         1         5         14         68         50         21         100           F         58         4         2         3         1         4         23         13         6         2           **By Discharge of F         T         164         0         1         2         5         17         78         45         13         3           #*By Other and Unspecified Means and Their Sequelae         T         67         6         2         2         1</td></td></t<>	ALL CAUSES, Total         Sex T         51,603         308         51         49         60         206           M         27,214         183         23         27         34         125           F         24,389         125         28         22         26         81           External Causes Continued         T         231         6         3         4         6         18           Assault (Homicide)         T         231         6         3         4         6         18           M         173         2         1         1         5         14           F         58         4         2         3         1         4           **By Discharge of         T         164         0         1         2         5         17           Firearms         M         126         0         0         0         4         14           F         38         0         1         2         1         3           **By Other and Unspecified         T         67         6         2         2         1         1           Events of Undetermined         T         75	Sex         T         51,603         308         51         49         60         206         1,419           M         27,214         183         23         27         34         125         1,010           F         24,389         125         28         22         26         81         409           External Causes Continued         T         231         6         3         4         6         18         91           Assault (Homicide)         T         231         6         3         4         6         18         91           M         173         2         1         1         5         14         68           F         58         4         2         3         1         4         23           **By Discharge of Firearms         T         164         0         1         2         5         17         78           Firearms         M         126         0         0         0         4         14         59           F         38         0         1         2         1         1         13           Means and Their Sequelae         T         75	ALL CAUSES, Total         Sex T         51,603 51,603         308 308         51 23         49 27         60 34         206 125         1,419 125         2,595 1,010         1,733 1,733           External Causes Continued Assault (Homicide)         T         231 7         6         3         4         6         18         91 63         63 64           M         173 2         2         1         5         14         68 50         51 7         78 63         45 7         14         63 7           **By Discharge of Firearms         T         164         0         1         2         5         17         78 78         45 79         36 78           **By Other and Unspecified Means and Their Sequelae         T         67 7         6 7         2 7         2 7         1 1         1 3         18 18           Means and Their Sequelae         T         75 7         4         3 7         2 7         0         6 7         1 1         1 1         1 1         1 1           Events of Undetermined Intent         T         75 7         4 7         3 1         2 7         0 7         4 7         1 1         1 1         1 1         1 1           Complications of Medical and Surgical Care         T	ALL CAUSES, Total         Sex T         51,603 51,603         308 308         51 51         49 49         60 60         206 1,419         1,419 2,595         7,656 7,656           M         27,214         183         23 22         27 34         34 125         1,25 1,010         1,733         4,774 4,774           Assault (Homicide)         T         231         6         3         4         6         18         91         63         27           M         173         2         1         1         5         14         68         50         21           F         58         4         2         3         1         4         23         13         6           **By Discharge of Firearms         T         164         0         1         2         5         17         78         45         13           F         38         0         1         2         1         1         13         18         14           M         126         0         0         4         14         59         36         11           F         38         0         1         2         1         1         10         4 </td <td>ALL CAUSES, Total         Sex T         51,603         308         51         49         60         206         1,419         2,595         7,656         15,745           M         27,214         183         23         27         34         125         1,010         1,733         4,774         8,986           External Causes Continued         T         231         6         3         4         6         18         91         63         27         12           Assault (Homicide)         T         231         6         3         4         6         18         91         63         27         12           M         173         2         1         1         5         14         68         50         21         100           F         58         4         2         3         1         4         23         13         6         2           **By Discharge of F         T         164         0         1         2         5         17         78         45         13         3           #*By Other and Unspecified Means and Their Sequelae         T         67         6         2         2         1</td>	ALL CAUSES, Total         Sex T         51,603         308         51         49         60         206         1,419         2,595         7,656         15,745           M         27,214         183         23         27         34         125         1,010         1,733         4,774         8,986           External Causes Continued         T         231         6         3         4         6         18         91         63         27         12           Assault (Homicide)         T         231         6         3         4         6         18         91         63         27         12           M         173         2         1         1         5         14         68         50         21         100           F         58         4         2         3         1         4         23         13         6         2           **By Discharge of F         T         164         0         1         2         5         17         78         45         13         3           #*By Other and Unspecified Means and Their Sequelae         T         67         6         2         2         1

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2021.

Note: Some deaths were unclassified including [H00-H99] Diseases of the eye or ear; [O00-O99] Pregnancy and childbirth; [Y35] Legal intervention; [Y89] Sequelae of war operations; missing cause.

<sup>1</sup>75.4% of accidental poisonings are due to narcotics and hallucinogens in ages 20-64 years.

