

2020 Minnesota Health Statistics

ANNUAL SUMMARY

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2020 MN Health Statistics Annual Summary

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Table 1. Percent change between 2019 and 2020 selected Minnesota Health Statistics for Minnesota residents.

Category	2019	2020	Percent Change
Total Population	5,639,632	5,657,342	0.3%
Population of Females 15-44	1,081,656	1,087,455	0.5%
Total Pregnancies to MN Residents	75,430	72,039	-4.5%
Live Births to MN Residents	66,033	63,462	-3.9%
Birth Rate (births per 1,000 total MN population)	11.7	11.2	-4.2%
Pregnancy Rate (pregnancies per 1,000 females ages 15-44)	69.7	66.2	-5.0%
Fertility Rate (births per 1,000 Females Ages 15-44)	61.0	58.4	-4.4%
Births to Unmarried Mothers (%)	32.0%	32.7%	2.3%
Low birthweight (Less than 2,500 grams)	6.9%	6.7%	-2.8%
Preterm (Less than 37 weeks gestation) ¹	9.2%	9.1%	-1.7%
Fetal Deaths ²	363	326	-10.2%
Infant Deaths (Infants aged < 1 year)	302	264	-12.6%
Neonatal Deaths (Infants aged < 28 days)	208	185	-11.1%
Postneonatal Deaths (Infants aged 28 days to < 1 year)	94	79	-16.0%
Fetal Mortality Rate (per 1,000 live births + Fetal Deaths)	5.5	5.1	-6.5%
Infant Mortality Rate (per 1,000 live births)	4.6	4.2	-9.0%
Neonatal Mortality Rate (per 1,000 live births)	3.1	2.9	-7.5%
Postneonatal Mortality Rate (per 1,000 live births)	1.4	1.2	-12.6%
All Deaths	45,516	52,372	15.1%
Death Rate (per 1,000 Total MN Population)	8.1	9.3	14.7%
COVID-19 Deaths		5,215	
COVID-19 Crude Rate (per 1,000 Total MN Population)		0.9	
COVID-19 Crude Rate (per 100,000 Total MN Population)		92.2	
Cancer Deaths (Malignant Neoplasms)	9,878	9,941	0.6%
Heart Disease Deaths	8,183	8,563	4.6%
Unintentional Injury Deaths	2,733	3,321	21.5%
Alzheimer's Disease Deaths	2,568	2,587	0.7%
Chronic Lower Respiratory Disease Deaths	2,250	2,211	-1.7%
Stroke Deaths (Cerebrovascular Diseases)	2,307	2,316	0.4%
Diabetes Deaths	1,394	1,493	7.1%
Suicide Deaths (Intentional Self-harm)	802	757	-5.6%

¹Based on Clinical Estimate of Gestation, all live births.

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

Table 2. Selected Demographic and Socioeconomic Characteristics of Minnesota Residents, Changes from 2019 to 2020

Category	2019	2020	Percent Change
Total Population	5,639,632	5,657,342	0.3%
Age groups			
Population < 5 years	351,622	345,991	-1.6%
Population 0-19 years	1,445,346	1,441,077	-0.3%
Population >= 65 years	920,382	948,841	3.1%
Race/ethnicity¹			
White, non-Hispanic	4,526,589	4,513,407	-0.3%
African American, non-Hispanic	422,594	438,264	3.7%
American Indian, non-Hispanic	68,904	68,257	-0.9%
Asian/Pacific Islander, non-Hispanic	306,415	315,728	3.0%
Hispanic/Latino (any race)	315,130	321,686	2.1%
Socioeconomic characteristics²			
Adults 25 years with HS diploma/GED or less	30.8%	30.5%	NA
Total population living in poverty	9.0%	8.3%	NA
Kids < 18 living in poverty	11.2%	15.7%	NA
Kids < 18 living in single-parent headed households	26.3%	28.7%	NA
Unemployed (annual average)	3.2%	5.4%	NA
Median household income	\$74,593.00	\$75,523.00	NA
Owner occupied houses	71.9%	78.8%	NA
Rural/urban residence³			
Large urban metropolitan area (population >= 1,000,000 and largest city >= 250,000 population)	1,816,164	1,816,311	0.0%
Large suburban metropolitan area (population >= 1,000,000 & largest city < 250,000)	1,705,303	1,721,343	0.9%
Medium metropolitan area (county with population 250,000-999,999)	234,941	234,307	-0.3%
Small metropolitan area (county with population < 250,000)	639,998	643,003	0.5%
Micropolitan area (county population 10,000-49,999 and urban area with at least 2,500 population)	667,107	667,598	0.1%
Non-core (Rural) area (county with population < 49,999 and no urban area with > 2,500 population)	576,119	574,780	-0.2%

¹ Annual Estimates are bridged-race Vintage 2020 postcensal estimates of the July 1 resident population. These estimates were prepared by the Census Bureau in collaboration with NCHS. Bridged race estimates created for the 5 race or Hispanic categories. Thus, there are no population estimates for other/unknown. For more information or access to the data, see: <https://wonder.cdc.gov/wonder/help/bridged-race.html>

² 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.

³ Classification is based on the National Center for Health Statistics (NCHS) Urban-Rural Classification Scheme for Counties. See https://www.cdc.gov/nchs/data_access/urban_rural.htm for more detail.

Table 3. State Population by Race/Ethnicity and Age Group, MN Residents, 2020

	Non-Hispanic				Hispanic	TOTAL
	White	Black	American Indian	Asian/Pacific Islander		
< 1 year	47,821	7,015	956	4,676	5,922	66,390
1 - 4 years	191,243	36,992	4,656	20,931	25,779	279,601
5 - 9 years	250,892	46,559	6,178	27,141	32,665	363,435
10 - 14 years	258,958	44,458	6,153	24,985	35,110	369,664
15 - 19 years	262,448	38,425	5,770	23,702	31,642	361,987
20 - 24 years	262,617	33,924	5,387	24,468	27,583	353,979
25 - 29 years	278,421	36,932	5,511	30,560	26,393	377,817
30 - 34 years	283,664	36,933	5,121	32,584	24,278	382,580
35 - 39 years	301,154	33,704	4,523	28,125	23,968	391,474
40 - 44 years	273,956	26,574	3,758	21,576	22,614	348,478
45 - 49 years	256,282	23,186	3,408	19,590	18,769	321,235
50 - 54 years	286,865	19,715	3,581	14,903	14,525	339,589
55 - 59 years	336,997	16,875	3,648	12,322	11,231	381,073
60 - 64 years	336,102	13,917	3,368	9,730	8,082	371,199
65 - 69 years	287,235	9,255	2,377	7,433	5,206	311,506
70 - 74 years	224,273	5,991	1,806	5,343	3,289	240,702
75 - 79 years	153,494	3,710	1,009	3,293	1,988	163,494
80 - 84 years	104,119	2,175	583	2,205	1,310	110,392
85+ years	116,866	1,924	464	2,161	1,332	122,747
TOTAL	4,513,407	438,264	68,257	315,728	321,686	5,657,342

NOTES: Annual Estimates are bridged-race Vintage 2020 postcensal estimates of the July 1 resident population. These estimates were prepared by the Census Bureau in collaboration with NCHS. Bridged race estimates created for the 5 race or Hispanic categories. Thus, there are no population estimates for other/unknown. For more information or access to the data, see: <https://wonder.cdc.gov/wonder/help/bridged-race.html>

Estimates by sex are on Table 4.

Table 4. State Population by Race/Ethnicity, Age Group, and Sex, MN Residents, 2020.

<u>Females</u>	White	Black	American Indian	Asian/Pacific Islander	Hispanic	TOTAL
< 1 year	23,357	3,448	466	2,276	2,898	32,445
1 - 4 years	93,394	18,218	2,264	10,278	12,540	136,694
5 - 9 years	122,309	22,868	3,050	13,266	16,052	177,545
10 - 14 years	126,813	21,601	3,041	12,429	17,210	181,094
15 - 19 years	128,673	18,757	2,851	11,790	15,615	177,686
20 - 24 years	130,407	16,660	2,640	12,351	13,176	175,234
25 - 29 years	135,839	17,993	2,686	14,847	12,346	183,711
30 - 34 years	138,403	17,704	2,560	16,528	11,347	186,542
35 - 39 years	148,643	16,361	2,300	14,986	11,031	193,321
40 - 44 years	134,602	12,764	1,905	11,277	10,413	170,961
45 - 49 years	126,856	11,315	1,744	10,104	8,871	158,890
50 - 54 years	143,476	9,345	1,846	7,622	6,909	169,198
55 - 59 years	169,859	8,108	1,897	6,427	5,354	191,645
60 - 64 years	170,373	6,833	1,777	5,346	3,930	188,259
65 - 69 years	147,217	4,698	1,348	4,103	2,639	160,005
70 - 74 years	116,963	3,372	1,042	3,000	1,695	126,072
75 - 79 years	82,843	2,109	582	1,856	1,039	88,429
80 - 84 years	58,782	1,354	352	1,267	748	62,503
85+ years	74,873	1,213	301	1,361	766	78,514
TOTAL	2,273,682	214,721	34,652	161,114	154,579	2,838,748
<u>Males</u>						
< 1 year	24,464	3,567	490	2,400	3,024	33,945
1 - 4 years	97,849	18,774	2,392	10,653	13,239	142,907
5 - 9 years	128,583	23,691	3,128	13,875	16,613	185,890
10 - 14 years	132,145	22,857	3,112	12,556	17,900	188,570
15 - 19 years	133,775	19,668	2,919	11,912	16,027	184,301
20 - 24 years	132,210	17,264	2,747	12,117	14,407	178,745
25 - 29 years	142,582	18,939	2,825	15,713	14,047	194,106
30 - 34 years	145,261	19,229	2,561	16,056	12,931	196,038
35 - 39 years	152,511	17,343	2,223	13,139	12,937	198,153
40 - 44 years	139,354	13,810	1,853	10,299	12,201	177,517
45 - 49 years	129,426	11,871	1,664	9,486	9,898	162,345
50 - 54 years	143,389	10,370	1,735	7,281	7,616	170,391
55 - 59 years	167,138	8,767	1,751	5,895	5,877	189,428
60 - 64 years	165,729	7,084	1,591	4,384	4,152	182,940
65 - 69 years	140,018	4,557	1,029	3,330	2,567	151,501
70 - 74 years	107,310	2,619	764	2,343	1,594	114,630
75 - 79 years	70,651	1,601	427	1,437	949	75,065
80 - 84 years	45,337	821	231	938	562	47,889
85+ years	41,993	711	163	800	566	44,233
TOTAL	2,239,725	223,543	33,605	154,614	167,107	2,818,594

Table 5. Resident Live Births, Crude Birth Rates¹, Fertility Rates², Minnesota and United States, 1945, 1950, 1955, 1960, 1965, 1970, 1975, 1980, 1985, 1990, 1995, 2000, 2005-2020

Year	Live Births		Crude Birth Rate ¹		Fertility Rate ²	
	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

¹ Live Births per 1,000 total population.

² Live Births per 1,000 Female Population Ages 15-44.

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, 2005-2020.

Year	Deaths				Infant Deaths				Neonatal Deaths			
	Minnesota		United States		Minnesota		United States		Minnesota		United States	
	Number	Rate ¹	Number	Rate ²	Number	Rate ²	Number	Rate ²	Number	Rate ³	Number	Rate ³
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	N/A		185	2.9	N/A	

¹ Deaths per 1,000 Population.

² Infant Deaths per 1,000 Live Births.

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

Table 7. Summary of Selected Vital Statistics by Race and Hispanic Ethnicity¹, Minnesota Residents, 2020.

	Non-Hispanic					Hispanic	TOTAL
	White	African American	American Indian	Asian/ Pacific Isl.	Other/ Unknown		
Fertility (counts)							
Total pregnancies	46,550	11,321	1,262	5,803	1,089	6,014	72,039
Live births	42,973	8,785	1,064	5,219	242	5,179	63,462
Induced abortions ²	3,376	2,475	183	564	839	814	8,251
Fetal deaths ³	201	61	15	20	8	21	326
Late fetal deaths	99	32	6	8	5	9	159
Nativity (percents)							
First-time mothers	38.5%	26.6%	30.1%	34.1%	27.3%	33.0%	35.9%
Late PNC	1.7%	5.7%	15.9%	2.9%	7.9%	5.2%	2.9%
Inadequate PNC	5.7%	19.0%	25.4%	12.6%	13.6%	15.0%	9.2%
C-section (any) delivery	28.2%	31.8%	30.5%	24.3%	22.3%	28.6%	28.4%
Low birthweight	5.9%	10.4%	6.7%	7.4%	7.9%	6.1%	6.7%
Preterm	8.8%	10.9%	11.6%	7.8%	9.9%	9.2%	9.1%
Mortality (counts)							
Female deaths	23,509	883	377	534	36	277	25,616
Male deaths	23,939	1,307	424	568	48	469	26,755
Total deaths ⁵	47,448	2,190	801	1,102	84	746	52,371
Perinatal Mortality							
Perinatal deaths ⁶ (Late fetal + Early neonatal)	182	57	8	18	17	22	304
Total infant deaths ⁷	154	53	6	16	14	21	264
Neonatal deaths (< 28 days)	108	36	2	12	13	14	185
Early neonatal death (< 7 days)	83	25	2	10	12	13	145
Postneonatal deaths (28 days - 1 yr)	46	17	4	4	1	7	79

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

² 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 probabilistically 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.

³ 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.

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

⁵ Deaths that do not have an assigned gender are not included in the data.

⁶ 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.

Table 8. Summary of Selected Vital Statistics by Urban/Rural Classification¹, Minnesota Residents, 2020.

