

2016 FIRE IN MINNESOTA



STATE FIRE MARSHAL

A low-angle, night-time photograph of a firefighter in full gear standing on a tall extension ladder. The firefighter is positioned against the side of a house with light-colored horizontal siding. A window is visible to the right of the firefighter. The firefighter's uniform is dark with reflective silver stripes. A bright light source, possibly a fire or a flashlight, is visible near the firefighter, creating a strong glow and casting shadows. The top of the image is dominated by a large, solid red curved shape that sweeps across the frame. The overall scene conveys a sense of emergency response and public safety.

The mission of the State Fire Marshal Division is to protect lives and property by fostering a fire-safe environment through investigation, enforcement, regulation, data collection and public education.

FIRE IN MINNESOTA



The Minnesota Department of Public Safety State Fire Marshal Division

Statistical data pertaining to all fire-related incidents
in the state of Minnesota for the year 2016.

This report is also available as a PDF at sfm.dps.mn.gov

CONTENTS

WELCOME

2016 Highlights	1
Introduction from State Fire Marshal Bruce West	2

2016 STATISTICS

Total Impact

Minnesota fire clock	4
Overall state totals	5
Structure fires by property type	7
Sprinkler saves	9–12

Causes

Structure fire causes	16
Where do fires start?	17–18
Incendiary fires	20

Casualties

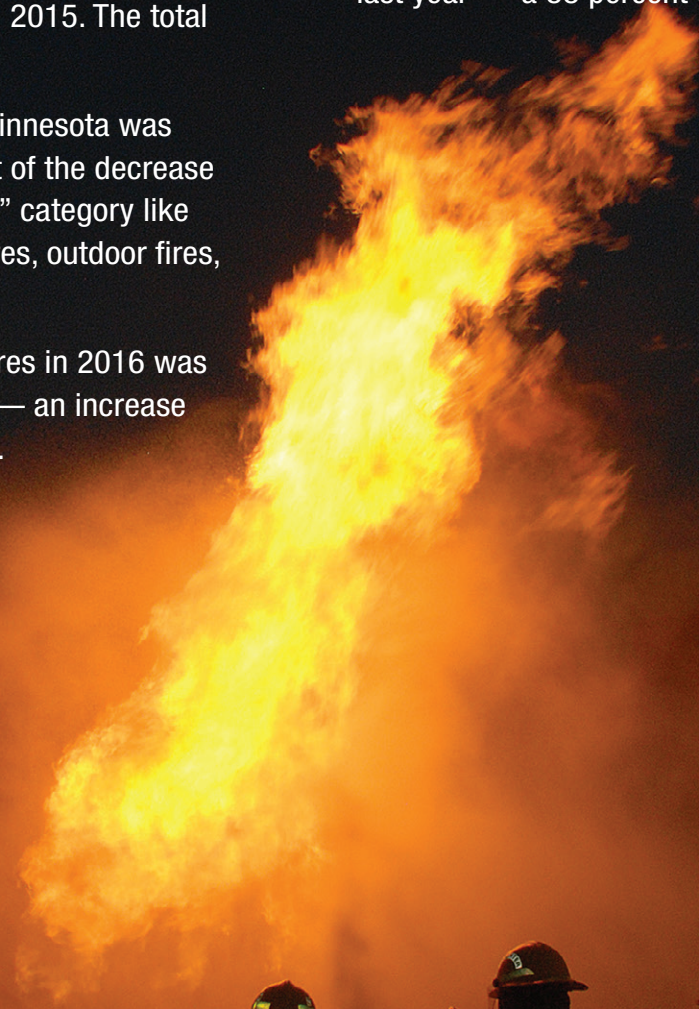
Feature article: Structure fires, new risks and fire deaths	24–25
Smoke alarm performance	26
Civilian deaths	28–29
Fire death history	31
Firefighter deaths and injuries	33–34
Fireworks injuries and property loss	35–36

Participation

Runs, dollar loss and deaths by county	38–40
Fire department responses and dollar loss reported via MFIRS	41–61

Fire in Minnesota 2016 highlights

- 774 of Minnesota's 779 fire departments supplied fire incident data to the State Fire Marshal Division for the 2016 report.
 - This is the highest number ever of reporting fire departments.
- Fire departments responded to more incidents in 2016 than in 2015. The total increase was 6 percent.
- The number of fires in Minnesota was down by 6 percent (most of the decrease was in fires in the "other" category like grass fires, vegetation fires, outdoor fires, trash fires).
- Total dollar loss due to fires in 2016 was more than \$259 million — an increase of 16 percent from 2015.
- The number of people killed in fires in the 0-19 age category and the 60-plus age category decreased from 2015 to 2016.
 - Four people ages 0-19 died in fires in 2016 — a 56 percent decrease. Sixteen people ages 60 and over died last year — a 38 percent decrease.



From the State Fire Marshal



Arson destroys more than buildings, it can devastate a community. An arson fire can change someone's life and destroy their sense of security.

Firefighters know this. Anyone who has had their home or property intentionally set on fire knows this. Yet, arson is the type of fire that we don't hear about as much in the news.

There are logical reasons for this, of course. The leading cause of fatal fires in Minnesota is careless smoking (not arson) and unattended cooking (again, not arson) is to blame for a majority of our residential fires across the state. But consider this: There were 828 intentionally set fires in 2016 that caused \$5.7 million in damage. Those numbers are why arson is an important issue that needs to be discussed and addressed.

Our investigators do an excellent job investigating hundreds of arson fires each year. But they can't do it alone — they need information from the public. One tip could make all the difference. One tip could be the one puzzle piece that causes 25 others to come together. Those in the fire service need to continue working on building community relationships so residents feel comfortable coming forward with information. Citizens: Please don't hesitate to reach out to your local fire department or call the Minnesota Arson Hotline at 800-723-2020 if you have any information about a suspicious fire.

Fire Deaths and Residential Fires

The more things change, the more they stay the same. That old saying holds true when it comes to fires as well. Cooking remains the leading cause of residential fires in 2016. I know I sound like a broken record here but the fire service needs to keep hammering home that people need to not only stay in the kitchen while cooking but pay attention. Just like distracted driving, distracted cooking can be deadly. I urge all Minnesotans to keep an eye on what you're cooking. A tragic fire can happen in seconds.

We officially had 43 fire deaths last year in Minnesota. While that's a decrease from the 57 deaths in 2015, that number is still way too high. We all must work together to educate each other and stay safe so no family suffers the loss of a loved one in a fire.

Thank you,

A handwritten signature in black ink, which appears to read "Bruce West". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Bruce West

State Fire Marshal

651-201-7201 or bruce.west@state.mn.us



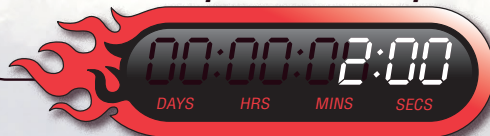
TOTAL IMPACT

MINNESOTA FIRE CLOCK

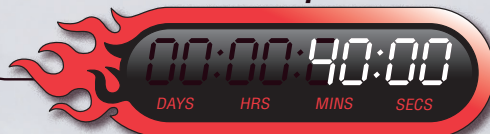
Frequency of Responses as Reported 2016

These figures represent the collective incidents reported by 774 of Minnesota's 779 fire departments.

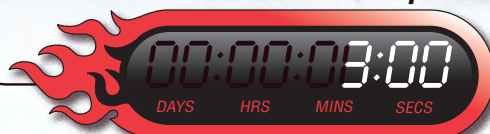
One Fire Department Response



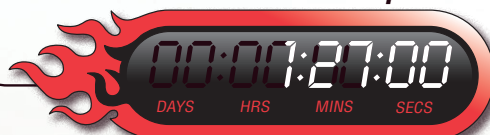
One Fire Reported



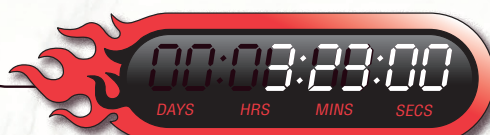
One EMS/Rescue Run Reported



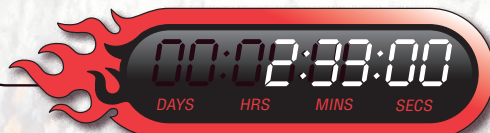
One Structure Fire Reported



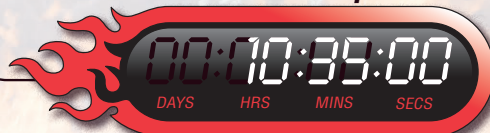
One Rural Structure Fire



One Metro Structure Fire



One Arson Fire Reported



Fire Loss in Minnesota

\$ 709,762 / Day

\$ 29,573 / Hour

\$ 493 / Minute

In 2016, 774 of the state's 779 fire departments (99 percent of all Minnesota's fire departments) reported through the Minnesota Fire Incident Reporting System (MFIRS), which collects information on fires and related activities. More information about fire department participation begins on page 38.

The total number of fire incidents reported by participating Minnesota fire departments in 2016 was 13,335 — a 6 percent decrease from 2015. The number of responses by the fire service increased by 6 percent in 2016 to 291,456.

2016 REPORTED FIRE DEPARTMENT RESPONSES					
Incidents Reported	Seven County Metro Area	% State Total	Balance of State	% State Total	State Total
Structure Fires	3,439	57	2,581	43	6,020
Vehicle Fires	1,271	48	1,378	52	2,649
Other Fires	1,871	40	2,795	60	4,666
TOTAL FIRES	6,581	49	6,754	51	13,335
Rescue/EMS Calls	124,329	68	59,216	32	183,545
False Calls	18,670	69	8,198	31	26,868
Mutual Aid Given	2,452	43	3,217	57	5,669
Other Incidents	38,960	63	23,079	37	62,039
TOTAL CALLS	190,992	66	100,464	34	291,456
ESTIMATED DOLLAR LOSS DUE TO FIRE	\$113,663,592	44%	\$145,399,600	56%	\$259,063,192

Total dollar loss increased by almost \$36 million (16 percent) from 2015. All calls except structure fires, other fires and mutual aid given increased in 2016.

OVERALL INCIDENT COMPARISONS						
Incidents Reported	2012	2013	2014	2015	2016	% Change 2015 - 2016
Fires						
Structure	6,429	6,330	6,242	6,099	6,020	(1%)
Vehicle	2,609	2,485	2,683	2,529	2,649	5%
Other Fires	7,543	4,456	3,781	5,500	4,666	(15%)
TOTAL FIRES	16,581	13,271	12,706	14,128	13,335	(6%)
Overpressure Ruptures	435	482	484	479	587	23%
Rescue/EMS Calls	147,044	154,771	162,059	174,433	183,545	5%
Hazardous Condition Calls	10,918	11,712	11,118	11,188	11,815	6%
Service Calls	14,422	14,749	15,674	16,864	18,367	9%
Good Intent Calls	22,552	23,360	25,157	25,507	30,090	18%
False Calls						
Malicious	1,366	1,296	1,344	1,300	1,429	10%
Other False	23,261	24,987	25,425	25,522	25,439	<1%
TOTAL FALSE CALLS	24,627	26,293	26,769	26,822	26,868	<1%
Mutual Aid Given	6,028	6,115	5,842	5,706	5,669	(1%)
All Other	2,115	856	861	839	1,180	41%
TOTAL CALLS	244,722	251,609	260,670	275,966	291,456	6%
TOTAL DOLLAR LOSS (Millions)	\$292.2	\$229.1	\$225.7	\$223.6	\$259.1	16%

Structure fires continue to occur most frequently in residential property, including houses, apartments, boarding houses, dorms, hotels/motels, etc. In each of the last five years, an average of 4,753 fires have occurred in residential structures. These figures indicate that each year, one residential structure fire occurs for every 1,154 residents.

STRUCTURE FIRES BY PROPERTY TYPE						
Structure Type	2012	2013	2014	2015	2016	% Change 2015-2016
Residential	4,857	4,793	4,820	4,675	4,621	(1%)
Educational/Institutional	147	165	155	183	175	(4%)
Public Assembly/Commercial	349	312	336	316	315	(<1%)
Industrial/Manufacturing	231	261	212	199	202	2%
Storage	556	563	512	474	483	2%
Special/Other	228	193	169	207	180	(13%)
Unclassified	61	43	38	45	44	(2%)
TOTAL	6,429	6,330	6,242	6,099	6,020	(1%)

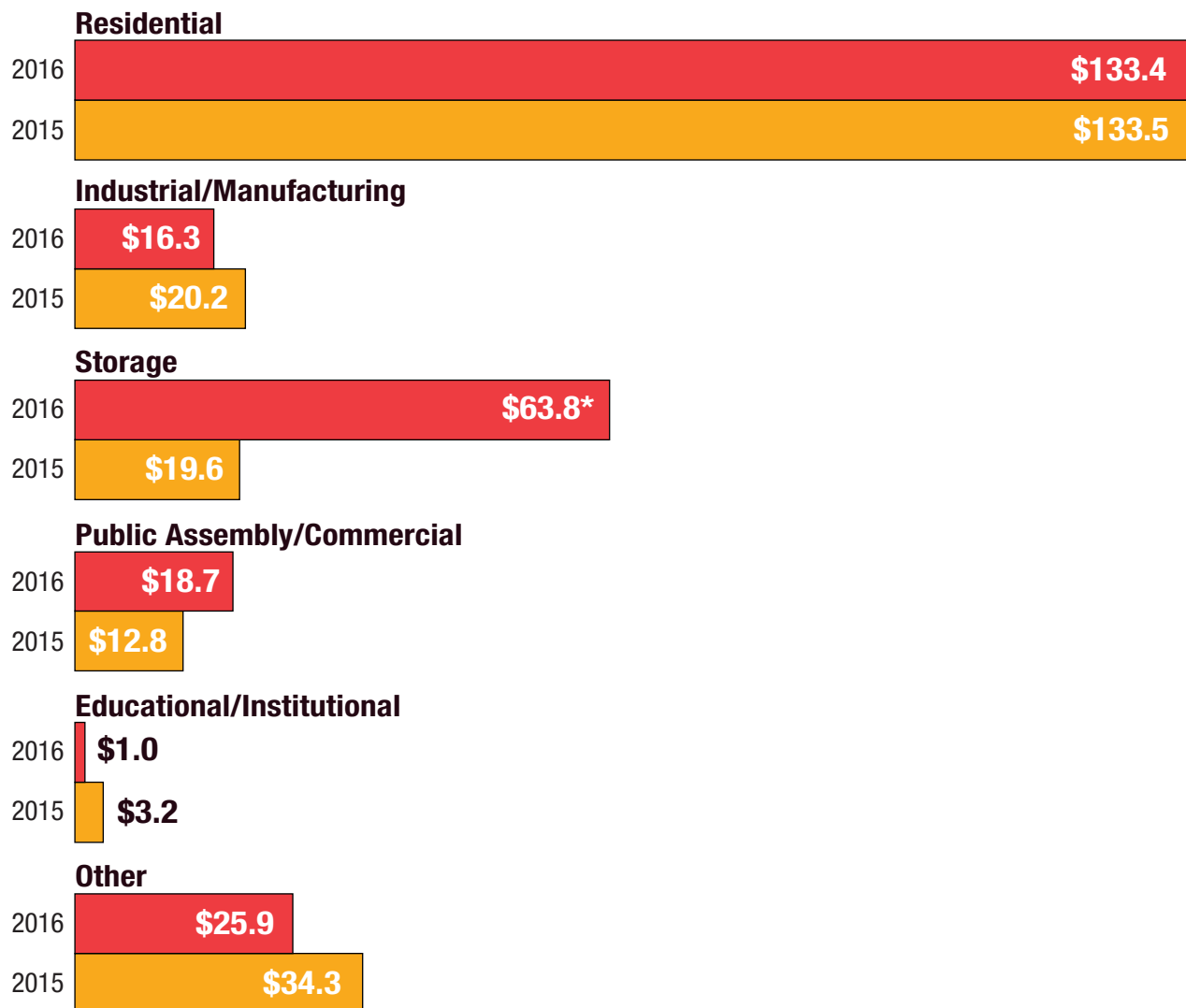
2016 RESIDENTIAL STRUCTURE FIRES				
Type of Residence	Number of Fires	Dollar Loss	Civilian Injuries	Civilian Deaths
One-two family dwelling	2,669	\$103,767,981	64	23
Multi-family dwelling	1,752	\$23,534,896	32	6
Hotel/motel	45	\$478,111	0	0
Residential board and care	32	\$600	0	0
Dormitory/sorority/fraternity	29	\$1,200	0	0
Boarding/rooming house	23	\$191,700	1	0
Barracks/dormitory	6	\$0	0	0
Residential (other)	65	\$1,844,028	1	0
TOTAL	4,621	\$129,818,516	98	29

The 2016 dollar loss in residential property decreased slightly from 2015 while total dollar loss for all fires increased by 6 percent.

Residential fires accounted for 77 percent of all structure fires and 52 percent of total dollar loss.

The average dollar loss per structure fire in 2016 was over \$38,000 per incident. The average dollar loss per residential structure fire was over \$28,000 per incident.

DOLLAR LOSS BY PROPERTY TYPE



* Includes one \$25 million warehouse fire.

Sprinkler Saves

In 2016 there were 73 sprinkler saves in Minnesota. This means that once every five days a fire is extinguished by automatic fire sprinkler systems. These sprinkler activations saved 73 buildings from devastation by fire, minimized property loss, greatly reduced business interruption and potentially saved lives.