		Minr	nesota		United	Sates <sup>2</sup>
Cause of Death	Number of Deaths	Death Rates	Percent of Total	RANK	Death Rates	RANK
Malignant Neoplasms [Cancer] (C00-C97)	10,178	178.3	19.7%	1	182.4	2
Diseases of the Heart (100-109,111,113,120-151)	8,570	150.2	16.6%	2	209.6	1
COVID-19 (U071)	4,439	77.8	8.6%	3	125.6	3
Accidents (V01-X59,Y85-Y86) Falls (WOO-W19) Accidental poisoning (X40-X49) Motor Vehicle <sup>3</sup>	3,752 1,340 1,306 604	65.7 23.5 22.9 10.6	7.3% 2.6% 2.5% 1.2%	4	67.8	4
Cerebrovascular Diseases [Stroke] (160-169)	2,384	41.8	4.6%	5	49.1	5
Alzheimer's Disease (G30)	2,251	39.4	4.4%	6	36.0	7
Chronic Lower Respiratory Diseases (J40-J47)	2,066	36.2	4.0%	7	42.9	6
Diabetes Mellitus (E10-E14)	1,575	27.6	3.1%	8	31.1	8
Essential Hypertension and Hypertensive Renal Disease (I10, I12, I15)	908	15.9	1.8%	9	12.9	12
Chronic Liver Disease (K70, K73-K74)	885	15.5	1.7%	10	17.0	9
All Other Causes	14,595	255.7	28.3%		238.6	
Total - All Causes	51,603	904.1			1,043.8	

Table 3. MN Ten Leading Causes of Death<sup>1</sup>, Death Rates per 100,000 Population, Percent of Total Deaths, and Rank Order, Minnesota Residents, 2021.

<sup>1</sup>These are the 10 leading causes of death for residents of Minnesota listed in descending order of prevalence. Categories based on US 113 causes deemed rankable. MN rates and rank order are compared with US rates and rank order.

<sup>2</sup> United States data are from Mortality in the United States, 2021 & CDC wonder

<sup>3</sup>Motor Vehicle cause codes: V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0,V89.2

**Note:** Codes listed in parantheses are the ICD10 codes included in each category.

**Note:** Some deaths are unclassified including [H00-H99] Diseases of the eye or ear; [O00-O99] Pregnancy and childbirth; [Y35] Legal intervention; [Y89] Sequelae of war operations; and missing cause.

	No. <sup>1</sup> of		Death Rate <sup>2</sup>		No. <sup>1</sup> of		Death Rate <sup>2</sup>
	Deaths	%	Per 100,000		Deaths	%	Per 100,000
	1-4 Years				5-49 Years		
Total - all causes	51		18.6	Total - all causes	2,595		238.8
Accidents	16	31.4%		Accidents	655	25.2%	60.3
Motor Vehicle	8	15.7%		Accidental poisoning <sup>3</sup>	437	16.8%	40.2
Congenital Anomalies	8	15.7%		Motor Vehicle	129	5.0%	11.9
Malignant Neoplasms	5	9.8%		Malignant Neoplasms	353	13.6%	32.5
Assault (Homicide)	3	5.9%		Diseases of the Heart	268	10.3%	24.7
Septicemia	1	2.0%		Covid-19	231	8.9%	21.3
				Intentional Self-Harm	191	7.4%	17.6
	5-9 Years			5	0-64 Years		
Total - all causes	49		13.4	Total - all causes	7,656		694.9
Accidents	16	32.7%		Malignant Neoplasms	1,995	26.1%	181.1
Motor Vehicle	5	10.2%		Diseases of the Heart	946	12.4%	85.9
Malignant Neoplasms	8	16.3%		Covid-19	887	11.6%	80.5
Assault (Homicide)	4	8.2%		Accidents	601	7.9%	54.6
Influenza and Pneumonia	2	4.1%		Accidental poisoning <sup>3</sup>	306	4.0%	27.8
Influenza	1	2.0%		Motor Vehicle	116	1.5%	10.5
Pneumonia	1	2.0%		Liver Disease, Cirrhosis	361	4.7%	32.8
Covid-19	1	2.0%		Diabetes Mellitus	343	4.5%	31.1
	10-14 Years			Chron. Lower Resp Dis.	238	3.1%	21.6
Total - all causes	60		15.7	Cerebrovascular	229	3.0%	20.8
Accidents	15	25.0%		6	5-79 Years <sup>2</sup>		
Motor Vehicle	6	10.0%		Total - all causes	15,745		2131.7
Accidental poisoning <sup>3</sup>	4	6.7%					
Other Transport	1	1.7%		Malignant Neoplasms	4393	27.9%	594.8
Intentional Self-Harm	8	13.3%		Diseases of the Heart	2256	14.3%	305.4
Malignant Neoplasms	6	10.0%		Covid-19	1553	9.9%	210.3
Assault (Homicide)	6	10.0%		Chron. Lower Resp Dis.	880	5.6%	119.1
Congenital Anomalies	4	6.7%		Cerebrovascular Diseases	649	4.1%	87.9
	15-19 Years			Diabetes Mellitus	600	3.8%	81.2
Total - all causes	206		55.0	Accidents	559	3.6%	
				Falls	272	1.7%	36.8
Accidents	94	45.6%	25.1	Motor Vehicle	109	0.7%	14.8
Accidental poisoning <sup>3</sup>	41	19.9%	10.9	Alzheimer's Disease	375	2.4%	50.8
Motor Vehicle	40	19.4%	10.7	Unspecified Dementia	301	1.9%	40.8
Intentional Self-Harm	39	18.9%	10.4		ears and Ove	r <sup>2</sup>	
Assault (Homicide)	18	8.7%		Total - all causes	23,514		10,833.0
Congential Malformations	8	3.9%					
Diseases of the Heart	7	3.4%		Diseases of the Heart	5,036	21.4%	
				Malignant Neoplasms	3,355	14.3%	
	20-34 Years			Alzheimer's Disease	1,856	7.9%	
Total - all causes	1,419		128.8	Unspecified Dementia	1,802	7.7%	
<b>.</b>			F. 4	Covid-19	1,702	7.2%	
Accidents	640	45.1%		Cerebrovascular Diseases	1,443	6.1%	
Accidental poisoning <sup>3</sup>	448	31.6%		Accidents	1,137	4.8%	
Motor Vehicle	139	9.8%		Falls	958	4.1%	
Intentional Self-Harm	236	16.6%	21.4	Chron. Lower Resp Dis.	932	4.0%	429.4
Assault (Homicide)	91	6.4%	8.3				
Covid-19	61	4.3%	5.5				
Malignant Neoplasms	58	4.1%	5.3				