	Metropolitan				Non-Metropolitan (Rural)		TOTAL
	Large Urban	Large Suburban	Medium	Small	Micro	Non-Core	
Fertility (counts)							
Total pregnancies	26,218	21,245	2,434	8,214	7,743	6,174	72,028
Live births	21,776	18,974	2,113	7,537	7,200	5,851	63,451
Induced abortions	4,331	2,178	309	647	499	287	8,251
Fetal deaths ²	111	93	12	30	44	36	326
<i>Late fetal deaths</i> <i>(> 28 weeks)</i>	53	41	4	15	28	18	159
Natality (percents)							
First-time mothers	38.7%	35.0%	41.9%	35.0%	32.3%	31.4%	35.9%
Late PNC	3.5%	2.2%	2.7%	2.3%	3.3%	3.6%	2.9%
Inadequate PNC	11.5%	7.7%	7.1%	7.1%	9.4%	8.9%	9.2%
C-section	28.2%	29.0%	25.7%	27.8%	28.4%	29.4%	28.5%
Low birthweight	7.7%	6.2%	6.2%	6.6%	5.8%	6.1%	6.7%
Preterm	9.3%	8.8%	9.4%	9.2%	8.8%	9.1%	9.1%
Mortality (counts) ³							
Female deaths	7,927	6,584	1,459	2,974	3,947	3,837	26,728
Male deaths	7,855	6,220	1,445	2,816	3,742	3,531	25,609
Total deaths	15,782	12,804	2,904	5,790	7,689	7,368	52,337
Perinatal Mortality							
Perinatal deaths ⁴ (Late fetal + Early neonatal)	97	86	14	36	40	30	303
Total infant deaths ⁵	88	71	17	34	26	27	263
Neonatal deaths (< 28 days)	62	54	13	24	14	17	184
<i>Early neonatal death</i> <i>(< 7 days)</i>	44	45	10	21	12	12	144
Postneonatal deaths (28 days - 1 yr)	26	17	4	10	12	10	79

¹ Classification is based on the National Center for Health Statistics (NCHS) Urban-Rural Classification Scheme for Counties. See Introduction to this report or https://www.cdc.gov/nchs/data_access/urban_rural.htm. Missing county of residence is not included in this variable.

² 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.

³ Total mortality counts do not include missing geography.

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

⁵ 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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County	Total ¹	Births to MN County Residents across Place of Birth			Births Occurring in EACH County across Place of Residence		
		Within County	<u>Outside County of Residence</u>		Total ²	Other Minnesota Residents	Out of State Residents
			Within Minnesota	Outside Minnesota			
State Total	63,451	37,648	23,419	2,383	62,582	23,419	1,515
Aitkin	106	42	64	0	55	13	0
Anoka	3,995	1,667	2,323	5	2,766	1,094	5
Becker	362	253	61	48	424	169	2
Beltrami	595	550	31	14	811	259	2
Benton	486	6	478	2	6	0	0
Big Stone	56	39	5	12	94	35	20
Blue Earth	701	627	74	0	1,351	718	6
Brown	260	200	60	0	369	167	2
Carlton	351	99	252	0	154	54	1
Carver	1,073	599	472	2	1,312	709	4
Cass	275	5	266	4	5	0	0
Chippewa	139	72	65	2	117	45	0
Chisago	578	250	287	41	534	276	8
Clay	839	12	23	804	12	0	0
Clearwater	117	15	98	4	15	0	0
Cook	34	5	29	0	5	0	0
Cottonwood	128	62	50	16	90	28	0
Crow Wing	653	482	168	3	673	190	1
Dakota	4,952	1,896	3,046	10	2,867	932	39
Dodge	234	2	230	2	2	0	0
Douglas	411	366	41	4	627	259	2
Faribault	118	46	69	3	87	34	7
Fillmore	222	41	135	46	41	0	0
Freeborn	314	7	298	9	9	1	1
Goodhue	484	162	316	6	262	61	39
Grant	65	0	61	4	0	0	0
Hennepin	14,835	13,125	1,667	43	20,147	6,898	124
<i>Bloomington</i>	<i>1,014</i>	<i>10</i>	<i>1,003</i>	<i>1</i>	<i>10</i>	<i>0</i>	<i>0</i>
<i>Edina</i>	<i>450</i>	<i>232</i>	<i>216</i>	<i>2</i>	<i>232</i>	<i>2,750</i>	<i>11</i>
<i>Minneapolis</i>	<i>5,294</i>	<i>3,308</i>	<i>1,966</i>	<i>20</i>	<i>3,308</i>	<i>5,139</i>	<i>95</i>
<i>Richfield</i>	<i>442</i>	<i>2</i>	<i>440</i>	<i>0</i>	<i>2</i>	<i>1</i>	<i>0</i>
Houston	203	4	13	186	4	0	0
Hubbard	208	82	115	11	128	46	0
Isanti	454	162	287	5	281	119	0
Itasca	362	282	79	1	336	53	1
Jackson	89	2	56	31	2	0	0
Kanabec	146	69	76	1	176	107	0
Kandiyohi	570	490	80	0	677	187	0
Kittson	32	1	10	21	1	0	0
Koochiching	83	6	77	0	6	0	0
Lac Qui Parle	72	0	53	19	0	0	0
Lake	101	2	98	1	2	0	0
Lake of the Woods	30	1	29	0	1	0	0
Le Sueur	278	1	276	1	1	0	0
Lincoln	64	2	31	31	2	0	0
Lyon	338	279	12	47	447	168	0
McLeod	387	232	155	0	375	141	2
Mahnomen	78	3	65	10	4	1	0

Table 1. Resident Live Births Distributed by County of Occurrence (n=63,462); Live Births by County of Occurrence Distributed by Residence (n=62,582), Minnesota 2020.

County	Total ¹	Births to MN County Residents across Place of Birth			Births Occurring in EACH County across Place of Residence		
		Within County	Outside County of Residence		Total ²	Other Minnesota Residents	Out of State Residents
			Within Minnesota	Outside Minnesota			
Marshall	97	2	46	49	2	0	0
Martin	199	118	75	6	162	27	17
Meeker	235	94	141	0	113	19	0
Mille Lacs	266	20	246	0	77	57	0
Morrison	332	107	225	0	122	15	0
Mower	479	346	129	4	631	250	35
Murray	72	0	53	19	0	0	0
Nicollet	356	12	343	1	52	38	2
Nobles	342	261	9	72	352	79	12
Norman	60	2	6	52	2	0	0
Olmsted	1,918	1,898	16	4	3,225	1,169	158
Otter Tail	574	340	170	64	436	91	5
Pennington	124	97	1	26	197	98	2
Pine	218	7	211	0	7	0	0
Pipestone	122	56	29	37	71	14	1
Polk	373	108	24	241	158	49	1
Pope	118	36	82	0	95	59	0
Ramsey	6,941	4,596	2,320	24	8,904	4,100	208
St. Paul	4,379	2,171	2,197	11	2,171	4,032	175
Red Lake	44	1	32	11	1	0	0
Redwood	191	86	98	7	110	24	0
Renville	171	46	125	0	53	7	0
Rice	643	234	407	2	288	53	1
Rock	85	28	4	53	77	33	16
Roseau	138	115	16	7	136	21	0
St. Louis	1,762	1,722	36	4	2,692	522	448
Duluth	969	961	6	2	961	762	445
Scott	1,641	690	949	2	1,085	392	3
Sherburne	1,170	139	1,030	1	369	229	1
Sibley	165	0	165	0	0	0	0
Stearns	1,986	1,788	197	1	2,963	1,171	4
Steele	375	268	106	1	433	163	2
Stevens	121	74	46	1	94	20	0
Swift	114	2	111	1	2	0	0
Todd	296	200	96	0	582	382	0
Traverse	51	0	29	22	0	0	0
Wabasha	219	1	216	2	1	0	0
Wadena	210	61	143	6	131	70	0
Waseca	188	1	187	0	1	0	0
Washington	2,668	1,033	1,609	26	2,586	1,251	302
Watsonwan	165	3	162	0	3	0	0
Wilkin	54	2	12	40	10	2	6
Winona	446	197	123	126	239	17	25
Wright	1,734	590	1,140	4	813	223	0
Yellow Medicine	110	19	73	18	29	10	0

¹ Missing county of residence or occurrence is not included in this data.

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

Table 2. Counts and Percentages for Characteristics of Birth Mother by Race/Ethnicity, MN Residents, 2020.

Total births in each group	Non-Hispanic										TOTAL	
	White		African American		American Indian		Asian/Pacific Islander		Hispanic/Latino			
	42,973		8,785		1,064		5,219		5,179		63,462	
	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %
Age of Mother¹												
< 18 years	134	0.3%	102	1.2%	27	2.5%	27	0.5%	109	2.1%	400	0.6%
18-19 years	544	1.3%	248	2.8%	82	7.7%	66	1.3%	281	5.4%	1,229	1.9%
Teen Mom Total	678	1.6%	350	4.0%	109	10.2%	93	1.8%	390	7.5%	1,629	2.6%
20-24 years	4,533	10.5%	1,483	16.9%	281	26.4%	623	11.9%	1,274	24.6%	8,224	13.0%
25-29 years	12,574	29.3%	2,341	26.6%	293	27.5%	1,517	29.1%	1,481	28.6%	18,281	28.8%
30-34 years	16,214	37.7%	2,726	31.0%	257	24.2%	1,821	34.9%	1,211	23.4%	22,306	35.1%
35-39 years	7,605	17.7%	1,471	16.7%	99	9.3%	994	19.0%	646	12.5%	10,855	17.1%
40-44 years	1,295	3.0%	367	4.2%	25	2.3%	152	2.9%	168	3.2%	2,017	3.2%
45+ years	73	0.2%	47	0.5%	0	--	19	--	9	--	149	0.2%
Educational Attainment²												
< High School	761	2.0%	1,654	23.8%	139	20.6%	473	10.5%	1,047	29.8%	4,096	7.6%
HS Diploma / GED	3,533	9.5%	1,799	34.0%	210	39.3%	701	17.4%	818	33.1%	7,089	14.3%
Some College, No degree	5,638	12.7%	1,571	18.2%	177	32.4%	670	10.2%	661	18.1%	8,745	13.6%
Associate Degree	5,275	10.0%	668	7.3%	66	13.1%	441	6.0%	285	6.5%	6,749	9.1%
Bachelor's Degree	14,621	26.5%	845	8.8%	52	8.7%	1,249	17.5%	471	10.3%	17,266	22.3%
Graduate / Professional Degree	7,864	17.1%	342	3.7%	22	2.5%	945	15.5%	219	4.4%	9,402	14.0%
Unknown	69	0.2%	73	0.8%	8	--	24	0.5%	14	--	261	0.4%
Urban/Rural Residence³												
Large Urban Metro Area	11,096	25.8%	5,145	58.6%	221	20.8%	3,231	61.9%	2,009	38.8%	21,776	34.3%
Large Suburban Metro Area	13,953	32.5%	2,022	23.0%	135	12.7%	1,404	26.9%	1,410	27.2%	18,974	29.9%
Medium/ Small Metro Area	7,573	17.6%	1,126	12.8%	159	14.9%	284	5.4%	459	8.9%	9,650	15.2%
Micropolitan Area	5,358	12.5%	420	4.8%	343	32.2%	215	4.1%	835	16.1%	7,200	11.3%
Noncore (Rural) Area	4,988	11.6%	68	0.8%	206	19.4%	85	1.6%	465	9.0%	5,851	9.2%
Nativity Status												
US born	41,670	97.0%	3,660	41.7%	1,046	98.3%	1,772	34.0%	2,355	45.5%	50,670	79.8%
Foreign-born	1,303	3.0%	5,125	58.3%	18	--	3,447	66.0%	2,824	54.5%	12,792	20.2%

¹ Women missing age are not included in this data.

² Educational attainment calculated for mothers age 25 years and older.

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

Table 3. Counts and Percentages¹ for Selected Pregnancy Characteristics by Race/Ethnicity, MN Residents, 2020.

Total births in each group	Non-Hispanic										TOTAL	
	White		African American		American Indian		Asian/Pacific Islander		Hispanic/Latino			
	42,973		8,785		1,064		5,219		5,179		63,462	
	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %
Previous Live Births												
None	16,541	38.5%	2,341	26.6%	320	30.1%	1,779	34.1%	1,711	33.0%	23,402	36.9%
One	14,525	33.8%	2,064	23.5%	248	23.3%	1,609	30.8%	1,508	29.1%	21,031	33.1%
Two or more	11,865	27.6%	4,373	49.8%	491	46.1%	1,829	35.0%	1,957	37.8%	21,472	33.8%
Prepregnancy BMI ²												
Underweight (BMI < 19.0)	1,258	2.9%	307	3.5%	17	--	266	5.1%	127	2.5%	1,981	3.1%
Acceptable (BMI 19.0 - 24.9)	17,820	41.5%	2,552	29.0%	256	24.1%	2,328	44.6%	1,504	29.0%	24,543	38.7%
Overweight (BMI 25.0 - 29.9)	11,611	27.0%	2,672	30.4%	261	24.5%	1,503	28.8%	1,582	30.5%	17,687	27.9%
Obese (BMI 30.0 - 40.9)	10,103	23.5%	2,637	30.0%	395	37.1%	1,015	19.4%	1,632	31.5%	15,833	24.9%
Morbidly Obese (BMI > 40.9)	1,877	4.4%	483	5.5%	87	8.2%	74	1.4%	256	4.9%	2,786	4.4%
Height/weight missing	304	0.7%	134	1.5%	48	4.5%	33	0.6%	78	1.5%	632	1.0%
Trimester Prenatal Care Began												
First	35,978	83.7%	5,801	66.0%	587	55.2%	3,965	76.0%	3,840	74.1%	50,285	79.2%
Second	3,987	9.3%	2,260	25.7%	227	21.3%	1,026	19.7%	1,031	19.9%	8,576	13.5%
Third	598	1.4%	397	4.5%	96	9.0%	135	2.6%	221	4.3%	1,458	2.3%
No prenatal care	147	0.3%	105	1.2%	73	6.9%	18	--	48	0.9%	399	0.6%
Out of state births ³	2,033	4.7%	169	1.9%	65	6.1%	53	1.0%	11	--	2,384	3.8%
Prenatal care not reported	230	0.5%	53	0.6%	16	--	22	0.4%	28	0.5%	360	0.6%
Adequacy of Prenatal Care												
None	147	0.3%	105	1.2%	73	6.9%	18	--	48	0.9%	399	0.6%
Inadequate	2,446	5.7%	1,668	19.0%	270	25.4%	657	12.6%	779	15.0%	5,853	9.2%
Intermediate	5,295	12.3%	1,773	20.2%	179	16.8%	836	16.0%	783	15.1%	8,901	14.0%
Adequate	20,555	47.8%	3,014	34.3%	296	27.8%	2,283	43.7%	2,086	40.3%	28,300	44.6%
Intensive	12,151	28.3%	1,994	22.7%	164	15.4%	1,341	25.7%	1,438	27.8%	17,122	27.0%
Out of state births ³	2,033	4.7%	169	1.9%	65	6.1%	53	1.0%	11	--	2,384	3.8%
Prenatal care not reported	346	0.8%	62	0.7%	17	--	31	0.6%	34	0.7%	503	0.8%

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

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

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

Table 4. Counts and Percentages for Delivery Characteristics and Infant Outcomes by Race/Ethnicity, MN Residents, 2020.

