

Drug overdose deaths among Minnesota residents

2000-2015

Drug overdose deaths among Minnesota residents, 2000 - 2015

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Contents

Drug overdose deaths among Minnesota residents	1
Introduction	4
Rising drug overdose deaths	5
Seven-county Metro compared to Greater Minnesota	6
Intent	7
Age and gender	9
Addressing the overdose epidemic	12
Appendix 1 – Drug Category Charts & Tables.....	17
Appendix 2 – 7-county metro vs. Greater MN	31
Appendix 3 – Definitions & Methodology	34

Introduction

While Minnesota is experiencing a tragic public health, drug overdose epidemic, we know that drug overdose and its consequences are preventable. This reports highlights overdose death data by various geographic and demographic variables, but we need to set our sights on all Minnesotans who are affected by drug overdose, and all communities where substance abuse leads to personal, family and community suffering.

Preventing inappropriate use of opioids, and reducing overall substance abuse, requires a public health approach. That means not only addressing how we manage pain, but also how we support communities and people in addressing the root causes of substance abuse, which go far beyond the individual person, specific substance or distinct community.

The section “Addressing the overdose epidemic” highlights some of the strategies the State is implementing. State agencies do play an important role in addressing the drug overdose epidemic; however, the solutions will require an ongoing response from multiple stakeholders including:

- Federal and tribal governments
- Local public health
- Opioid prescribers
- Medical, mental health, and substance abuse treatment systems
- Patients, families and communities.

Mental health and substance abuse issues are often entangled with each other and the outcomes can range from mild to severe. People and their families who are struggling with substance abuse and/or mental health problems should know that hope, help and healing are available across a continuum of effective treatment and support services.

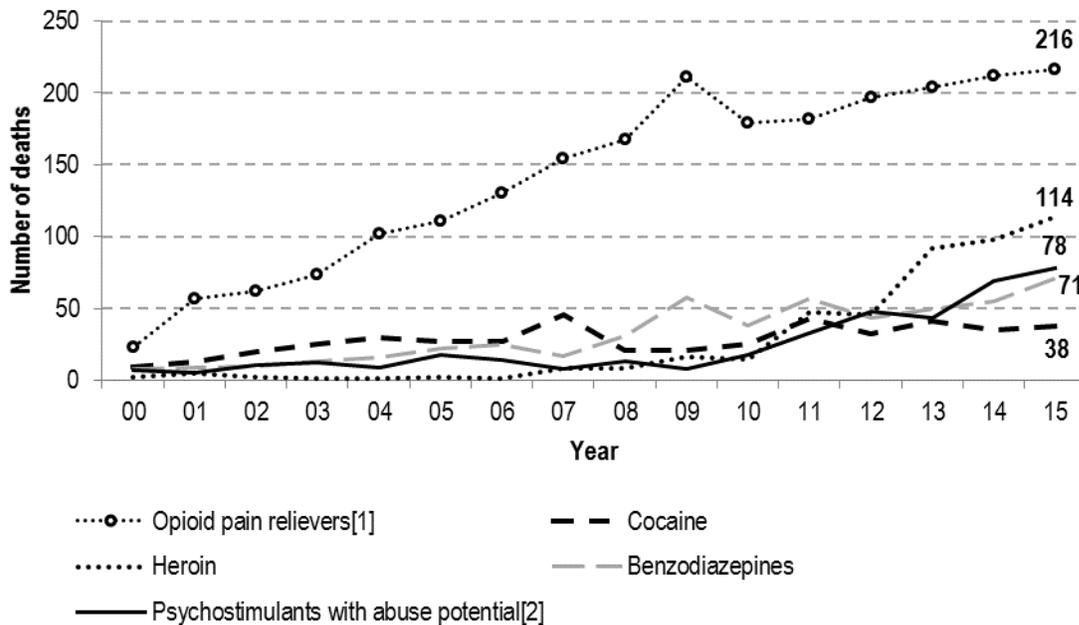
Rising drug overdose deaths

Drug overdose deaths among Minnesota residents reveals an alarming trend, jumping 11 percent from 2014 to 2015. Preliminary data collected from Minnesota death certificates show 572 people in 2015 died from a drug overdose as compared to 516 in 2014.

That trend holds true for four of the five leading drug categories, excluding cocaine. About half of the drug-related deaths were tied to prescription medication as opposed to illegal street drugs. The leading drug categories associated with deaths are opiate pain relievers (216), heroin (114), psychostimulants like methamphetamine (78), benzodiazepines like Valium (71), and cocaine (38).

Chart 1

Drug overdose deaths by non-exclusive drug category, MN residents, STATEWIDE, 2000-2015



NOTE: Drug categories are not exclusive.

SOURCE: Minnesota death certificates, Injury and Violence Prevention Unit, Minnesota Department of Health (MDH), 2000-2015

¹Opioid pain relievers: Includes methadone

²Psychostimulants with abuse potential: Include methamphetamine

The data show the drug category trends in the seven-county metro area and in Greater Minnesota follow a similar trajectory as the statewide numbers. Find the seven-county metro and Greater Minnesota charts, and the county-specific tables by drug category in [Appendix 1](#).

Seven-county Metro compared to Greater Minnesota

Drug overdose deaths are not just a Metro-area problem. Rates in both Greater Minnesota and the Metro have steadily increased since 2000 when they were both less than 3.0 per 100,000.

Most recently, the rate and number of drug overdose deaths increased in the seven-county metro area from 2014 to 2015. In Greater Minnesota, the rate and number remained about the same for the same period. The 2015 Metro rate of 11.6 deaths per 100,000 residents is slightly higher than the greater Minnesota rate of 9.3 per 100,000.

For county-specific data refer to [Appendix 2](#).

Chart 2

**Number of drug overdose deaths,
7-county metro vs. Greater MN, MN residents, 2000-2015**

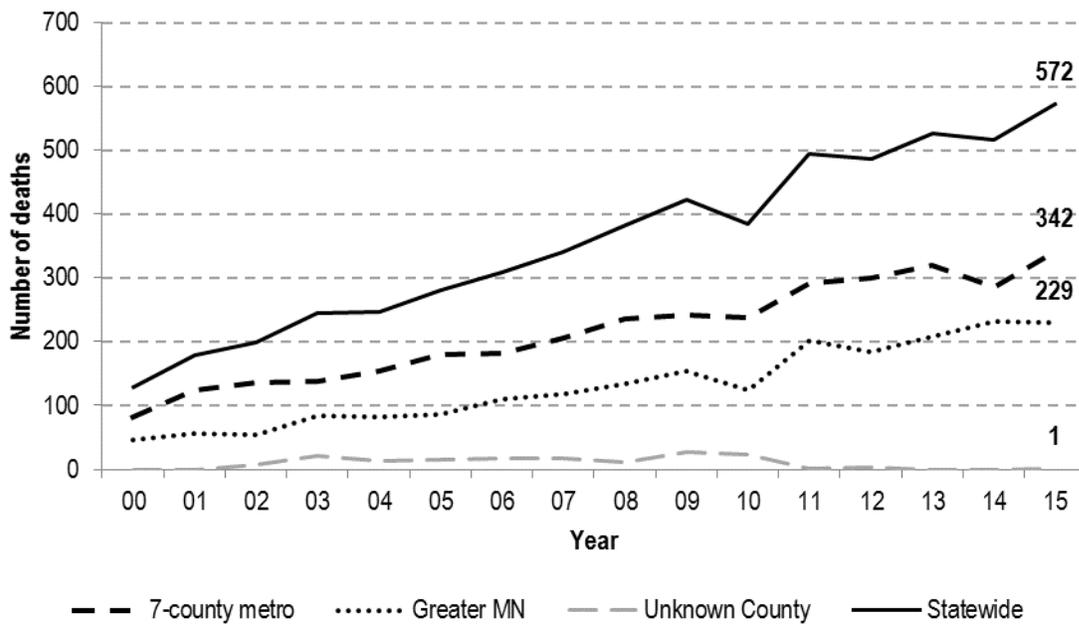
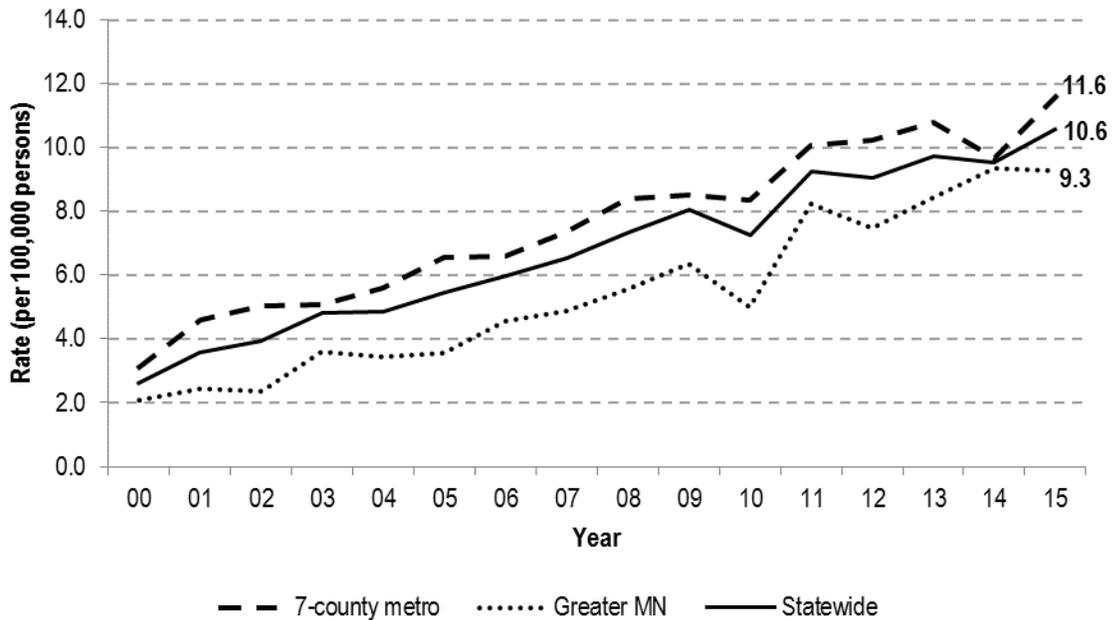


Chart 3

Rates of drug overdose deaths,
7-county metro vs. Greater MN, MN residents, 2000-2015



SOURCE: Minnesota death certificates, Injury and Violence Prevention Unit, Minnesota Department of Health (MDH), 2000-2015

Intent

Over the last three years, unintentional overdoses accounted for a large majority of the Minnesota drug overdose deaths. While multiple factors influence suicidal behavior, substance use, including alcohol, is a significant factor in suicide and suicidal attempts. Therefore, there may be some overlap between unintentional poisonings and suicides.