# Mortality Table 4. Leading Causes of Death by Age Groups, Counts, and Age/Cause-specific Death Rates, Minnesota Residents, 2021.

<sup>1</sup> Rates are per 100,000 age group-specific population. Rates are only calculated for those with a count of 20 or more due to the instability and unreliability of rate estimates with fewer than 20 deaths.

<sup>2</sup> Age groups for those 65 and older were redefined and are not comparable to 65-74 and 75+ from previous years.

<sup>3</sup>75.4% of accidental poisonings are due to narcotics and hallucinogens in ages 20-64 years.

Annual Summary

#### Mortality Table 5a. Deaths Due to Selected Causes by Race/Ethnicity, MN Residents, 2021.

				Non-His	spanic			
	Total	White	African American	American Indian	Asian or Pacific Islander	Multiracial	Other/ Unknown	Hispanic
TOTAL POPULATION <sup>1</sup>	5,707,390	4,458,035	409,602	60,687	305,845	139,747	N/A	333,474
TOTAL - ALL CAUSES	51,647	46,041	2,217	896	1,169	390	72	862
TOTAL - Natural Causes	46,661	42,241	1,691	670	1,055	274	64	666
Malignant Neoplasms	10,178	9,274	354	102	219	60	12	157
Stomach	158	134	5	0	16	2	0	1
Colon, Rectum and Anus	832	740	39	7	26	4	0	16
Pancreas	829	768	30	6	9	2	1	13
Trachea, Bronchus, Lung	2,224	2,022	80	42	41	15	4	20
Breast	674	622	20	5	10	7	3	7
Cervix, Uterus, Ovary	468	418	18	3	16	3	0	10
Prostate	602	566	16	6	4	2	0	8
Non-Hodgkins Lymphoma	408	385	11	2	1	2	0	7
Leukemia	409	381	13	4	4	1	0	6
Other Malignancies	3,574	3,238	122	27	92	22	4	69
Diabetes Mellitus	1,575	1,323	95	55	56	7	0	39
Alzheimer's Disease	2,251	2,157	38	11	21	6	0	18
Major Cardiovascular	12,276	11,249	431	128	261	61	13	133
Diseases of the Heart	8,571	7,950	269	83	127	43	9	90
Essential Hypertension & Hypertensive Renal	908	802	52	10	30	4	1	9
Cerebrovascular	2,384	2,119	96	31	95	11	2	30
Influenza & Pneumonia	392	355	10	2	20	1	1	3
Chronic Lower	552	555	10	2	20	1	-	5
Respiratory Diseases	2,066	1,944	53	25	25	8	2	9
Chronic Liver Disease and Cirrhosis	885	734	35	60	21	14	1	20
Nephritis, Nephrotic Syndrome, and Nephrosis	509	442	20	14	18	3	1	11
All Other Diseases	16,529	14,763	655	273	414	114	34	276
Total Accidents	3,752	2,940	351	176	69	78	5	133
Motor Vehicle Accidents	604	472	56	23	19	11	3	20
Falls	1,340	1,285	9	9	15	5	1	16
Accidental poisoning	1,306	777	246	125	22	59	1	76
Intentional Self-Harm (Suicide)	809	656	29	29	36	19	3	37
Assault (Homicide)	231	67	122	8	5	13	0	16
Other External Causes	194	137	24	13	4	6	0	10
COVID-19	4,439	3,762	206	112	190	29	3	137

<sup>1</sup> Annual Estimates are single-race Vintage 2021 postcensal estimates of the July 1 resident population. These estimates were prepared by the Census Bureau in collaboration with NCHS. Single race estimates created for six single race categories (including multiracial) or Hispanic categories based on the 1997 OMB standards. There are no population estimates for other/unknown. For more information or access to the data, see: <a href="https://wonder.cdc.gov/wonder/help/single-race.html">https://wonder.cdc.gov/wonder/help/single-race.html</a>

Note: see Table 5b for crude rates.