Total births in each group	Non-Hispanic										TOTAL	
	White		African American		American Indian		Asian/Pacific Islander		Hispanic/Latino			
	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %
	42,973		8,785		1,064		5,219		5,179		63,462	
	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %
Birth Attendant ¹												
MD or DO	36,232	84.3%	7,208	82.0%	952	89.5%	4,470	85.6%	4,278	82.6%	53,290	84.0%
Certified Nurse Midwife	5,537	12.9%	1,492	17.0%	94	8.8%	719	13.8%	833	16.1%	8,705	13.7%
Other licensed or lay midwife	360	0.8%	4	--	1	--	6	--	7	--	389	0.6%
Other (RN, EMT, non-med/ or missing)	844	2.0%	81	0.9%	17	--	24	0.5%	61	1.2%	1,078	1.7%
Delivery setting ²												
Hospital	41,429	96.4%	8,692	98.9%	1,052	98.9%	5,182	99.3%	5,117	98.8%	61,646	97.1%
Free-standing birth center	728	1.7%	47	0.5%	1	--	17	--	30	0.6%	836	1.3%
Home	788	1.8%	39	0.4%	8	--	19	--	30	0.6%	938	1.5%
Method of Delivery ³												
Vaginal	30,121	70.1%	5,679	64.6%	717	67.4%	3,823	73.3%	3,589	69.3%	44,105	69.5%
Vaginal Birth after C-Section	680	1.6%	312	3.6%	21	2.0%	125	2.4%	106	2.0%	1,248	2.0%
C-Section	12,130	28.2%	2,792	31.8%	325	30.5%	1,270	24.3%	1,483	28.6%	18,054	28.4%
Infant Outcomes												
Gestational Age ⁴												
Preterm (< 37 weeks)	3,765	8.8%	961	10.9%	123	11.6%	406	7.8%	474	9.2%	5,753	9.1%
Term (37 - 41 weeks)	38,974	90.7%	7,658	87.2%	931	87.5%	4,803	92.0%	4,687	90.5%	57,257	90.2%
Post Term (42+ weeks)	160	0.4%	152	1.7%	2	--	7	--	9	--	332	0.5%
Birthweight ⁵												
Very low birth weight	359	0.8%	199	2.3%	14	--	62	1.2%	37	0.7%	674	1.1%
Low birth weight	2,175	5.1%	714	8.1%	57	5.4%	325	6.2%	281	5.4%	3,568	5.6%
Normal birth weight	35,481	82.6%	7,190	81.8%	839	78.9%	4,547	87.1%	4,434	85.6%	52,679	83.0%
High birth weight	4,892	11.4%	670	7.6%	153	14.4%	279	5.3%	419	8.1%	6,440	10.1%
Number of Infants at Birth												
Singleton	41,384	96.3%	8,466	96.4%	1,041	97.8%	5,102	97.8%	5,055	97.6%	61,282	96.6%
Twins	1,528	3.6%	303	3.4%	23	2.2%	117	2.2%	118	2.3%	2,097	3.3%
Triplets or more	61	0.1%	16	--	0	--	0	--	6	--	83	0.1%

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

² Delivery setting missing is not included in this data.

³ Method of Delivery missing is not included in this data.

⁴ Calculated based on clinician's estimate of completed weeks of gestation. Missing gestational age is not included in this data.

⁵ 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.

Table 5. Counts and Percentages¹ for Selected Pregnancy Characteristics by Urban/Rural Residence,² MN Residents, 2020.

Total births in each group	Metropolitan								Non-Metropolitan (Rural)				TOTAL ²	
	Large Central		Large Fringe		Medium		Small		Micropolitan		Rural			
	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %
	21,776		18,974		2,113		7,537		7,200		5,851		63,451	
Previous Live Births														
None	8,438	38.7%	6,638	35.0%	886	41.9%	2,636	35.0%	2,323	32.3%	1,835	31.4%	22,758	35.9%
One	6,672	30.6%	6,325	33.3%	650	30.8%	2,341	31.1%	2,235	31.0%	1,784	30.5%	20,008	31.5%
Two or more	6,649	30.5%	5,999	31.6%	575	27.2%	2,555	33.9%	2,624	36.4%	2,217	37.9%	20,626	32.5%
Prepregnancy BMI³														
Underweight (BMI < 19.0)	712	3.3%	582	3.1%	61	2.9%	261	3.5%	200	2.8%	164	2.8%	1,981	3.1%
Acceptable (BMI 19.0 - 24.9)	9,129	41.9%	7,355	38.8%	767	36.3%	2,870	38.1%	2,419	33.6%	2,000	34.2%	24,543	38.7%
Overweight (BMI 25.0 - 29.9)	6,023	27.7%	5,353	28.2%	615	29.1%	2,089	27.7%	1,977	27.5%	1,627	27.8%	17,687	27.9%
Obese (BMI 30.0 - 40.9)	4,900	22.5%	4,745	25.0%	558	26.4%	1,898	25.2%	2,088	29.0%	1,643	28.1%	15,833	25.0%
Morbidly Obese (BMI > 40.9)	769	3.5%	778	4.1%	103	4.9%	369	4.9%	449	6.2%	317	5.4%	2,786	4.4%
Height/weight missing	243	1.1%	161	0.8%	9	--	50	0.7%	67	0.9%	100	1.7%	632	1.0%
Trimester Prenatal Care Began														
First	17,234	79.1%	16,128	85.0%	1,841	87.1%	5,189	68.8%	5,575	77.4%	4,314	73.7%	50,285	79.3%
Second	3,619	16.6%	2,211	11.7%	203	9.6%	862	11.4%	933	13.0%	747	12.8%	8,576	13.5%
Third	578	2.7%	353	1.9%	44	2.1%	136	1.8%	182	2.5%	162	2.8%	1,458	2.3%
No prenatal care	180	0.8%	71	0.4%	12	--	34	0.5%	53	0.7%	48	0.8%	399	0.6%
Out of state births ⁴	67	0.3%	97	0.5%	4	--	1,289	17.1%	396	5.5%	530	9.1%	2,384	3.8%
Prenatal care not reported	98	0.5%	114	0.6%	9	--	27	0.4%	61	0.8%	50	0.9%	360	0.6%
Adequacy of Prenatal Care														
None	180	0.8%	71	0.4%	12	--	34	0.5%	53	0.7%	48	0.8%	399	0.6%
Inadequate	2,513	11.5%	1,457	7.7%	149	7.1%	532	7.1%	680	9.4%	519	8.9%	5,853	9.2%
Intermediate	3,269	15.0%	2,843	15.0%	259	12.3%	1,068	14.2%	851	11.8%	610	10.4%	8,901	14.0%
Adequate	9,139	42.0%	9,104	48.0%	1,130	53.5%	3,022	40.1%	3,319	46.1%	2,582	44.1%	28,300	44.6%
Intensive	6,448	29.6%	5,244	27.6%	547	25.9%	1,559	20.7%	1,821	25.3%	1,503	25.7%	17,122	27.0%
Out of state births ⁴	67	0.3%	97	0.5%	4	--	1,289	17.1%	396	5.5%	530	9.1%	2,384	3.8%
Prenatal care not reported	160	0.7%	158	0.8%	12	--	33	0.4%	80	1.1%	59	1.0%	503	0.8%

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

² Missing county of residence and are not included in this data

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

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

Table 6. Counts and Percentages¹ for Delivery Characteristics and Infant Outcomes by Urban/Rural Residence, MN Residents, 2020.

Total births in each group	Metropolitan								Non-Metropolitan (Rural)				TOTAL ²	
	Large Central		Large Fringe		Medium		Small		Micropolitan		Non-Core			
	21,776		18,974		2,113		7,537		7,200		5,851		63,451	
	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %	#	Col %
Birth Attendant³														
MD or DO	17,547	80.6%	16,436	86.6%	1,931	91.4%	6,100	80.9%	6,275	87.2%	4,993	85.3%	53,290	84.0%
Certified Nurse Midwife	3,902	17.9%	2,210	11.6%	131	6.2%	1,165	15.5%	668	9.3%	628	10.7%	8,705	13.7%
Other licensed or lay midwife	110	0.5%	90	0.5%	15	--	48	0.6%	57	0.8%	69	1.2%	389	0.6%
Other (RN, EMT, non-med/ or missing)	217	1.0%	238	1.3%	36	1.7%	224	3.0%	200	2.8%	161	2.8%	1,078	1.7%
Delivery setting⁴														
Hospital	21,081	96.8%	18,504	97.5%	2,072	98.1%	7,341	97.4%	6,990	97.1%	5,649	96.5%	61,646	97.2%
Free-standing birth center	479	2.2%	258	1.4%	2	--	46	0.6%	34	0.5%	17	--	836	1.3%
Home	206	0.9%	199	1.0%	38	1.8%	144	1.9%	170	2.4%	180	3.1%	938	1.5%
Method of Delivery⁵														
Vaginal	15,159	69.6%	13,095	69.0%	1,509	71.4%	5,286	70.1%	5,028	69.8%	4,018	68.7%	44,105	69.5%
Vaginal Birth after C-Section	467	2.1%	366	1.9%	60	2.8%	147	2.0%	105	1.5%	103	1.8%	1,248	2.0%
C-Section	6,140	28.2%	5,504	29.0%	543	25.7%	2,098	27.8%	2,048	28.4%	1,721	29.4%	18,054	28.5%
Infant Outcomes														
Gestational Age⁶														
Preterm (< 37 weeks)	2,028	9.3%	1,670	8.8%	198	9.4%	693	9.2%	630	8.8%	532	9.1%	5,753	9.1%
Term (37 - 41 weeks)	19,557	89.8%	17,213	90.7%	1,901	90.0%	6,787	90.0%	6,513	90.5%	5,278	90.2%	57,257	90.2%
Post Term (42+ weeks)	170	0.8%	65	0.3%	8	--	41	0.5%	31	0.4%	17	--	332	0.5%
Birthweight⁷														
Very low birth weight	291	1.3%	171	0.9%	23	1.1%	77	1.0%	51	0.7%	61	1.0%	674	1.1%
Low birth weight	1,375	6.3%	1,002	5.3%	109	5.2%	420	5.6%	365	5.1%	296	5.1%	3,568	5.6%
Normal birth weight	18,104	83.1%	15,752	83.0%	1,742	82.4%	6,231	82.7%	5,987	83.2%	4,855	83.0%	52,679	83.0%
High birth weight	1,968	9.0%	2,020	10.6%	238	11.3%	804	10.7%	785	10.9%	625	10.7%	6,440	10.1%
Number of Infants at Birth														
Singleton	20,991	96.4%	18,267	96.3%	2,058	97.4%	7,325	97.2%	6,978	96.9%	5,652	96.6%	61,282	96.6%
Twins	753	3.5%	683	3.6%	52	2.5%	200	2.7%	213	3.0%	196	3.3%	2,097	3.3%
Triplets or more	32	0.1%	24	0.1%	3	--	12	--	9	--	3	--	83	0.1%

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

² Missing county of residence is not included in this data.

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

⁴ Delivery setting missing is not included in this data.

⁵ Method of Delivery missing is not included in this data.

⁶ Calculated based on clinician's estimate of completed weeks of gestation. Missing gestational age is not included in this data.

⁷ 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.

Table 7. Route of Delivery¹ by Characteristics of Women Giving Birth, MN Residents, 2020.

	Vaginal		VBAC		C-Section	
	#	Row %	#	Row %	#	Row %
All Births	44,105	69.5%	1,248	2.0%	18,054	28.4%
Race / Ethnicity						
White	30,121	70.1%	680	1.6%	12,130	28.2%
African American	5,679	64.6%	312	3.6%	2,792	31.8%
American Indian	717	67.4%	21	2.0%	325	30.5%
Asian/Pacific Islander	3,823	73.3%	125	2.4%	1,270	24.3%
Other/Unknown	176	80.0%	4	--	54	24.5%
Hispanic/Latino	3,589	69.3%	106	2.0%	1,483	28.6%
Age of Mother						
< 18 years	341	85.3%	1	--	58	14.5%
18-19 years	989	80.5%	4	--	236	19.2%
Teen Mom Total	1,330	81.6%	5	--	294	18.0%
20-24 years	6,310	76.7%	98	1.2%	1,812	22.0%
25-29 years	13,285	72.7%	300	1.6%	4,681	25.6%
30-34 years	15,250	68.4%	494	2.2%	6,540	29.3%
35-39 years	6,743	62.1%	298	2.7%	3,804	35.0%
40-44 years	1,110	55.0%	52	2.6%	853	42.3%
45+ years	77	51.7%	1	--	69	46.3%
Educational Attainment²						
< High School	4,568	71.8%	199	3.1%	1,572	24.7%
HS Diploma / GED	7,439	68.9%	234	2.2%	3,120	28.9%
Some College, No degree	7,650	68.5%	221	2.0%	3,289	29.5%
Associate Degree	5,124	68.5%	134	1.8%	2,218	29.7%
Bachelor's Degree	12,678	70.8%	299	1.7%	4,927	27.5%
Graduate / Professional Degree	6,422	68.0%	157	1.7%	2,859	30.3%
Unknown	224	73.9%	4	--	69	22.8%
Prepregnancy BMI						
Underweight (BMI < 19.0)	1,591	80.3%	29	1.5%	358	18.1%
Acceptable (BMI 19.0 - 24.9)	18,680	76.1%	470	1.9%	5,378	21.9%
Overweight (BMI 25.0 - 29.9)	12,306	69.6%	372	2.1%	4,999	28.3%
Obese (BMI 30.0 - 40.9)	9,693	61.2%	329	2.1%	5,807	36.7%
Morbidly Obese (BMI > 40.9)	1,380	49.5%	32	1.1%	1,373	49.3%
Height or weight not reported	455	72.0%	16	--	139	22.0%
Adequacy of Prenatal Care³						
No Prenatal Care	276	69.2%	14	--	101	25.3%
Inadequate	4,140	70.7%	181	3.1%	1,512	25.8%
Intermediate	6,549	73.6%	199	2.2%	2,151	24.2%
Adequate	20,482	72.4%	559	2.0%	7,254	25.6%
Intensive	10,589	61.8%	283	1.7%	6,249	36.5%
Out of state births ⁴	1,709	71.7%	0	--	672	28.2%
Previous Live Births						
No previous births	15,926	70.0%	4	--	6,825	30.0%
One previous live birth	13,629	68.1%	450	2.2%	5,926	29.6%
Two or more previous births	14,510	70.3%	793	3.8%	5,296	25.7%

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

¹ Route of delivery missing is not included in this data. VBAC = Vaginal Birth after [previous] Cesarean-section.

² Educational attainment reported for mothers age 25 years and older.

³ 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.

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

Table 8. Counts and Percentages¹ of Selected Birth Outcomes by Demographic Characteristics of Women Giving Birth, MN Residents, 2020.