SPRINKLER SAVES				
Date	Time	City	Property Use	Area of Origin
1/8/2016	21:33	Hastings	Parking garage, general vehicle	Engine area, running gear, wheel area
1/18/2016	12:02	Little Canada	Multifamily dwelling	Cooking area, kitchen
1/25/2016	11:06	Bloomington	Hotel/motel, commercial	Cooking area, kitchen
2/1/2016	7:31	Richfield	Hotel/motel, commercial	Bedroom
2/12/2016	23:12	Roseville	Hotel/motel, commercial	Cooking area, kitchen
2/14/2016	20:48	Bloomington	Hotel/motel, commercial	Common room, den, family room, living room, lounge
2/17/2016	21:06	Minneapolis	Multifamily dwelling	Bedroom
2/21/2016	20:11	New Brighton	Multifamily dwelling	Common room, den, family room, living room, lounge
2/21/2016	22:06	St Anthony	Manufacturing, processing	Processing/manufacturing area, workroom
2/24/2016	21:10	Saint Cloud	Multifamily dwelling	Exterior balcony, unenclosed porch
2/27/2016	1:07	Minneapolis	Multifamily dwelling	Bathroom, checkroom, lavatory, locker room
2/28/2016	3:26	Bloomington	Restaurant or cafeteria	Cooking area, kitchen
3/24/2016	22:20	Apple Valley	Hotel/motel, commercial	Cooking area, kitchen
3/31/2016	14:15	Duluth	Multifamily dwelling	Cooking area, kitchen
4/10/2016	15:47	Maplewood	Restaurant or cafeteria	Dining room, cafeteria, bar area, beverage service
4/12/2016	19:25	Saint Paul	Multifamily dwelling	Assembly or sales area, other
4/24/2016	22:03	Burnsville	Multifamily dwelling	Chute/container — trash, rubbish, waste
5/7/2016	6:57	Minneapolis	Multifamily dwelling	Bedroom
5/12/2016	23:10	Minneapolis	Multifamily dwelling	Cooking area, kitchen

SPRINKLER SAVES

Date	Time	City	Property Use	Area of Origin
5/12/2016	1:28	Coon Rapids	Multifamily dwelling	Cooking area, kitchen
5/15/2016	11:25	New Brighton	Multifamily dwelling	Laundry area, wash house (laundry)
5/16/2016	23:31	Little Canada	Multifamily dwelling	Bedroom
5/17/2016	14:15	Minneapolis	Multifamily dwelling	Closet
5/18/2016	20:02	Inver Grove Heights	Multifamily dwelling	Cooking area, kitchen
5/23/2016	9:12	Maplewood	Multifamily dwelling	Cooking area, kitchen
5/23/2016	10:56	Maplewood	Specialty shop	Awning
5/26/2016	3:17	South St. Paul	Multifamily dwelling	Egress/exit, other
5/29/2016	9:20	Duluth	Multifamily dwelling	Common room, den, family room, living room, lounge
6/1/2016	6:59	Rochester	Multifamily dwelling	Common room, den, family room, living room, lounge
6/2/2016	23:15	Plymouth	Multifamily dwelling	Vehicle storage area; garage, carport
6/9/2016	0:33	Isanti	Manufacturing, processing	Technical processing areas, other
6/10/2016	0:52	Burnsville	Multifamily dwelling	Bedroom
6/11/2016	20:28	Minneapolis	Multifamily dwelling	Cooking area, kitchen
6/21/2016	4:09	Chaska	Manufacturing, processing	Machinery room or area; elevator machinery room
6/22/2016	14:39	Bloomington	Parking garage, general vehicle	Storage: supplies or tools; dead storage
6/29/2016	16:04	Hopkins	Multifamily dwelling	Cooking area, kitchen
7/1/2016	20:41	Burnsville	Manufacturing, processing	Equipment or service area, other
7/2/2016	1:31	Burnsville	Specialty shop	Shipping/receiving area; loading area, dock or bay
7/17/2016	13:35	Bloomington	Business office	Switchgear area, transformer vault
7/26/2016	9:19	Bloomington	Hotel/motel, commercial	Bathroom, checkroom, lavatory, locker room

SPRINKLER SAVES

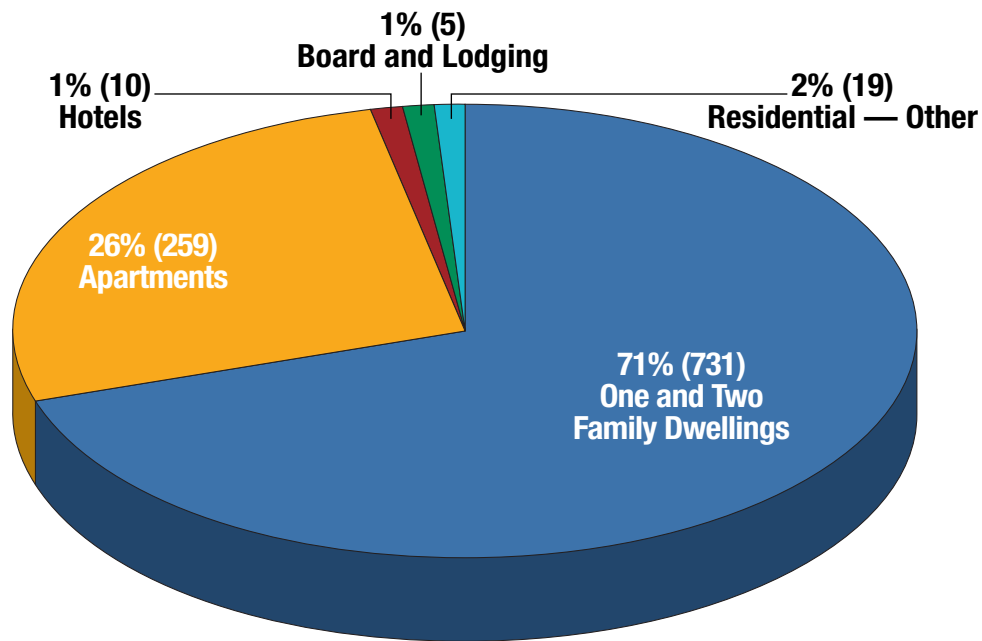
Date	Time	City	Property Use	Area of Origin
7/27/2016	18:44	Brooklyn Park	Professional supplies, services	Personal service area, barber/beauty salon area
7/30/2016	4:46	South St Paul	Eating, drinking places, other	Cooking area, kitchen
8/3/2016	1:46	Lakeville	High school/junior high school/middle school	Roof surface: exterior
8/27/2016	1:06	Coon Rapids	Multifamily dwelling	Cooking area, kitchen
8/31/2016	20:26	Bloomington	Restaurant or cafeteria	Cooking area, kitchen
8/31/2016	3:37	Worthington	Multifamily dwelling	Common room, den, family room, living room, lounge
9/6/2016	10:36	Coon Rapids	Hotel/motel, commercial	Bathroom, checkroom, lavatory, locker room
9/8/2016	17:34	Hopkins	Warehouse	Processing/manufacturing area, workroom
9/11/2016	21:13	Edina	Multifamily dwelling	Cooking area, kitchen
9/12/2016	17:47	Saint Cloud	Restaurant or cafeteria	Cooking area, kitchen
9/19/2016	2:24	Minneapolis	Multifamily dwelling	Common room, den, family room, living room, lounge
9/19/2016	10:30	Minneapolis	Manufacturing, processing	Processing/manufacturing area, workroom
9/26/2016	21:13	Burnsville	Multifamily dwelling	Cooking area, kitchen
10/7/2016	9:04	Minneapolis	Specialty shop	Sales area, showroom (excludes display window)
10/15/2016	11:14	White Bear Lake	Restaurant or cafeteria	Cooking area, kitchen
10/15/2016	20:18	Minneapolis	Manufacturing, processing	Machinery room or area; elevator machinery room
10/21/2016	22:47	Brooklyn Park	1 or 2 family dwelling	Cooking area, kitchen
10/26/2016	12:14	Brooklyn Park	1 or 2 family dwelling	Cooking area, kitchen
10/27/2016	13:48	Pipestone	Hotel/motel, commercial	Laundry area, wash house (laundry)
11/3/2016	6:26	Eden Prairie	1 or 2 family dwelling	Cooking area, kitchen
11/3/2016	10:31	Saint Paul	Manufacturing, processing	Processing/manufacturing area, workroom
11/6/2016	1:50	St. Louis Park	Multifamily dwelling	Cooking area, kitchen

SPRINKLER SAVES

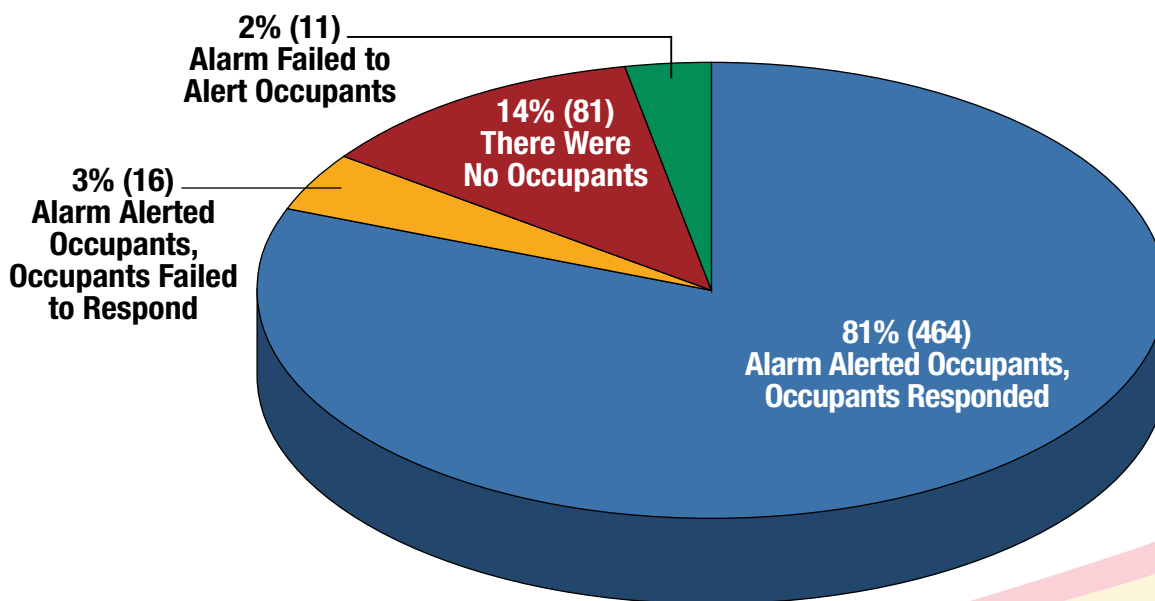
Date	Time	City	Property Use	Area of Origin
11/9/2016	22:51	Minneapolis	Multifamily dwelling	Vehicle storage area; garage, carport
11/20/2016	22:55	Saint Paul	Multifamily dwelling	Roof surface: exterior
11/27/2016	20:26	Saint Cloud	Multifamily dwelling	Cooking area, kitchen
11/28/2016	18:05	Mankato	Manufacturing, processing	Duct: hvac, cable, exhaust, heating, or AC
12/1/2016	12:47	Saint Paul	Multifamily dwelling	Cooking area, kitchen
12/17/2016	21:27	Edina	Multifamily dwelling	Bedroom
12/18/2016	13:58	Richfield	Multifamily dwelling	Cooking area, kitchen
12/19/2016	23:35	Brooklyn Park	Professional supplies, services	Highway, parking lot, street: on or near
12/22/2016	20:38	Luverne	Manufacturing, processing	Conduit, pipe, utility, or ventilation shaft
12/29/2016	17:29	Brooklyn Center	24-hour care Nursing homes, 4 or more persons	Closet
12/30/2016	6:13	Red Wing	Multifamily dwelling	Bedroom

Smoke alarms are highly effective at alerting people of dangerous fire conditions, especially in residential occupancies where people sleep. In a high percentage of the residential fires, the smoke alarms activated and alerted the occupants. Of concern, however, are the 27 fires last year where the occupants did not get alerted to dangerous fire conditions (shown as alarm failed to alert occupants — 2 percent — or alerted occupants but the occupants failed to respond — 3 percent).

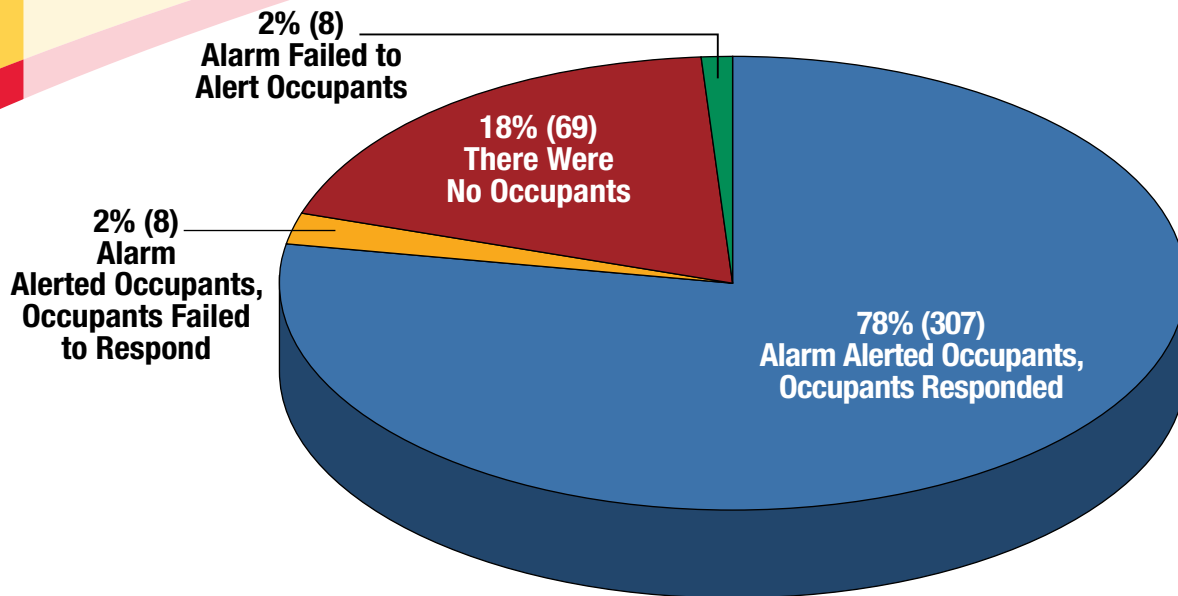
RESIDENTIAL OCCUPANCIES WHERE SMOKE ALARMS ACTIVATED — 2016



SMOKE ALARM EFFECTIVENESS — 2016



ONE/TWO FAMILY DWELLING SMOKE ALARM EFFECTIVENESS — 2016



SUMMARY

Last year, 774 (99 percent) of Minnesota's 779 fire departments reported information for Fire in Minnesota.

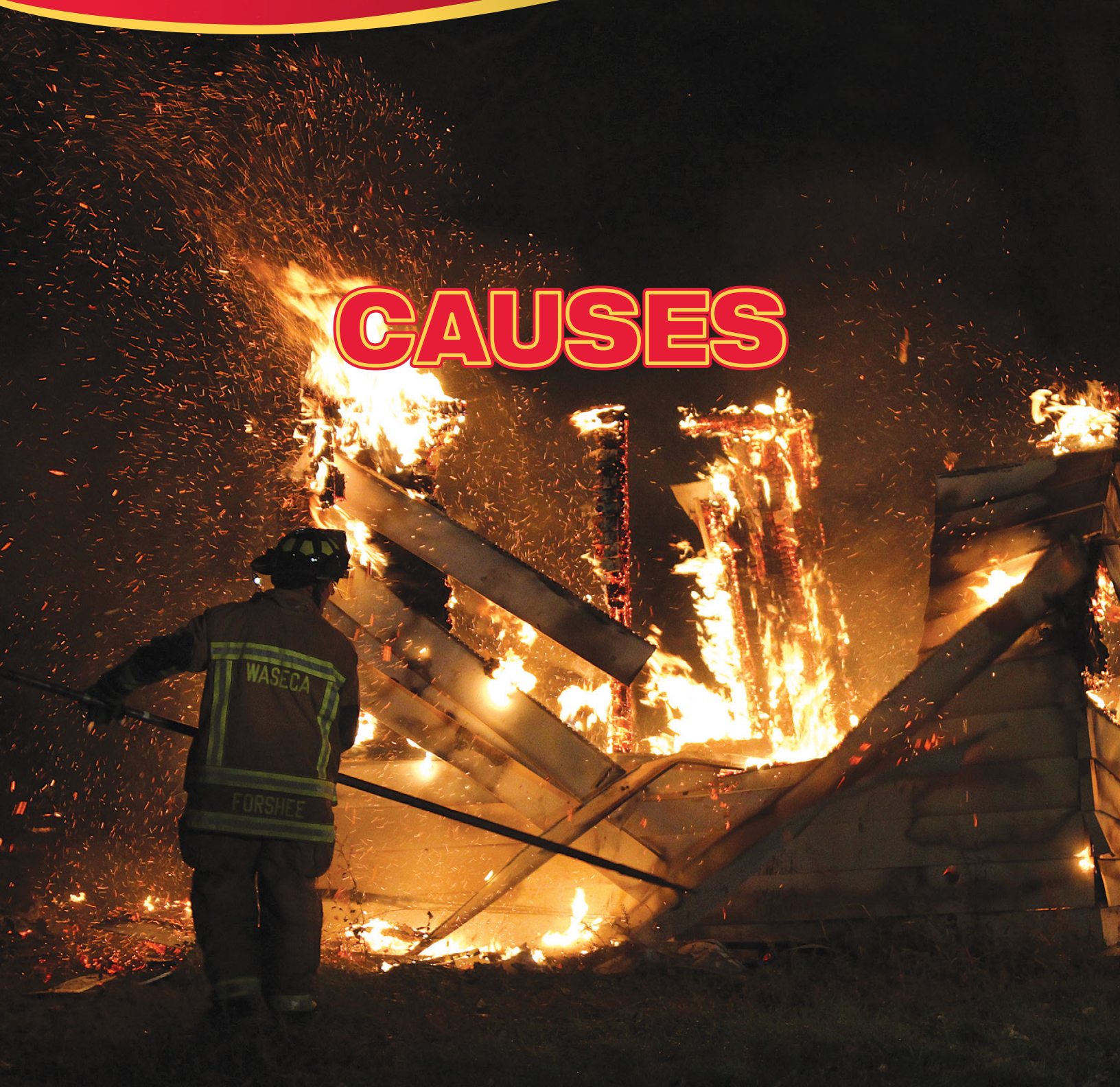
The total number of calls increased 6 percent last year from 2015. Dollar loss was more than \$259 million.