				Non-H	ispanic			
	Total	White	African American	American Indian	Asian or Pacific Islander	Multiracial	Other/ <sup>3</sup> Unknown	Hispanic
TOTAL - ALL CAUSES	904.9	1,032.8	541.3	1,476.4	382.2	279.1	N/A	258.5
TOTAL - Natural Causes	817.6	947.5	412.8	1,104.0	344.9	196.1	N/A	199.7
Malignant Neoplasms	178.3	208.0	86.4	168.1	71.6	42.9	N/A	47.1
Stomach	2.8	3.0					N/A	
Colon, Rectum and Anus	14.6	16.6	9.5		8.5		N/A	
Pancreas	14.5	17.2	7.3				N/A	
Trachea, Bronchus, Lung	39.0	45.4	19.5	69.2	13.4		N/A	6.0
Breast	11.8	14.0	4.9				N/A	
Cervix, Uterus, Ovary	8.2	9.4					N/A	
Prostate	10.5	12.7					N/A	
Non-Hodgkins Lymphoma	7.1	8.6					N/A	
Leukemia	7.2	8.5					N/A	
Other Malignancies	62.6	72.6	29.8	44.5	30.1	15.7	N/A	20.7
Diabetes Mellitus	27.6	29.7	23.2	90.6	18.3		N/A	11.7
Alzheimer's Disease	39.4	48.4	9.3		6.9		N/A	
Major Cardiovascular	215.1	252.3	105.2	210.9	85.3	43.7	N/A	39.9
Diseases of the Heart	150.2	178.3	65.7	136.8	41.5	30.8	N/A	27.0
Essential Hypertension & Hypertensive Renal	15.9	18.0	12.7		9.8		N/A	
Cerebrovascular	41.8	47.5	23.4	51.1	31.1		N/A	9.0
Influenza & Pneumonia	6.9	8.0			6.5		N/A	
Chronic Lower Respiratory Diseases	36.2	43.6	12.9	41.2	8.2		N/A	
Chronic Liver Disease and Cirrhosis	15.5	16.5	8.5	98.9	6.9		N/A	6.0
Nephritis, Nephrotic Syndrome, and Nephrosis	8.9	9.9	4.9				N/A	
All Other Diseases	289.6	331.2	159.9	449.8	135.4	81.6	N/A	82.8
Total Accidents	65.7	65.9	85.7	290.0	22.6	55.8	N/A	39.9
Motor Vehicle Accidents	10.6	10.6	13.7	37.9			N/A	6.0
Falls	23.5	28.8					N/A	
Accidental poisoning	22.9	17.4	60.1	206.0	7.2	42.2	N/A	22.8
Intentional Self-Harm (Suicide)	14.2	14.7	7.1	47.8	11.8		N/A	11.1
Assault (Homicide)	4.0	1.5	29.8				N/A	
Other External Causes	3.4	3.1	5.9				N/A	
COVID-19	77.8	84.4	50.3	184.6	62.1	20.8	N/A	41.1

### Mortality Table 5b. Cause-Specific Mortality Rates<sup>1,2</sup> by Race/Ethnicity, MN Residents, 2021.

<sup>1</sup>Rates are per 100,000 race/ethnicity specific population. Rates not computed for counts <20 due to unreliability (--).

<sup>2</sup> Population denominator data are single-race postcensal estimates obtained from CDC WONDER: wonder.cdc.gov.

<sup>3</sup> No cause-specific rates can be calculated for persons of other or unknown races due to no population data for this subgroup. **Note:** see Table 5a for counts.

			Geo	ographic Reside	nce <sup>2</sup>	
	Total <sup>1</sup>	Large Urban	Large Suburban	Medium/ Small Metro	Micropolitan	Noncore
TOTAL POPULATION	5,707,390	1,810,673	1,757,125	881,869	676,627	581,096
TOTAL - ALL CAUSES	51,615	14,882	13,253	8,460	7,561	7,459
TOTAL - Natural Causes	46,646	13,100	12,074	7,670	6,943	6,859
Malignant Neoplasms	10,178	2,829	2,756	1,621	1,436	1,536
Stomach	158	56	44	18	25	15
Colon, Rectum and Anus	832	235	197	136	127	137
Pancreas	829	240	224	136	104	125
Trachea, Bronchus, Lung	2,224	576	594	372	303	379
Breast	674	210	197	91	92	84
Cervix, Uterus, Ovary	468	152	116	77	64	59
Prostate	602	135	181	110	92	84
Non-Hodgkins Lymphoma	408	104	111	73	67	53
Leukemia	409	99	107	60	74	69
Other Malignancies	3,574	1,022	985	548	488	531
Diabetes Mellitus	1,574	492	369	213	226	274
Alzheimer's Disease	2,251	609	576	436	343	287
Major Cardiovascular	12,272	3,430	2,933	2,122	1,832	1,955
Diseases of the Heart	8,567	2,220	1,989	1,537	1,380	1,441
Essential Hypertension & Hypertensive Renal	908	326	247	112	85	138
Cerebrovascular	2,384	759	589	402	308	326
nfluenza & Pneumonia	392	106	94	63	57	72
Chronic Lower Respiratory Diseases	2,065	472	536	364	359	334
Chronic Liver Disease and Cirrhosis	885	301	220	135	124	105
Nephritis, Nephrotic Syndrome, and Nephrosis	509	146	131	85	74	73
All Other Diseases	16,520	4,715	4,459	2,631	2,492	2,223
Fotal Accidents	3,740	1,350	872	587	467	464
Motor Vehicle Accidents	603	152	137	101	94	119
Falls	1,340	426	364	207	183	160
Accidental Poisoning	1,295	606	267	201	115	106
ntentional Self-Harm (Suicide)	806	208	218	152	116	112
Assault (Homicide)	230	140	40	25	17	8
Other External Causes	193	84	49	26	18	16
COVID-19	4,435	1,032	1,431	613	691	668

#### Mortality Table 6a. Deaths Due to Selected Causes by Rural/Urban Residence, MN Residents, 2021.

<sup>1</sup>Total excludes missing cause of death and/or missing county of residence.