	Preterm ²		Low Birthweight ³		High Birthweight ³	
	#	Row %	#	Row %	#	Row %
All Births	5,753	9.1%	4,242	6.7%	6,440	10.2%
Race and Ethnicity						
White	3,765	8.8%	2,534	5.9%	4,892	11.4%
African American	961	11.0%	913	10.4%	670	7.6%
American Indian	123	11.6%	71	6.7%	153	14.4%
Asian/Pacific Islander	406	7.8%	387	7.4%	279	5.4%
Other/Unknown	24	10.4%	19	--	27	11.5%
Hispanic/Latino	474	9.2%	318	6.1%	419	8.1%
Age of Mother						
< 18 years	39	9.8%	38	9.5%	27	6.8%
18-19 years	116	9.4%	115	9.4%	76	6.2%
Teen Mom Total	155	9.5%	153	9.4%	103	6.3%
20-24 years	776	9.5%	626	7.6%	603	7.3%
25-29 years	1,513	8.3%	1,138	6.2%	1,735	9.5%
30-34 years	1,952	8.8%	1,372	6.2%	2,454	11.0%
35-39 years	1,082	10.0%	754	7.0%	1,312	12.1%
40-44 years	249	12.4%	180	9.0%	221	11.0%
45+ years	25	16.9%	19	--	12	--
Educational Attainment⁴						
< High School	593	9.4%	492	7.7%	533	8.4%
HS Diploma / GED	1,109	10.3%	906	8.4%	957	8.9%
Some College, No degree	1,204	10.8%	862	7.7%	1,067	9.6%
Associate Degree	700	9.4%	477	6.4%	793	10.6%
Bachelor's Degree	1,342	7.5%	930	5.2%	2,025	11.3%
Graduate / Professional Degree	773	8.2%	538	5.7%	1,037	11.0%
Unknown	32	11.0%	37	12.4%	28	9.4%
Prepregnancy BMI						
Underweight (BMI < 19.0)	180	9.1%	198	10.0%	65	3.3%
Acceptable (BMI 19.0 - 24.9)	1,890	7.7%	1,517	6.2%	2,034	8.3%
Overweight (BMI 25.0 - 29.9)	1,545	8.7%	1,110	6.3%	1,885	10.7%
Obese (BMI 30.0 - 40.9)	1,670	10.6%	1,131	7.2%	2,004	12.7%
Morbidly Obese (BMI > 40.9)	370	13.3%	210	7.6%	388	14.0%
Height or weight not reported	98	16.5%	76	12.4%	64	10.4%
Adequacy of Prenatal Care⁵						
None	106	29.8%	92	24.7%	30	56.6%
Inadequate	517	8.9%	444	8.4%	479	47.5%
Intermediate	447	5.0%	297	3.8%	679	38.7%
Adequate	1,075	3.8%	885	3.5%	3,526	52.3%
Intensive	3,207	18.7%	2,243	14.2%	1,733	56.9%
Out of state births	347	14.6%	246	11.4%	272	54.2%
Previous Live Births						
No previous births	2,202	9.7%	1,820	8.0%	1,729	7.6%
One previous birth	1,581	7.9%	1,081	5.4%	2,185	10.9%
Two or more previous births	1,960	9.5%	1,332	6.5%	2,521	12.2%

¹ Percentages are row percentages (outcome within each characteristic category).

² Preterm are infants born after 20 weeks but before 37 weeks of gestation.

³ 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.

⁴ Educational attainment reported for mothers age 25 years and older.

⁵ 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 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.

Table 9. Number of Race and Hispanic Checkboxes Selected by Women Who Gave Birth, Minnesota Residents, 2020.

	Number that selected ¹ each checkbox	
	2019	2020
Race Checkboxes		
White	49,073	45,257
African American	4,934	4,811
Somali	2,666	2,557
Ethiopian	749	714
Liberian	308	336
Sudanese	76	73
Nigerian	148	141
Other African	616	653
American Indian	1,662	1,549
Asian Indian	914	828
Chinese	452	367
Filipino	270	241
Japanese	77	88
Korean	281	253
Vietnamese	308	351
Hmong	2,202	2,172
Cambodian	196	187
Laotian	158	162
Other Asian	776	761
Hawaiian	24	21
Guamanian/Chamorro	15	18
Samoaan	4	7
Other Pacific Islander	99	67
Other Race	2,178	2,235
Unknown Race	221	171
Hispanic/Latino Checkboxes		
Mexican	3,201	3,279
Cuban	51	62
Puerto Rican	244	240
Other Hispanic	1,494	1,598
Not Hispanic/Latino	60,698	57,186
Unknown/Nothing Selected	345	1,097

¹ 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.

Table 10. Live Births by Birth Country¹ of Women Giving Birth, MN Residents, 2020.

Woman's Birth Country	Number of Women Born in Each Country
United States	50,670
Foreign-Born	12,792
Somalia	2,392
Mexico	1,391
Ethiopia	955
Thailand	792
India	700
Kenya	491
Liberia	396
Guatemala	393
Laos	330
Burma (Myanmar)	301
Ecuador	244
Vietnam	243
China	225
El Salvador	216
Honduras	207
South Korea	202
Canada	179
Philippines	176
Nigeria	146
Russia	129
Germany	109
Cameroon	107
Ukraine	103
Cambodia	87
Nepal	82
Ghana	76
Colombia	75
All Others	2,120

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

Table 11. Selected Characteristics and Outcomes for Women Who Smoked Before or During Pregnancy, Minnesota Residents, 2020.

	Total Births	% that Smoked Before or During Pregnancy		% Smokers that Quit Prior to Pregnancy		% Smokers that Quit During Pregnancy	
		#	%	#	%	#	%
All Births	63,462	5,491	8.7%	1,195	21.8%	924	16.8%
Race and Ethnicity							
White	42,973	4,044	9.4%	875	21.6%	661	16.3%
African American	8,785	593	6.8%	114	19.2%	95	16.0%
American Indian	1,064	439	41.3%	55	12.5%	75	17.1%
Asian/Pacific Islander	5,219	117	2.2%	47	40.2%	27	23.1%
Other/Unknown	242	17	--	3	--	1	--
Hispanic/Latino	5,179	281	5.4%	101	35.9%	65	23.1%
Age of Mother							
< 18 years	400	36	9.0%	10	--	10	--
18-19 years	1,229	203	16.5%	41	20.2%	54	26.6%
20-24 years	8,224	1,314	16.0%	321	24.4%	258	19.6%
25-29 years	18,281	1,751	9.6%	389	22.2%	266	15.2%
30-34 years	22,306	1,438	6.4%	298	20.7%	220	15.3%
35-39 years	10,855	624	5.7%	117	18.8%	97	15.5%
40+ years	2,166	125	5.8%	19	--	19	--
Trimester PNC began							
First	50,285	3,872	7.7%	959	24.8%	663	17.1%
Second	8,576	922	10.8%	140	15.2%	165	17.9%
Third	1,458	223	15.3%	20	9.0%	30	13.5%
None	399	161	40.4%	4	--	11	--
Out of state births ²	2,384	255	10.7%	63	24.7%	49	19.2%
Not reported	360	58	16.1%	9	--	6	--
Delivery Method							
Vaginal	44,105	3,615	8.2%	796	22.0%	598	16.5%
VBAC ³	1,248	84	6.7%	13	--	13	--
C-section	18,054	1,790	9.9%	386	21.6%	312	17.4%
Preterm							
< 37 weeks	5,753	732	12.7%	114	15.6%	135	18.4%
Low Birth Weight							
< 2500 grams	4,242	607	14.3%	83	13.7%	104	17.1%

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

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

³ VBAC - Vaginal Birth After [previous] Cesarean-Section.

Table 12. Pregnancies Resulting from Infertility Treatments, MN Residents, 2020.

		Birth Purity		
	Total	Singleton	Twin	Triplet+ ²
Pregnancies¹				
Total pregnancies	62,368	61,284	1,056	28
# resulting from infertility treatments	1,608	1,423	174	11
% resulting from infertility treatments	2.6%	2.3%	16.5%	--
Age of Mother				
<20 years	0	0	0	0
20-24 years	29	27	1	1
25-29 years	240	216	22	2
30-34 years	618	542	69	7
35-39 years	511	448	62	1
40-44 years	176	159	17	0
45+ years	34	31	3	0
Treatment Type				
Drugs/Artificial Insemination Only	546	485	55	6
Assisted Reproductive Technologies Only	1,033	914	114	5
Both Methods	14	11	3	0
Method Not Specified	16	13	3	0

¹ 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, 2005 - 2020

Table 2: Pregnancies and Pregnancy Rates by Age of Mother, Minnesota Residents, 2009 - 2020

Fertility Table 1. Total Reported Pregnancies by Pregnancy Outcome, Pregnancy Rate, and Fertility Rate, MN Residents, 2005 - 2020.

	Total Reported Pregnancies ¹	Live Births	Induced Abortions	Fetal Deaths ²	Female ³ Population Ages 15-44	Pregnancy Rate ⁴	Fertility Rate ⁵
Year							
2005	83,555	70,920	12,306	329	1,092,604	76.5	64.9
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	69,835	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
.....2020.....							
Race/ethnicity							
White	46,550	42,973	3,376	201	816,567	57.0	52.6
Black	11,321	8,785	2,475	61	100,239	112.9	87.6
American Indian	1,262	1,064	183	15	14,942	84.5	71.2
Asian/Pacific Islander	5,803	5,219	564	20	81,779	71.0	63.8
Other/Unknown	1,089	242	839	8	N/A ⁶	--	--
Hispanic (any race)	6,014	5,179	814	21	73,928	81.3	70.1
Woman's age group⁷							
<15 years	42	20	22	0	N/A ⁶	--	--
15-19 years	2,309	1,609	689	11	175,152	13.2	9.2
20-24 years	10,500	8,224	2,237	39	177,770	59.1	46.3
25-29 years	20,790	18,281	2,417	92	182,988	113.6	99.9
30-34 years	24,101	22,306	1,687	108	188,618	127.8	118.3
35-39 years	11,787	10,855	875	57	188,621	62.5	57.5
40-44 years	2,320	2,017	289	14	160,856	14.4	12.5
45+ years	181	149	32	0	N/A ⁶	--	--

¹ Includes Live Births, Fetal Deaths and Induced Abortions.

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

³ Total MN Population count by year from MN State Demographic Center: <https://mn.gov/admin/demography/data-by-topic/population-data/our-estimates/>. Female population for race/ethnicity and age groups retrieved from CDC WONDER ([Bridged-Race Population Estimates \(cdc.gov\)](https://wonder.cdc.gov/)) Bridged-

⁴ Number of pregnancies per 1,000 women ages 15 - 44 years.

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

⁶ Population estimates for these age groups not calculated because population denominator data not available.

Fertility Table 2. Pregnancy Rates by Age of Woman over Time, Minnesota Residents, 2009-2020.

Year/ Event	Total	Age of Woman							
		<15	15-19	20-24	25-29	30-34	35-39	40+	Unkwn
2009									
Reported Pregnancies ¹	82,353	81	5,981	18,061	25,964	20,672	9,250	2,340	4
Age Specific Pregnancy Rate ²	78.7	***	33.1	97.6	144.6	130.0	56.3	13.1	***
2010									
Reported Pregnancies ¹	79,329	89	5,351	16,455	25,102	21,031	9,023	2,275	3
Age Specific Pregnancy Rate ²	75.9	***	29.9	94.1	135.6	124.9	55.6	13.0	***
2011									
Reported Pregnancies ¹	78,942	72	4,743	15,622	24,946	22,090	9,102	2,356	11
Age Specific Pregnancy Rate ²	75.6	***	26.4	90.6	134.9	125.9	57.9	13.5	***
2012									
Reported Pregnancies ¹	78,906	77	4,392	15,501	24,543	22,865	9,189	2,333	6
Age Specific Pregnancy Rate ²	75.4	***	24.7	88.7	134.3	126.1	58.4	13.5	***
2013									
Reported Pregnancies ¹	78,600	57	3,878	14,698	24,416	23,771	9,604	2,174	2
Age Specific Pregnancy Rate ²	74.9	***	22.1	82.7	135.5	128.0	59.6	12.9	***
2014									
Reported Pregnancies ¹	79,534	53	3,561	14,330	24,435	24,726	10,182	2,243	4
Age Specific Pregnancy Rate ²	75.5	***	20.4	80.0	135.9	131.0	61.5	13.6	***
2015									
Reported Pregnancies ¹	79,197	38	3,161	13,534	24,119	25,357	10,805	2,181	2
Age Specific Pregnancy Rate ²	75.1	***	18.1	75.2	135.7	133.2	63.2	13.6	***
2016									
Reported Pregnancies ¹	79,219	41	3,004	12,939	23,975	25,552	11,453	2,255	0
Age Specific Pregnancy Rate ²	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 ³	78,227	25	2,878	12,442	23,314	25,519	11,683	2,155	175
Age Specific Pregnancy Rate ²	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 ³	76,636	33	2,496	11,610	22,908	25,251	11,988	2,135	208
Age Specific Pregnancy Rate ²		***	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 ³	75,430	36	2,544	11,289	21,773	25,171	12,170	2,231	216
Age Specific Pregnancy Rate ²		***	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 ³	72,039	42	2,309	10,500	20,790	24,101	11,787	2,320	190
Age Specific Pregnancy Rate ²		***	13.2	59.1	113.6	127.8	62.5	14.4	***

¹ Includes live births, all reported fetal deaths and induced abortions

² 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.

³ 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.

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Mortality Tables

Table 1. Deaths by County of Residence and County of Occurrence, Minnesota Residents, 2020

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2020

Table 3. Leading Causes of Death, Death Rates, and Rank Order, Minnesota and U.S., 2020

Table 4. Leading Causes of Death by Age Groups, Minnesota Residents, 2020

Table 5a. Deaths Due to Selected Causes by Race/Ethnicity, MN Residents, 2020

Table 5b. Cause-Specific Mortality Rates by Race/Ethnicity, MN Residents, 2020

Table 6a. Deaths Due to Selected Causes by Rural/Urban Residence, MN Residents, 2020

Table 6b. Cause-Specific Mortality Rates by Rural/Urban Residence, MN Residents, 2020

Table 1. Resident Deaths Distributed by County of Occurrence (n=52,372); Deaths by County of Occurrence Distributed by Place of Residence (n=52,165), Minnesota 2020.