Fires occurred most frequently in residential properties. Residential fires occurred in significantly higher percentages than fires in the next most reported property type — storage facilities.

Fires in residential buildings accounted for 77 percent of all structure fires, 52 percent of total dollar loss and 94 percent of the fire deaths in structures in 2016. These statistics continue to identify the home as the most dangerous place to be.

In the last 28 years, almost \$4.8 billion in property was destroyed by fire; 49 percent — or over \$2 billion — occurred in residential property.

CAUSES

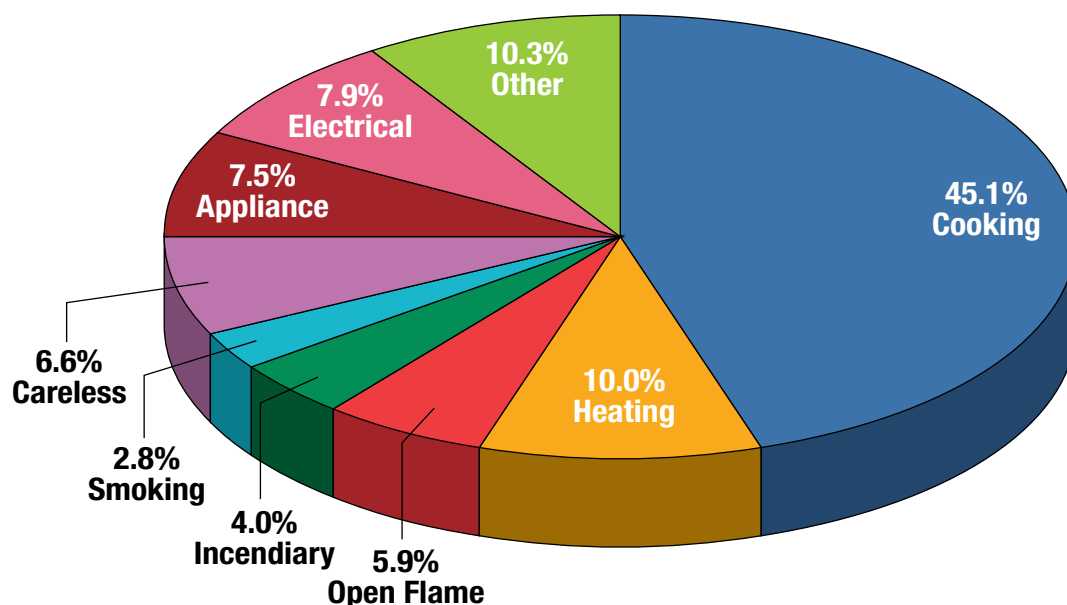


As in past years, cooking continues to be the top cause of fires in Minnesota, with heating as the second leading cause and electrical malfunction as the third leading cause.

Cooking remains the leading cause, mainly due to contained cooking fires.

Fires in residential property represented 77 percent of all structure fires and 52 percent of the total dollar loss.

STRUCTURE FIRE CAUSES



Cooking Fires

The leading cause of structure fires in 2016 was cooking. Ninety-four percent of those fires were contained cooking fires.

The top three known factors in the remaining cooking fires were: unattended equipment at 21 percent, combustibles too close at 13 percent, and equipment turned on accidentally/not turned off at 12 percent. There were no cooking-related civilian fire deaths but 27 civilian injuries, as well as 10 firefighter injuries.

Dollar loss from cooking fires in 2016 totaled \$3,070,163.

Heating Fires

The majority of 2016 heating-related fires (275) occurred in residential properties.

The total number of these fires dropped 3 percent from last year — there were 283 heating-related fires in 2015 — and dollar loss decreased by 17 percent.

HEATING FIRES IN RESIDENTIAL PROPERTIES

Equipment	Number of Fire Incidents	% of Total	Dollar Loss	% of Total
Fireplace/Chimney	161	59%	\$834,247	24%
Fixed Heating Units	35	13%	\$771,537	22%
Portable Heaters	16	6%	\$844,250	24%
Central Heating Units	51	19%	\$532,810	15%
Water Heaters	9	3%	\$376,200	11%
Other	3	<1%	\$112,050	3%
TOTAL	275	100%	\$3,471,094	100%

Where Do Fires Start?

Residential Property

- Kitchen/cooking area: 46 percent
- Sleeping area: 4 percent
- Laundry: 3 percent
- Trash chute/container: 2 percent
- Other areas of fire origin: 45 percent

Educational Property

- Kitchen/cooking area: 48 percent
- Trash chute/container: 14 percent
- Equipment/service area: 5 percent
- Storage area/other: 5 percent
- Other areas of fire origin: 28 percent

Public Assembly Property

- Kitchen/cooking area: 53 percent
- Trash chute/container: 9 percent
- Exterior roof surface: 4 percent
- Exterior wall surface: 4 percent
- Other areas of fire origin: 30 percent

Store and Office Property

- Kitchen/cooking area: 24 percent
- Trash chute/container: 7 percent
- Maintenance shop/area: 5 percent
- Heating room/area: 4 percent
- Other areas of fire origin: 60 percent

Summary by Type of Occupancy

RESIDENTIAL						
	Number of Incidents	Firefighter Injuries	Civilian Injuries	Firefighter Deaths	Civilian Deaths	Dollar Loss
	4,621	85	66	0	29	\$133,434,298
% OF TOTAL	77%*	34%	81%	0%	67%	52%

* Percent of Structure Fires

EDUCATIONAL

	Number of Incidents	Firefighter Injuries	Civilian Injuries	Firefighter Deaths	Civilian Deaths	Dollar Loss
	64	0	0	0	0	\$238,737
% OF TOTAL	1%*	0%	0%	0%	0%	<1%

* Percent of Structure Fires

PUBLIC ASSEMBLY

	Number of Incidents	Firefighter Injuries	Civilian Injuries	Firefighter Deaths	Civilian Deaths	Dollar Loss
	146	1	1	0	0	\$7,444,135
% OF TOTAL	2%*	1%	1%	0%	0%	3%

* Percent of Structure Fires

STORE AND OFFICE

	Number of Incidents	Firefighter Injuries	Civilian Injuries	Firefighter Deaths	Civilian Deaths	Dollar Loss
	169	3	2	0	2	\$11,223,768
% OF TOTAL	3%*	3%	2%	0%	5%	4%

* Percent of Structure Fires

SUMMARY

Cooking caused the largest percentage of structure fires. Fires in residential spaces represent 77 percent of all structure fires and 94 percent of fire deaths in structures. While careless smoking accounts for only 3 percent of structure fires, it caused 25 percent of known fire fatalities.

Ten percent of all reported fire causes were listed as “other.” Fire departments should provide the maximum available information on MFIRS reports. In order to focus our fire prevention efforts where the greatest need exists, complete reporting is essential.

Minnesotans continue to be in the greatest danger from fire in their own homes. Fire prevention efforts in the areas of cooking and heating must continue to be a top priority.

Fire Prevention Week


Since 1925, the week of Oct. 9 has been designated Fire Prevention Week in the United States in memory of the Great Chicago Fire of Oct. 9, 1871. The SFMD urges Minnesota fire departments to implement the safety theme and lead fire prevention efforts in their communities.

INCENDIARY FIRES

THIS FIRE SUSPECTED TO BE A RESULT OF:

ARSON

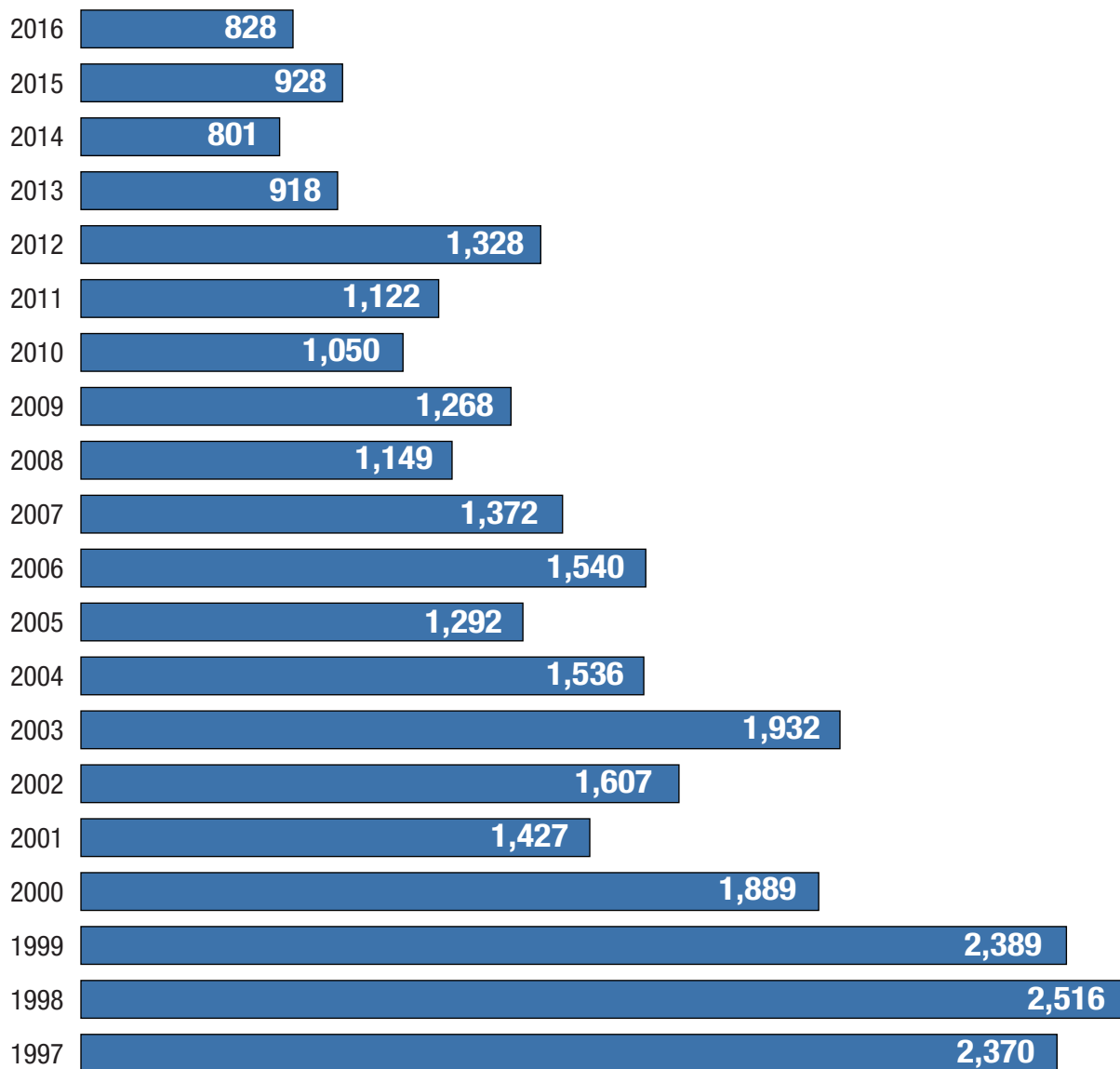
Hot-Line
1-800-723-2020
Rewards Offered

 Rewards Of Up To \$2,500 For
Information Leading To The Identification
Of Persons Responsible For This Fire
Minnesota Arson Reward Project - IAAI

There were 828 identified incendiary fires in 2016, an 11 percent decrease from 2015.

Incendiary refers to any intentionally set fire. An arson fire is an example of an incendiary fire, but not all incendiary fires are arson. Incendiary fires may also include recreational fires intentionally set that get out of control. The value of property destroyed by incendiary fires in 2016 was nearly \$6 million, a 32 percent decrease from 2015. Both numbers are considerably lower than those in the 1990s.

INCENDIARY FIRES IN MINNESOTA



Most Common Buildings for Incendiary Fires

- Residential structures: 59 percent
- Industrial/manufacturing/storage: 18 percent
- Special property: 10 percent
- Public assembly: 6 percent
- Store/office: 5 percent
- Educational: 2 percent

INCENDIARY DOLLAR LOSS (in millions)

Residential

\$2.87

Industrial/Manufacturing/Storage

\$1.62

Public Assembly

\$0.41

Special Property

\$0.06

Store/Office

\$0.02

Educational/Institutional

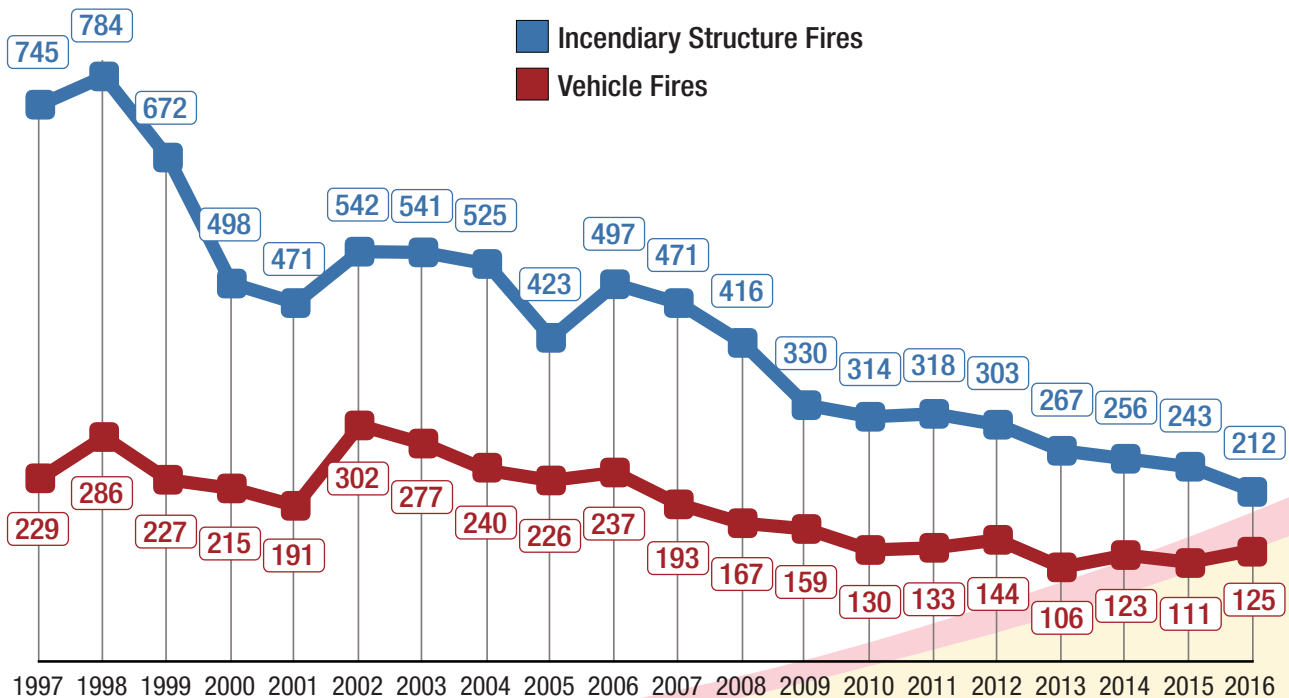
\$0.01

In 2016, “Incendiary” was listed as the cause of 4 percent of all reported structure fires with known causes and 5 percent of all reported vehicle fires in Minnesota.

Vehicle incendiary dollar loss represented 3 percent of total vehicle fire dollar loss with an average dollar loss per incendiary vehicle fire of \$4,976.

Fire investigators agree that incendiary vehicle fires are under-reported and may not receive as much attention as structure fires receive.

INCENDIARY STRUCTURE AND VEHICLE FIRES



INCENDIARY FIRE DAMAGE IN MINNESOTA (in millions)

2016	\$5.0	\$0.6	Totals:	\$5.6
2015	\$6.6	\$1.5		\$8.1
2014	\$6.0	\$0.6		\$6.6
2013	\$5.5	\$0.5		\$6.0
2012	\$9.9	\$1.1		\$11.0
2011	\$7.5	\$0.5		\$8.0
2010	\$6.5	\$0.6		\$7.1
2009	\$5.3	\$0.9		\$6.2
2008	\$7.0	\$1.1		\$8.1
2007	\$13.5	\$1.1	Structures	\$14.6
2006	\$13.4	\$1.0	Vehicles	\$14.4
2005	\$8.7	\$0.8		\$9.5
2004	\$10.2	\$1.0		\$11.2
2003	\$8.5	\$1.2		\$9.7
2002	\$12.9	\$1.4		\$14.3
2001	\$8.1	\$1.1		\$9.2
2000	\$8.1	\$1.1		\$9.2
1999	\$15.3	\$1.3		\$16.6
1998	\$11.1	\$1.3		\$12.4
1997	\$13.8	\$0.9		\$14.7
1996	\$20.5	\$1.3		\$21.8
1995	\$16.9	\$0.9		\$17.8
1994	\$42.2	\$0.8		\$43.0

SUMMARY

Incendiary fires decreased in 2016 and dollar loss for these fires also decreased. Incendiary fires were the cause of 4 percent of structure fires with known causes.