<sup>2</sup> Classification is based on the National Center for Health Statistics (NCHS) Urban-Rural Classification Scheme for Counties. See <u>https://www.cdc.gov/nchs/data\_access/urban\_rural.htm</u> for more information.

Note: see Table 6b for crude rates.

			Ge	ographic Reside	ence	
	- Total <sup>1</sup>	Large Urban	Large Suburban	Medium/ Small Metro	Micropolitan	Noncore
TOTAL - ALL CAUSES	904.4	821.9	754.2	959.3	1,117.5	1,283.6
TOTAL - Natural Causes	817.3	723.5	687.1	869.7	1,026.1	1,180.4
Malignant Neoplasms	178.3	156.2	156.8	183.8	212.2	264.3
Stomach	2.8	3.1	2.5		3.7	
Colon, Rectum and Anus	14.6	13.0	11.2	15.4	18.8	23.6
Pancreas	14.5	13.3	12.7	15.4	15.4	21.5
Trachea, Bronchus, Lung	39.0	31.8	33.8	42.2	44.8	65.2
Breast	11.8	11.6	11.2	10.3	13.6	14.5
Cervix, Uterus, Ovary	8.2	8.4	6.6	8.7	9.5	10.2
Prostate	10.5	7.5	10.3	12.5	13.6	14.5
Non-Hodgkins Lymphoma	7.1	5.7	6.3	8.3	9.9	9.1
Leukemia	7.2	5.5	6.1	6.8	10.9	11.9
Other Malignancies	62.6	56.4	56.1	62.1	72.1	91.4
Diabetes Mellitus	27.6	27.2	21.0	24.2	33.4	47.2
Alzheimer's Disease	39.4	33.6	32.8	49.4	50.7	49.4
Major Cardiovascular	215.0	189.4	166.9	240.6	270.8	336.4
Diseases of the Heart	150.1	122.6	113.2	174.3	204.0	248.0
Essential Hypertension &	15.9	18.0	14.1	12.7	12.6	23.7
Hypertensive Renal	44.0		22 5	45.6	45.5	56.4
Cerebrovascular	41.8	41.9	33.5	45.6	45.5	56.1
Influenza & Pneumonia	36.2	5.9	5.3	7.1	8.4	12.4
Chronic Lower Respiratory Diseases	15.5	26.1	30.5	41.3	53.1	57.5
Chronic Liver Disease and Cirrhosis	8.9	16.6	12.5	15.3	18.3	18.1
Nephritis, Nephrotic Syndrome, and Nephrosis	8.9	8.1	7.5	9.6	10.9	12.6
All Other Diseases	289.4	260.4	253.8	298.3	368.3	382.6
Total Accidents	65.5	74.6	49.6	66.6	69.0	79.8
Motor Vehicle Accidents	10.6	8.4	7.8	11.5	13.9	20.5
Falls	23.5	23.5	20.7	23.5	27.0	27.5
Accidental Poisoning	22.7	33.5	15.2	22.8	17.0	18.2
Intentional Self-Harm (Suicide)	14.1	11.5	12.4	17.2	17.1	19.3
Assault (Homicide)	4.0	7.7	2.3	2.8		
Other External Causes	3.4	4.6	2.8	2.9		
COVID-19	77.7	57.0	81.4	69.5	102.1	115.0

### Mortality Table 6b. Cause-Specific Mortality Rates<sup>1,2</sup> by Rural/Urban Residence, MN Residents, 2021.

<sup>1</sup> Rates are per 100,000 rural/urban specific population. Rates not computed for counts <20 due to instability and unreliability.</li>
 <sup>2</sup> Population denominator data are summed from CDC NCHS Vintage 2021 single-race estimates of population:

https://wonder.cdc.gov/wonder/help/single-race.html

Note: see Table 6a for counts.

Annual Summary

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# **Appendices**

# **Appendix A -- Technical Notes**

# Sources of Data

### **Vital Events**

Birth and death registration and fetal death reports filed with the Office of the Vital Records, Minnesota Department of Health for calendar year 2021 are the source documents for data on vital statistics of Minnesota residents. Late 2021 vital event certificates may have been filed after preparation of the annual report. Future data obtained from MDH may differ from that which appears in this report due to updates to the data year made after the cutoff date.

Live births and deaths to Minnesota residents that occurred in another state are included in this report insofar as they are reported to the Office of Vital Records. The inclusion of these data is made possible by an agreement for exchange of copies of resident certificates among all registration areas in the United States. Not all of the states participate in the exchange of fetal death reports; thus, this report includes only fetal deaths that occurred to Minnesota residents.