County	Total	Deaths to MN County Residents across Place of Death			Deaths Occurring in Each County across Place of Residence		
		Within County	<i>Outside County of Residence</i>		Total ¹	Other Minnesota Residents	Out of State Residents
			Within Minnesota	Outside Minnesota			
State Total	52,338	41,553	8,923	1,862	52,165	8,923	1,689
Aitkin	270	212	55	3	243	26	5
Anoka	2,754	2,048	674	32	2,527	455	24
Becker	444	353	17	74	381	23	5
Beltrami	557	446	49	62	525	75	4
Benton	488	336	149	3	406	70	0
Big Stone	79	61	6	12	67	3	3
Blue Earth	536	462	63	11	634	164	8
Brown	325	276	46	3	305	29	0
Carlton	428	293	130	5	334	38	3
Carver	616	443	164	9	548	99	6
Cass	380	226	134	20	269	38	5
Chippewa	178	138	37	3	148	10	0
Chisago	504	375	119	10	468	86	7
Clay	568	350	15	203	380	10	20
Clearwater	116	72	28	16	83	11	0
Cook	57	42	13	2	49	3	4
Cottonwood	178	132	25	21	145	13	0
Crow Wing	758	602	143	13	686	78	6
Dakota	3,210	2,158	1001	51	2,448	256	34
Dodge	158	97	61	0	109	11	1
Douglas	519	439	61	19	475	31	5
Faribault	198	153	42	3	165	9	3
Fillmore	254	185	41	28	197	11	1
Freeborn	402	308	83	11	328	14	6
Goodhue	585	467	112	6	529	51	11
Grant	81	41	31	9	47	6	0
Hennepin	10,641	9,708	818	115	12,453	2,443	302
<i>Bloomington</i>	<i>1,011</i>	<i>607</i>	<i>397</i>	<i>7</i>	<i>721</i>	<i>105</i>	<i>9</i>
<i>Edina</i>	<i>619</i>	<i>471</i>	<i>141</i>	<i>7</i>	<i>1,224</i>	<i>736</i>	<i>17</i>
<i>Minneapolis</i>	<i>2,957</i>	<i>2,210</i>	<i>719</i>	<i>28</i>	<i>4,430</i>	<i>2,012</i>	<i>208</i>
<i>Richfield</i>	<i>349</i>	<i>175</i>	<i>170</i>	<i>4</i>	<i>206</i>	<i>29</i>	<i>2</i>
Houston	223	160	9	54	173	4	9
Hubbard	262	190	38	34	219	28	1
Isanti	368	248	118	2	281	33	0
Itasca	559	426	125	8	472	37	9
Jackson	114	68	26	20	75	6	1
Kanabec	208	154	53	1	176	18	4
Kandiyohi	473	387	80	6	427	38	2
Kittson	87	60	5	22	62	1	1
Koochiching	175	124	44	7	132	8	0
Lac Qui Parle	108	89	11	8	92	3	0
Lake	160	108	52	0	134	23	3
Lake of the Woods	53	41	5	7	47	4	2
Le Sueur	253	151	95	7	167	15	1
Lincoln	81	68	6	7	81	13	0
Lyon	274	210	32	32	231	21	0
McLeod	443	354	83	6	395	41	0
Mahnomen	79	52	11	16	61	8	1

Table 1. Resident Deaths Distributed by County of Occurrence (n=52,372); Deaths by County of Occurrence Distributed by Place of Residence (n=52,165), Minnesota 2020.

County	Total	Deaths to MN County Residents across Place of Death			Deaths Occurring in Each County across Place of Residence		
		Within County	Outside County of Residence		Total ¹	Other Minnesota Residents	Out of State Residents
			Within Minnesota	Outside Minnesota			
Marshall	108	56	19	33	59	3	0
Martin	254	191	52	11	205	11	3
Meeker	272	204	66	2	225	20	1
Mille Lacs	371	241	126	4	288	44	3
Morrison	392	292	95	5	315	22	1
Mower	419	325	87	7	362	35	2
Murray	70	44	13	13	62	17	1
Nicollet	269	175	92	2	202	24	3
Nobles	238	164	22	52	191	25	2
Norman	78	50	7	21	66	10	6
Olmsted	1,272	1,209	52	11	2,211	655	347
Otter Tail	797	621	62	114	673	37	15
Pennington	140	100	11	29	118	17	1
Pine	353	216	128	9	232	16	0
Pipestone	125	97	10	18	106	8	1
Polk	422	297	16	109	326	23	6
Pope	132	94	31	7	112	18	0
Ramsey	5,141	4,384	691	66	6,184	1,528	272
<i>St. Paul</i>	2,531	2,097	397	37	3,967	1,630	240
Red Lake	31	16	7	8	17	1	0
Redwood	204	152	42	10	160	8	0
Renville	194	148	44	2	163	15	0
Rice	593	452	137	4	519	64	3
Rock	147	114	4	29	134	19	1
Roseau	196	150	12	34	153	3	0
St. Louis	2,476	2,335	107	34	3,080	378	367
<i>Duluth</i>	1,111	1,052	50	9	2,014	605	357
Scott	878	617	250	11	758	136	5
Sherburne	705	443	254	8	571	124	4
Sibley	124	81	40	3	91	9	1
Stearns	1,377	1,213	146	18	1,986	756	17
Steele	363	294	66	3	336	39	3
Stevens	91	67	19	5	81	12	2
Swift	140	105	35	0	115	9	1
Todd	238	155	77	6	189	33	1
Traverse	61	37	5	19	44	2	5
Wabasha	223	159	62	2	175	6	10
Wadena	195	149	32	14	198	47	2
Waseca	196	143	49	4	156	11	2
Washington	2,028	1,404	592	32	1,711	255	52
Watsonwan	157	104	49	4	116	11	1
Wilkin	94	58	5	31	88	3	27
Winona	470	367	42	61	394	12	15
Wright	993	648	331	14	730	75	7
Yellow Medicine	107	69	26	12	89	18	2

¹ 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 occurrence are unknown.

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2020.

Cause of Death			Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+	
ICD10 Code	ALL CAUSES, Total		Sex											
			T	52,342	264	71	34	42	182	1,247	2,136	7,137	15,158	26,071
			M	26,738	160	43	21	29	125	890	1,326	4,452	8,636	11,056
			F	25,604	104	28	13	13	57	357	810	2,685	6,522	15,015
A00- B99	I. INFECTIOUS AND PARASITIC DISEASES	T	849	6	1	1	1	1	12	46	143	304	334	
		M	439	5	0	0	1	0	6	27	87	165	148	
		F	410	1	1	1	0	1	6	19	56	139	186	
A00- A09	Intestinal Infections	T	107	4	0	1	0	0	1	6	16	25	54	
		M	50	3	0	0	0	0	1	3	12	11	20	
		F	57	1	0	1	0	0	0	3	4	14	34	
A40- A41	Septicemia	T	473	1	1	0	0	1	4	18	68	179	201	
		M	237	1	0	0	0	0	1	10	34	96	95	
		F	236	0	1	0	0	1	3	8	34	83	106	
B15- B19	Viral Hepatitis	T	51	0	0	0	0	0	2	8	21	19	1	
		M	28	0	0	0	0	0	1	4	13	9	1	
		F	23	0	0	0	0	0	1	4	8	10	0	
Re- sid- ual	Other Infectious and Parasitic Diseases and Sequelae	T	218	1	0	0	1	0	5	14	38	81	78	
		M	124	1	0	0	1	0	3	10	28	49	32	
		F	94	0	0	0	0	0	2	4	10	32	46	
C00- D48	II. NEOPLASMS	T	10,283	1	6	7	2	9	75	372	1,972	4,338	3,501	
		M	5,372	1	5	4	1	5	42	172	1,037	2,360	1,745	
		F	4,911	0	1	3	1	4	33	200	935	1,978	1,756	
C00- C97	Malignant Neoplasms	T	9,941	1	4	5	1	8	71	362	1,948	4,234	3,307	
		M	5,173	1	3	4	1	5	39	166	1,022	2,294	1,638	
		F	4,768	0	1	1	0	3	32	196	926	1,940	1,669	

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2020.

Cause of Death			Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+	
ICD10 Code	Sex													
	ALL CAUSES, Total		T	52,342	264	71	34	42	182	1,247	2,136	7,137	15,158	26,071
			M	26,738	160	43	21	29	125	890	1,326	4,452	8,636	11,056
			F	25,604	104	28	13	13	57	357	810	2,685	6,522	15,015
Malignant Neoplasms continued														
C00- C14	...of Lip, Oral Cavity, and Pharynx	T	181	0	0	0	0	0	1	8	42	80	50	
		M	117	0	0	0	0	0	0	3	30	57	27	
		F	64	0	0	0	0	0	1	5	12	23	23	
C15	...of Esophagus	T	284	0	0	0	0	0	0	9	72	145	58	
		M	223	0	0	0	0	0	0	7	57	118	41	
		F	61	0	0	0	0	0	0	2	15	27	17	
C16	...of Stomach	T	166	0	0	0	0	0	2	11	45	66	42	
		M	114	0	0	0	0	0	2	7	35	45	25	
		F	52	0	0	0	0	0	0	4	10	21	17	
C18- C21	...of Colon, Rectum, and Anus	T	830	0	0	0	0	0	6	54	170	292	308	
		M	432	0	0	0	0	0	5	33	100	165	129	
		F	398	0	0	0	0	0	1	21	70	127	179	
C22	...of Liver and Intrahepatic Bile Ducts	T	386	1	0	0	0	0	3	10	87	195	90	
		M	240	1	0	0	0	0	3	5	60	127	44	
		F	146	0	0	0	0	0	0	5	27	68	46	
C25	...of Pancreas	T	810	0	0	0	0	0	1	21	179	378	231	
		M	435	0	0	0	0	0	0	14	99	208	114	
		F	375	0	0	0	0	0	1	7	80	170	117	
C32	...of Larynx	T	59	0	0	0	0	0	0	1	18	26	14	
		M	45	0	0	0	0	0	0	1	13	20	11	
		F	14	0	0	0	0	0	0	0	5	6	3	
C33- C34of Trachea, Bronchus, and Lung	T	2,173	0	0	0	0	0	2	33	446	1,088	604	
		M	1,072	0	0	0	0	0	0	11	229	548	284	
		F	1,101	0	0	0	0	0	2	22	217	540	320	

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2020.

Cause of Death			Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+	
ICD10 Code	Sex													
	ALL CAUSES, Total		T	52,342	264	71	34	42	182	1,247	2,136	7,137	15,158	26,071
			M	26,738	160	43	21	29	125	890	1,326	4,452	8,636	11,056
			F	25,604	104	28	13	13	57	357	810	2,685	6,522	15,015
Malignant Neoplasms continued														
C43-	...Skin	T	174	0	0	0	0	0	2	12	43	61	56	
C44		M	110	0	0	0	0	0	1	7	23	47	32	
		F	64	0	0	0	0	0	1	5	20	14	24	
C50	...of Breast	T	657	0	0	0	0	0	8	61	149	225	214	
		M	8	0	0	0	0	0	0	1	1	6	0	
		F	649	0	0	0	0	0	8	60	148	219	214	
C53	...of Cervix Uteri	T	43	0	0	0	0	0	1	11	19	8	4	
		M	0	0	0	0	0	0	0	0	0	0	0	
		F	43	0	0	0	0	0	1	11	19	8	4	
C54- C55	...of Corpus Uteri and Uterus	T	200	0	0	0	0	0	1	7	38	94	60	
		M	0	0	0	0	0	0	0	0	0	0	0	
		F	200	0	0	0	0	0	1	7	38	94	60	
C56	...of Ovary	T	207	0	0	0	0	0	2	6	40	96	63	
		M	0	0	0	0	0	0	0	0	0	0	0	
		F	207	0	0	0	0	0	2	6	40	96	63	
C61	...of Prostate	T	569	0	0	0	0	0	0	1	43	219	306	
		M	569	0	0	0	0	0	0	1	43	219	306	
		F	0	0	0	0	0	0	0	0	0	0	0	
C64- C65	...of Kidney and Renal Pelvis	T	267	0	0	1	0	0	2	11	57	108	88	
		M	182	0	0	0	0	0	0	8	44	74	56	
		F	85	0	0	1	0	0	2	3	13	34	32	

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2020.

Cause of Death			Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+
ICD10 Code	ALL CAUSES, Total	Sex											
		T	52,342	264	71	34	42	182	1,247	2,136	7,137	15,158	26,071
		M	26,738	160	43	21	29	125	890	1,326	4,452	8,636	11,056
		F	25,604	104	28	13	13	57	357	810	2,685	6,522	15,015
Malignant Neoplasms continued													
C67	...of Bladder	T	259	0	0	0	0	0	1	2	28	90	138
		M	187	0	0	0	0	0	1	2	19	68	97
		F	72	0	0	0	0	0	0	0	9	22	41
C69- C72	...of Eye, Brain, and Other Parts of Central Nervous System	T	321	0	0	1	0	2	14	35	106	116	47
		M	193	0	0	1	0	1	11	22	63	71	24
		F	128	0	0	0	0	1	3	13	43	45	23
C82- C85	...Non-Hodgkin's Lymphoma	T	374	0	0	0	0	0	2	6	45	145	176
		M	221	0	0	0	0	0	1	2	32	87	99
		F	153	0	0	0	0	0	1	4	13	58	77
C91- C95	...Leukemia	T	451	0	1	1	0	2	8	9	56	180	194
		M	266	0	0	1	0	2	5	6	37	116	99
		F	185	0	1	0	0	0	3	3	19	64	95
C88 C90	...Multiple Myeloma and Immunoproliferative Neoplasms	T	243	0	0	0	0	0	0	6	54	105	78
		M	145	0	0	0	0	0	0	4	33	64	44
		F	98	0	0	0	0	0	0	2	21	41	34
Re- sid- ual	...Other Malignant Neoplasms	T	1,287	0	3	2	1	4	15	48	211	517	486
		M	614	0	3	2	1	2	10	32	104	254	206
		F	673	0	0	0	0	2	5	16	107	263	280
D00- D48	In Situ and Benign Neoplasms and Neoplasms of Uncertain Behavior	T	342	0	2	2	1	1	4	10	24	104	194
		M	199	0	2	0	0	0	3	6	15	66	107
		F	143	0	0	2	1	1	1	4	9	38	87

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2020.