Chart 4

3-year counts of drug overdose deaths by intent, 7-county metro vs. Greater MN, 2013-2015

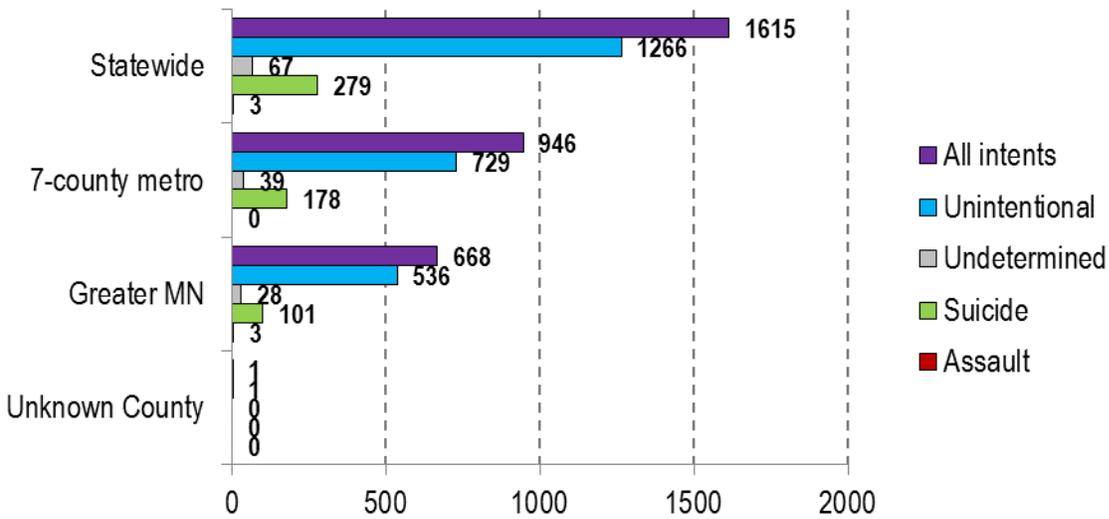
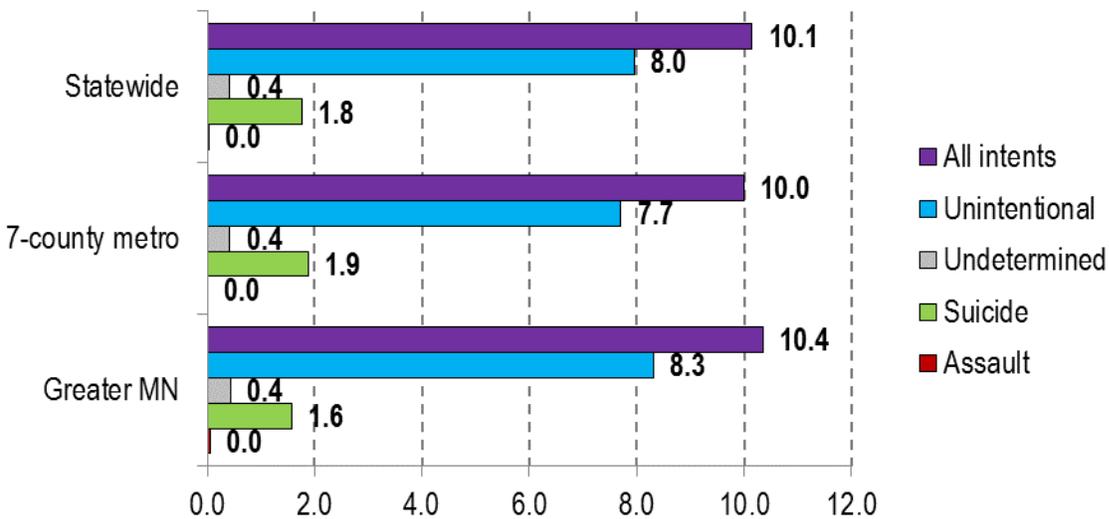


Chart 5

Annualized rates* (per 100,000 pop) of drug overdose deaths by intent, 7-county metro vs. Greater MN, 2013-2015



*Crude (unadjusted) rates. 3-year rates were calculated using the Census 2010 population.

Age and gender

Middle aged adults have the highest numbers and rates of Minnesota’s drug overdose deaths.

From 2013 to 2015, the data show that statewide, adults aged 45 to 54 are experiencing the highest number of overdose deaths (411). The seven-county Metro had 255 deaths in that age group. In Greater Minnesota, however, there are nearly even numbers of deaths between adults aged 35 to 44 (156) and adults aged 45 to 54 (155). See Chart 6.

The rates per 100,000 population portray a mixed picture. The highest rate of death in Greater Minnesota jumps out at 21.3%, occurring in adults aged 35 to 44. The highest rate (17.4%) in the seven-county metro area is among adults aged 45 to 54. This suggests that slightly different phenomena are influencing drug abuse and overdose deaths in the two regions. See Chart 7.

In both number and rate of death across Minnesota, men are leading women in drug overdose deaths. See Charts 8 and 9.

Chart 6

3-year counts of drug overdose deaths, by age group, 7-county metro vs. Greater MN, 2013-2015

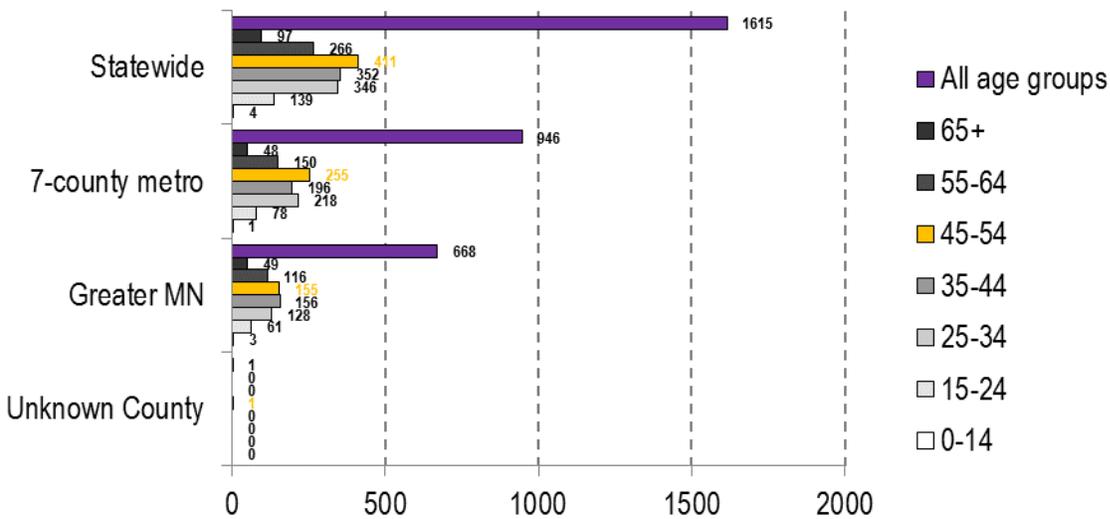
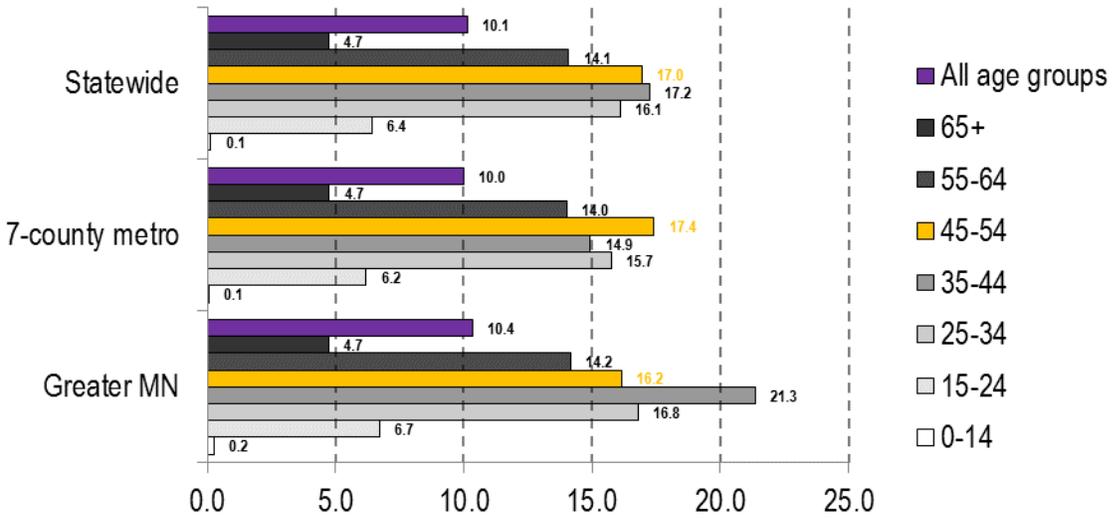


Chart 7

Annualized rates* (per 100,000 pop) of drug overdose deaths by age group, 7-county metro vs. Greater MN, 2013-2015



*Crude (unadjusted) rates. 3-year rates were calculated using the Census 2010 population.