#### **Population Data**

Annual Estimates are single-race Vintage 2021 postcensal estimates of the July 1 resident population. These estimates were prepared by the Census Bureau in collaboration with NCHS. Single race estimates created for six single race categories (including multiracial) or Hispanic categories based on the 1997 OMB standards. There are no population estimates for other/unknown. For more information or access to the data, see:

<u>https://wonder.cdc.gov/wonder/help/single-race.html</u> This is a change from previous years which used the bridged-race estimates for populations. The bridged race program was sunset in 2020. The single-race data should not be compared to the bridged-race population estimates due to differences in how populations are classified.

Sociodemographic data are obtained from the American Community Survey, 1-year and 5-year estimates, which are produced by the United States Census Bureau. The 1-year estimates for the preceding year are available in late summer. The 5-year estimates are based on pooled data from the preceding five years and are typically available in December. Five-year estimates are more reliable because they are based on a larger sample size. The 1-year and 5-year estimates are not typically different from one another.

Estimates of the total populations for Minneapolis, Edina, Bloomington, Richfield, St. Paul, and Duluth were also obtained from the U.S. Census Bureau. However, no age or race-specific data are available for cities.

# Rates

Absolute counts of health-related events do not readily lend themselves to comparison between years or across various geographic areas because of population differences and, in some cases, the small number of reported events. These demographic differences include total numbers of events and of the population, age and sex distributions, and ethnic and/or racial composition. In order to assess the health status of a particular population at a specified time, the absolute number of events is converted to a relative number such as a rate, a ratio, or an index. In cases where there are a small number of birth or death events, rate calculations and sometimes counts, are suppressed (see description at the end of the section). Some of the most common rates are described below. Additional definitions are provided in Appendix B at the end of this document.

### **Crude Rates**

A crude rate is a good measure of the overall magnitude of an event (e.g., birth or death) in a population. The crude rate is useful information for some purposes, such as planning for the delivery of health care services. One should be cautious when comparing crude rates over time or across other geographies such as a county or another state. Notably, differences in crude rates may be due to a substantially younger or older population.

A crude birth or death rate is simply the number of events divided by the total population (the denominator), multiplied by some constant so that the result is not a fraction. For birth rates and death rates, 100,000 is the most commonly used multiplier, resulting in rates per 100,000 total population.

Other frequently reported rates include crude fertility rates, pregnancy rates, and abortion rates, all of which use the population of women ages 15 to 44 years as the denominator. Fertility rates are the number of <u>births</u> divided by the population of women ages 15 to 44 years. Pregnancy rates are the number of <u>pregnancies</u> divided by the population of women ages 15 to 44 years. Abortion rates are the number of <u>abortions</u> divided by the population of women ages 15 to 44 years. 15 to 44 years. Abortion rates are the number of <u>abortions</u> divided by the population of women ages 15 to 44 years.

### **Age-Specific Death Rates**

An age-specific death rate is useful in understanding the influence each age group has on the overall crude death rate. Mortality Table 4 shows age-specific death rates for the state of Minnesota using nine age groups.

An age-specific death rate is the number of deaths to an age group divided by the population for that age group, often multiplied by some constant so that the result is not a fraction (for death rates, 100,000 is the most commonly used multiplier). Not surprisingly, the death rates are many times higher in the oldest age groups.

### **Infant Death Rates**

Because infant deaths are strongly associated with characteristics of their birth mothers, the standard is to use a linked birth/infant death data set, which comprises infant death records linked with their individual birth records. This allows for a more thorough examination of maternal demographic, pregnancy, or labor and delivery characteristics, and birth outcomes. This also allows for a more relevant denominator, namely the number of live-born infants rather than the total population of infants.

The national standard for reporting infant mortality is an annual period rate. Annual period rates are based on the linked birth/infant death records for all infants who die in a given year (period) using all live births from that same period as the denominator. Cohort rates are also used in infant mortality research, although they are not reported here (see Infant Mortality in Appendix B for additional information). The <u>infant mortality rate</u> is then defined as the number of infants born alive in a given year that die within the first year of life for every 1,000 live births in that same year.

Additional details about several other infant death-related measures are included in the appendix. This includes fetal deaths, neonatal deaths, and postneonatal deaths.

## Data suppression

In cases where there are fewer than 20 birth or deaths in a specific geography or by a certain characteristic, data may be suppressed in this report. There is a range of different suppression rules used by different agencies. However, we are reporting vital statistics data, so we use the rules from the National Vital Statistics System. Suppression of data serves two purposes: 1) to protect confidentiality and 2) to ensure statistical reliability when calculating rates. Local public health agencies may request unsuppressed counts by sending a request to HealthStats@state.mn.us.

Suppression rules for <u>confidentiality</u> are based on both the size of the geographic area and the number of events. For example, a county can be an area that is sparsely populated or it can have a large population but small cells still occur when stratifying outcomes by other factors such as small ethnicity groups and small age groups. In these cases, there is risk of deductive disclosure. In other words, with the combination of variables, it may be possible to identify a specific person and deduce something about their private health information. In national reports, small counts are sometimes reported (but not a corresponding rate). However, these counts are for VERY large geographic areas, so there is no risk of deductive disclosure. Risk of deductive disclosure only applies to data that include protected health information, most commonly birth or fetal death data.