Cause of Death			Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+	
ICD10 Code	ALL CAUSES, Total		Sex											
			T	52,342	264	71	34	42	182	1,247	2,136	7,137	15,158	26,071
			M	26,738	160	43	21	29	125	890	1,326	4,452	8,636	11,056
			F	25,604	104	28	13	13	57	357	810	2,685	6,522	15,015
D50- D89	III. DISEASES OF THE BLOOD AND BLOOD- FORMING ORGANS	T	206	1	1	0	0	0	3	12	17	61	111	
		M	97	1	1	0	0	0	1	6	12	33	43	
		F	109	0	0	0	0	0	2	6	5	28	68	
D50- D64	Anemias	T	100	0	0	0	0	0	1	2	3	23	71	
		M	42	0	0	0	0	0	1	1	1	10	29	
		F	58	0	0	0	0	0	0	1	2	13	42	
D65- D89	Other Diseases of the Blood and Blood-Forming Organs	T	106	1	1	0	0	0	2	10	14	38	40	
		M	55	1	1	0	0	0	0	5	11	23	14	
		F	51	0	0	0	0	0	2	5	3	15	26	
E00- E90	IV. ENDOCRINE, NUTRITIONAL, AND METABOLIC DISEASES AND IMMUNITY DISORDERS	T	2,249	1	5	3	3	4	38	87	435	802	871	
		M	1,219	1	1	1	3	1	25	64	294	459	370	
		F	1,030	0	4	2	0	3	13	23	141	343	501	
E10- E14	Diabetes Mellitus	T	1,493	0	0	0	1	1	28	59	284	573	547	
		M	846	0	0	0	1	1	20	46	197	333	248	
		F	647	0	0	0	0	0	8	13	87	240	299	
Re- sid- ual	Other Endocrine, Nutritional, Metabolic, and Immunity Disorders	T	756	1	5	3	2	3	10	28	151	229	324	
		M	373	1	1	1	2	0	5	18	97	126	122	
		F	383	0	4	2	0	3	5	10	54	103	202	

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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											
ICD10 Code	ALL CAUSES, Total		T	52,342	264	71	34	42	182	1,247	2,136	7,137	15,158	26,071
			M	26,738	160	43	21	29	125	890	1,326	4,452	8,636	11,056
			F	25,604	104	28	13	13	57	357	810	2,685	6,522	15,015
F00- F99	V. MENTAL AND BEHAVIORAL DISORDERS	T	3,636	0	0	0	1	1	36	74	240	629	2,655	
		M	1,433	0	0	0	0	1	25	56	177	319	855	
		F	2,203	0	0	0	1	0	11	18	63	310	1,800	
F01	Vascular Dementia result of infarction of the brain due to vascular disease	T	528	0	0	0	0	0	0	0	3	84	441	
		M	195	0	0	0	0	0	0	0	2	44	149	
		F	333	0	0	0	0	0	0	0	1	40	292	
F03	Unspecified dementia excludes Alzheimer's Disease [See G30 for Alzheimer's]	T	2,525	0	0	0	0	0	0	0	23	372	2,130	
		M	838	0	0	0	0	0	0	0	10	162	666	
		F	1,687	0	0	0	0	0	0	0	13	210	1,464	
F10- F18, F19	Disorders due to Psychoactive Substance use [excl. tobacco]	T	375	0	0	0	0	1	30	67	165	93	19	
		M	284	0	0	0	0	1	22	51	129	68	13	
		F	91	0	0	0	0	0	8	16	36	25	6	
Re- sid- ual	Other Mental Illness and Disorders of Psychological Development	T	208	0	0	0	1	0	6	7	49	80	65	
		M	116	0	0	0	0	0	3	5	36	45	27	
		F	92	0	0	0	1	0	3	2	13	35	38	
G00- G99	VI. DISEASES OF THE NERVOUS SYSTEM	T	4,727	5	1	6	4	9	30	57	264	1,096	3,255	
		M	1,975	2	0	4	3	6	19	28	162	595	1,156	
		F	2,752	3	1	2	1	3	11	29	102	501	2,099	
G20- G21	Parkinson's Disease	T	797	0	0	0	0	0	0	0	21	249	527	
		M	472	0	0	0	0	0	0	0	15	163	294	
		F	325	0	0	0	0	0	0	0	6	86	233	

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ICD10 Code	Sex													
	ALL CAUSES, Total		T	52,342	264	71	34	42	182	1,247	2,136	7,137	15,158	26,071
			M	26,738	160	43	21	29	125	890	1,326	4,452	8,636	11,056
			F	25,604	104	28	13	13	57	357	810	2,685	6,522	15,015
Diseases of Nervous System Continued														
G30	Alzheimer's Disease		T	2,587	0	0	0	0	0	0	29	327	2,231	
			M	785	0	0	0	0	0	0	13	128	644	
			F	1,802	0	0	0	0	0	0	16	199	1,587	
Re- sid- ual	Other Diseases of the Nervous System		T	1,343	5	1	6	4	9	30	57	214	520	497
			M	718	2	0	4	3	6	19	28	134	304	218
			F	625	3	1	2	1	3	11	29	80	216	279
I00- I99	IX. DISEASES OF THE CIRCULATORY SYSTEM	T	12,191	9	3	0	3	4	70	325	1,428	3,158	7,191	
		M	6,199	6	1	0	3	2	49	211	970	1,884	3,073	
		F	5,992	3	2	0	0	2	21	114	458	1,274	4,118	
I00- I78	<u>Major Cardiovascular Diseases</u>		T	12,129	9	3	0	3	4	69	319	1,417	3,140	7,165
			M	6,171	6	1	0	3	2	49	209	963	1,874	3,064
			F	5,958	3	2	0	0	2	20	110	454	1,266	4,101
I00-I09, I11,I13, I20-I51	<i>**Diseases of the Heart</i>		T	8,563	3	2	0	1	3	56	253	1,019	2,173	5,053
			M	4,621	2	1	0	1	2	41	172	726	1,383	2,293
			F	3,942	1	1	0	0	1	15	81	293	790	2,760
I00- I09	--Acute Rheumatic Fever and Chronic Rheumatic Heart Diseases		T	138	0	0	0	0	0	2	4	7	25	100
			M	36	0	0	0	0	0	1	3	2	7	23
			F	102	0	0	0	0	0	1	1	5	18	77
I11	--Hypertensive Heart Disease		T	472	0	0	0	0	0	3	14	62	73	320
			M	191	0	0	0	0	0	3	9	39	34	106
			F	281	0	0	0	0	0	0	5	23	39	214

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ICD10 Code	ALL CAUSES, Total	Sex											
		T	52,342	264	71	34	42	182	1,247	2,136	7,137	15,158	26,071
		M	26,738	160	43	21	29	125	890	1,326	4,452	8,636	11,056
		F	25,604	104	28	13	13	57	357	810	2,685	6,522	15,015
Diseases of Circulatory System Continued													
I13	--Hypertensive Heart and Renal Disease	T	270	0	0	0	0	0	0	2	14	46	208
		M	97	0	0	0	0	0	0	0	7	25	65
		F	173	0	0	0	0	0	0	2	7	21	143
I20- I25	--Ischaemic Heart Disease	T	4,224	0	0	0	0	0	14	116	616	1,272	2,206
		M	2,704	0	0	0	0	0	11	96	473	888	1,236
		F	1,520	0	0	0	0	0	3	20	143	384	970
I21- I22	~Acute Myocardial Infarction	T	990	0	0	0	0	0	5	40	201	327	417
		M	623	0	0	0	0	0	5	33	154	218	213
		F	367	0	0	0	0	0	0	7	47	109	204
I23- I24	~Other Acute Ischaemic Heart Diseases	T	33	0	0	0	0	0	0	1	2	9	21
		M	17	0	0	0	0	0	0	0	2	6	9
		F	16	0	0	0	0	0	0	1	0	3	12
I25.0, I25.1	~Atherosclerotic (chronic) Cardiovascular Disease	T	2,838	0	0	0	0	0	9	70	379	827	1,553
		M	1,819	0	0	0	0	0	6	59	293	579	882
		F	1,019	0	0	0	0	0	3	11	86	248	671
I20, I25.2- I25.9	~Other Chronic Ischaemic Heart Diseases	T	363	0	0	0	0	0	0	5	34	109	215
		M	245	0	0	0	0	0	0	4	24	85	132
		F	118	0	0	0	0	0	0	1	10	24	83
I26- I51	--Other Heart Disease	T	3,459	3	2	0	1	3	37	117	320	757	2,219
		M	1,593	2	1	0	1	2	26	64	205	429	863
		F	1,866	1	1	0	0	1	11	53	115	328	1,356

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ICD10 Code	ALL CAUSES, Total	Sex											
		T	52,342	264	71	34	42	182	1,247	2,136	7,137	15,158	26,071
		M	26,738	160	43	21	29	125	890	1,326	4,452	8,636	11,056
		F	25,604	104	28	13	13	57	357	810	2,685	6,522	15,015
Diseases of Circulatory System Continued													
I50	~Heart Failure	T	1,064	0	0	0	0	0	1	5	58	206	794
		M	466	0	0	0	0	0	1	4	35	116	310
		F	598	0	0	0	0	0	0	1	23	90	484
I26-I28, I30-I39, I42-I49,I51	~All Other Forms of Heart Disease	T	2,395	3	2	0	1	3	36	112	262	551	1,425
		M	1,127	2	1	0	1	2	25	60	170	313	553
		F	1,268	1	1	0	0	1	11	52	92	238	872
I10, I12, I15	**Essential Hypertension & Hypertensive Renal Disease	T	842	0	0	0	0	0	1	13	117	254	457
		M	374	0	0	0	0	0	0	7	81	133	153
		F	468	0	0	0	0	0	1	6	36	121	304
I60- I69	**Cerebrovascular Diseases	T	2,316	4	1	0	2	1	10	42	233	579	1,444
		M	964	2	0	0	2	0	7	22	124	285	522
		F	1,352	2	1	0	0	1	3	20	109	294	922
I70- I78	**Diseases of arteries, arterioles and capillaries	T	408	2	0	0	0	0	2	11	48	134	211
		M	212	2	0	0	0	0	1	8	32	73	96
		F	196	0	0	0	0	0	1	3	16	61	115
I71	--Aortic Aneurysm and Dissection	T	205	0	0	0	0	0	2	10	29	67	97
		M	115	0	0	0	0	0	1	8	21	34	51
		F	90	0	0	0	0	0	1	2	8	33	46
I72- I78	--Other Diseases of the Arteries, Arterioles, and Capillaries	T	203	2	0	0	0	0	0	1	19	67	114
		M	97	2	0	0	0	0	0	0	11	39	45
		F	106	0	0	0	0	0	0	1	8	28	69

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ICD10 Code	Sex													
	ALL CAUSES, Total		T	52,342	264	71	34	42	182	1,247	2,136	7,137	15,158	26,071
			M	26,738	160	43	21	29	125	890	1,326	4,452	8,636	11,056
			F	25,604	104	28	13	13	57	357	810	2,685	6,522	15,015
Diseases of Circulatory System Continued														
I80- I99	Other Disorders of the		T	62	0	0	0	0	0	1	6	11	18	26
	Circulatory System		M	28	0	0	0	0	0	0	2	7	10	9
			F	34	0	0	0	0	0	1	4	4	8	17
J00- J99	X.	DISEASES OF THE RESPIRATORY SYSTEM	T	3,679	4	5	2	3	5	20	62	419	1,331	1,828
			M	1,870	3	2	0	3	1	11	35	220	738	857
			F	1,809	1	3	2	0	4	9	27	199	593	971
J10- J18	Influenza and		T	558	1	0	1	1	1	9	22	61	142	320
	Pneumonia		M	276	1	0	0	1	0	4	15	26	82	147
			F	282	0	0	1	0	1	5	7	35	60	173
J10- J11	...Influenza		T	110	0	0	0	0	0	5	6	26	37	36
			M	54	0	0	0	0	0	2	3	11	24	14
			F	56	0	0	0	0	0	3	3	15	13	22
J12- J18	...Pneumonia		T	448	1	0	1	1	1	4	16	35	105	284
			M	222	1	0	0	1	0	2	12	15	58	133
			F	226	0	0	1	0	1	2	4	20	47	151
J40- J47	Chronic Lower		T	2,211	0	0	0	1	1	8	22	259	886	1,034
	Respiratory Diseases		M	1,069	0	0	0	1	0	5	9	129	467	458
			F	1,142	0	0	0	0	1	3	13	130	419	576
J43	...Emphysema		T	136	0	0	0	0	0	1	0	19	58	58
			M	69	0	0	0	0	0	1	0	11	29	28
			F	67	0	0	0	0	0	0	0	8	29	30

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ICD10 Code	ALL CAUSES, Total		Sex										
		T	52,342	264	71	34	42	182	1,247	2,136	7,137	15,158	26,071
		M	26,738	160	43	21	29	125	890	1,326	4,452	8,636	11,056
		F	25,604	104	28	13	13	57	357	810	2,685	6,522	15,015
Diseases of Respiratory System Continued													
J45- J46	...Asthma	T	89	0	0	0	1	1	6	12	25	18	26
		M	30	0	0	0	1	0	3	4	9	5	8
		F	59	0	0	0	0	1	3	8	16	13	18
J44, J47	...Other Chronic Lower Respiratory Diseases	T	1,986	0	0	0	0	0	1	10	215	810	950
		M	970	0	0	0	0	0	1	5	109	433	422
		F	1,016	0	0	0	0	0	0	5	106	377	528
J69	Pneumonitis Due to Solids and Liquids	T	232	0	0	0	0	1	3	3	25	66	134
		M	151	0	0	0	0	0	2	2	18	48	81
		F	81	0	0	0	0	1	1	1	7	18	53
Re- sid- ual	Other Disease of the Respiratory System	T	678	3	5	1	1	2	0	15	74	237	340
		M	374	2	2	0	1	1	0	9	47	141	171
		F	304	1	3	1	0	1	0	6	27	96	169
K00- K93	XI. DISEASES OF THE DIGESTIVE SYSTEM	T	2,133	1	1	2	0	4	69	227	551	610	668
		M	1,138	1	1	2	0	3	37	125	337	358	274
		F	995	0	0	0	0	1	32	102	214	252	394
K70, K73- K74	Chronic Liver Disease and Cirrhosis	T	896	0	0	0	0	0	46	169	362	256	63
		M	542	0	0	0	0	0	26	96	219	160	41
		F	354	0	0	0	0	0	20	73	143	96	22
K70	...Alcoholic Liver Disease	T	639	0	0	0	0	0	39	146	290	142	22
		M	395	0	0	0	0	0	19	85	178	97	16
		F	244	0	0	0	0	0	20	61	112	45	6