Chart 8

3-year counts of drug overdose deaths, by gender, 7-county metro vs. Greater MN, 2013-2015

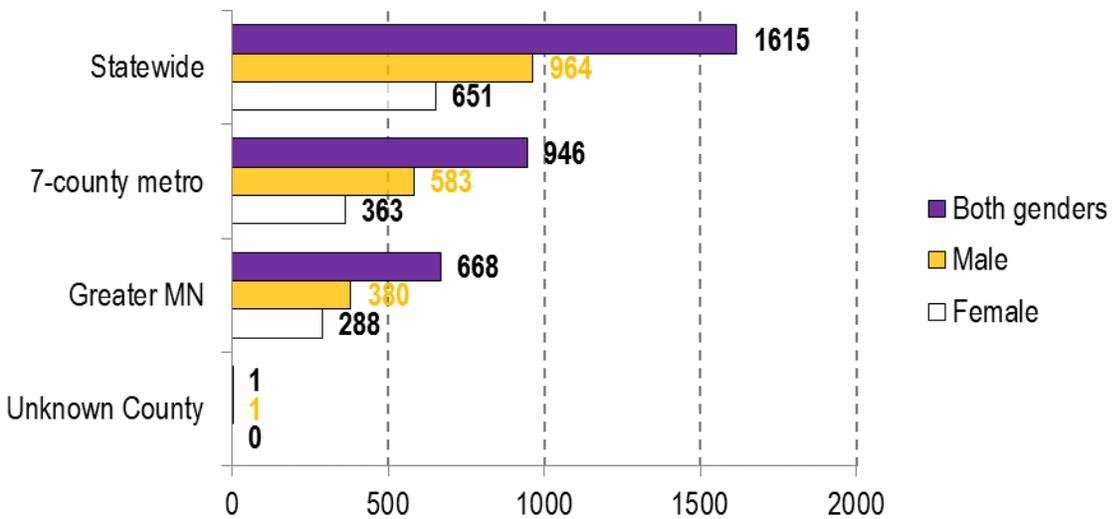
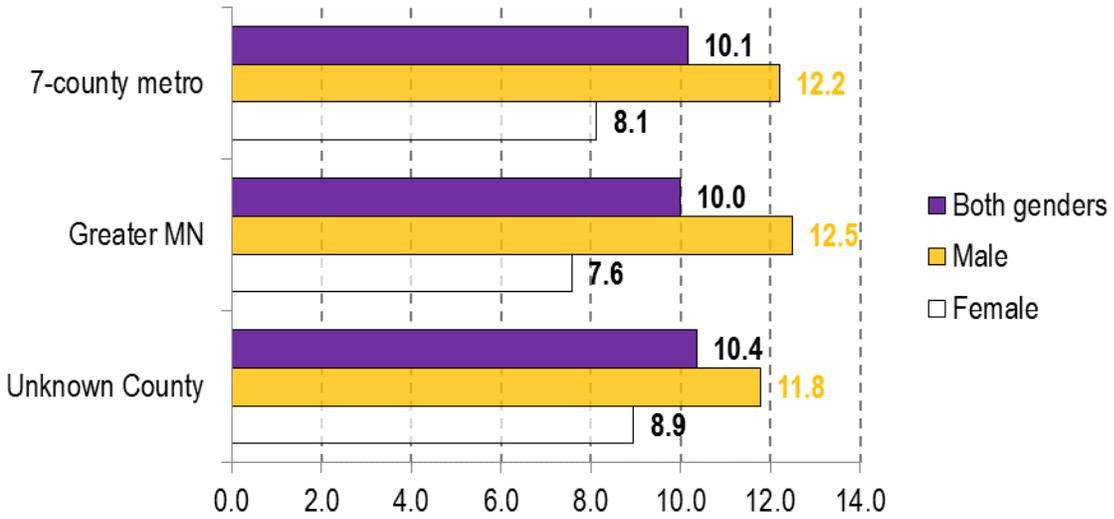


Chart 9

**Annualized rates* (per 100,000 pop) of drug overdose deaths
by gender, 7-county metro vs. Greater MN, 2013-2015**



Addressing the overdose epidemic

Minnesota is experiencing a tragic public health overdose epidemic. Preventing inappropriate use of opioids, and reducing overall substance abuse, requires a public health approach. That means not only addressing how we manage pain, but also how we empower communities and people with those things that protect health.

Health is created when everyone is healthy together. The roots of substance abuse go beyond the individual person, they are defined by things like community and family support, access to health care and healthy relationships.

To address and coordinate multiple efforts to reduce Opioid overdose and death, the Office of the Governor and multiple State agencies have developed the State Opioid Oversight Project (SOOP), comprised of representatives of the Departments of Human Services, Health, Education, Public Safety, Labor & Industry and Corrections; and the boards of Medical Practice, Nursing, Pharmacy, Dentistry, Veterinary Medicine and Podiatry.

Prescriber strategies

Appropriate Opioid prescribing training

Minnesota does not currently have a mandated licensure requirement for opioid prescribers to receive training. However, the Steve Rummeler Hope Foundation, in partnership with the Minnesota Medical Association and the University of Minnesota Medical School, is providing Continuing Medical Education (CME) credits for physicians and other prescribers on topics like pain management, addiction and the responsible prescribing of pain medications.

Opioid Prescribing Improvement Program (OPIP)

The Opioid Prescribing Improvement Program (OPIP) authorized by Minn. Stat. § 256B.0638 is a comprehensive initiative to reduce opioid dependency and substance use by Minnesotans enrolled in Minnesota Health Care Programs. The Commissioner of Human Services oversees the OPIP in collaboration with the Commissioner of Health.

The Opioid Prescribing Work Group (OPWG) is the community based advisory group for the OPIP that works to address the state's worrisome rise in the use of prescription opioid pain medication and heroin. The OPWG helps shape the opioid-prescribing improvement and monitoring program, created in 2015 at the direction of the governor and the legislature to reduce the spread of opioids.

The OPWG comprises consumers, health care and mental health professionals, law enforcement and representatives of the managed care organizations that contract to serve Minnesota Health Care Program (MHCP) members. It is tasked with the following:

- Recommending protocols that address all phases of the opioid prescribing cycle
- Overseeing development of educational resources and messages for providers to use in communicating with patients about pain and the use of opioids to treat pain
- Recommending quality-improvement measures to assess variation and support improvement in clinical practice
- Recommending two thresholds directed at MHCP-enrolled providers with persistently concerning prescribing practices, one threshold that will trigger quality improvement and the other termination from MHCP

The strategies and the recent [Guideline for Prescribing Opioids for Chronic Pain – http://www.cdc.gov/drugoverdose/prescribing/guideline.html](http://www.cdc.gov/drugoverdose/prescribing/guideline.html) announced by the Centers for Disease Control and Prevention are good examples of an approach that can help us more effectively treat pain, promote health and reduce harms.

Drug monitoring strategies

Minnesota Prescription Monitoring Program

The [Minnesota Prescription Monitoring Program](http://pmp.pharmacy.state.mn.us/) (PMP) – <http://pmp.pharmacy.state.mn.us/> began collecting data in 2010 to help detect diversion, abuse and misuse of prescriptions for controlled substances. Pharmacies and prescribers submit prescription data to the PMP system.

Minnesota requires pharmacies and other dispensers to report controlled substance prescription data on a daily basis. Timely submissions mean early awareness so licensed providers and prescribers can see a patient’s prescriptions in order to manage drug interactions, potential overdosing and “doctor shopping.”

At this time, Minnesota does not require either prescribers or pharmacists to search the PMP before prescribing opioids. However, in states that have the requirement, the data show that more prescribers and pharmacists are accessing and using the data to make more informed prescribing decisions. However, during this past legislative session, language was passed that requires prescribers to register for the PMP when they apply or renew their licensure.

The benefits of a Prescription Drug Monitoring Program increase when states cooperate across state lines. People who live close to a border may get their prescriptions or see providers in another state. Sharing that information ensures that prescribers in neighboring communities have access to similar information. Minnesota’s program works with 23 other states, including those states on our borders – Iowa, North Dakota, South Dakota and Wisconsin.

Drug safety strategies

Expanding Naloxone access

Minnesota is one of 39 states that grants prescribers the ability to dispense a naloxone prescription to someone (e.g. family member, caregiver) who is not the ultimate recipient of the drug but who is close to someone at-risk – commonly known as Steve’s Law.