In 2016, 59 percent of all incendiary structure fires were in residential property as well as 50 percent of all incendiary dollar loss.

In the past 28 years, incendiary fires caused 67 deaths and more than \$372.2 million in property loss.

Incendiary fires must continue to be addressed through such efforts as the Arson Reward Program and the Youth Firesetter Intervention and Prevention Program.

Arson Tip Line

Do you have a tip or information about a possible arson fire? Call the Arson Hotline at 1-800-723-2020.

Rewards are possible for information leading to the identification of persons responsible.

Rewards are as follows:

- An extraordinary reward of \$2,000 to \$5,000 for information or assistance that leads to the arrest of person(s) on a charge of arson.
- An information reward of up to \$2,000 for information in a meritorious situation with no requirement that the information lead to an arrest.
- A lesser reward for useful information which could prevent an incendiary fire or aid in catching a person who set one. There is no requirement that the information lead to an arrest.

CASUALTIES



Structure Fires, New Risks and Fire Deaths

Each year, we dedicate a few pages in the Fire in Minnesota report to look at some of Minnesota's fire trends. Here is some of the good news and bad news from 2016.

The fire loss data did not change significantly from 2015 to 2016. The total number of fire department incidents was up about 6 percent, while the total number of fires was down about 6 percent. Most of the decrease in fires occurred in the category of "other" fires, which includes grass fires, trash fires, wildland fires, and outdoor storage fires.

Structure fire rate

Minnesota has been part of the National Fire Incident Reporting System (NFIRS) since the late 1970s. One thing we watch very closely is the number of structure fires; this is because most of the state's fire deaths and the highest percentage of dollar loss comes from structure fires. Over the past few decades, the structure fire rate has been declining; the structure fire rate is the number of fires per 10,000 people, and it is a more accurate

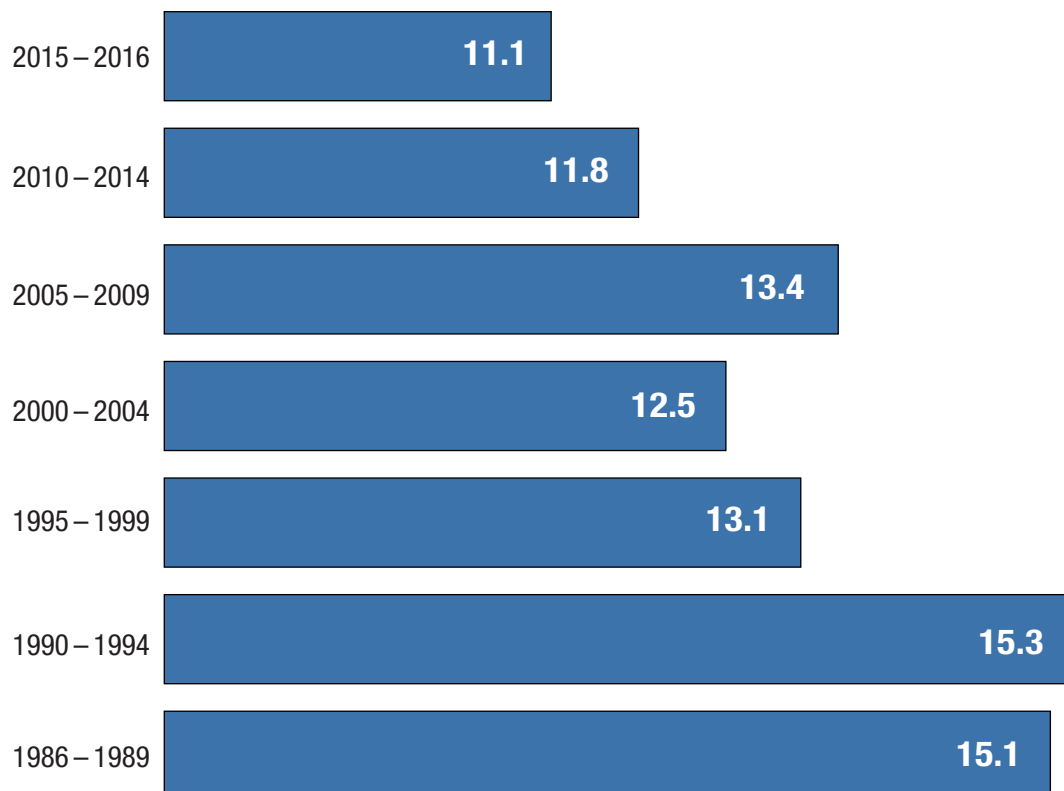
reflection of the fire problem than merely counting the number of structure fires.

The structure fire rate in 2016 (11.1 structure fires per 10,000 population) is about 25 percent lower than what Minnesota experienced in the 1980s (when it was 15.1 structure fires per 10,000 population).

New fire safety risks

Although the overall downward trend in structure fire rates in Minnesota is a good thing, we are starting to see an increase in new fire risks, which may result in a change to this downward trend. People are always coming up with processes that introduce new fire safety hazards. Some of these risks are from materials that burn hotter or faster than the items that they replaced. Others are new

STRUCTURE FIRE RATE (per 10,000 population)



ignition sources that were not present in the past. Here is a list of some of these fire safety hazards:

- **Lasers.** The use of lasers is becoming more common — especially in medical procedures and manufacturing processes. The laser is a source of concentrated radiant heat — often enough to ignite ordinary combustible materials.
- **Lithium ion batteries.** By now most of us have heard about the lithium ion (Li-ion) battery issues in certain smartphones and hoverboards. Lithium is a water-reactive substance, meaning that it can start burning when exposed to water — including the moisture normally present in air. Because water is often used to put out fires, Li-ion batteries present unique firefighting challenges.
- **Marijuana extraction.** Many states — including Minnesota — have legalized medical marijuana. Very flammable gases, such as hexane and butane — are used to extract the oil from the marijuana plants. A single small spark can easily ignite these flammable gas vapors.
- **Plastics.** Plastic materials, when ignited — especially foam plastics — tend to burn hotter and faster than ordinary cellulosic materials, such as wood and paper. For years chemicals were added to plastics to make them resistant to burning, but many of these chemicals are known carcinogens, and their use is falling out of favor.
- **Flammable refrigerants.** For years most refrigerants were non-flammable and were difficult to burn. Unfortunately, many of these refrigerants had negative environmental consequences (some were known to deplete the ozone layer surrounding the planet). The move is to replace these refrigerants with materials that are flammable, known as hydrocarbon refrigerants. Examples include propane and isobutane.

Fire deaths

Minnesota has made significant strides in reducing the annual number of fire deaths. In the 1970s Minnesota averaged 96 fire deaths per year with a fire death rate of 24.5 per million people. In this decade, the average number of fire deaths per year is 49 (about half of what it was in the 1970s) and there were only 8.8 fire deaths per million people.

Although this decrease is a good thing, the fire death rate since 2000 has remained fairly flat, indicating that the progress in reducing fire deaths that was seen through the 1980s and 1990s has likely plateaued. If Minnesota is to continue to lower its fire death rate, more emphasis needs to be placed on the purest form of fire safety: preventing the fire's ignition from occurring.

Failures

Some fire safety experts look at each building fire, fire casualty and fire death as a failure. It was a failure to prevent the fire from starting, a failure to recognize the fire's danger, or a failure to take steps to prevent the fire from growing while escape was still possible.

Those working in public safety see the human side of these events: It is somebody's home, somebody's business, or somebody's loved one who is hurt or killed. Fire departments cannot be the only ones providing fire protection; everyone must do their part to protect their homes, businesses and loved ones from the devastation of fire.

Fire in Minnesota 2016 provides a snapshot of Minnesota's fire loss. It also looks at trends and potential new fire risks. It is intended to give people information and tools that they can use to enhance their own fire safety.

Fire Deaths and Smoke Alarm Performance

In 2016, 43 civilians lost their lives in Minnesota fires. In 33 percent of the residential casualties, smoke alarms were absent or non-operating. In 42 percent of residential fires, it was not possible to determine whether a smoke alarm was present or operating.

FIRE DEATHS AND SMOKE ALARM PERFORMANCE			
Circumstance	Fatalities	% of Dwelling Fires	% of Total Deaths
No Smoke Alarms Present	3	10%	7%
Inoperable Smoke Alarms Present	7	23%	16%
Working Smoke Alarms Present	4	13%	9%
Unknown If Alarms Present/Working	13	42%	30%
Not a Factor/Suicides, Explosions, etc.	4	13%	9%
TOTAL DEATHS IN DWELLINGS	31	100%	71%
Other Fire Deaths (Including vehicles, outdoors, other structures, etc.)	12		28%
TOTAL FIRE DEATHS	43		100%

Four Deaths in Homes with Working Smoke Alarms: Why Didn't They Get Out?

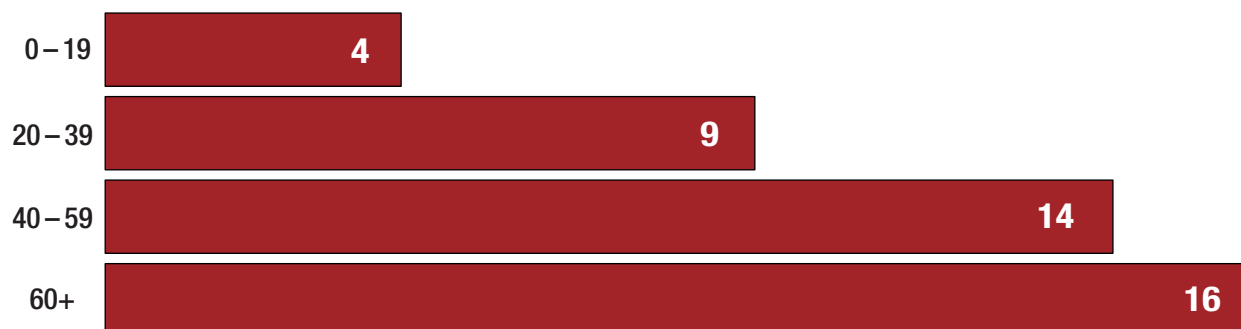
- Intoxication/Drug Use: 1
- Medical issue: 2
- Smoking with oxygen tank nearby: 1

Civilian Fire Deaths

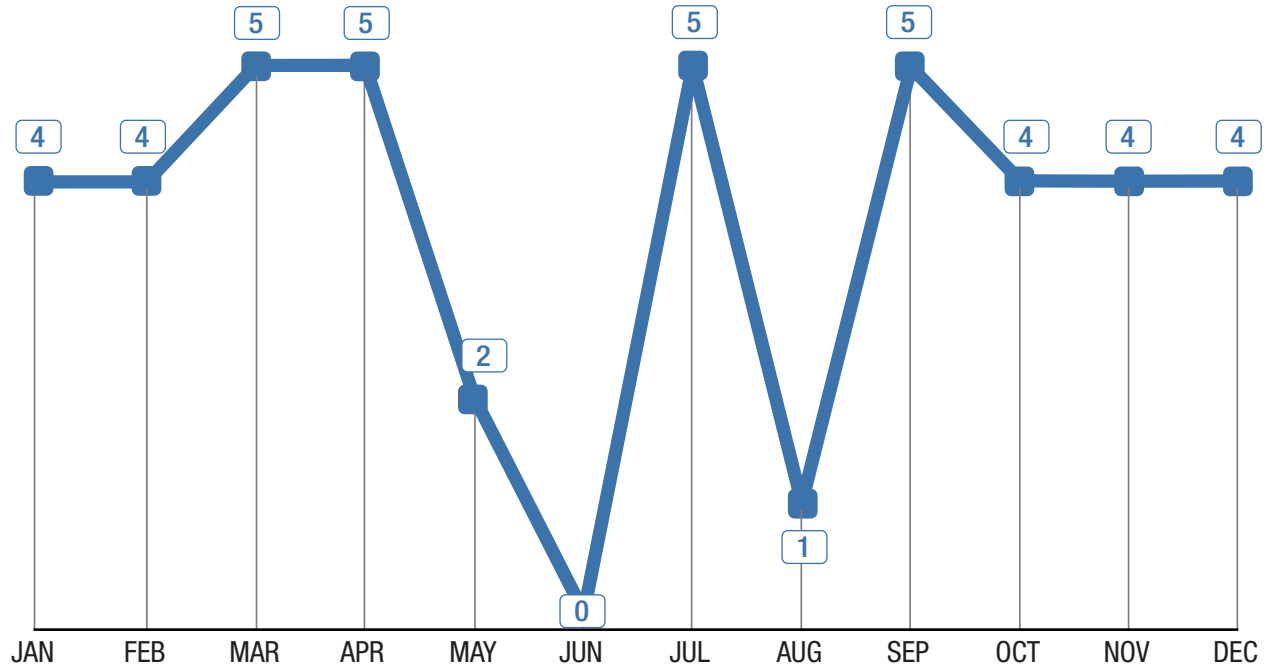
Thirty-seven percent of fire deaths in 2016 occurred between the hours of midnight and 6 a.m. Forty-two percent of the fire deaths occurred in January through April.

The number of people killed in fires in the 0-19 age category and the 60-plus age category decreased from 2015 to 2016. Four people ages 0-19 died in fires in 2016 — a 56 percent decrease. Sixteen people ages 60 and over died last year — a 38 percent decrease.

CIVILIAN FIRE DEATHS BY AGE



CIVILIAN FIRE DEATHS BY MONTH



FIRE DEATHS BY TIME OF DAY

Cause	0000–0600	0600–1200	1200–1800	1800–2400	Total
Careless Smoking	1	1	2	3	7
Wood Stove Malfunction	2	0	0	0	2
Arson/Suicide	1	0	2	2	5
Combustible too Close	0	0	2	3	5
Vehicle	2	1	0	1	4
Other	1	1	3	0	5
Undetermined	9	1	2	3	15
TOTAL	16	4	11	12	43

Civilian Fire Deaths: Where and Why?

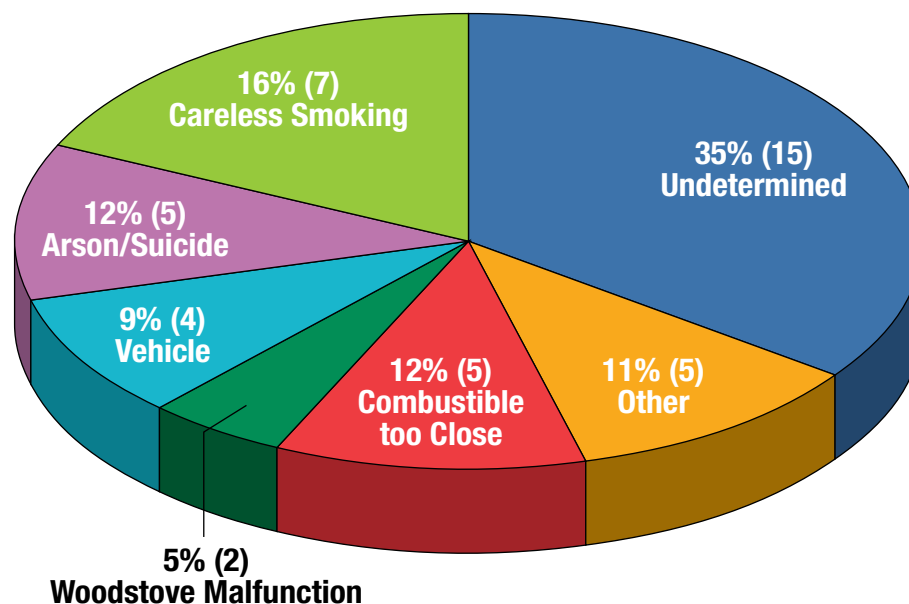
Sixty-seven percent of all 2016 fire deaths occurred where people generally feel safest — in their homes.

2016 civilian fire deaths by location:

- Single-family homes 23
- Outside 8
- Multi-family homes 6
- Vehicle 4
- Other 2

In 2016, careless smoking was the leading cause of known fatal fires. Alcohol or drug use was a factor in 29 percent of the careless smoking deaths and in 35 percent of all fire deaths.