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ICD10 Code			Sex											
	ALL CAUSES, Total		T	52,342	264	71	34	42	182	1,247	2,136	7,137	15,158	26,071
			M	26,738	160	43	21	29	125	890	1,326	4,452	8,636	11,056
			F	25,604	104	28	13	13	57	357	810	2,685	6,522	15,015
Diseases of Respiratory System Continued														
K73-	...Other Chronic Liver	T	257	0	0	0	0	0	7	23	72	114	41	
K74	Disease and Cirrhosis	M	147	0	0	0	0	0	7	11	41	63	25	
		F	110	0	0	0	0	0	0	12	31	51	16	
Re- sid- ual	Other Disease of the	T	1,237	1	1	2	0	4	23	58	189	354	605	
	Digestive System	M	596	1	1	2	0	3	11	29	118	198	233	
		F	641	0	0	0	0	1	12	29	71	156	372	
L00- L99	XII. DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE	T	91	0	0	0	0	0	0	2	14	27	48	
		M	44	0	0	0	0	0	0	1	9	15	19	
		F	47	0	0	0	0	0	0	1	5	12	29	
M00- M99	XIII. DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE	T	307	0	2	0	0	0	6	13	44	88	154	
		M	135	0	1	0	0	0	2	7	29	42	54	
		F	172	0	1	0	0	0	4	6	15	46	100	
N00- N99	XIV. DISEASES OF THE GENITOURINARY SYSTEM	T	869	1	0	0	0	0	8	18	86	266	490	
		M	415	0	0	0	0	0	5	9	44	129	228	
		F	454	1	0	0	0	0	3	9	42	137	262	
N00-N07, N17-N19, N25-N27	Nephritis, Nephrotic	T	529	1	0	0	0	0	4	9	50	159	306	
	Syndrome, and Nephrosis	M	263	0	0	0	0	0	3	4	26	85	145	
		F	266	1	0	0	0	0	1	5	24	74	161	

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ICD10 Code			Sex											
	ALL CAUSES, Total		T	52,342	264	71	34	42	182	1,247	2,136	7,137	15,158	26,071
			M	26,738	160	43	21	29	125	890	1,326	4,452	8,636	11,056
			F	25,604	104	28	13	13	57	357	810	2,685	6,522	15,015
Diseases of Genitourinary System Continued														
N17- N19	Renal Failure	T	506	1	0	0	0	0	3	8	47	149	298	
		M	255	0	0	0	0	0	2	4	23	83	143	
		F	251	1	0	0	0	0	1	4	24	66	155	
Re- sid- ual	Other Diseases of the Genitourinary System	T	340	0	0	0	0	0	4	9	36	107	184	
		M	152	0	0	0	0	0	2	5	18	44	83	
		F	188	0	0	0	0	0	2	4	18	63	101	
P00- P96	XVI. CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD	T	132	129	1	0	0	0	0	0	2	0	0	
		M	72	71	0	0	0	0	0	0	1	0	0	
		F	60	58	1	0	0	0	0	0	1	0	0	
Q00- Q99	XVII. CONGENITAL MALFORMATIONS, DEFORMATIONS, AND CHROMOSOMAL ABNORMALITIES	T	211	70	12	2	3	1	12	19	51	26	15	
		M	127	46	9	1	2	1	10	11	26	13	8	
		F	84	24	3	1	1	0	2	8	25	13	7	
R00- R99	XVIII. SYMPTOMS, SIGNS, AND ABNORMAL CLINICAL AND LABORATORY FINDINGS	T	1,118	10	2	0	0	2	9	28	138	303	626	
		M	533	6	0	0	0	2	6	19	95	178	227	
		F	585	4	2	0	0	0	3	9	43	125	399	

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2020.

Cause of Death			Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+	
			Sex											
ICD10 Code	ALL CAUSES, Total		T	52,342	264	71	34	42	182	1,247	2,136	7,137	15,158	26,071
			M	26,738	160	43	21	29	125	890	1,326	4,452	8,636	11,056
			F	25,604	104	28	13	13	57	357	810	2,685	6,522	15,015
V01- Y98	XX. EXTERNAL CAUSES	T	4,446	25	31	11	22	142	842	712	867	652	1,142	
		M	2,898	17	22	9	13	103	639	499	641	448	507	
		F	1,548	8	9	2	9	39	203	213	226	204	635	
V01- X59, Y85-Y86	Accidents	T	3,321	21	19	6	11	71	538	481	629	482	1,063	
		M	2,042	16	14	6	7	47	391	320	466	322	453	
		F	1,279	5	5	0	4	24	147	161	163	160	610	
V01- V99, Y85	**Transport Accidents	T	555	1	3	1	7	38	120	107	147	86	45	
		M	411	1	2	1	4	28	89	69	121	67	29	
		F	144	0	1	0	3	10	31	38	26	19	16	
	+ --Motor Vehicle Accidents	T	496	1	3	1	6	38	110	103	125	67	42	
		M	363	1	2	1	3	28	81	67	100	52	28	
		F	133	0	1	0	3	10	29	36	25	15	14	
V90- V99,Y85	++ --Other Transport Accidents (land, water, air, space)	T	59	0	0	0	1	0	10	4	22	19	3	
		M	48	0	0	0	1	0	8	2	21	15	1	
		F	11	0	0	0	0	0	2	2	1	4	2	
+ 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														
++ V1,V5-V6,V09.1,V09.3-V09.9,V10-V11,V15-V18,V19.3,V19.8-V19.9,V80.0-V80.2,V80.6-V80.9,V81.2-V81.9,V82.2-V82.9,V87.9,V88.9,V89.1,V89.3,V89.9														
W00- X59, Y86	**Non-Transport Accidents	T	2,766	20	16	5	4	33	418	374	482	396	1,018	
		M	1,631	15	12	5	3	19	302	251	345	255	424	
		F	1,135	5	4	0	1	14	116	123	137	141	594	
W00- W19	--Falls	T	1,273	0	0	0	1	1	10	23	94	251	893	
		M	615	0	0	0	1	1	6	17	65	157	368	
		F	658	0	0	0	0	0	4	6	29	94	525	

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2020.

Cause of Death			Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+
ICD10 Code	ALL CAUSES, Total	Sex											
		T	52,342	264	71	34	42	182	1,247	2,136	7,137	15,158	26,071
		M	26,738	160	43	21	29	125	890	1,326	4,452	8,636	11,056
		F	25,604	104	28	13	13	57	357	810	2,685	6,522	15,015
External Causes -- Accidents Continued													
X00- X09	--Accidental Exposure to Smoke, Fire, and Flames	T	44	0	1	0	0	0	1	5	14	14	9
		M	29	0	1	0	0	0	1	5	9	8	5
		F	15	0	0	0	0	0	0	0	5	6	4
X40- X49	--Accidental Poisoning ¹ and Exposure to Noxious Substances	T	1,025	1	2	0	0	27	372	299	278	39	7
		M	698	1	2	0	0	14	270	189	196	24	2
		F	327	0	0	0	0	13	102	110	82	15	5
Re- sid- ual	--Other Non-Transport Accidents and Their Sequelae	T	424	19	13	5	3	5	35	47	96	92	109
		M	289	14	9	5	2	4	25	40	75	66	49
		F	135	5	4	0	1	1	10	7	21	26	60
X60- X84, Y87.0	<u>Intentional Self-Harm</u> <u>(Suicide)</u>	T	757	0	0	0	7	42	198	182	179	114	35
		M	605	0	0	0	3	31	158	147	143	91	32
		F	152	0	0	0	4	11	40	35	36	23	3
X72- X74	**By Discharge of Firearms	T	354	0	0	0	0	17	79	83	84	72	19
		M	320	0	0	0	0	15	70	74	77	65	19
		F	34	0	0	0	0	2	9	9	7	7	0
X60-X71, X75-X84, Y87.0	**By Other and Unspecified Means and Their Sequelae	T	403	0	0	0	7	25	119	99	95	42	16
		M	285	0	0	0	3	16	88	73	66	26	13
		F	118	0	0	0	4	9	31	26	29	16	3

Table 2. Deaths from Selected Causes by Age Group and Sex, Minnesota Residents, 2020.

Cause of Death			Total	< 1	1-4	5-9	10-14	15-19	20-34	35-49	50-64	65-79	80+	
ICD10 Code	Sex													
	ALL CAUSES, Total		T	52,342	264	71	34	42	182	1,247	2,136	7,137	15,158	26,071
			M	26,738	160	43	21	29	125	890	1,326	4,452	8,636	11,056
			F	25,604	104	28	13	13	57	357	810	2,685	6,522	15,015
External Causes Continued														
X85- Y09, Y87.1	<u>Assault (Homicide)</u>	T	198	1	7	3	2	27	95	29	23	8	3	
		M	156	1	5	2	1	24	82	21	13	6	1	
		F	42	0	2	1	1	3	13	8	10	2	2	
X93- X95	**By Discharge of Firearms	T	138	0	0	1	0	21	75	22	15	4	0	
		M	118	0	0	1	0	19	69	16	10	3	0	
		F	20	0	0	0	0	2	6	6	5	1	0	
X85-X92, X96-Y09, Y87.1	**By Other and Unspecified Means and Their Sequelae	T	60	1	7	2	2	6	20	7	8	4	3	
		M	38	1	5	1	1	5	13	5	3	3	1	
		F	22	0	2	1	1	1	7	2	5	1	2	
Y10- Y34, Y87.2,Y89.9	<u>Events of Undetermined Intent</u>	T	66	2	4	2	1	2	10	13	22	4	6	
		M	43	0	3	1	1	1	8	10	14	4	1	
		F	23	2	1	1	0	1	2	3	8	0	5	
Y40- Y84, Y88	<u>Complications of Medical and Surgical Care</u>	T	104	1	1	0	1	0	1	7	14	44	35	
		M	52	0	0	0	1	0	0	1	5	25	20	
		F	52	1	1	0	0	0	1	6	9	19	15	
U071	XXII. Codes for Special Purposes (COVID-19)	T	5,215	1	0	0	0	0	17	82	466	1,467	3,182	
		M	2,772	0	0	0	0	0	13	56	311	900	1,492	
		F	2,443	1	0	0	0	0	4	26	155	567	1,690	

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.

¹ 66% of accidental poisonings are due to narcotics and hallucinogens in ages 20-64 years.

Table 3. MN Ten Leading Causes of Death¹, Death Rates per 100,000 Population, Percent of Total Deaths, and Rank Order, Minnesota Residents, 2020.

Cause of Death	Minnesota				United States ²	
	Number of Deaths	Death Rates	Percent of Total	RANK	Death Rates	RANK
Malignant Neoplasms [Cancer] (C00-C97)	9,941	175.7	19.0%	1	182.8	2
Diseases of the Heart (I00-I09,I11,I13,I20-I51)	8,563	151.4	16.4%	2	211.5	1
COVID-19 (U071)	5,215	92.2	10.0%	3	106.5	3
Accidents (V01-X59,Y85-Y86)	3,321	58.7	6.3%	4	61.0	4
Falls (W00-W19)	1,273	22.5	2.4%			
Accidental poisoning (X40-X49)	1,025	18.1	2.0%			
Motor Vehicle ³	496	8.8	0.9%			
Alzheimer's Disease (G30)	2,587	45.7	4.9%	5	40.7	7
Cerebrovascular Diseases [Stroke] (I60-I69)	2,316	40.9	4.4%	6	48.6	5
Chronic Lower Respiratory Diseases (J40-J47)	2,211	39.1	4.2%	7	46.3	6
Diabetes Mellitus (E10-E14)	1,493	26.4	2.9%	8	31.0	8
Chronic Liver Disease (K70, K73-K74)	896	15.8	1.7%	9	15.7	11
Essential Hypertension and Hypertensive Renal Disease (I10, I12, I15)	842	14.9	1.6%	10	12.7	13
All Other Causes	14,957	264.4	28.6%		240.0	
Total - All Causes	52,342	925.2			1,027.0	

¹These 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.

² United States data are from Mortality in the United States, 2020 & CDC wonder

³Motor 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.

Mortality Table 4. Leading Causes of Death by Age Groups, Counts, and Age/Cause-specific Death Rates, Minnesota Residents, 2020.

	No. ¹ of Deaths			Death Rate ² Per 100,000		
	No. ¹ of Deaths	%		No. ¹ of Deaths	%	Death Rate ² Per 100,000
1-4 Years				35-49 Years		
Total - all causes	71		25.4	Total - all causes	2,136	201.3
Accidents	19	26.8%	--	Accidents	481	22.5%
Motor Vehicle	3	4.2%	--	Accidental poisoning ³	299	14.0%
Congenital Anomalies	12	16.9%	--	Motor Vehicle	103	4.8%
Assault (Homicide)	7	9.9%	--	Malignant Neoplasm	362	16.9%
Malignant Neoplasm	4	5.6%	--	Diseases of the Heart	253	11.8%
Diseases of the Heart	2	2.8%	--	Intentional Self-Harm	182	8.5%
				Liver Disease, Cirrhosis	169	7.9%
5-9 Years				50-64 Years		
Total - all causes	34		9.4	Total - all causes	7,137	653.7
Accidents	6	17.6%		Malignant Neoplasms	1,972	27.6%
Motor Vehicle	1	2.9%	--	Diseases of the Heart	1,019	14.3%
Malignant Neoplasms	5	14.7%	--	Accidents	629	8.8%
Assault (Homicide)	3	8.8%	--	Accidental poisoning ³	278	3.9%
Congenital Anomalies	2	5.9%	--	Motor Vehicle	125	1.8%
10-14 Years				Covid-19	466	6.5%
Total - all causes	42		11.4	Liver Disease, Cirrhosis	362	5.1%
Accidents	11	26.2%	--	Diabetes Mellitus	284	4.0%
Other Transport	1	2.4%	--	Chron. Lower Resp Dis.	259	3.6%
Motor Vehicle	6	14.3%	--	Cerebrovascular	233	3.3%
Intentional Self-Harm	7	16.7%	--			
Congenital Anomalies	3	7.1%	--	65-79 Years²		
15-19 Years				Total - all causes	15,158	2117.9
Total - all causes	182		50.3	Malignant Neoplasms	4,234	27.9%
Accidents	71	39.0%	19.6	Diseases of the Heart	2,173	14.3%
Motor Vehicle	38	20.9%	10.5	Covid-19	1,467	9.7%
Accidental poisoning ³	27	14.8%	7.5	Chron. Lower Resp Dis.	886	5.8%
Intentional Self-Harm	42	23.1%	11.6	Cerebrovascular Diseases	579	3.8%
Assault (Homicide)	27	14.8%	7.5	Diabetes Mellitus	573	3.8%
Malignant Neoplasm	8	4.4%	--	Accidents	482	3.2%
				Falls	251	1.7%
20-34 Years				Motor Vehicle	67	0.4%
Total - all causes	1,247		111.9	Unspecified Dementia	372	2.5%
Accidents	538	43.1%	48.3	Alzheimer's Disease	327	2.2%
Accidental poisoning ³	372	29.8%	33.4	80 Years and Over²		
Motor Vehicle	110	8.8%	9.9	Total - all causes	26,071	11,182.6
Intentional Self-Harm	198	15.9%	17.8	Diseases of the Heart	5,053	19.4%
Assault (Homicide)	95	7.6%	8.5	Malignant Neoplasms	3,307	12.7%
Malignant Neoplasms	71	5.7%	6.4	Covid-19	3,182	12.2%
Diseases of the Heart	56	4.5%	5.0	Alzheimer's Disease	2,231	8.6%
				Unspecified Dementia	2,130	8.2%
				Cerebrovascular Diseases	1,444	5.5%
				Chron. Lower Resp Dis.	1,034	4.0%
				Accidents	1,063	4.1%
				Falls	893	3.4%

¹ 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.