The White Earth Reservation Ambulance Service, WERAS, a small, rural ambulance service in Northern Minnesota, is located on an Ojibwe Indian reservation. The tribal government’s health department reported that 17 lives have been saved from June 2014 through March 2016.

The law also allows certain prescribers to directly or by standing order prescribe, dispense, distribute or administer Naloxone to a person without being subject to civil liability or criminal prosecution.

New legislation supported by the Board of Pharmacy and Minnesota Department of Health now expands pharmacists’ ability to prescribe naloxone through a standing order with a medical provider.

Minnesota will continue its work to increase naloxone availability throughout the state and seek ways to supplement funding for the rising costs of naloxone.

Syringe service programs

Minnesota law allows for the operation of needle exchange programs. The [North American Syringe Exchange Network](https://nasen.org/directory/mn/) – <https://nasen.org/directory/mn/> lists needle exchange program in Minnesota.

The Minnesota Department of Health administers the [Minnesota Pharmacy Syringe/Needle Access Initiative](http://www.health.state.mn.us/divs/idepc/diseases/hiv/syringe/mnpharmacy.html) – <http://www.health.state.mn.us/divs/idepc/diseases/hiv/syringe/mnpharmacy.html>

The Minnesota Syringe Access Initiative is a law that promotes pharmacy sales to help reduce the spread of human immunodeficiency virus (HIV), the virus that causes AIDS, among injecting drug users (IDUs). This law, passed by the Minnesota State Legislature, began July 1, 1998. Since then, persons are able to purchase up to 10 new syringes/needles without a prescription at pharmacies that voluntarily participate with this initiative in Minnesota.

Disposal of unused prescription opioids

Under Minnesota law, law enforcement agencies can establish permanent drug take-back programs. Minnesota currently has more than 150 programs statewide. The Minnesota

Pollution Control Agency (MPCA) offers information on [Managing unwanted medications – https://www.pca.state.mn.us/living-green/managing-unwanted-medications](https://www.pca.state.mn.us/living-green/managing-unwanted-medications). The Agency also has a [Medication disposal toolkit – https://www.pca.state.mn.us/waste/medication-disposal-toolkit](https://www.pca.state.mn.us/waste/medication-disposal-toolkit) that has logos, designed templates, and graphics that can help communities promote a safe medication drop-off program.

New legislation supported by the Board of Pharmacy now allows pharmacies to set up permanent waste collection receptacles in the pharmacy or in a long-term care facility, like a nursing home.

Law enforcement, treatment and public health partnership

People who are chemically dependent need effective treatment for their chronic disease to break the cycle of drug-related crimes and incarceration. Minnesota has expanded drug courts to address people who have committed crimes who need drug treatment. This strategy allows offenders to avoid being imprisoned, while having opportunity for help and treatment. This action can support them in breaking the cycle of addiction and criminal behavior.

The State Substance Abuse Strategy has been supporting the State Court Administrator’s plan to seek sustainable long-term funding to ensure the continuation of drug courts.

The Department of Human Services (DHS) is working with stakeholder input to transform the current treatment system, particularly to address the needs of those addicted to opioid medications and heroin, and the subsequent related overdose deaths. DHS is committed to increasing the availability of effective treatment for people with opioid use disorders.

Addiction to alcohol or other drugs is a primary, chronic illness. The disease is often progressive and can be fatal. It is characterized by continuous or periodic:

- Impaired control over one’s chemical use
- Preoccupation with alcohol or other drugs
- Use despite adverse consequences
- Distortions in thinking, most notably denial

Local social service agencies can help access chemical dependency treatment services. If you have talked with a family member or friend about seeking treatment and they aren’t willing to help, go to [MinnesotaHelp.info – https://www.minnesotahelp.info/](https://www.minnesotahelp.info/) for information about intervention professionals and to find other resources.

Many insurance policies will pay for chemical dependency treatment. People who qualify can get [Help paying for treatment – http://mn.gov/dhs/people-we-serve/adults/health-care/substance-abuse/programs-and-services/ccdtf.jsp](http://mn.gov/dhs/people-we-serve/adults/health-care/substance-abuse/programs-and-services/ccdtf.jsp).

There are 398 programs in Minnesota that are licensed to provide substance abuse treatment services in Minnesota. You can search for drug and alcohol treatment programs near you using

The Substance Abuse and Mental Health Services Administration's (SAMHSA) [Behavioral Health Treatment Services Locator](https://findtreatment.samhsa.gov/) – <https://findtreatment.samhsa.gov/>.

Primary prevention, public education

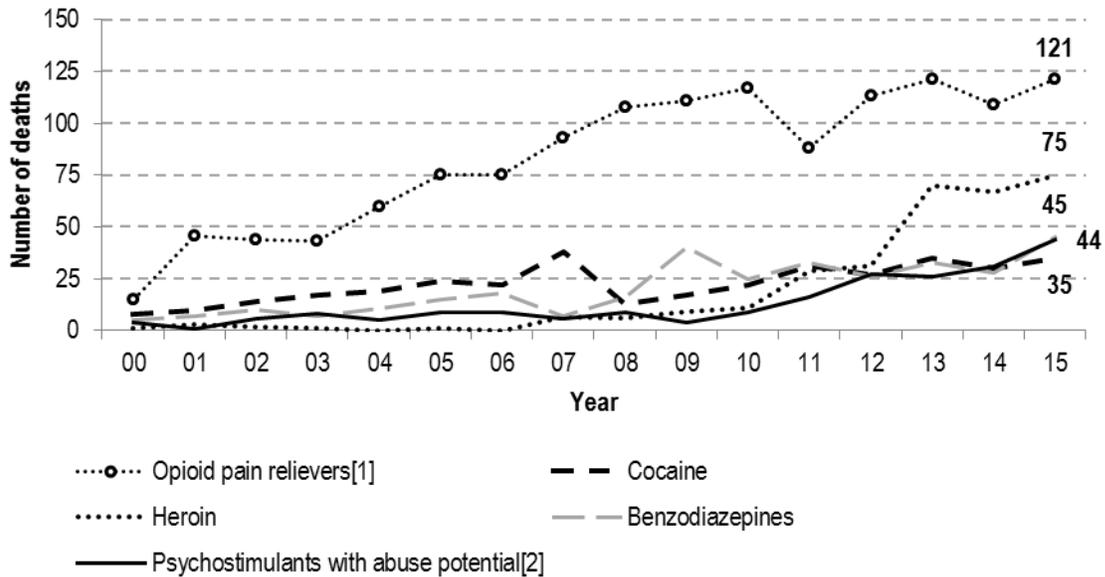
The Department of Human Services is the designated State authority for alcohol and drug abuse prevention and treatment. Primary prevention programs include activities and services provided in a variety of settings, as well as programs targeted to sub-groups at high risk for substance abuse. Prevention services are provided through a combination of individual and population-based programs and strategies, though changing the local environments where substance use occurs is a primary emphasis.

Minnesota's strength is in addressing alcohol use and abuse, and the State is developing marijuana prevention practices. Minnesota, however, does not currently have primary prevention efforts dedicated to opioids. Needs have emerged in three key areas for prescription drug abuse:

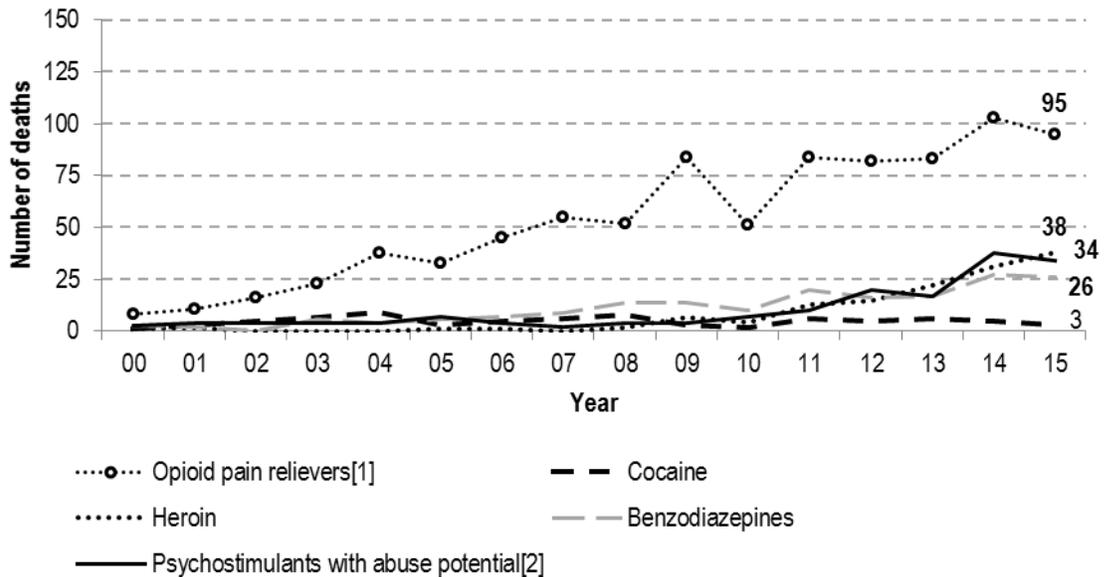
1. Knowledge/Skills and Expertise
 - Strategic planning and implementation model for this initiative.
 - Basic prescription drug and opioid education and instruction
 - Community organizing practices to increase buy-in, participation and long-term sustainability
2. Readiness of the community
 - Recognition of the magnitude and severity of the problem, and the need to move toward action
 - Consistency and depth of existing prevention activities
 - Community leaders' resolve and commitment in the face of many other concerns
3. Internal and external infrastructures
 - Development of organizational processes to effectively carry-out the work.