CIVILIAN FIRE DEATHS BY CAUSE



2016 FIRE DEATHS

Date	City/Town	Structure	Cause	Age
1/11/2016	Canton	Single Family	Woodburner Malfunction	18
1/11/2016	Canton	Single Family	Woodburner Malfunction	59
1/13/2016	International Falls	Convenience Store	Incendiary	27
1/21/2016	Lakeville	Single Family	LP Gas Explosion	35
2/1/2016	Winona	Highway	Vehicle Collision	42
2/16/2016	Foley	Single Family	Combustible Too Close	73
2/19/2016	Kasson	Single Family	Suicide	41
2/21/2016	Minneapolis	Single Family	Undetermined	65
3/3/2016	St. Paul	Apartment	Unattended Candle	63
3/3/2016	Rochester	Apartment	Careless Smoking	2

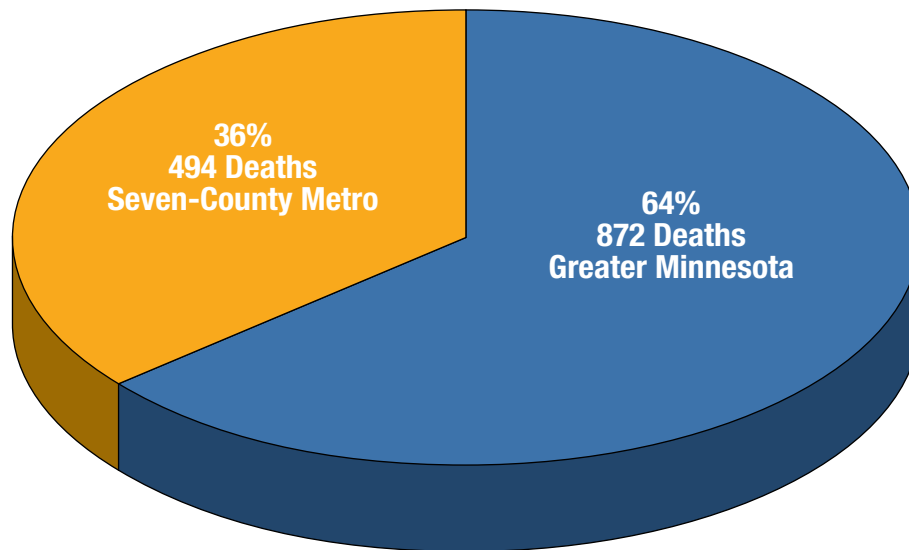
2016 FIRE DEATHS

Date	City/Town	Structure	Cause	Age
3/3/2016	Rochester	Apartment	Careless Smoking	35
3/7/2016	Poplar Township	Outdoors	Suicide	50
3/21/2016	Cass Lake	Outdoors	Combustible Too Close	58
4/8/2016	Little Canada	Single Family	Careless Smoking	56
4/14/2016	Minneapolis	Single Family	Combustible Too Close	74
4/14/2016	St. Paul	Grocery Store	Undetermined	77
4/14/2016	Le Center	Outdoors	Careless Open Burning	83
4/29/2016	Brooklyn Park	Single Family	Undetermined	64
5/2/2016	Warren	Outdoors	Careless Open Burning	86
5/29/2016	Duluth	Apartment	Undetermined	59
7/7/2016	North Branch	Highway	Vehicle Collision	31
7/7/2016	Mora	Single Family	Combustible Too Close	78
7/22/2016	Rochester	Single Family	Careless Smoking	51
7/22/2016	Rochester	Single Family	Careless Smoking	26
7/28/2016	Vadnais Heights	Single Family	Undetermined	79
8/6/2016	St. Paul	Single Family	Careless Smoking	64
9/5/2016	Perham	Street	Suicide	54
9/17/2016	Watertown	Single Family	Undetermined	11
9/17/2016	Watertown	Single Family	Undetermined	33
9/17/2016	Watertown	Single Family	Undetermined	3
9/30/2016	Warren	Street	Vehicle Collision	58
10/14/2016	Minneiska	Highway	Vehicle Collision	27
10/23/2016	Owatonna	Outdoors	Combustible Too Close	64
10/26/2016	Virginia	Single Family	Appliance Malfunction	46
10/30/2016	Sleepy Eye	Single Family	Undetermined	64
11/5/2016	Makinen	Outdoors	Undetermined	64
11/21/2016	Princeton	Single Family	Undetermined	66
11/23/2016	Minneapolis	Apartment	Undetermined	76
11/23/2016	Minneapolis	Apartment	Undetermined	39
12/7/2016	Twin Lakes	Single Family	Undetermined	56
12/9/2016	Hibbing	Single Family	Careless Smoking	58
12/19/2016	Brainerd	Single Family	Undetermined	50
12/26/2016	Coon Rapids	Forest, Woodland	Suicide	27

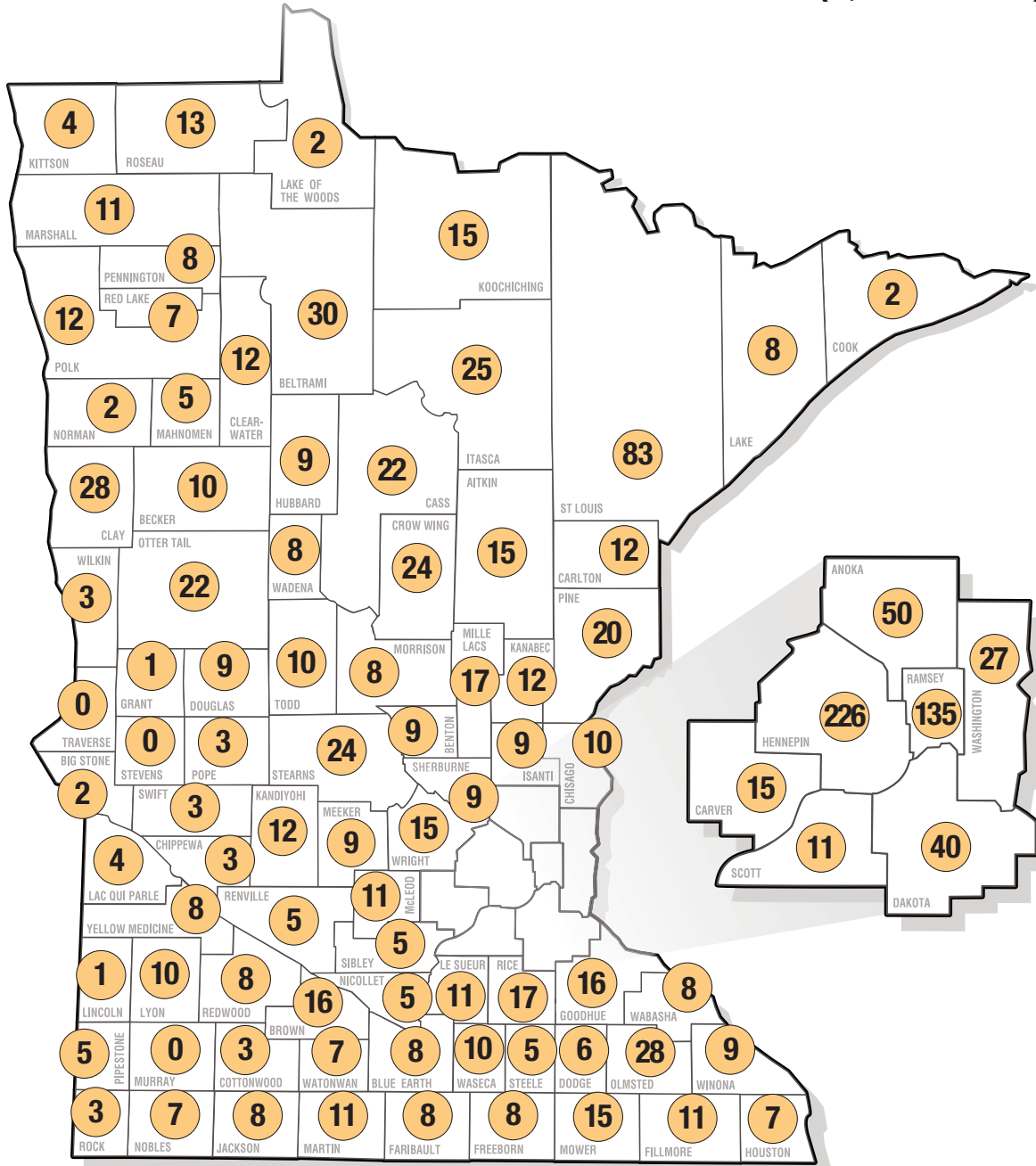
Civilian Deaths: 1990 through 2016

In the past 27 years, 1,366 Minnesota civilians have died in fires (see distribution by county on the next page). In 2016, 45 percent of our state population lived in greater Minnesota, where the per capita fire death rate was 1.13 deaths for every 100,000 people. The per capita fire death rate for the metro area in 2016 was 0.49 per 100,000, while the rate for the state as a whole was .78 per 100,000. That is slightly below the national per capita fire death rate, which was 1.09 per 100,000. There are three Minnesota counties that have remained fatality free for the past 27 years: Traverse, Stevens and Murray.

CIVILIAN FIRE DEATHS SINCE 1990 (1,366 TOTAL)



CIVILIAN FIRE DEATHS BY COUNTY SINCE 1990 (1,366 TOTAL)



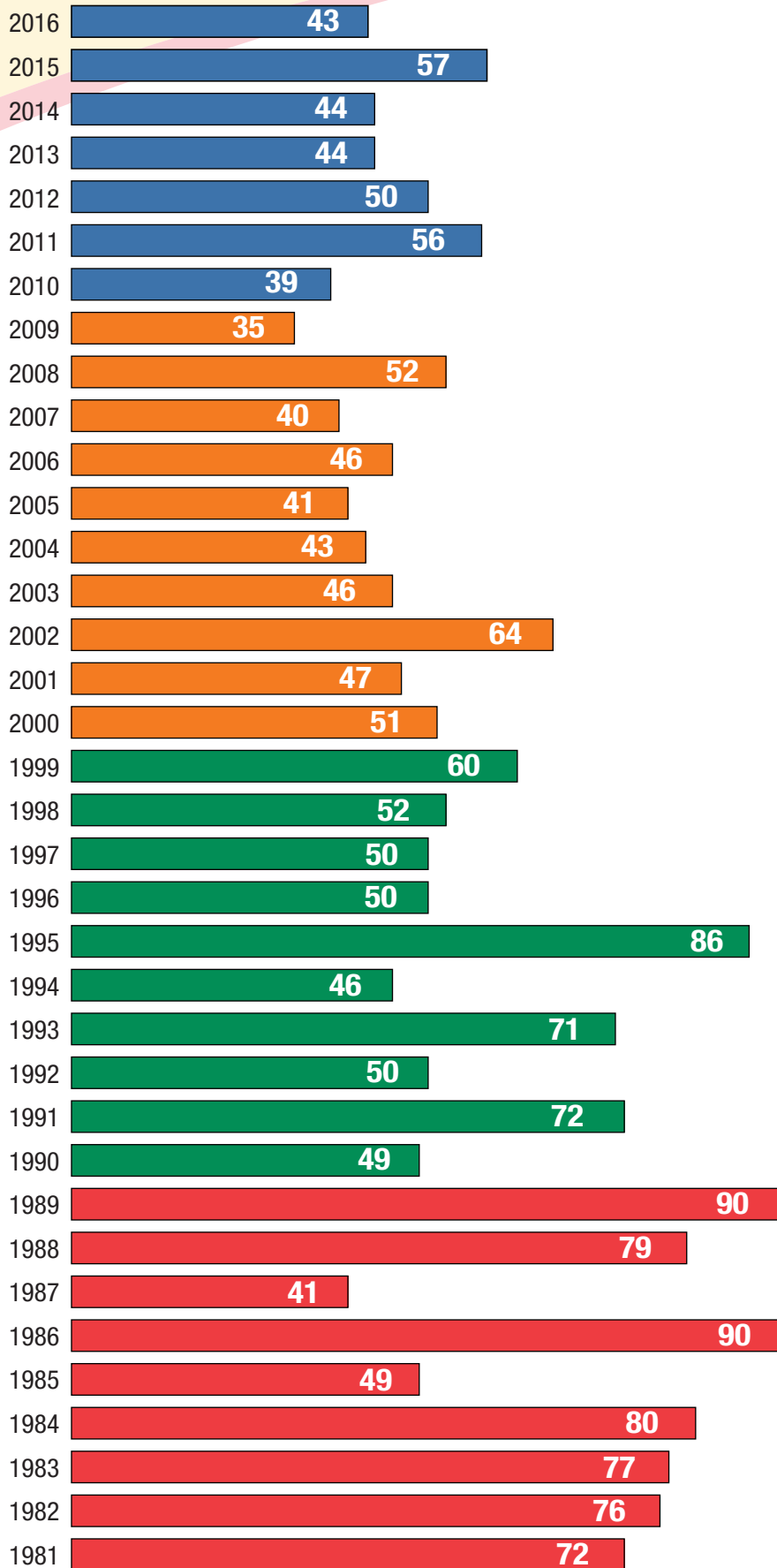
30-Plus Years of Fire Death History

As Minnesota's population has grown from 3.8 million in 1970 to 5.5 million in 2016, fire deaths have decreased. During the 1980s, fire deaths in Minnesota dropped 19 percent from the levels of the 1970s. The 1990s showed a further decrease of 25 percent from the levels of the 1980s. The 2000s had a decrease of 21 percent from the 1990s.

Much of this decline in the fire death trend can be attributed to fire service advancements. Since the mid-seventies, the promotion of fire protection technology (smoke alarms, sprinkler systems, etc.) has become widespread in Minnesota.

Also during this time, the state has mandated new inspection and code enforcement programs targeting hotels, motels, schools, and health and day-care facilities.

FIRE DEATHS THE PAST 30+ YEARS



Firefighter Deaths

No Minnesota firefighters died in the line of duty last year but 17 have lost their lives since 1996.

In 2016, 69 on-duty firefighter deaths occurred in the United States. This is the fifth year of the past six that the total number firefighter deaths has been under 70. We honor those who have fallen and remember them with pride and gratitude for their dedicated service in protecting their fellow citizens.

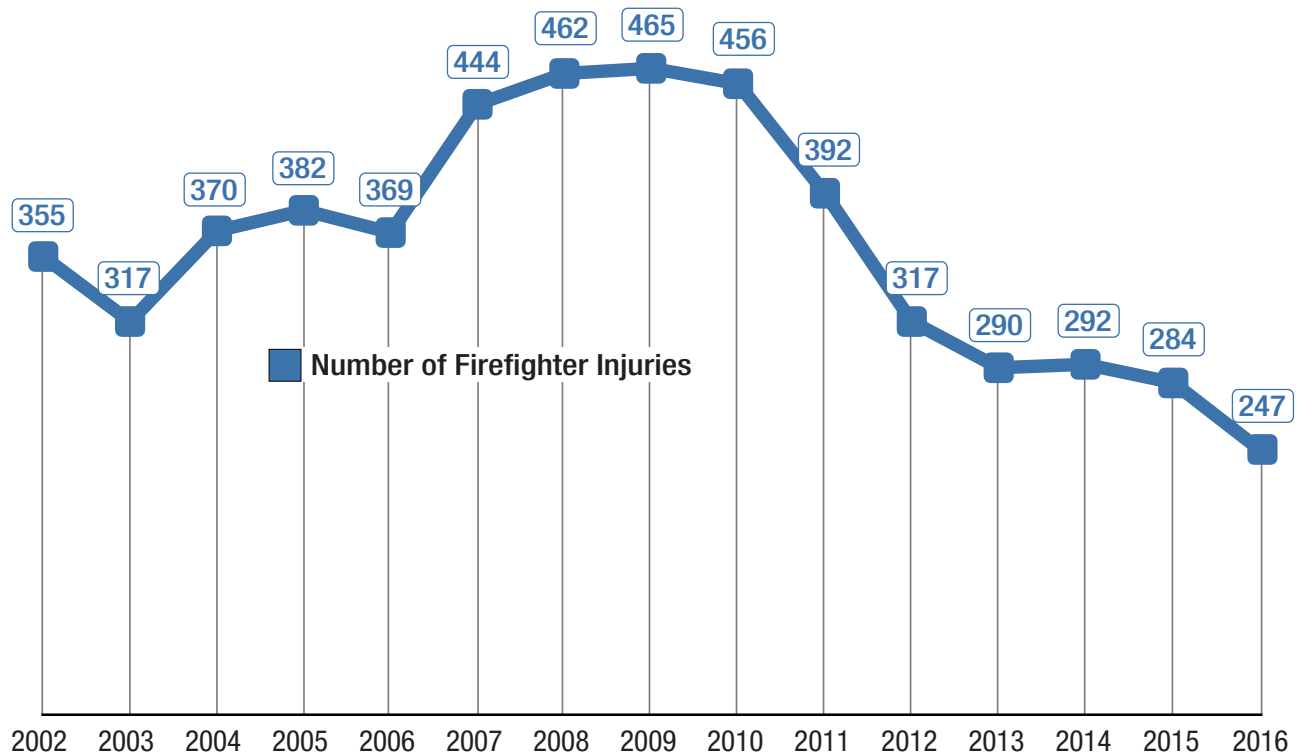
MINNESOTA FIREFIGHTER LINE OF DUTY DEATHS 1996 – 2016

Year	Name Of Firefighter	City
1996	Melvin Windschitl	Chanhassen
1997	Harvey Chlian	Starbuck
1997	Leroy Swanson	Minneapolis
1998	Michael Wiborg	Chanhassen
1999	Marvin Huisman	Wilmont
1999	William Myers	St. Anthony
2002	Kim Granholm	Esko
2002	Jonathan Lanphear	Boyd
2003	Don Billig	St. Cloud
2006	David Klapprich	Wayzata
2006	Kyle Weisbrich	Melrose
2007	Barry DeLude	Minneapolis
2008	Jeremy Jylka	Pine City
2009	Ramon Hain	St. Paul
2011	Chip Imker	Cambridge
2013	Matthew Frantz	Rice Lake
2015	Shane Clifton	St. Paul

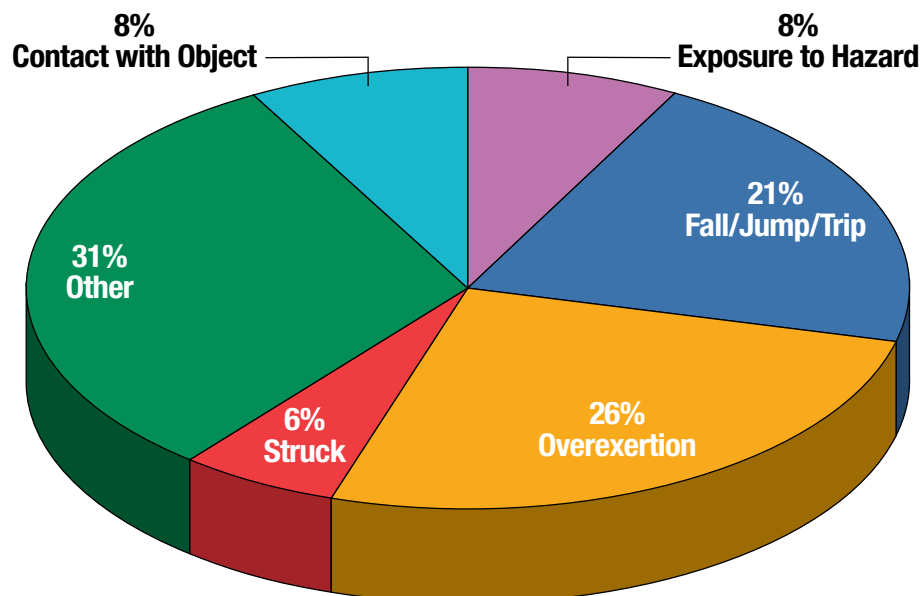
Firefighter Injuries

In 2016, 247 Minnesota firefighters were injured on the job — a slight decrease from 2015. Of these injuries, 111 (45 percent) were fire-related. Seventy-seven percent of these fire-related injuries occurred while firefighters were fighting residential structure fires (85). Of known causes, “overexertion” was the most common (26 percent) with fall/jump/trip as the next highest at 21 percent.