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

³ 66% of accidental poisonings are due to narcotics and hallucinogens in ages 20-64 years.

Mortality Table 5a. Deaths Due to Selected Causes by Race/Ethnicity, MN Residents, 2020.

	Total	Non-Hispanic					Hispanic
		White	African American	American Indian	Asian or Pacific Islander	Other/Unknown	
TOTAL POPULATION¹	5,657,342	4,513,407	438,264	68,257	315,728	N/A	321,686
TOTAL - ALL CAUSES	52,372	47,449	2,190	801	1,102	84	746
TOTAL - Natural Causes	47,926	43,842	1,750	623	1,025	77	609
Malignant Neoplasms	9,941	9,122	359	106	204	13	137
Stomach	166	131	13	3	8	0	11
Colon, Rectum and Anus	830	753	29	11	23	0	14
Pancreas	810	752	28	7	18	1	4
Trachea, Bronchus, Lung	2,173	2,010	81	34	32	0	16
Breast	657	595	35	4	9	2	12
Cervix, Uterus, Ovary	450	411	19	2	11	1	6
Prostate	569	541	19	3	1	2	3
Non-Hodgkins Lymphoma	374	348	10	1	7	1	7
Leukemia	451	413	15	3	11	1	8
Other Malignancies	3,461	3,168	110	38	84	5	56
Diabetes Mellitus	1,493	1,234	101	54	65	3	36
Alzheimer's Disease	2,587	2,523	30	5	14	1	14
Major Cardiovascular	12,129	11,242	431	117	228	20	91
Diseases of the Heart	8,563	8,018	271	82	115	12	65
Essential Hypertension & Hypertensive Renal	842	751	50	7	25	1	8
Cerebrovascular	2,316	2,096	99	27	74	6	14
Influenza & Pneumonia	558	511	12	16	11	1	7
Chronic Lower Respiratory Diseases	2,211	2,089	61	26	26	4	5
Chronic Liver Disease and Cirrhosis	896	764	36	55	15	0	26
Nephritis, Nephrotic Syndrome, and Nephrosis	529	471	24	5	20	1	8
All Other Diseases	17,582	15,886	696	239	442	34	285
Total Accidents	3,321	2,759	283	132	45	6	96
Motor Vehicle Accidents	496	409	39	16	11	3	18
Falls	1,273	1,211	18	8	15	0	21
Accidental poisoning	1,025	677	191	101	10	3	43
Intentional Self-Harm (Suicide)	757	649	36	25	25	1	21
Assault (Homicide)	198	63	98	18	5	0	14
Other External Causes	170	136	23	3	2	0	6
COVID-19	5,215	4,504	264	72	216	13	146

¹ Annual Estimates are bridged-race Vintage 2020 postcensal estimates of the July 1 resident population. These estimates were prepared by the Census Bureau in collaboration with NCHS. Bridged race estimates created for the 5 race or Hispanic categories. Thus, there are no population estimates for other/unknown. For more information or access to the data, see: <https://wonder.cdc.gov/wonder/help/bridged-race.html>

Note: see Table 5b for crude rates.

Mortality Table 5b. Cause-Specific Mortality Rates^{1,2} by Race/Ethnicity, MN Residents, 2020.

	Total	Non-Hispanic					Hispanic
		White	African American	American Indian	Asian or Pacific Islander	Other/ ³ Unknown	
TOTAL - ALL CAUSES	925.7	1,051.3	499.7	1,173.5	349.0	N/A	231.9
TOTAL - Natural Causes	847.1	971.4	399.3	912.7	324.6	N/A	189.3
Malignant Neoplasms	175.7	202.1	81.9	155.3	64.6	N/A	42.6
Stomach	2.9	2.9	--	--	--	N/A	--
Colon, Rectum and Anus	14.7	16.7	6.6	--	7.3	N/A	--
Pancreas	14.3	16.7	6.4	--	--	N/A	--
Trachea, Bronchus, Lung	38.4	44.5	18.5	49.8	10.1	N/A	--
Breast	11.6	13.2	8.0	--	--	N/A	--
Cervix, Uterus, Ovary	8.0	9.1	--	--	--	N/A	--
Prostate	10.1	12.0	--	--	--	N/A	--
Non-Hodgkins Lymphoma	6.6	7.7	--	--	--	N/A	--
Leukemia	8.0	9.2	--	--	--	N/A	--
Other Malignancies	61.2	70.2	25.1	55.7	26.6	N/A	17.4
Diabetes Mellitus	26.4	27.3	23.0	79.1	20.6	N/A	11.2
Alzheimer's Disease	45.7	55.9	6.8	--	--	N/A	--
Major Cardiovascular	214.4	249.1	98.3	171.4	72.2	N/A	28.3
Diseases of the Heart	151.4	177.6	61.8	120.1	36.4	N/A	20.2
Essential Hypertension & Hypertensive Renal	14.9	16.6	11.4	--	7.9	N/A	--
Cerebrovascular	40.9	46.4	22.6	39.6	23.4	N/A	--
Influenza & Pneumonia	9.9	11.3	--	--	--	N/A	--
Chronic Lower Respiratory Diseases	39.1	46.3	13.9	38.1	8.2	N/A	--
Chronic Liver Disease and Cirrhosis	15.8	16.9	8.2	80.6	--	N/A	8.1
Nephritis, Nephrotic Syndrome, and Nephrosis	9.4	10.4	5.5	--	6.3	N/A	--
All Other Diseases	310.8	352.0	158.8	350.1	140.0	N/A	88.6
Total Accidents	58.7	61.1	64.6	193.4	14.3	N/A	29.8
Motor Vehicle Accidents	8.8	9.1	8.9	--	--	N/A	--
Falls	22.5	26.8	--	--	--	N/A	6.5
Accidental poisoning	18.1	15.0	43.6	148.0	--	N/A	13.4
Intentional Self-Harm (Suicide)	13.4	14.4	8.2	36.6	7.9	N/A	6.5
Assault (Homicide)	3.5	1.4	22.4	--	--	N/A	--
Other External Causes	3.0	3.0	5.2	--	--	N/A	--
COVID-19	92.2	99.8	60.2	105.5	68.4	N/A	45.4

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

² Population denominator data are Bridged intercensal estimates obtained from CDC WONDER: wonder.cdc.gov.

³ 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.

Mortality Table 6a. Deaths Due to Selected Causes by Rural/Urban Residence, MN Residents, 2020.

	Total ¹	Geographic Residence ²				
		Large Urban	Large Suburban	Medium/ Small Metro	Micropolitan	Noncore
TOTAL POPULATION	5,657,342	1,816,311	1,721,343	877,310	667,598	574,780
TOTAL - ALL CAUSES	52,338	15,782	12,804	8,694	7,690	7,368
TOTAL - Natural Causes	47,908	14,178	11,738	7,988	7,138	6,866
Malignant Neoplasms	9,940	2,736	2,673	1,645	1,453	1,433
Stomach	166	47	58	17	27	17
Colon, Rectum and Anus	830	212	223	139	119	137
Pancreas	810	232	230	120	114	114
Trachea, Bronchus, Lung	2,173	563	551	358	344	357
Breast	656	210	172	117	80	77
Cervix, Uterus, Ovary	450	120	125	68	75	62
Prostate	569	135	151	115	87	81
Non-Hodgkins Lymphoma	374	111	101	67	46	49
Leukemia	451	130	117	74	61	69
Other Malignancies	3,461	976	945	570	500	470
Diabetes Mellitus	1,492	447	371	233	211	230
Alzheimer's Disease	2,587	716	617	509	404	341
Major Cardiovascular	12,127	3,343	2,825	2,082	1,995	1,882
Diseases of the Heart	8,562	2,162	1,944	1,557	1,507	1,392
Essential Hypertension & Hypertensive Renal	841	301	222	104	91	123
Cerebrovascular	2,316	742	555	358	344	317
Influenza & Pneumonia	557	151	118	97	102	89
Chronic Lower Respiratory Diseases	2,211	576	598	372	322	343
Chronic Liver Disease and Cirrhosis	895	307	234	127	113	114
Nephritis, Nephrotic Syndrome, and Nephrosis	529	147	111	91	75	105
All Other Diseases	17,570	5,755	4,191	2,832	2,463	2,329
Total Accidents	3,308	1,209	780	526	413	380
Motor Vehicle Accidents	495	85	121	99	95	95
Falls	1,271	498	303	188	148	134
Accidental Poisoning	1,018	470	241	149	81	77
Intentional Self-Harm (Suicide)	756	215	209	137	98	97
Assault (Homicide)	197	114	32	23	18	10
Other External Causes	169	66	45	20	23	15
COVID-19	5,214	1,913	1,162	804	646	689

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

² Classification is based on the National Center for Health Statistics (NCHS) Urban-Rural Classification Scheme for Counties. See https://www.cdc.gov/nchs/data_access/urban_rural.htm for more information.

Note: see Table 6b for crude rates.

Mortality Table 6b. Cause-Specific Mortality Rates^{1,2} by Rural/Urban Residence, MN Residents, 2020.

	Total ¹	Geographic Residence				
		Large Urban	Large Suburban	Medium/ Small Metro	Micropolitan	Noncore
TOTAL - ALL CAUSES	925.1	868.9	743.8	991.0	1,151.9	1,281.9
TOTAL - Natural Causes	846.8	780.6	681.9	910.5	1,069.2	1,194.5
Malignant Neoplasms	175.7	150.6	155.3	187.5	217.6	249.3
Stomach	2.9	2.6	3.4	--	4.0	--
Colon, Rectum and Anus	14.7	11.7	13.0	15.8	17.8	23.8
Pancreas	14.3	12.8	13.4	13.7	17.1	19.8
Trachea, Bronchus, Lung	38.4	31.0	32.0	40.8	51.5	62.1
Breast	11.6	11.6	10.0	13.3	12.0	13.4
Cervix, Uterus, Ovary	8.0	6.6	7.3	7.8	11.2	10.8
Prostate	10.1	7.4	8.8	13.1	13.0	14.1
Non-Hodgkins Lymphoma	6.6	6.1	5.9	7.6	6.9	8.5
Leukemia	8.0	7.2	6.8	8.4	9.1	12.0
Other Malignancies	61.2	53.7	54.9	65.0	74.9	81.8
Diabetes Mellitus	26.4	24.6	21.6	26.6	31.6	40.0
Alzheimer's Disease	45.7	39.4	35.8	58.0	60.5	59.3
Major Cardiovascular	214.4	184.1	164.1	237.3	298.8	327.4
Diseases of the Heart	151.3	119.0	112.9	177.5	225.7	242.2
Essential Hypertension & Hypertensive Renal	14.9	16.6	12.9	11.9	13.6	21.4
Cerebrovascular	40.9	40.9	32.2	40.8	51.5	55.2
Influenza & Pneumonia	39.1	8.3	6.9	11.1	15.3	15.5
Chronic Lower Respiratory Diseases	15.8	31.7	34.7	42.4	48.2	59.7
Chronic Liver Disease and Cirrhosis	9.4	16.9	13.6	14.5	16.9	19.8
Nephritis, Nephrotic Syndrome, and Nephrosis	9.4	8.1	6.4	10.4	11.2	18.3
All Other Diseases	310.6	316.9	243.5	322.8	368.9	405.2
Total Accidents	58.5	66.6	45.3	60.0	61.9	66.1
Motor Vehicle Accidents	8.7	4.7	7.0	11.3	14.2	16.5
Falls	22.5	27.4	17.6	21.4	22.2	23.3
Accidental Poisoning	18.0	25.9	14.0	17.0	12.1	13.4
Intentional Self-Harm (Suicide)	13.4	11.8	12.1	15.6	14.7	16.9
Assault (Homicide)	3.5	6.3	1.9	2.6	--	--
Other External Causes	3.0	3.6	2.6	2.3	3.4	--
COVID-19	92.2	105.3	67.5	91.6	96.8	119.9

¹ Rates are per 100,000 rural/urban specific population. Rates not computed for counts <20 due to instability and unreliability.

² Population denominator data are summed from MN State Demographer's 2020 estimates of population by county: <https://mn.gov/admin/demography/data-by-topic/population-data/our-estimates/>.

Note: see Table 6a for counts.

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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 2020 are the source documents for data on vital statistics of Minnesota residents. Late 2020 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

Population estimates by race/ethnicity county, gender, and age group are from the bridged-race Vintage 2020 postcensal estimates of the July 1 resident population. These estimates were prepared by the Census Bureau in collaboration with NCHS. Bridged race estimates are created only for the five race or Hispanic categories. Thus, there are no population estimates for other/unknown races. For more information, see: <https://wonder.cdc.gov/wonder/help/bridged-race.html>.

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 dramatically 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 births divided by the population of women ages 15 to 44 years. Pregnancy rates are the number of pregnancies divided by the population of women ages 15 to 44 years. Abortion rates are the number of abortions 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 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.

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 confidentiality 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 reliability 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 2020,

approximately 3.4% of Minnesota resident birth mothers chose more than one race, while approximately 0.6% of resident death records indicated multiple races.

For those who report more than one race, a bridged-race code is generated by the National Center for Health Statistics (NCHS), assigning that individual to one of the four race categories of White, Black, American Indian, or Asian/Pacific Islander, allowing for statistical comparisons to previous years' data. Due to the small number of multi-race persons in Minnesota, this generated code has 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 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.

	Urbanization Level	Population	Largest city
Metropolitan	Large urban metro	>= 1,000,000	largest city >= 250,000
	Large suburban metro	>= 1,000,000	largest city < 250,000

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	Medium metro	250,000 - 999,999	N/A
	Small metro	< 250,000	N/A
Nonmetro (rural)	Micropolitan	10,000 - 49,999	urban area \geq 2,500
	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 2020, regardless of whether they were born in 2019 or 2020 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):

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

Adequacy of prenatal care 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 variable to classify the adequacy of 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.