Appendix 1 – Drug Category Charts & Tables

**Drug overdose deaths by non-exclusive drug category,
MN residents, 7-COUNTY METRO, 2000-2015**



**Drug overdose deaths by non-exclusive drug category,
MN residents, GREATER MN, 2000-2015**



NOTE: Drug categories are not exclusive. Y-axis scale change.

SOURCE: Minnesota death certificates, Injury and Violence Prevention Unit, Minnesota Department of Health (MDH), 2000-2015

¹Opioid pain relievers: Includes methadone

²Psychostimulants with abuse potential: Include methamphetamine

DRUG OVERDOSE DEATHS AMONG MINNESOTA RESIDENTS

Table 1: Number of opioid deaths (non-exclusive), by county of residence/metro area and year, 2000-2015 [1-3]

County of residence	Year 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	Total
Aitkin	0	0	1	1	2	0	0	1	0	1	1	1	2	4	1	2	17
Anoka	3	7	3	10	12	10	14	14	8	14	23	16	21	19	14	14	202
Becker	0	0	0	0	1	0	0	0	3	0	0	1	0	0	1	2	8
Beltrami	0	0	1	0	2	2	0	2	3	0	2	3	3	0	2	1	21
Benton	0	1	0	1	0	0	1	1	2	5	2	2	1	1	1	3	21
Big Stone	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	3
Blue Earth	0	0	0	0	0	2	0	1	0	1	2	0	0	0	2	0	8
Brown	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	3
Carlton	0	0	0	0	2	1	2	2	4	2	1	3	4	1	3	4	29
Carver	0	1	0	3	1	1	1	3	2	1	3	2	2	2	3	4	29
Cass	0	0	0	0	1	4	1	0	2	2	2	2	4	4	2	3	27
Chippewa	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	0	4
Chisago	0	0	0	1	1	0	1	2	4	1	1	3	4	2	3	4	27
Clay	0	0	0	1	0	3	0	6	1	1	1	3	1	3	2	5	27
Clearwater	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	2
Cook	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	3
Cottonwood	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	3
Crow Wing	1	1	0	1	2	2	4	3	0	7	0	2	1	5	3	0	32
Dakota	1	8	4	7	8	7	5	12	20	24	17	20	19	19	11	17	199
Dodge	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	4
Douglas	0	0	0	0	0	0	1	2	0	0	0	5	0	0	0	0	8
Faribault	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	3
Fillmore	0	0	1	0	1	1	1	0	0	0	0	0	1	0	0	0	5
Freeborn	0	0	0	0	1	0	0	0	0	4	1	1	1	1	0	1	10
Goodhue	0	0	0	1	1	1	0	1	3	2	0	0	2	2	3	2	18
Grant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hennepin	8	18	20	15	23	33	35	46	47	37	45	30	43	54	53	56	563
Houston	0	0	0	1	1	0	1	2	1	1	1	0	0	1	0	2	11
Hubbard	0	0	1	1	0	0	0	2	1	0	0	1	0	0	0	0	6
Isanti	0	0	2	0	0	0	0	2	1	0	0	0	1	0	1	3	10
Itasca	0	1	1	0	0	1	2	1	2	3	1	6	0	1	2	3	24
Jackson	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Kanabec	0	0	0	0	0	0	0	0	1	2	0	0	1	0	2	1	7
Kandiyohi	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	4
Kittson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Koochiching	0	0	0	0	1	1	0	0	0	0	0	2	0	0	1	0	5
Lac Qui Parle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lake	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	3
Lake Of The Woods	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Le Sueur	0	0	0	0	1	0	1	0	0	1	0	0	0	1	0	0	4
Lincoln	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
Lyon	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1

DRUG OVERDOSE DEATHS AMONG MINNESOTA RESIDENTS

County of residence	Year 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	Total
Mahnomen	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	0	4
Marshall	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Martin	0	0	0	0	0	2	1	0	0	0	1	0	0	0	1	0	5
Mcleod	0	0	0	0	0	2	2	2	1	3	0	0	2	0	0	0	12
Meeker	0	0	0	0	2	0	0	0	2	0	3	0	2	1	2	0	12
Mille Lacs	0	0	0	1	0	2	0	1	1	4	1	2	1	2	0	2	17
Morrison	0	0	0	0	0	0	3	2	0	1	2	0	1	1	0	2	12
Mower	0	0	0	0	0	0	0	2	1	2	0	0	1	2	2	1	11
Murray	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Nicollet	0	0	0	0	0	0	1	0	0	0	1	1	0	1	1	0	5
Nobles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norman	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Olmsted	1	1	0	2	4	0	2	1	1	1	1	4	7	7	7	4	43
Otter Tail	0	0	1	1	0	0	1	0	1	1	0	0	1	1	2	3	12
Pennington	0	0	1	1	0	0	0	0	0	2	0	1	0	0	1	0	6
Pine	0	0	0	1	1	0	1	0	0	1	2	4	3	1	2	3	19
Pipestone	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Polk	0	0	1	2	0	0	2	3	1	1	3	1	3	4	3	1	25
Pope	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ramsey	2	9	16	6	8	20	14	12	21	21	23	14	22	20	16	23	247
Red Lake	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Redwood	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	2	5
Renville	0	0	0	0	0	0	0	0	0	0	1	2	0	0	1	2	6
Rice	1	1	0	0	0	0	0	2	2	2	1	0	1	1	2	0	13
Rock	0	0	0	0	0	1	1	0	1	0	0	0	0	2	0	0	5
Roseau	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	3
Scott	0	2	1	2	3	1	3	4	2	5	2	6	3	2	4	1	41
Sherburne	0	1	1	1	3	0	0	4	2	1	5	2	3	4	7	3	37
Sibley	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2	4
St. Louis	2	2	0	0	0	0	0	0	0	0	0	13	17	15	19	15	83
Stearns	1	2	2	1	3	0	4	5	2	7	1	5	3	5	3	8	52
Steele	0	0	0	0	1	0	0	0	1	0	0	0	1	0	1	0	4
Stevens	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	3
Swift	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Todd	0	0	0	0	0	0	1	0	0	3	1	1	0	1	1	1	9
Traverse	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2
Wabasha	0	0	0	0	0	1	0	1	1	1	2	1	1	0	0	0	8
Wadena	0	0	0	0	1	0	0	0	0	2	0	0	0	0	1	0	4
Waseca	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Washington	1	1	0	0	5	3	3	2	8	9	4	6	3	5	8	6	64
Watsonwan	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Wilkin	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Winona	1	0	0	1	1	0	2	1	4	4	1	4	2	3	7	2	33
Wright	0	1	1	1	4	5	6	0	0	6	3	3	3	3	2	2	40
Yellow Medicine	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	3
7-county metro	15	46	44	43	60	75	75	93	108	111	117	88	113	121	109	121	1339

DRUG OVERDOSE DEATHS AMONG MINNESOTA RESIDENTS

County of residence	Year 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	Total
Greater MN	8	11	16	23	38	33	45	55	52	84	51	84	82	83	103	95	863
Unknown county	0	0	2	8	4	3	10	6	8	16	11	1	2	0	0	0	71
Total	23	57	62	74	102	111	130	154	168	211	179	173	197	204	212	216	2273

SOURCE: Minnesota death certificates, Injury and Violence Prevention Unit, Minnesota Department of Health (MDH), 2000-2015

¹Underlying cause of death includes ICD-10 code indicating drug overdose (X40-X44, X60-X64, X85, or Y10-Y14); contributing cause of death includes ICD-10 code indicating opioid pain reliever use (T40.2, T40.3, T40.4). Opioid pain reliever drug overdose deaths are not exclusive of other drug categories.

²Year is determined by date of death

³7-county metro: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties; Greater MN: Not part of the 7-county metro county; Unknown county: County FIPS code is invalid or missing

DRUG OVERDOSE DEATHS AMONG MINNESOTA RESIDENTS

Table 2. Number of heroin deaths (non-exclusive), by county of residence/metro area and year, 2000-2015 ^[1-3]

County of residence	Year 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	Total
Aitkin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Anoka	0	2	0	1	0	1	0	3	1	5	4	11	7	15	6	7	63
Becker	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	3
Beltrami	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2
Benton	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	3
Big Stone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue Earth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carlton	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	3
Carver	0	0	0	0	0	0	0	1	0	0	1	1	0	3	0	1	7
Cass	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	4
Chippewa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chisago	0	0	0	0	0	0	0	0	0	0	1	1	1	0	2	1	6
Clay	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	3
Clearwater	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cook	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cottonwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crow Wing	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	3
Dakota	0	0	0	0	0	0	0	2	2	2	4	6	8	5	5	6	39
Dodge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Douglas	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Faribault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Fillmore	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Freeborn	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Goodhue	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Grant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hennepin	1	1	0	0	0	0	0	0	0	2	1	1	3	40	41	46	136
Houston	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Hubbard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isanti	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	1	4
Itasca	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Jackson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kanabec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kandiyohi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kittson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Koochiching	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lac Qui Parle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lake	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lake Of The Woods	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Le Sueur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lincoln	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lyon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Mahnomen	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2
Marshall	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Martin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McLeod	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Meeker	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
Mille Lacs	0	0	0	0	0	0	0	0	0	0	0	1	1	1	3	0	6