FIREFIGHTER INJURIES



CAUSES OF FIREFIGHTER INJURIES



Fireworks Property Loss

The State Fire Marshal Division has gathered information about fireworks injuries and property damage since 1989. Minnesota hospitals voluntarily report injuries treated in their emergency departments during the period of June 25 through July 15 each year.

Property damage information is taken from the Minnesota Fire Incident Reporting System. From 1989 through 2001, a total of \$1.6 million in property damage resulting from fireworks use was reported, averaging more than \$123,000 per year. The total property damage due to fireworks use from 2002 through 2004 was over \$3 million. Property damage reported from 2007 through 2016 totaled over \$3.1 million, averaging over \$319,150 per year.

FIREWORKS INCIDENTS DOLLAR LOSS [†]											
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Total
June–July	\$300,600	\$130,866	\$89,550	\$26,300	\$12,000	\$194,746	\$64,000	\$161,510	\$61,969	\$310,898	\$1,352,431
No. of Incidents	141	92	61	24	15	47	27	28	25	52	512
% of Total Dollar Loss	93%	94%	94%	19%	21%	97%	68%	9%	73%	99%	42%
Average Dollar Loss	\$2,132	\$1,422	\$1,468	\$1,096	\$800	\$4,144	\$2,370	\$5,768	\$2,479	\$5,979	\$2,641
Total/Year	\$322,400	\$139,366	\$95,350	\$137,800	\$57,250	\$200,446	\$94,300	\$1,748,610 ^{††}	\$84,469	\$311,510	\$3,191,501
No. of Incidents	175	123	92	45	22	79	46	37	42	68	729
Average Dollar Loss	\$1,842	\$1,133	\$1,036	\$3,062	\$2,602	\$2,537	\$2,050	\$47,260	\$2,011	\$4,581	\$4,378

[†] Information source: Minnesota Fire Incident Reporting System (average of 98% of state fire departments report into this system).

^{††} \$1.3M vehicle storage fire in Zumbrota, MN.

Fireworks Injuries

Fireworks injuries most commonly occur to males between 10 and 29 years of age, with burns being the most common type of injury reported. Burn injuries include those to the extremities, eyes and face. It is impossible to know how many injuries occurred for which medical attention was not sought. Approximately 85 percent of Minnesota hospitals participate in the survey of fireworks injuries.

FIREWORKS INJURIES*† BY AGE 2007 – 2016

Years of Age	2007 No. %	2008 No. %	2009 No. %	2010 No. %	2011 No. %	2012 No. %	2013 No. %	2014 No. %	2015 No. %	2016 No. %	Total No. %
0–9	15 23%	12 19%	9 16%	13 15%	17 20%	15 26%	11 18%	15 21%	19 22%	14 18%	140 20%
10–19	17 26%	23 36%	11 19%	19 22%	17 20%	8 14%	14 23%	14 20%	12 14%	21 28%	156 22%
20–29	19 29%	13 20%	16 28%	22 25%	19 23%	12 21%	12 20%	18 25%	19 22%	14 18%	164 23%
30–39	9 14%	5 8%	12 21%	10 11%	18 21%	9 16%	14 23%	12 17%	17 19%	16 21%	122 17%
40–49	4 6%	5 8%	8 14%	13 15%	4 5%	10 18%	6 10%	5 7%	15 17%	7 9%	77 11%
50+	1 2%	6 9%	1 2%	10 11%	9 11%	3 5%	3 5%	7 10%	6 7%	4 5%	50 7%
Total	67** 100%	66** 100%	57 100%	87 100%	85** 100%	57 100%	60 100%	71 100%	89** 100%	77** 100%	717 100%
Male	46 69%	51 77%	45 79%	61 70%	66 78%	33 58%	45 76%	52 74%	58 65%	49 64%	507 71%
Female	21 31%	15 23%	12 21%	26 30%	19 22%	24 42%	15 24%	19 26%	31 35%	27 36%	209 29%

* Information collected from survey conducted at Minnesota hospitals from June 22 through July 15 each year.

** There were two injuries in 2007, two injuries in 2008, one injury in 2011, one injury in 2015 and one injury in 2016 that listed age as “unknown” or “0.”

† There was one fire death from fireworks in 2015.

SUMMARY

Historically, Minnesotans have been at greatest risk of fire death and injury in their own homes. In 2016, 67 percent of fire deaths and 79 percent of civilian injuries occurred in residential settings. Ninety-four percent of structure fire deaths were in residential property. The presence or absence of working smoke alarms is often a factor in fire fatalities. In 33 percent of fire deaths occurring in dwellings, smoke alarms were not present or not working. In 42 percent of residential deaths, it was not known whether alarms were present or functioning.

Careless smoking was the leading cause of fire deaths in 2016 with seven fire deaths. Alcohol or drug use was an impairing factor in 35 percent of all fire deaths.

Forty-five percent of firefighter injuries took place while fighting fires; 77 percent of these fire-related injuries occurred at residential structure fires.

Overall, fire deaths have decreased over the past 30 years in Minnesota, even as the population has grown. However, many preventable tragedies continue to occur. Prevention and education efforts, particularly those targeting vulnerable populations, are essential to reduce losses from fire.



PARTICIPATION

Minnesota Fire Incident Reporting System

The Minnesota State Fire Marshal Division appreciates the efforts of the fire departments that submitted data via the Minnesota Fire Incident Reporting System (MFIRS) in 2016.

This information is essential if we are to understand and effectively combat the fire problem in Minnesota. It allows the division to focus on real fire problems, rather than popular perceptions. On the local level, this data provides information to help focus on prevention efforts; it also assists with budget planning for staffing and equipment.

Fire data is requested on a weekly basis by the media, the public the fire service, and the

fire protection community. It is used to support legislative initiatives and to guide public fire/safety campaigns.

Information about reporting departments is listed on the following pages. In 82 counties last year, 100 percent of the fire departments reported via the MFIRS system.

In some instances, the protection district of the reporting fire department goes beyond its county boundary, but the incident is recorded within the department's home county. The fire rate equals one fire per number of persons indicated. For example, in Aitkin County in 2016, there was one fire for every 334 people.

RUNS, DOLLAR LOSSES AND DEATHS BY COUNTY

County	Population	Fire Runs	Other Runs	Total County Dollar Loss	Fire Rate	Avg. Dollar Loss/Fire	Fire Deaths
Aitkin	16,031	56	194	\$955,900	334	\$19,915	
Anoka	319,950	844	16,997	\$9,468,706	458	\$13,546	1
Becker	31,817	220	470	\$2,638,900	229	\$18,985	
Beltrami	42,263	146	2,145	\$1,580,237	406	\$15,195	
Benton	38,099	75	559	\$884,300	569	\$13,199	1
Big Stone	5,602	24	68	\$168,000	244	\$7,304	
Blue Earth	57,409	188	3,496	\$1,561,670	352	\$9,581	
Brown	26,763	71	129	\$4,825,720	418	\$75,402	1
Carlton	33,639	146	4,064	\$678,020	317	\$6,396	
Carver	82,122	257	2,918	\$3,519,243	642	\$27,494	3
Cass	28,460	159	646	\$1,640,050	222	\$11,311	2
Chippewa	12,659	48	72	\$422,600	325	\$10,836	
Chisago	48,349	169	912	\$1,815,953	420	\$15,791	1
Clay	52,905	177	3,548	\$3,145,385	353	\$20,969	
Clearwater	8,437	62	102	\$240,100	159	\$4,530	
Cook	5,317	19	105	\$5,000	380	\$357	
Cottonwood	11,961	26	70	\$1,671,500	498	\$69,646	
Crow Wing	59,431	249	1,417	\$13,781,900	303	\$70,316	1
Dakota	379,058	750	20,140	\$10,364,884	572	\$15,633	1
Dodge	19,355	46	608	\$3,039,150	496	\$77,927	1

RUNS, DOLLAR LOSSES AND DEATHS BY COUNTY

County	Population	Fire Runs	Other Runs	Total County Dollar Loss	Fire Rate	Avg. Dollar Loss/Fire	Fire Deaths
Douglas	34,628	160	520	\$3,859,890	271	\$30,155	
Faribault	15,642	63	196	\$1,251,700	122	\$24,071	
Fillmore	21,321	99	153	\$5,657,805	251	\$66,562	2
Freeborn	31,971	149	2,524	\$909,127	302	\$8,577	1
Goodhue	45,496	113	1,268	\$955,000	429	\$9,009	
Grant	6,118	45	158	\$1,275,520	161	\$33,566	
Hennepin	1,120,897	3,176	89,109	\$60,433,655	406	\$21,888	5
Houston	19,890	56	532	\$500,400	452	\$11,373	
Hubbard	18,849	62	62	\$865,072	362	\$16,636	
Isanti	36,546	94	1,069	\$395,980	440	\$4,771	1
Itasca	44,316	233	1,170	\$1,983,897	256	\$11,468	
Jackson	11,234	21	91	\$167,450	661	\$9,850	
Kanabec	16,056	53	69	\$3,231,300	349	\$70,246	1
Kandiyohi	41,191	148	467	\$3,162,100	381	\$29,279	
Kittson	4,820	43	87	\$1,640,000	161	\$54,667	
Koochiching	13,863	49	1,674	\$318,950	308	\$7,088	1
Lac Qui Parle	7,756	37	47	\$118,500	267	\$4,086	
Lake	11,218	26	144	\$1,852,600	387	\$97,505	
Lake of the Woods	4,404	5	12	\$33,000	1,101	\$8,250	
LeSueur	27,166	75	550	\$961,300	445	\$15,759	1
Lincoln	6,178	20	20	\$1,078,100	363	\$63,418	
Lyon	24,703	92	281	\$764,250	348	\$10,764	
McLeod	5,081	119	1,096	\$1,501,690	355	\$14,722	
Mahnomen	10,015	52	32	\$136,250	175	\$4,698	
Marshall	21,044	69	127	\$687,200	167	\$11,453	2
Martin	36,190	50	173	\$2,502,100	540	\$64,156	
Meeker	23,277	103	402	\$1,974,001	277	\$23,500	
Mille Lacs	25,079	120	467	\$2,471,247	251	\$24,712	
Morrison	32,689	139	450	\$1,821,740	257	\$14,344	
Mower	38,998	108	1,048	\$796,500	394	\$8,045	
Murray	8,995	31	40	\$684,531	428	\$32,597	
Nicollet	30,829	58	304	\$1,619,850	752	\$39,509	
Nobles	20,477	54	281	\$1,066,375	499	\$24,236	
Norman	7,085	51	70	\$1,920,300	182	\$49,238	

RUNS, DOLLAR LOSSES AND DEATHS BY COUNTY

County	Population	Fire Runs	Other Runs	Total County Dollar Loss	Fire Rate	Avg. Dollar Loss/Fire	Fire Deaths
Olmsted	133,283	247	10,584	\$1,430,778	567	\$6,088	4
Otter Tail	57,931	233	812	\$4,680,800	343	\$27,697	1
Pennington	13,545	50	189	\$360,575	282	\$7,512	
Pine	28,116	163	555	\$1,866,350	253	\$16,814	
Pipestone	9,579	28	83	\$94,600	416	\$4,113	
Polk	31,123	117	1,397	\$777,150	283	\$7,065	
Pope	11,227	54	114	\$3,102,700	255	\$70,516	
Ramsey	499,498	1,922	34,891	\$12,062,159	272	\$6,566	5
Red Lake	4,289	37	26	\$223,050	130	\$6,759	
Redwood	16,201	68	80	\$1,046,878	295	\$19,034	
Renville	16,701	59	47	\$4,047,320	341	\$82,598	
Rice	60,418	152	2,489	\$1,557,020	400	\$10,311	
Rock	9,579	33	125	\$496,000	63	\$17,103	
Roseau	16,308	50	82	\$572,850	418	\$14,688	
St. Louis	114,794	994	23,040	\$12,342,999	302	\$18,844	4
Scott	78,762	263	3,805	\$7,670,221	555	\$37,054	
Sherburne	15,230	168	1,390	\$2,258,715	583	\$16,731	
Sibley	198,136	48	203	\$654,750	435	\$18,707	
Stearns	141,055	513	8,284	\$9,182,092	325	\$21,157	
Steele	35,166	94	547	\$1,469,085	429	\$17,916	1
Stevens	9,935	19	41	\$552,000	662	\$36,800	
Swift	11,478	50	64	\$292,950	319	\$8,138	
Todd	24,647	117	338	\$1,270,550	277	\$14,276	
Traverse	3,871	38	15	\$77,000	43	\$2,484	
Wabasha	22,215	60	258	\$959,500	411	\$17,769	1
Wadena	13,603	62	230	\$218,300	289	\$4,645	
Waseca	19,270	72	802	\$995,501	482	\$24,888	
Washington	216,660	395	15,525	\$10,144,724	758	\$35,471	
Watonwan	11,390	57	118	\$472,300	308	\$12,765	
Wilkin	6,784	24	61	\$256,300	295	\$11,143	
Winona	49,046	113	2,610	\$1,496,117	490	\$14,961	1
Wright	106,889	331	3,095	\$4,788,010	467	\$20,908	
Yellow Medicine	10,580	31	36	\$639,250	378	\$22,830	
Total		16,167	275,289	\$259,063,192	383	\$19,427	43

FIRE DEPARTMENTS REPORTING IN 2016

Department	County	Fires	Non-Fires	Dollar Loss
Ada	Norman	16	31	\$1,074,000
Adams	Mower	8	27	\$5,600
Adrian	Nobles	3	88	\$150
Aitkin	Aitkin	20	51	\$577,300
Alaska	Beltrami	9	6	\$140,060
Albany	Stearns	13	193	\$160,000
Albert Lea	Freeborn	57	2,086	\$500,551
Albert Lea Township	Freeborn	7	43	\$90,000
Albertville	Wright	32	244	\$891,520
Alborn	St. Louis	7	50	\$145,000
Alden	Freeborn	5	60	\$4,500
Alexandria	Douglas	59	139	\$2,552,890
Almelund	Chisago	5	75	\$758,500
Alpha	Jackson	1	17	\$0
Altura	Winona	3	4	\$17,700
Alvarado	Marshall	4	31	\$21,000
Amboy	Blue Earth	6	50	\$0
Andover	Anoka	59	903	\$500,449
Annandale	Wright	13	206	\$189,500
Anoka-Champlin	Anoka	90	613	\$1,415,000
Apple Valley	Dakota	83	1,539	\$877,280
Appleton	Swift	9	13	\$1,200
Arco	Lincoln	0	0	\$0
Argyle	Marshall	8	32	\$0
Arlington	Sibley	14	26	\$106,150
Arrowhead	St. Louis	DID NOT REPORT		
Ashby	Grant	12	21	\$26,000
Askov	Pine	7	85	\$80,000
Atwater	Kandiyohi	5	25	\$600,500
Audubon	Becker	41	27	\$32,700
Aurora	St. Louis	13	24	\$25,700
Austin	Mower	51	903	\$470,600
Avon	Stearns	21	146	\$1,417,000
Babbitt	St. Louis	8	34	\$11,000
Backus	Cass	12	15	\$0
Badger	Roseau	7	0	\$40,000
Bagley	Clearwater	29	25	\$0
Balaton	Lyon	8	33	\$130,000