Suppression rules for <u>reliability</u> are based on the production of unstable rate estimates due to the increased amount of variability (standard deviation) around the estimate. This means that the actual rate may be much higher or much lower. Moreover, a change of one or two events more or less can change the rate dramatically, giving the impression that there is a large change when in fact it is due to random variability of the estimates. For example, in a fictitious place where there are 146 births and 2 infant deaths, the infant mortality rate appears to be 13.7 deaths per 1,000 live births. The following year, in this same place, there are 154 births and 3 infant deaths. The infant mortality rate now appears to be 19.5 deaths per 1,000 live births. It is inappropriate to draw any conclusion from these data because the numbers are too small to produce an estimate that is not subject to random variation. More events in a given time and place will produce relatively stable estimates over time, unless there is an actual cause for a change. This situation applies to any vital event that is reported.

# Race/Hispanic Ethnicity Data Collection and Reporting

More than one race may be selected when reporting race of mother and father on a birth record or fetal death report or when reporting the race of decedent on a death record. In 2021, approximately 3.2% of Minnesota resident birth mothers chose more than one race, while approximately 2.5% of resident death records indicated multiple races. Values may differ from in the past due to changes in classification for race from bridged-race to single-race classification.

For those who report more than one race, they are categorized as Multiracial. White, Black, American Indian, or Asian/Pacific Islander are categorized as such when only one race is reported. Single-race began in 2021, with bridged-race phased out in 2020, and should not be compared to previous years due to change in categorization. Due to the small number of other/unknown persons in Minnesota, there is little or no effect on the percentages and rates by race reported in this report.

Beginning with reporting year 2017, race/ethnicity data reporting changed from reporting race and Hispanic ethnicity separately to reporting each non-Hispanic race group individually. All birth and death events to those identified as Hispanic are included in the Hispanic group regardless of any other reported races. The final set of mutually exclusive groups are now: non-Hispanic White, non-Hispanic Black, non-Hispanic American Indian, non-Hispanic Asian or other Pacific Islander, non-Hispanic Multiracial, non-Hispanic Other or Unknown, and Hispanic. These changes are based on National Vital Statistics System (NVSS) and NCHS practices for reporting race and ethnicity.

# **Geographic Allocation**

Vital events are classified geographically in two ways. The first is by place of occurrence, (i.e., the state, county, and city in which the birth or death took place). The second and more customary way is by place of residence, (i.e., the state, county, and city that is the usual residence of the decedent in the case of a death or of the mother in the case of a birth). Fetal deaths and infant deaths in cases where the child was never discharged from the hospital are classified to the residence of the mother. While occurrence statistics are accurate and have both administrative value and some statistical importance, resident statistics are the more useful tool when constructing health indices for planning and evaluation purposes. The statistics provided in this report are residence data unless otherwise stated.

# **Rural/Urban Classification**

It is often meaningful to examine health differences across the urban/rural continuum. For many health indicators, residents of large suburban metropolitan areas fare better than residents of either urban metro areas or rural areas. In this report, we use the urban-rural classification scheme for counties that was developed by the National Center for Health Statistics. Counties are classified into six urbanization levels (four metropolitan and two nonmetropolitan) and range from most urban to most rural based on the 2013 classification.

#### 2021 MINNESOTA HEALTH STATISTICS ANNUAL SUMMARY

	Urbanization Level	Population	Largest city	
_	Large urban metro	rge urban metro >= 1,000,000		
politar	Large suburban metro	>= 1,000,000	largest city < 250,000	
Metropolitan	Medium metro	250,000 - 999,999	N/A	
	Small metro	< 250,000	N/A	
netro ral)	Micropolitan	10,000 - 49,999	urban area >= 2,500	
Nonmetro (rural)	Non-core	< 49,999	no urban area > 2,500	

# **Appendix B -- Definitions**

### Abortion (induced termination of pregnancy):

An act, procedure, or use of any instrument, medicine, or drug, which is supplied or prescribed for or administered to a pregnant woman, which results in the termination of pregnancy.

#### Age/cause-specific death rate:

Number of deaths due to a particular underlying cause for a specified age group per 100,000 population comprising the same specified age group.

#### Age-specific pregnancy rate:

Number of pregnancies (live births plus fetal deaths plus induced abortions) to women of a specified age group per 1,000 females in the population of the same specified age group. The standard pregnancy rate is the number of pregnancies per 1,000 females ages 15-44.

#### **Birthweight:**

Birthweight is documented and reported in grams. An infant is considered to have low birthweight if it weighs less than 2,500 grams (5.5 pounds) at birth. Infants defined as macrosomic or high birthweight weigh equal to or more than 4,000 grams (8 pounds, 13 ounces) at birth.