DRUG OVERDOSE DEATHS AMONG MINNESOTA RESIDENTS

County of residence	Year 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	Total
Morrison	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	2
Mower	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4
Murray	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Nicollet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nobles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norman	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Olmsted	1	0	0	0	0	0	0	0	0	2	0	2	1	3	5	4	18
Otter Tail	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Pennington	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pipestone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pope	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Ramsey	0	0	2	0	0	0	0	0	2	0	1	9	8	6	9	9	46
Red Lake	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Redwood	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
Renville	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rice	0	0	0	0	0	0	0	0	1	1	0	3	0	0	1	0	6
Rock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Roseau	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scott	0	0	0	0	0	0	0	1	1	0	0	2	3	0	1	2	10
Sherburne	0	0	0	0	0	0	1	0	0	1	0	1	2	0	3	1	9
Sibley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
St. Louis	0	0	0	0	0	0	0	0	0	0	0	0	2	1	6	12	21
Stearns	0	0	0	0	0	0	0	0	0	1	0	1	0	3	1	1	7
Steele	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Stevens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Swift	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Todd	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Traverse	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wabasha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wadena	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waseca	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Washington	0	0	0	0	0	0	0	0	0	0	0	2	2	1	5	4	14
Watsonwan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wilkin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Winona	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Wright	0	0	0	0	0	0	0	0	0	0	1	1	1	4	3	0	10
Yellow Medicine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-county metro	1	3	2	1	0	1	0	7	6	9	11	29	31	70	67	75	313
Greater MN	1	2	0	0	0	1	1	0	2	7	4	13	15	22	31	38	137
Unknown county	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	3
Total	2	5	2	1	1	2	1	8	8	16	15	42	46	92	98	114	453

SOURCE: Minnesota death certificates, Injury and Violence Prevention Unit, Minnesota Department of Health (MDH), 2000-2015

¹Underlying cause of death includes ICD-10 code indicating drug overdose (X40-X44, X60-X64, X85, or Y10-Y14); contributing cause of death includes ICD-10 code indicating heroin use (T40.1). Heroin drug overdose deaths are not exclusive of other drug categories.

²Year is determined by date of death

³7-county metro: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties; Greater MN: Not part of the 7-metro county; Unknown county: County FIPS code is invalid or missing

DRUG OVERDOSE DEATHS AMONG MINNESOTA RESIDENTS

Table 3. Number of cocaine deaths (non-exclusive), by county of residence/metro area and year, 2000-2015 [1-3]

County of residence	Year 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	Total
Aitkin	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	2
Anoka	0	1	1	1	3	3	1	1	2	1	0	4	6	7	0	4	34
Becker	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Beltrami	0	0	0	0	1	1	0	1	0	0	0	0	0	0	1	0	4
Benton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Big Stone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue Earth	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Brown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carlton	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2
Carver	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Cass	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
Chippewa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chisago	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Clay	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	3
Clearwater	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cook	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cottonwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crow Wing	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3
Dakota	0	2	1	2	0	0	1	1	0	2	1	1	4	1	0	1	17
Dodge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Douglas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Faribault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fillmore	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2
Freeborn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goodhue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hennepin	7	3	3	10	13	15	11	24	8	9	13	23	11	19	15	21	205
Houston	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Hubbard	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
Isanti	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
Itasca	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Jackson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kanabec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kandiyohi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kittson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Koochiching	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lac Qui Parle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lake	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lake Of The Woods	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Le Sueur	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
Lincoln	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lyon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mahnomen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Marshall	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Martin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McLeod	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Meeker	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Mille Lacs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DRUG OVERDOSE DEATHS AMONG MINNESOTA RESIDENTS

County of residence	Year 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	Total
Morrison	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2
Mower	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	3
Murray	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nicollet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nobles	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Norman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Olmsted	0	0	0	2	1	0	0	0	2	1	0	2	2	1	1	1	13
Otter Tail	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pennington	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Pipestone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polk	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Pope	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ramsey	1	1	8	2	2	4	7	9	3	3	6	7	5	6	11	8	83
Red Lake	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Redwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renville	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rice	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	3
Rock	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Roseau	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scott	0	1	0	2	0	0	2	1	0	1	1	1	0	0	1	0	10
Sherburne	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Sibley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. Louis	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	3
Stearns	0	0	1	1	0	0	1	1	0	0	0	0	0	2	1	0	7
Steele	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	3
Stevens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Swift	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Todd	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Traverse	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wabasha	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
Wadena	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waseca	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Washington	0	2	1	0	1	2	0	2	0	1	1	0	1	1	3	1	16
Watsonwan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wilkin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Winona	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Wright	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Yellow Medicine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-county metro	8	10	14	17	19	24	22	38	13	17	22	31	27	35	31	35	362
Greater MN	1	3	5	7	9	3	5	6	8	3	2	6	5	6	5	3	77
Unknown county	0	0	1	1	2	0	0	2	0	1	1	0	0	0	0	0	8
Total	9	13	20	25	30	27	27	46	21	21	25	37	32	41	35	38	447

SOURCE: Minnesota death certificates, Injury and Violence Prevention Unit, Minnesota Department of Health (MDH), 2000-2015

¹Underlying cause of death includes ICD-10 code indicating drug overdose (X40-X44, X60-X64, X85, or Y10-Y14); contributing cause of death includes ICD-10 code indicating cocaine use (T40.5). Cocaine drug overdose deaths are not exclusive of other drug categories.

²Year is determined by date of death

³7-county metro: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties; Greater MN: Not part of the 7-metro county; Unknown county: County FIPS code is invalid or missing

DRUG OVERDOSE DEATHS AMONG MINNESOTA RESIDENTS

Table 4. Number of benzodiazepine deaths (non-exclusive), by county of residence/metro area and year, 2000-2015 [1-3]

County of residence	Year 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	Total
Aitkin	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Anoka	1	0	0	0	0	0	1	0	2	3	5	5	5	6	5	2	35
Becker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beltrami	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	3
Benton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
Big Stone	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Blue Earth	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	3
Brown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carlton	0	1	0	0	0	1	1	0	2	0	2	0	1	0	0	2	10
Carver	0	0	0	1	0	1	0	1	0	3	2	0	0	1	2	0	11
Cass	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
Chippewa	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Chisago	0	0	0	0	0	0	0	2	1	0	2	1	2	0	2	0	10
Clay	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2
Clearwater	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cook	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cottonwood	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Crow Wing	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	3
Dakota	0	1	0	2	1	2	3	1	7	15	5	14	11	7	2	10	81
Dodge	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	2
Douglas	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Faribault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Fillmore	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
Freeborn	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	4
Goodhue	0	0	0	0	0	2	0	0	2	1	0	1	1	1	0	1	9
Grant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hennepin	4	5	8	4	10	9	12	4	4	12	9	13	8	18	16	26	162
Houston	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2
Hubbard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Isanti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Itasca	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	2
Jackson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kanabec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Kandiyohi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kittson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Koochiching	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Lac Qui Parle	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Lake	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lake Of The Woods	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Le Sueur	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	2
Lincoln	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lyon	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	2
Mahnomen	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	2
Marshall	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Martin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McLeod	0	0	0	0	0	0	1	0	0	1	0	2	1	0	0	0	5
Meeker	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	3
Mille Lacs	0	0	0	0	0	0	0	0	0	2	1	0	1	0	1	0	5

DRUG OVERDOSE DEATHS AMONG MINNESOTA RESIDENTS

County of residence	Year 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	Total
Morrison	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
Mower	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Murray	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nicollet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nobles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norman	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Olmsted	1	1	0	1	0	0	0	0	1	1	0	0	2	3	7	3	20
Otter Tail	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Pennington	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Pipestone	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Polk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pope	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ramsey	0	0	2	0	0	3	0	0	2	3	3	0	0	1	2	6	22
Red Lake	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Redwood	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	3
Renville	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	3
Rice	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	2
Rock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Roseau	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Scott	0	1	0	0	0	0	1	1	1	4	1	2	20	0	1	0	32
Sherburne	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	4
Sibley	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2
St. Louis	1	0	0	0	0	0	0	0	0	0	0	5	4	5	6	4	25
Stearns	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	2	5
Steele	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	3
Stevens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Swift	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	2
Todd	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Traverse	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wabasha	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Wadena	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Waseca	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Washington	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	3
Watsonwan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wilkin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Winona	0	0	0	1	1	0	0	1	0	1	0	3	0	0	3	1	11
Wright	0	0	0	1	1	1	1	0	0	0	1	1	0	1	0	0	7
Yellow Medicine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-county metro	5	7	10	7	11	15	18	7	16	40	25	33	26	33	28	45	326
Greater MN	3	2	0	6	4	6	7	9	14	14	10	20	16	17	27	26	181
Unknown county	0	0	0	0	1	1	0	1	1	4	3	0	1	0	0	0	12
Total	8	9	10	13	16	22	25	17	31	58	38	53	43	50	55	71	519

SOURCE: Minnesota death certificates, Injury and Violence Prevention Unit, Minnesota Department of Health (MDH), 2000-2015

¹Underlying cause of death includes ICD-10 code indicating drug overdose (X40-X44, X60-X64, X85, or Y10-Y14); contributing cause of death includes ICD-10 code indicating benzodiazepine (T42.4). Benzodiazepine drug overdose deaths are not exclusive of other drug categories.