FIRE DEPARTMENTS REPORTING IN 2016

Department	County	Fires	Non-Fires	Dollar Loss
Balsam Vol.	Itasca	5	56	\$265,000
Barnesville	Clay	18	53	\$8,200
Barnum	Carlton	11	128	\$0
Barrett	Grant	6	29	\$125,000
Battle Lake	Ottertail	13	4	\$0
Baudette	Lake Of The Woods	1	8	\$2,000
Bayport	Washington	28	1,252	\$1,215,200
Bear Creek	Clearwater	0	0	\$0
Beardsley	Big Stone	5	5	\$30,000
Bearville Township	Itasca	1	9	\$0
Beaver Creek	Rock	4	21	\$5,500
Becker	Sherburne	22	395	\$159,605
Belgrade	Stearns	10	83	\$1,000
Belle Plaine	Scott	22	152	\$104,535
Bellingham	Lac Qui Parle	3	16	\$0
Beltrami	Polk	2	9	\$0
Belview	Redwood	6	4	\$1,000
Bemidji	Beltrami	107	2,088	\$1,269,527
Benson	Swift	17	29	\$0
Bertha	Todd	15	30	\$127,700
Bethel	Anoka	9	19	\$0
Big Falls	Koochiching	1	0	\$0
Big Lake	Sherburne	19	149	\$518,500
Bigelow	Nobles	8	14	\$28,000
Bigfork	Itasca	11	17	\$3,200
Birchdale	Sherburne	0	0	\$0
Bird Island	Renville	13	8	\$552,500
Biwabik	St. Louis	14	56	\$430,000
Biwabik Township	St. Louis	13	34	\$5,000
Blackduck	Beltrami	15	17	\$82,150
Blackhoof	Carlton	14	62	\$267,950
Blomkest	Kandiyohi	9	37	\$22,600
Blooming Prairie	Steele	11	43	\$10,500
Bloomington	Hennepin	185	1,591	\$1,238,756
Blue Earth	Faribault	16	65	\$141,300
Bluffton	Ottertail	3	6	\$0
Bois Forte	St. Louis	1	3	\$0
Borup	Norman	8	5	\$125,000

FIRE DEPARTMENTS REPORTING IN 2016

Department	County	Fires	Non-Fires	Dollar Loss
Bowlus	Morrison	9	1	\$247,500
Boyd	Lac Qui Parle	6	11	\$500
Braham	Isanti	7	8	\$91,500
Brainerd	Crow Wing	83	376	\$2,538,800
Brandon	Douglas	8	63	\$26,500
Breckenridge	Wilkin	10	11	\$56,300
Breitung Township	St. Louis	9	41	\$100
Brevator Township	St. Louis	7	0	\$0
Brewster	Nobles	5	43	\$79,875
Bricelyn	Faribault	5	7	\$212,000
Brimson	St. Louis	5	30	\$78,195
Brook Park	Pine	16	11	\$827,000
Brooklyn Center	Hennepin	111	1,874	\$1,096,230
Brooklyn Park	Hennepin	286	8,668	\$1,342,626
Brooten	Stearns	12	25	\$40,120
Browerville	Todd	23	29	\$34,450
Browns Valley	Traverse	12	6	\$7,500
Brownsdale	Mower	8	56	\$16,300
Brownsville	Houston	4	43	\$4,350
Brownton	McLeod	7	88	\$59,500
Bruno	Pine	7	5	\$55,500
Buffalo	Wright	31	213	\$232,700
Buffalo Lake	Renville	1	0	\$4,400
Buhl	St. Louis	4	14	\$1,000
Burnsville	Dakota	111	6,462	\$3,236,410
Butterfield	Watonwan	6	23	\$25,000
Buyck	St. Louis	2	12	\$0
Byron	Olmsted	13	71	\$530,000
Caledonia	Houston	13	58	\$125,500
Callaway	Becker	7	9	\$10,500
Campbell	Wilkin	DID NOT REPORT		
Cambridge	Isanti	35	221	\$217,050
Camp Ripley	Morrison	15	71	\$0
Canby	Yellow Medicine	17	6	\$565,250
Cannon Falls	Goodhue	16	284	\$31,000
Canosia Township	St. Louis	21	123	\$2,000
Canton	Fillmore	13	3	\$80,000
Carlos	Douglas	5	11	\$0

FIRE DEPARTMENTS REPORTING IN 2016

Department	County	Fires	Non-Fires	Dollar Loss
Carlton	Carlton	11	216	\$18,300
Carsonville	Becker	37	161	\$274,600
Carver	Carver	14	140	\$91,000
Cass Lake	Cass	46	57	\$351,200
Centennial	Anoka	25	391	\$252,828
Center City	Chisago	13	157	\$0
Central Lakes	St. Louis	6	20	\$0
Ceylon	Martin	5	4	\$254,700
Chain Of Lakes	Stearns	12	15	\$762,000
Chandler	Murray	3	8	\$0
Chanhassen	Carver	34	656	\$179,596
Chaska	Carver	42	708	\$345,500
Chatfield	Fillmore	10	31	\$342,200
Cherry Township	St. Louis	21	70	\$0
Chisago City	Chisago	7	54	\$100,003
Chisholm	St. Louis	33	102	\$148,006
Chokio	Stevens	2	5	\$0
Clara City	Chippewa	14	11	\$0
Claremont	Dodge	2	12	\$2,000,000
Clarissa	Todd	13	68	\$80,000
Clarkfield	Yellow Medicine	6	2	\$48,500
Clarks Grove	Freeborn	14	90	\$67,400
Clear Lake	Sherburne	13	186	\$0
Clearbrook	Clearwater	12	68	\$0
Clearwater	Wright	18	223	\$135,340
Clements	Redwood	1	1	\$0
Cleveland	Lesueur	11	61	\$166,500
Clifton Township	St. Louis	11	18	\$176,000
Climax	Polk	3	12	\$0
Clinton	Big Stone	2	8	\$1,000
Clinton Township	St. Louis	15	15	\$103,320
Clontarf	Swift	2	0	\$0
Cloquet Area	Carlton	34	2,952	\$188,550
Cohasset	Itasca	21	220	\$200
Cokato	Wright	29	94	\$230,950
Cold Spring	Stearns	12	269	\$80,000
Cologne	Carver	16	109	\$432,000
Columbia Heights	Anoka	76	2,683	\$367,050

FIRE DEPARTMENTS REPORTING IN 2016

Department	County	Fires	Non-Fires	Dollar Loss
Colvill Area	Cook	3	25	\$0
Colvin Township	St. Louis	4	10	\$0
Comfrey	Brown	10	2	\$5,000
Conger	Freeborn	2	2	\$10,000
Cook	St. Louis	13	33	\$1,000
Coon Rapids	Anoka	137	5,734	\$2,108,452
Correll	Big Stone	0	0	\$0
Cosmos	Meeker	10	10	\$246,751
Cottage Grove	Washington	31	2,878	\$683,700
Cotton Volunteer	St. Louis	6	41	\$23,000
Cottonwood	Lyon	9	16	\$0
Courtland	Nicollet	5	50	\$95,000
Crane Lake	St. Louis	0	17	\$0
Cromwell	Carlton	8	22	\$12,520
Crooked Lake Township	Cass	8	15	\$155,500
Crookston	Polk	26	255	\$168,500
Crosby	Crow Wing	16	47	\$33,500
Crosslake	Crow Wing	22	261	\$6,941,200
Culver	St. Louis	2	4	\$111,000
Currie	Murray	3	7	\$11,010
Cuyuna	Crow Wing	1	18	\$84,850
Cyrus	Pope	7	9	\$9,500
Dakota	Winona	4	75	\$0
Dalbo	Isanti	11	79	\$0
Dalton	Ottertail	7	53	\$0
Danube	Renville	2	3	\$0
Danvers	Swift	1	5	\$2,250
Darfur	Watsonwan	3	12	\$5,000
Dassel	Meeker	17	263	\$502,200
Dawson	Lac Qui Parle	14	10	\$1,000
Dayton	Hennepin	13	133	\$86,000
Deer Creek	Ottertail	12	54	\$163,000
Deer River	Itasca	42	44	\$302,203
Deerwood	Crow Wing	8	33	\$2,500
Degraff	Swift	8	0	\$253,000
Delano	Wright	29	498	\$290,800
Delavan	Faribault	0	10	\$0
Dent	Ottertail	9	17	\$21,750

FIRE DEPARTMENTS REPORTING IN 2016

Department	County	Fires	Non-Fires	Dollar Loss
Detroit Lakes	Becker	43	182	\$1,043,700
Dexter	Mower	6	0	\$8,000
Dilworth	Clay	22	45	\$1,632,000
Dodge Center	Dodge	6	220	\$84,800
Donnelly	Stevens	6	13	\$259,000
Dover	Olmsted	7	28	\$35,200
Dovray	Murray	1	0	\$0
Duluth	St. Louis	211	12,588	\$2,808,875
Dumont	Traverse	4	0	\$13,500
Dunnell-Lake Freemont	Martin	1	19	\$0
Duxbury	Pine	2	44	\$2,700
Eagan	Dakota	96	1,711	\$288,050
Eagle Bend	Todd	15	64	\$679,000
Eagle Lake	Blue Earth	8	130	\$0
Eagles Nest	St. Louis	7	35	\$302,000
East Bethel	Anoka	35	498	\$532,325
East Grand Forks	Polk	27	909	\$601,150
East Hubbard County	Hubbard	4	4	\$7,500
Easton	Faribault	4	16	\$3,500
Echo	Yellow Medicine	0	0	\$0
Eden Prairie	Hennepin	79	1,526	\$642,800
Eden Valley	Meeker	12	20	\$599,250
Edgerton	Pipestone	5	11	\$39,000
Edina	Hennepin	86	5,254	\$992,165
Eitzen	Houston	6	28	\$12,000
Elbow Lake	Grant	9	85	\$517,520
Elbow-Tulaby Lakes	Becker	5	8	\$0
Elgin	Wabasha	12	21	\$258,000
Elizabeth	Ottertail	12	32	\$0
Elk River	Sherburne	67	375	\$1,541,010
Ellendale	Steele	3	1	\$25,200
Ellsburg	St. Louis	7	14	\$0
Ellsworth	Nobles	4	24	\$11,500
Elmer	St. Louis	0	1	\$0
Elmore	Faribault	6	43	\$35,000
Elrosa	Stearns	6	22	\$0
Ely	St. Louis	4	168	\$400
Elysian	Lesueur	5	80	\$20,000

FIRE DEPARTMENTS REPORTING IN 2016

Department	County	Fires	Non-Fires	Dollar Loss
Embarrass	St. Louis	5	68	\$250
Emily	Crow Wing	13	11	\$1,975,600
Emmons	Freeborn	6	26	\$71,000
Erskine	Polk	10	69	\$1,500
Evansville	Douglas	9	56	\$7,000
Eveleth	St. Louis	25	113	\$1,800
Evergreen	St. Louis	4	4	\$0
Excelsior	Hennepin	49	706	\$355,460
Eyota	Olmsted	9	45	\$1,200
Fairfax	Renville	4	1	\$200,000
Fairmont	Martin	21	116	\$964,200
Falcon Heights	Ramsey	13	107	\$0
Faribault	Rice	83	2,265	\$716,620
Farmington	Dakota	49	652	\$532,725
Fayal	St. Louis	39	132	\$68,700
Federal Dam	Cass	0	1	\$0
Felton	Clay	8	0	\$31,500
Fergus Falls	Ottertail	41	151	\$2,159,350
Fertile	Polk	22	10	\$0
Fifty Lakes	Crow Wing	6	31	\$0
Finland	Lake	2	10	\$0
Finlayson	Pine	17	78	\$149,000
Fisher	Polk	0	18	\$0
Flensburg	Morrison	1	0	\$0
Floodwood	St. Louis	12	26	\$225,000
Foley	Benton	29	253	\$208,500
Forada Township	Douglas	14	41	\$40,000
Forest Lake	Washington	44	386	\$724,000
Foreston	Mille Lacs	9	63	\$170,700
Fosston	Polk	13	40	\$0
Fountain	Fillmore	3	2	\$1,000
Foxhome	Wilkin	1	0	\$200,000
Franklin	Renville	2	3	\$170,000
Frazee	Becker	23	38	\$1,114,100
Fredenberg Township	St. Louis	9	81	\$40,000
Freeborn	Freeborn	6	4	\$40,001
Freeport	Stearns	14	60	\$2
French Township	St. Louis	5	19	\$80,000

FIRE DEPARTMENTS REPORTING IN 2016

Department	County	Fires	Non-Fires	Dollar Loss
Fridley	Anoka	123	3,254	\$429,735
Frost	Faribault	3	1	\$356,000
Fulda	Murray	10	8	\$25,800
Garfield	Douglas	16	78	\$256,500
Garrison	Crow Wing	18	160	\$1,126,000
Garvin	Lyon	2	19	\$0
Gary	Norman	5	2	\$50,000
Gaylord	Sibley	13	27	\$291,000
Geneva	Freeborn	4	34	\$1,000
Ghent	Lyon	4	21	\$0
Gibbon	Sibley	2	0	\$500
Gilbert	St. Louis	1	6	\$0
Glencoe	McLeod	18	96	\$77,000
Glenville	Freeborn	16	55	\$66,675
Glenwood	Pope	25	75	\$2,774,200
Glyndon	Clay	18	45	\$47,000
Gnesen Township	St. Louis	9	105	\$0
Golden Valley	Hennepin	72	673	\$773,261
Gonvick	Clearwater	9	0	\$0
Good Thunder	Blue Earth	10	77	\$83,000
Goodhue	Goodhue	11	20	\$161,000
Goodland Township	Itasca	2	1	\$0
Goodridge	Pennington	4	0	\$0
Goodview	Winona	4	137	\$0
Graceville	Big Stone	2	16	\$0
Granada	Martin	4	2	\$35,000
Grand Lake Township	St. Louis	30	186	\$2,500
Grand Marais	Cook	6	16	\$5,000
Grand Meadow	Mower	16	38	\$0
Grand Portage	Itasca	0	0	\$0
Grand Rapids	Itasca	66	164	\$1,148,950
Granite Falls	Yellow Medicine	2	7	\$10,500
Greaney-Rauch-Silverdale	St. Louis	0	0	\$0
Green Isle	Sibley	3	35	\$500
Greenbush	Roseau	18	13	\$88,050
Greenway Township	Itasca	14	181	\$1,000
Greenwood Township	St. Louis	6	48	\$1,260,500
Grey Eagle	Todd	2	0	\$0

FIRE DEPARTMENTS REPORTING IN 2016

Department	County	Fires	Non-Fires	Dollar Loss
Grove City	Meeker	13	20	\$0
Grygla	Marshall	0	0	\$0
Gunflint Trail	Cook	0	3	\$0
Hackensack	Cass	10	24	\$187,500
Hallock	Kittson	8	23	\$0
Halstad	Norman	4	11	\$75,000
Ham Lake	Anoka	23	403	\$127,219
Hamburg	Carver	6	31	\$252,000
Hamel	Hennepin	5	152	\$5,000
Hancock	Stevens	1	2	\$42,000
Hanley Falls	Yellow Medicine	0	0	\$0
Hanover	Wright	18	182	\$181,500
Hanska	Brown	7	13	\$3,050,500
Hardwick	Rock	2	9	\$0
Harmony	Fillmore	9	9	\$35,100
Harris	Chisago	18	6	\$1,500
Hartland	Freeborn	1	0	\$0
Hastings	Dakota	71	462	\$1,257,650
Hawley	Clay	21	49	\$13,400
Hayfield	Dodge	17	26	\$481,250
Hayward	Freeborn	6	53	\$7,000
Hector	Renville	11	13	\$1,075,920
Henderson	Sibley	6	80	\$200,500
Hendricks	Lincoln	5	7	\$675,100
Hendrum	Norman	4	1	\$500
Henning	Ottertail	8	31	\$142,600
Herman	Grant	1	0	\$600,000
Hermantown	St. Louis	22	897	\$50,000
Heron Lake	Jackson	3	10	\$250
Hewitt	Todd	4	23	\$2,000
Hibbing	St. Louis	69	2,553	\$3,067,702
Hidden Valley	Winona	0	24	\$0
Hill City	Aitkin	4	26	\$23,500
Hills	Rock	2	42	\$0
Hinckley	Pine	30	48	\$0
Hitterdal	Clay	5	0	\$0
Hoffman	Grant	11	2	\$5,000
Hokah	Houston	7	29	\$150,000

FIRE DEPARTMENTS REPORTING IN 2016

Department	County	Fires	Non-Fires	Dollar Loss
Holdingford	Stearns	8	111	\$135,000
Holland	Pipestone	1	6	\$0
Hollandale	Freeborn	11	48	\$0
Hopkins	Hennepin	53	1,388	\$25,533,609
Houston	Houston	8	18	\$32,600
Hovland	Cook	1	30	\$0
Howard Lake	Wright	8	106	\$350,000
Hoyt Lakes	St. Louis	7	24	\$20,000
Hugo	Washington	30	208	\$0
Hutchinson	Mcleod	53	354	\$841,190
Ideal Township	Crow Wing	14	104	\$0
Industrial	St. Louis	7	21	\$4,200
International Falls	Koochiching	26	1,660	\$228,000
Inver Grove Heights	Dakota	82	1,248	\$1,005,575
Iona	Murray	1	0	\$0
Ironton	Crow Wing	2	2	\$100
Isanti	Isanti	41	761	\$87,430
Isle	Mille Lacs	12	31	\$799,050
Itasca Township	Clearwater	2	0	\$140,000
Ivanhoe	Lincoln	5	2	\$402,500
Jackson	Jackson	12	35	\$148,200
Jacobson	Aitkin	3	18	\$105,100
Janesville	Waseca	20	132	\$200,000
Jasper	Pipestone	4	10	\$200
Jeffers	Cottonwood	2	0	\$266,000
Jordan	Scott	15	114	\$228,000
Kabetogema	St. Louis	0	0	\$0
Kandiyohi	Kandiyohi	15	21	\$52,500
Karlstad	Kittson	13	44	\$27,000
Kasota	Lesueur	13	107	\$4,000
Kasson	Dodge	11	248	\$383,100
Keewatin	Itasca	20	82	\$0
Kelliher	Beltrami	5	17	\$20,500
Kellogg	Wabasha	5	3	\$96,000
Kelsey Township	St. Louis	0	0	\$0
Kennedy	Kittson	6	9	\$1,613,000
Kenneth	Rock	0	0	\$0
Kensington	Douglas	11	25	\$31,500