#### **Cause of death:**

Causes of death are classified according to the International Classification of Diseases of the World Health Organization (ICD-10). In this report, the underlying cause of death is used to classify the cause of death. The underlying cause of death is either the disease or injury that initiated the series of events leading directly to death or the accident or violence that produced the fatal injury. Other potentially contributing causes of death are not shown in this report.

#### **Crude birth rate:**

Number of live births per 1,000 total population.

#### **Crude death rate:**

Number of deaths per 1,000 total population or per 100,000 total population.

#### **Fertility rate:**

Total number of live births per 1,000 females ages 15 to 44 years.

#### Fetal death:

Death prior to the complete expulsion or extraction of a product of conception from its mother, irrespective of the duration of the pregnancy. The death is indicated by the fact that, after expulsion or extraction, the fetus does not breathe or show any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles. All fetal deaths of 20 weeks or more are required by state statute to be reported using the report of stillbirth/fetal death. In the Minnesota Annual reports, only fetal deaths of 20 weeks or more gestation are reported unless otherwise noted.

#### Fetal death rate:

Number of fetal deaths per 1,000 live births plus fetal deaths.

#### **Gestation or gestational age:**

The period of intrauterine development of the fetus, expressed in completed weeks, defined by the physician's estimate of gestation. Gestational age was previously reported based on documented last menstrual period. Beginning in 2017, gestational age is based on physician's estimate. Comparisons of the classifications are remarkably similar, except physician's estimate has fewer missing cases.

#### Infant death:

The death of a live-born infant under one year of age. Infants born with no signs of life are classified as fetal deaths (see Fetal death, above).

#### Infant mortality rate:

The national standard for reporting infant mortality is an annual period rate using linked birth/infant death records. Annual period rates are calculated from records for all infants who die in a given year (period) using all live births from that same period as the denominator. In other words, all infants that die in 2021, regardless of whether they were born in 2020 or 2021 are included for annual period rate calculations. The infant mortality rate is then defined as the number of infants born alive in a given year that die within the first year of life for every 1,000 live births in that same year.

#### Live birth:

The complete expulsion or extraction of a product of conception from its mother irrespective of the duration of pregnancy which, after such separation, breathes or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles whether or not the umbilical cord has been cut or the placenta is attached. Each product of such a birth is considered a live birth and is required by state statute to be registered as a live birth, regardless of gestation or length of time living after birth.

#### **Neonatal death:**

The death of a live-born infant under 28 days of age.

#### Neonatal death rate:

Number of neonatal deaths per 1,000 live births.

#### **Perinatal death:**

The death of a fetus after 28 weeks of gestation or a live-born infant under 7 days of age.

#### **Perinatal death rate:**

Number of perinatal deaths per 1,000 live births plus fetal deaths.

#### **Postneonatal death:**

The death of a live-born infant between 28 days and 1 year of age.

#### Postneonatal death rate:

Number of postneonatal deaths per 1,000 live births.

#### Prenatal Care (Indices):

<u>Late prenatal care</u> is defined as a woman entering prenatal care in the third trimester or receiving no prenatal care.

<u>Adequacy of prenatal care</u> can be calculated using a variety of indices. For the Minnesota Annual reports, a new index is being used. In previous years, prenatal care adequacy was assessed using the graduated index (GINDEX). The GINDEX is calculated by combining measures of the month or trimester that prenatal care began, the number of prenatal visits, and the gestational age of the infant/fetus at the time of birth. Starting in 2017, Kotelchuck's Adequacy of Prenatal Care Utilization (APNCU) is being used, in keeping with the standards for national reporting. It should be noted that the APNCU results in a different distribution of the adequacy of prenatal care than provided by the previously used GINDEX; thus, previous years' adequacy measures are not comparable. Specifically, in national data, the APNCU identified both a greater number of intensive and slightly more inadequate PNC users.

The APNCU is also calculated using the month prenatal care began, the number of prenatal visits, and the gestational age of the infant/fetus at the time of birth. However, this measure incorporates an estimate of the expected number of prenatal care visits compared with the actual number of prenatal care visits received. The month prenatal care began is used to calculate the adequacy of entry into prenatal care. The expected number of prenatal care visits given gestational age (defined by the American College of Obstetricians and Gynecologists (ACOG)) is calculated and divided by the actual number of visits to create a ratio of expected to actual visits. This ratio is then combined with the adequacy of entry into prenatal care as Adequate Plus, Adequate, Intermediate, Inadequate, or None.

Intensive use of prenatal care (adequate plus) is associated with poor birth outcomes, due in most part to more prenatal care needed for high risk pregnancies. Thus, distinguishing those with intensive use of prenatal care from those with adequate/expected prenatal care is meaningful for understanding pregnancy risks and adverse birth outcomes.

#### **Residence:**

Residence is the geographic area of the usual place of residence of the mother (in the case of a live birth or fetal death) or of the deceased at the time of death. This means, in general, the place where one lives and sleeps most of the time. However, when the decedent's usual residence is in a nursing home or other institution where a patient resided for receiving care, residence is coded to the place, if known, where the patient lived prior to admission to the institution.

#### **Trimester:**

One third of the total gestational period necessary for a full-term pregnancy (9 months). Thirteen weeks are allotted to each trimester. The count of weeks begins with the first day of the last menstrual period.