²Year is determined by date of death

³7-county metro: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties; Greater MN: Not part of the 7-metro county; Unknown county: County FIPS code is invalid or missing

DRUG OVERDOSE DEATHS AMONG MINNESOTA RESIDENTS

Table 5. Number of ‘psychostimulant with abuse potential’ deaths (non-exclusive), by county of residence/metro area and year, 2000-2015 ^[1-4]

County of residence	Year 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	Total
Aitkin	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	2
Anoka	1	0	0	3	1	4	1	2	0	1	0	3	4	4	5	6	35
Becker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Beltrami	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	3
Benton	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	4
Big Stone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue Earth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carlton	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	5
Carver	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cass	0	0	0	0	0	1	0	0	0	0	1	0	1	1	1	3	8
Chippewa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chisago	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Clay	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	3
Clearwater	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cook	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cottonwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crow Wing	0	1	1	1	0	0	0	0	0	0	0	0	3	0	0	1	7
Dakota	1	0	1	1	0	0	1	0	0	0	1	2	0	2	5	4	18
Dodge	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	2
Douglas	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	3
Faribault	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Fillmore	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Freeborn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goodhue	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Grant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hennepin	1	1	3	3	1	2	3	3	8	1	7	8	14	13	13	20	101
Houston	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2
Hubbard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Isanti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
Itasca	0	0	0	0	0	1	2	0	0	0	0	0	1	1	3	1	9
Jackson	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Kanabec	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Kandiyohi	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Kittson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Koochiching	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lac Qui Parle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lake	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lake Of The Woods	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Le Sueur	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Lincoln	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lyon	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Mahnomen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4
Marshall	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Martin	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
McLeod	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
Meeker	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2
Mille Lacs	0	0	0	1	0	0	0	0	0	0	0	1	0	2	0	0	4

DRUG OVERDOSE DEATHS AMONG MINNESOTA RESIDENTS

County of residence	Year 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	Total
Morrison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Mower	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Murray	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nicollet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nobles	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Norman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Olmsted	0	0	0	0	0	0	1	0	0	1	0	1	3	4	6	2	18
Otter Tail	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Pennington	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3
Pipestone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polk	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	4
Pope	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Ramsey	0	0	0	1	3	1	2	1	0	2	1	5	7	4	7	12	46
Red Lake	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Redwood	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Renville	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Rice	0	0	1	0	0	0	0	0	1	0	1	0	0	0	1	1	5
Rock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Roseau	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scott	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Sherburne	0	0	0	0	1	0	0	0	2	0	0	1	1	0	4	1	10
Sibley	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
St. Louis	1	0	0	0	0	0	0	0	0	0	0	0	3	2	5	10	21
Stearns	0	0	0	1	0	1	0	0	0	0	0	0	1	1	1	2	7
Steele	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Stevens	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Swift	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Todd	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Traverse	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wabasha	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	2
Wadena	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waseca	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Washington	1	0	1	0	0	2	2	0	1	0	0	1	2	3	1	2	16
Watsonwan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wilkin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Winona	0	0	0	0	0	0	0	0	0	1	0	0	1	0	3	0	5
Wright	0	1	1	0	0	1	0	0	0	0	0	0	0	1	3	1	8
Yellow Medicine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
7-county metro	4	1	6	8	5	9	9	6	9	4	9	16	27	26	31	44	214
Greater MN	3	4	4	4	4	7	4	2	4	4	7	10	20	17	38	34	166
Unknown county	0	0	1	0	0	2	1	0	0	0	2	0	1	0	0	0	7
Total	7	5	11	12	9	18	14	8	13	8	18	26	48	43	69	78	387

SOURCE: Minnesota death certificates, Injury and Violence Prevention Unit, Minnesota Department of Health (MDH), 2000-2015

¹Psychostimulants with abuse potential: Includes methamphetamine

²Underlying cause of death includes ICD-10 code indicating drug overdose (X40-X44, X60-X64, X85, or Y10-Y14); contributing cause of death includes ICD-10 code indicating psychostimulants with abuse potential (T43.6). Psychostimulants with abuse potential drug overdose deaths are not exclusive of other drug categories.

³Year is determined by date of death

⁴7-county metro: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties; Greater MN: Not part of the 7-county metro county; Unknown county: County FIPS code is invalid or missing

DRUG OVERDOSE DEATHS AMONG MINNESOTA RESIDENTS

Table 6. Number of other and unspecified narcotic drug deaths (non-exclusive), by county of residence/metro area and year, 2000-2015 [1-3]

County of residence	Year 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	Total
Aitkin	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Anoka	2	2	2	0	0	2	0	2	6	1	3	3	3	0	0	3	29
Becker	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	4
Beltrami	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2
Benton	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	4
Big Stone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blue Earth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carlton	0	0	0	0	0	0	0	0	0	2	0	0	1	0	2	0	5
Carver	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Cass	0	0	0	0	1	0	1	0	0	0	0	1	0	1	0	0	4
Chippewa	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Chisago	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	3
Clay	0	0	0	0	0	0	0	0	0	3	1	0	0	0	1	1	6
Clearwater	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cook	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cottonwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crow Wing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dakota	1	1	2	0	0	0	1	1	2	3	2	0	0	1	1	2	17
Dodge	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Douglas	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	3
Faribault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fillmore	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Freeborn	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Goodhue	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2
Grant	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Hennepin	23	23	24	25	21	22	22	16	34	36	26	45	53	11	3	8	392
Houston	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Hubbard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isanti	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	3
Itasca	0	0	0	0	1	0	1	0	2	1	0	0	0	1	1	0	7
Jackson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kanabec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kandiyohi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Kittson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Koochiching	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lac Qui Parle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lake	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lake Of The Woods	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Le Sueur	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Lincoln	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lyon	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Mahnomen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Marshall	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Martin	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
McLeod	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	3
Meeker	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Mille Lacs	0	0	0	0	0	0	1	0	1	1	0	0	1	0	0	0	4

DRUG OVERDOSE DEATHS AMONG MINNESOTA RESIDENTS

County of residence	Year 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	Total
Morrison	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Mower	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Murray	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Nicollet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nobles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Olmsted	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2
Otter Tail	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2
Pennington	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	3
Pine	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Pipestone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polk	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	3
Pope	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ramsey	2	0	3	4	7	8	1	5	1	4	2	6	3	1	3	4	54
Red Lake	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Redwood	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
Renville	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rice	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2
Rock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Roseau	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scott	0	1	0	2	0	1	1	2	0	2	1	0	0	0	2	0	12
Sherburne	1	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	4
Sibley	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
St. Louis	0	1	0	0	0	0	0	0	0	0	0	1	0	1	1	0	4
Stearns	0	0	0	0	0	0	0	0	2	1	0	1	1	0	0	2	7
Steele	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	4
Stevens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Swift	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Todd	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Traverse	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wabasha	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Wadena	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waseca	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Washington	0	1	2	0	2	0	1	0	0	2	0	1	1	1	1	0	12
Watsonwan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wilkin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Winona	0	1	0	0	1	0	0	0	1	0	0	0	0	1	0	0	4
Wright	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Yellow Medicine	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
7-county metro	28	28	33	31	30	33	26	27	43	48	34	55	60	14	10	17	517
Greater MN	3	3	1	2	7	4	5	3	12	13	7	12	9	9	12	6	108
Unknown county	0	0	0	0	0	1	0	1	2	2	2	0	0	0	0	0	8
Total	31	31	34	33	37	38	31	31	57	63	43	67	69	23	22	23	633

SOURCE: Minnesota death certificates, Injury and Violence Prevention Unit, Minnesota Department of Health (MDH), 2000-2015

¹Underlying cause of death includes ICD-10 code indicating drug overdose (X40-X44, X60-X64, X85, or Y10-Y14); contributing cause of death includes ICD-10 code indicating other and unspecified narcotics (T40.6). Other and unspecified narcotics drug overdose deaths are not exclusive of other drug categories.

²Year is determined by date of death

³7-county metro: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties; Greater MN: Not part of the 7-metro county; Unknown county: County FIPS code is invalid or missing

Appendix 2 – 7-county metro vs. Greater MN

Number of drug overdose deaths, 7-county metro vs. Greater MN, MN residents, 2000-2015 ^[1-3]

County of residence	Year 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	Total
Aitkin	1	0	3	1	3	2	1	2	0	1	2	2	4	5	2	3	32
Anoka	10	14	10	15	15	20	17	19	20	31	35	41	44	45	27	37	400
Becker	1	0	1	0	3	0	0	2	4	3	1	3	1	3	1	5	28
Beltrami	0	1	2	0	3	5	2	5	5	2	4	6	7	4	3	3	52
Benton	0	1	1	3	0	2	2	3	4	5	4	5	1	2	3	6	42
Big Stone	0	0	0	1	0	0	1	0	0	0	1	0	1	0	0	1	5
Blue Earth	0	0	0	1	0	4	0	3	0	2	3	5	5	1	3	3	30
Brown	0	0	0	2	1	0	0	1	1	0	2	2	0	0	2	1	12
Carlton	1	1	0	2	2	4	2	3	5	5	2	6	6	3	7	7	56
Carver	1	1	1	3	1	1	1	4	3	4	4	5	3	5	5	7	49
Cass	2	0	2	0	3	5	5	1	4	3	4	8	6	5	6	7	61
Chippewa	0	0	0	1	0	0	1	0	0	1	1	0	1	1	1	0	7
Chisago	1	0	1	3	1	0	2	2	7	1	2	8	8	5	8	6	55
Clay	0	4	2	4	1	3	3	10	6	6	4	10	3	9	9	13	87
Clearwater	2	1	0	0	0	1	0	0	1	0	0	0	1	1	1	1	9
Cook	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	1	4
Cottonwood	0	0	1	0	0	1	0	0	0	1	0	3	0	0	0	0	6
Crow Wing	1	3	1	4	4	2	6	4	2	9	3	5	6	9	7	8	74
Dakota	3	17	10	16	10	13	11	19	30	37	32	39	32	34	30	42	375
Dodge	0	1	0	0	0	0	2	0	0	2	0	0	2	1	0	2	10
Douglas	0	0	0	1	1	1	1	2	0	0	2	7	2	0	2	1	20
Faribault	0	0	0	1	1	1	0	0	0	0	0	1	0	2	0	3	9
Fillmore	0	0	1	0	1	2	1	0	1	0	0	1	1	0	1	0	9
Freeborn	1	1	0	3	1	0	0	1	2	4	1	3	1	3	0	1	22
Goodhue	0	1	1	2	2	3	1	2	3	3	2	2	2	4	3	3	34
Grant	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	2
Hennepin	52	61	66	63	72	80	89	97	103	96	103	128	128	149	131	153	1571
Houston	0	0	0	1	1	0	1	3	1	1	2	2	1	1	0	2	16
Hubbard	0	1	2	1	1	0	1	2	3	1	2	3	1	0	2	1	21
Isanti	0	0	4	2	1	0	1	2	2	4	2	1	1	0	3	4	27
Itasca	0	1	3	1	2	2	3	5	5	5	4	7	4	5	7	5	59
Jackson	1	0	0	0	1	0	0	0	0	1	1	0	1	0	0	0	5
Kanabec	2	0	0	0	0	0	0	0	1	2	1	1	2	0	2	1	12
Kandiyohi	0	0	0	2	1	1	2	1	1	0	1	4	1	0	2	7	23
Kittson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Koochiching	0	0	2	2	1	2	0	0	0	0	0	2	0	0	2	0	11
Lac Qui Parle	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2
Lake	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	4
Lake Of The Woods	0	0	0	1	0	0	0	0	0	0	2	0	1	0	1	0	5

DRUG OVERDOSE DEATHS AMONG MINNESOTA RESIDENTS

County of residence	Year 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	Total
Le Sueur	0	1	0	1	2	1	3	0	1	1	0	1	0	2	2	1	16
Lincoln	0	0	0	0	1	0	0	1	0	1	1	0	1	0	1	0	6
Lyon	1	1	0	1	0	1	0	2	0	0	0	1	1	1	2	3	14
Mahnomen	0	0	0	0	1	0	0	0	1	2	0	1	0	1	5	0	11
Marshall	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	4
Martin	1	0	0	1	1	2	1	0	0	0	1	0	0	2	1	1	11
McLeod	1	2	2	0	0	2	2	2	1	4	0	2	3	1	1	0	23
Meeker	0	0	0	1	3	0	0	0	3	0	4	1	2	4	2	0	20
Mille Lacs	0	0	0	2	1	2	1	2	4	7	1	3	3	6	4	3	39
Morrison	0	0	1	0	4	0	4	3	1	1	4	1	4	1	2	6	32
Mower	0	2	3	1	0	1	1	4	5	4	1	1	4	6	3	7	43
Murray	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	2	5
Nicollet	0	0	0	0	0	0	3	1	0	3	1	4	2	2	3	2	21
Nobles	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	3
Norman	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2
Olmsted	3	3	0	6	5	4	11	5	5	10	9	12	15	17	17	10	132
Otter Tail	2	0	2	2	0	0	2	2	2	2	0	4	7	3	3	5	36
Pennington	1	0	1	2	1	1	2	0	1	2	1	1	0	2	2	0	17
Pine	0	1	0	1	1	0	2	0	0	1	3	5	3	4	4	3	28
Pipestone	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Polk	0	1	1	4	1	2	4	3	2	3	4	3	4	6	5	3	46
Pope	0	0	0	1	0	0	1	0	1	0	0	1	0	1	1	1	7
Ramsey	14	22	38	29	39	50	45	51	61	50	47	68	68	64	59	82	787
Red Lake	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
Redwood	0	0	0	0	0	1	1	1	3	1	0	1	0	4	0	3	15
Renville	0	0	0	1	0	1	1	0	2	0	2	3	0	0	1	3	14
Rice	1	2	2	1	0	1	1	3	9	3	3	4	4	2	5	2	43
Rock	0	0	0	0	0	1	1	0	1	0	0	0	0	3	1	0	7
Roseau	0	0	0	0	2	2	0	1	1	1	0	0	0	0	0	1	8
Scott	0	3	2	6	5	4	6	5	4	8	3	8	9	3	9	3	78
Sherburne	1	4	3	4	4	5	2	4	12	3	9	6	12	8	13	7	97
Sibley	0	2	0	0	0	0	0	2	0	0	2	1	3	0	0	3	13
St. Louis	14	12	0	0	0	0	0	0	0	0	0	21	22	24	33	31	157
Stearns	3	3	6	7	5	4	8	9	7	16	5	14	9	17	13	18	144
Steele	0	1	1	1	2	0	0	1	2	0	0	4	1	5	2	2	22
Stevens	0	0	0	1	0	0	0	2	0	2	0	0	0	0	0	0	5
Swift	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	3
Todd	1	0	0	0	0	1	3	0	0	3	1	1	0	1	1	1	13
Traverse	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	3
Wabasha	0	0	0	0	0	3	2	3	2	2	4	1	1	1	0	0	19
Wadena	1	0	0	1	1	0	0	1	0	2	2	0	0	0	2	0	10
Waseca	1	0	0	2	0	1	1	1	1	0	1	0	1	1	0	1	11
Washington	2	5	9	6	11	12	13	11	15	16	14	23	15	19	24	18	213
Watsonwan	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	1	5
Wilkin	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	3
Winona	2	1	0	2	3	0	4	3	4	6	3	6	4	7	10	4	59

DRUG OVERDOSE DEATHS AMONG MINNESOTA RESIDENTS

County of residence	Year 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	Total
Wright	0	2	3	2	6	7	8	4	2	9	7	8	5	9	8	4	84
Yellow Medicine	0	0	0	0	1	0	0	1	0	0	0	1	1	0	2	1	7
7-county metro	82	123	136	138	153	180	182	206	236	242	238	291	299	319	285	342	3452
Greater MN	47	56	55	84	81	85	109	117	134	154	123	202	184	208	231	229	2099
Unknown county	0	0	7	22	13	15	17	17	12	27	23	1	3	0	0	1	158
Total	129	179	198	244	247	280	308	340	382	423	384	494	486	527	516	572	5709

SOURCE: Minnesota death certificates, Injury and Violence Prevention Unit, Minnesota Department of Health (MDH), 2000-2015

¹Underlying cause of death includes ICD-10 code indicating drug overdose (X40-X44, X60-X64, X85, or Y10-Y14).

²Year is determined by date of death

³7-county metro: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties; Greater MN: Not part of the 7-metro county; Unknown county: County FIPS code is invalid or missing

Appendix 3 – Definitions & Methodology

In 2013, 2014, and 2015 there were 527, 516, and 572 drug overdose deaths in Minnesota, respectively. (Data source: Minnesota death certificates, with cause of death information provided by a medical examiner or coroner. Note: Data for 2015 is preliminary.) A drug overdose death is defined as having an underlying cause of death within the following range of ICD-codes:

- **Accidental poisoning by drugs:** *X40-X44*
- **Intentional self-poisoning by drugs:** *X60-X64*
- **Assault by drug poisoning:** *X85*
- **Drug poisoning of undetermined intent:** *Y10-Y14*

This data report provides the number of drug overdose deaths within 7 non-exclusive categories of drugs that contributed to the cause of death, by county/metro area and year (i.e., an opioid-contributed death may also be counted as a cocaine-contributed death, if both drugs were listed on the death certificate as contributory causes). The 7 non-exclusive categories of drug overdose deaths are defined as having a contributory cause of death within the following ranges of ICD-10 codes:

- **Opioid pain relievers** (combines other opioids, methadone, and other synthetic narcotics): *T40.2, T40.3, T40.4*
- **Heroin:** *T40.1*
- **Cocaine:** *T40.5*
- **Benzodiazepines:** *T42.4*
- **Psychostimulants with abuse potential** (includes methamphetamine): *T43.6*
- **Other and unspecified narcotics:** *T40.6*
- **Other and unspecified drug(s):** *T50.9 and deaths without a T code in the T36-T50 range*

The methodology for defining drug overdose deaths and non-exclusive drug categories is based on the following sources:

Gabella BA, Proescholdbell SK, Johnson RL, Thomas KE. State Special Emphasis Report: Instructions Drug Overdose Death Data. Atlanta, GA: Centers for Disease Control and Prevention, National Center for Injury Prevention and Control; 2014.

Injury Surveillance Workgroup 7. Consensus recommendations for national and state poisoning surveillance. Atlanta, GA: The Safe States Alliance; 2012. Available online at: http://c.ymcdn.com/sites/www.safestates.org/resource/resmgr/imported/ISW7%20Full%20Report_3.pdf.

Note: Data for 2015 is preliminary; data for 2011 is still provisional