FIRE DEPARTMENTS REPORTING IN 2016

Department	County	Fires	Non-Fires	Dollar Loss
Kenyon	Goodhue	15	15	\$0
Kerkhoven	Swift	9	16	\$0
Kerrick	Pine	3	0	\$10,500
Kettle River	Carlton	15	6	\$18,800
Kiester	Faribault	5	1	\$7,000
Kilkenny	Lesueur	1	2	\$0
Kimball	Stearns	15	144	\$176,000
Kinney-Great Scott Township	St. Louis	1	2	\$0
Lacrescent	Houston	9	346	\$32,950
Lafayette	Nicollet	4	20	\$0
Lake Benton	Lincoln	6	7	\$0
Lake Bronson	Kittson	10	7	\$0
Lake City	Wabasha	17	67	\$131,300
Lake Crystal	Blue Earth	14	52	\$66,200
Lake Elmo	Washington	22	408	\$668,500
Lake George	Hubbard	1	0	\$0
Lake Henry	Stearns	4	12	\$40,000
Lake Johanna	Ramsey	42	3,109	\$1,934,476
Lake Lillian	Kandiyohi	3	9	\$2,500
Lake Park	Becker	19	26	\$0
Lake Wilson	Murray	5	4	\$23,000
Lakefield	Jackson	4	22	\$19,000
Lakeland Township	St. Louis	18	55	\$116,500
Lakeport	Hubbard	13	18	\$285,000
Lakeville	Dakota	102	1,244	\$1,171,688
Lakewood Township	St. Louis	19	73	\$51,350
Lamberton	Redwood	8	7	\$30,765
Lancaster	Kittson	6	4	\$0
Lanesboro	Fillmore	8	15	\$275,000
Lasalle	Watonwan	1	0	\$0
Leaf Valley Township	Douglas	1	1	\$0
Lecenter	Lesueur	17	40	\$249,300
Leroy	Mower	10	9	\$196,000
Lester Prairie	Mcleod	11	118	\$99,000
Lesueur	Lesueur	15	66	\$152,000
Lewiston	Winona	10	39	\$168,000
Lewisville	Watonwan	7	2	\$72,000
Lexington	Anoka	14	186	\$4,500

FIRE DEPARTMENTS REPORTING IN 2016

Department	County	Fires	Non-Fires	Dollar Loss
Lino Lakes	Anoka	14	42	\$0
Lindstrom	Chisago	37	379	\$751,210
Linwood Township	Anoka	11	219	\$220,500
Lismore	Nobles	3	0	\$200
Litchfield	Meeker	46	85	\$95,800
Little Canada	Ramsey	56	188	\$171,500
Little Falls	Morrison	40	66	\$1,141,800
Littlefork	Koochiching	14	6	\$90,950
Loman	Koochiching	1	1	\$0
London Township	Freeborn	3	5	\$48,000
Long Lake	Hennepin	39	371	\$16,200
Long Prairie	Todd	31	78	\$263,000
Longville	Cass	16	23	\$75,500
Lonsdale	Rice	6	3	\$3,000
Loretto	Hennepin	21	179	\$554,000
Lower St. Croix Valley	Washington	18	405	\$736,000
Lowry	Pope	7	6	\$20,000
Lucan	Redwood	0	1	\$0
Lutsen	Cook	4	26	\$0
Luverne	Rock	22	40	\$355,500
Lyle	Mower	5	12	\$100,000
Lynd	Lyon	0	0	\$0
Mabel	Fillmore	14	12	\$141,305
Madelia	Watsonwan	17	19	\$332,800
Madison	Lac Qui Parle	12	9	\$102,000
Madison Lake	Blue Earth	2	84	\$0
Magnolia	Rock	3	13	\$135,000
Mahnomen	Mahnomen	23	15	\$0
Mahtomedi	Washington	22	841	\$204,400
Mahtowa	Carlton	18	39	\$27,400
Makinen	St. Louis	2	0	\$0
Manchester	Freeborn	4	1	\$1,000
Mankato	Blue Earth	112	2,740	\$773,570
Mantorville	Dodge	2	87	\$10,000
Maple Grove	Hennepin	103	793	\$1,544,650
Maple Hill	Cook	5	5	\$0
Maple Lake	Wright	24	96	\$314,950
Maple Plain	Hennepin	20	277	\$724,400

FIRE DEPARTMENTS REPORTING IN 2016

Department	County	Fires	Non-Fires	Dollar Loss
Mapleton	Blue Earth	8	165	\$0
Maplewood	Ramsey	87	5,285	\$695,250
Marietta	Lac Qui Parle	2	1	\$15,000
Marine on St. Croix	Washington	6	63	\$0
Marshall	Lyon	46	125	\$582,250
Mayer	Carver	20	84	\$292,500
Maynard	Chippewa	8	17	\$322,000
Mazeppa	Wabasha	8	4	\$151,100
Mcdavitt	St. Louis	10	14	\$578,400
Mcgrath	Aitkin	4	4	\$0
Mcgregor	Aitkin	17	58	\$250,000
Mcintosh	Polk	5	36	\$0
Mckinley	St. Louis	1	1	\$6,000
Mdewakanton	Scott	17	1,751	\$10,000
Meadowlands	St. Louis	10	7	\$280,000
Medford	Steele	12	128	\$24,050
Medicine Lake	Hennepin	3	7	\$93,501
Melrose	Stearns	18	80	\$2,725,500
Menahga	Wadena	10	14	\$0
Mendota Heights	Dakota	10	262	\$208,750
Mentor	Polk	7	39	\$6,000
Middle River	Marshall	15	6	\$75,000
Miesville	Dakota	6	62	\$0
Milaca	Mille Lacs	24	68	\$422,000
Milan	Chippewa	2	1	\$0
Millerville	Douglas	7	7	\$11,000
Milroy	Redwood	2	5	\$100,000
Miltona	Douglas	9	73	\$40,500
Minneapolis	Hennepin	1,219	44,706	\$8,421,840
Minneota	Lyon	8	14	\$44,000
Minnesota City	Winona	3	4	\$0
Minnesota Lake	Faribault	1	3	\$11,000
Minnetonka	Hennepin	47	2,969	\$2,698,895
Mission Township	Crow Wing	16	75	\$487,500
Montevideo	Chippewa	21	43	\$100,600
Montgomery	Lesueur	7	55	\$286,500
Monticello	Wright	43	228	\$479,700
Montrose	Wright	24	199	\$680,000

FIRE DEPARTMENTS REPORTING IN 2016

Department	County	Fires	Non-Fires	Dollar Loss
Moorhead	Clay	68	3,290	\$774,785
Moose Lake	Carlton	21	431	\$0
Mora	Kanabec	38	52	\$3,211,300
Morgan	Redwood	6	2	\$353,000
Morris	Stevens	10	21	\$251,000
Morristown	Rice	5	6	\$900
Morse Fall Lake	St. Louis	1	0	\$21,500
Morton	Renville	2	0	\$606,500
Motley	Morrison	19	152	\$45,900
Mound	Hennepin	49	539	\$839,575
Mountain Iron	St. Louis	41	76	\$226,500
Mountain Lake	Cottonwood	4	21	\$1,025,000
MSP International Airport	Hennepin	38	2,714	\$55,200
Murdock	Swift	4	1	\$36,500
Myrtle	Freeborn	4	9	\$2,000
Nashwauk	Itasca	12	31	\$170,794
Nassau	Lac Qui Parle	0	0	\$0
Nerstrand	Rice	2	3	\$0
Nevis	Hubbard	2	0	\$99,000
New Auburn	Sibley	5	26	\$30,000
New Brighton	Ramsey	79	230	\$664,555
New Germany	Carver	11	46	\$115,000
New London	Kandiyohi	20	54	\$817,900
New Market	Scott	16	263	\$3,607,000
New Munich	Stearns	0	15	\$0
New Prague	Scott	22	114	\$140,000
New Richland	Waseca	14	41	\$30,000
New Ulm	Brown	36	94	\$1,320,505
New York Mills	Ottertail	17	181	\$124,000
Newfolden	Marshall	9	6	\$166,000
Newport	Washington	17	104	\$543,750
Nicollet	Nicollet	12	93	\$1,060,100
Nielsville	Polk	1	0	\$0
Nisswa	Crow Wing	26	247	\$311,500
Nodine	Winona	5	60	\$10,000
Normanna Township	St. Louis	7	12	\$0
North Branch	Chisago	40	113	\$379,600
North Mankato	Nicollet	22	85	\$56,250

FIRE DEPARTMENTS REPORTING IN 2016

Department	County	Fires	Non-Fires	Dollar Loss
North St. Paul	Ramsey	36	1,207	\$200,000
North Star	St. Louis	3	9	\$1,000
Ne Sherburne	Sherburne	8	147	\$33,600
Northfield	Rice	56	212	\$836,500
Northland Township	St. Louis	5	3	\$0
Northome	Koochiching	7	7	\$0
Northrop	Martin	1	0	\$0
Northwest Angle	Lake Of The Woods	0	0	\$0
Norwood-Young America	Carver	19	231	\$100,000
Oak Grove	Anoka	28	144	\$535,672
Oakdale	Washington	65	2,518	\$1,210,333
Odessa	Big Stone	5	4	\$8,000
Odin	Watonwan	5	27	\$0
Ogema	Becker	21	5	\$88,300
Ogilvie	Kanabec	15	17	\$20,000
Okabena	Jackson	1	7	\$0
Oklee	Red Lake	14	4	\$174,650
Olivia	Renville	15	12	\$24,700
Onamia	Mille Lacs	21	47	\$551,197
Ormsby	Watonwan	5	15	\$0
Oronoco	Olmsted	0	3	\$0
Orr	St. Louis	5	12	\$0
Ortonville	Big Stone	10	35	\$129,000
Osakis	Douglas	21	26	\$894,000
Oslo	Marshall	1	17	\$0
Osseo	Hennepin	7	299	\$0
Ostrander	Fillmore	4	4	\$0
Ottertail	Ottertail	3	0	\$0
Owatonna	Steele	68	375	\$1,409,335
Palisade	Aitkin	8	37	\$0
Palo Township	St. Louis	13	65	\$2,700
Park Rapids	Hubbard	42	40	\$473,572
Parkers Prairie	Ottertail	7	6	\$0
Paynesville	Stearns	23	92	\$1,327,400
Pelican Rapids	Ottertail	26	39	\$1,000
Pemberton	Blue Earth	3	23	\$0
Pennock	Kandiyohi	3	11	\$0
Pequaywan Lake	St. Louis	0	11	\$0

FIRE DEPARTMENTS REPORTING IN 2016

Department	County	Fires	Non-Fires	Dollar Loss
Pequot Lakes	Crow Wing	24	52	\$280,350
Perham	Ottertail	27	120	\$1,843,100
Perley-Lee Township	Norman	2	8	\$0
Pickwick Area	Winona	7	64	\$6,300
Pierz	Morrison	22	38	\$250,910
Pike-Sandy-Britt	St. Louis	15	97	\$34,500
Pillager	Cass	26	249	\$798,850
Pine City	Pine	43	135	\$175,350
Pine Island	Goodhue	20	310	\$1,500
Pine River	Cass	22	229	\$41,800
Pipestone	Pipestone	10	46	\$25,900
Plainview	Wabasha	7	28	\$305,000
Plato	Mcleod	5	36	\$133,500
Plummer	Red Lake	12	15	\$39,900
Plymouth	Hennepin	203	1,318	\$4,303,350
Porter	Yellow Medicine	4	15	\$15,000
Preston	Fillmore	4	10	\$2,000,000
Princeton	Mille Lacs	54	258	\$528,300
Prinsburg	Kandiyohi	4	6	\$0
Prior Lake	Scott	40	400	\$1,319,601
Proctor	St. Louis	17	345	\$205,100
Ramsey	Anoka	45	453	\$1,125,000
Randall	Morrison	13	71	\$0
Randolph-Hampton	Dakota	13	146	\$15,000
Range Regional Airport-ARFF	St. Louis	0	1	\$0
Raymond	Kandiyohi	3	0	\$10,000
Red Lake Falls	Red Lake	11	7	\$8,500
Red Lake Bureau of Indian Affairs	Beltrami	DID NOT REPORT		
Red Wing	Goodhue	27	611	\$366,600
Redwood Falls	Redwood	23	46	\$434,413
Remer	Cass	4	13	\$25,000
Renville	Renville	3	1	\$0
Rice	Benton	11	170	\$151,350
Rice Lake Township	St. Louis	21	194	\$42,000
Richfield	Hennepin	86	3,987	\$531,766
Richmond	Stearns	4	111	\$0
Ridgeway Community	Winona	7	3	\$20,000
Robbinsdale	Hennepin	46	269	\$1,641,230

FIRE DEPARTMENTS REPORTING IN 2016

Department	County	Fires	Non-Fires	Dollar Loss
Rochester Airport	Olmsted	0	32	\$0
Rochester	Olmsted	193	9,920	\$778,628
Rockford	Wright	14	294	\$122,000
Rockville	Stearns	11	85	\$51,200
Rogers	Hennepin	51	431	\$1,317,620
Rollingstone	Winona	2	0	\$325,000
Rose Creek	Mower	4	3	\$0
Roseau	Roseau	12	44	\$158,500
Rosemount	Dakota	17	668	\$996,000
Roseville	Ramsey	111	4,877	\$976,400
Rothsay	Wilkin	13	50	\$0
Round Lake	Nobles	0	0	\$0
Royalton	Morrison	9	20	\$65,000
Rush City	Chisago	30	50	\$197,900
Rushford	Fillmore	14	28	\$1,909,400
Rushmore	Nobles	4	36	\$0
Russell	Lyon	4	3	\$0
Ruthton	Pipestone	4	7	\$4,500
Sabin-Elmwood	Clay	10	62	\$22,500
Sacred Heart	Renville	6	6	\$1,413,300
Sanborn	Redwood	3	5	\$0
Sandstone	Pine	15	31	\$481,300
Sartell-Lesauk	Stearns	19	141	\$332,000
Sauk Centre	Stearns	23	71	\$0
Sauk Rapids	Benton	35	136	\$524,450
Savage	Scott	39	312	\$91,900
Sbm	Anoka	122	1,025	\$1,097,766
Scandia	Washington	15	185	\$18,750
Scandia Valley	Morrison	5	22	\$10,630
Schroeder	Cook	DID NOT REPORT		
Seaforth	Redwood	3	0	\$0
Sebeka	Wadena	22	126	\$25,000
Sedan	Pope	3	1	\$50,000
Shafer-Franconia	Chisago	6	96	\$1,000
Shakopee	Scott	92	699	\$2,169,185
Shelly	Norman	1	0	\$0
Sherburn	Martin	2	18	\$25,000
Shevlin	Clearwater	10	9	\$100,100

FIRE DEPARTMENTS REPORTING IN 2016

Department	County	Fires	Non-Fires	Dollar Loss
Silica Area	St. Louis	0	2	\$0
Silver Bay	Lake	6	44	\$0
Silver Lake	McLeod	11	140	\$283,000
Slayton	Murray	8	13	\$624,721
Sleepy Eye	Brown	9	7	\$174,000
Solway	Beltrami	10	17	\$68,000
Solway Township	St. Louis	8	103	\$0
South Bend	Blue Earth	6	30	\$300,000
South Haven	Wright	14	82	\$87,500
South Metro	Dakota	110	5,684	\$775,756
Spicer	Kandiyohi	21	39	\$112,000
Spring Grove	Houston	9	10	\$143,000
Spring Valley	Fillmore	17	35	\$803,800
Springfield	Brown	9	13	\$275,715
Squaw Lake	Itasca	4	63	\$0
St. Anthony	Hennepin	14	1,520	\$27,100
St. Augusta	Stearns	10	81	\$285,500
St. Bonifacius	Hennepin	16	124	\$3,547,100
St. Charles	Winona	8	22	\$0
St. Clair	Blue Earth	16	105	\$336,000
St. Cloud	Stearns	191	5,714	\$1,293,370
St. Francis	Anoka	10	93	\$1,000
St. Hillaire	Pennington	6	36	\$0
St. James	Watonwan	13	20	\$37,500
St. John's University	Stearns	7	259	\$0
St. Joseph	Stearns	23	328	\$333,500
St. Leo	Yellow Medicine	0	0	\$0
St. Louis Park	Hennepin	135	4,917	\$426,477
St. Martin	Stearns	3	31	\$0
St. Michael	Wright	25	307	\$549,000
St. Paul	Ramsey	1,386	18,380	\$6,963,348
St. Paul Park	Washington	18	82	\$20,000
St. Peter	Nicollet	15	56	\$408,500
St. Stephen	Stearns	10	65	\$22,500
Stacy	Chisago	14	44	\$238,400
Staples	Todd	14	46	\$84,400
Starbuck	Pope	8	23	\$0
Stephen	Marshall	10	12	\$110,200

FIRE DEPARTMENTS REPORTING IN 2016

Department	County	Fires	Non-Fires	Dollar Loss
Stewart	McLeod	6	11	\$5,500
Stewartville	Olmsted	25	485	\$85,750
Stillwater	Washington	43	1,783	\$1,881,725
Storden	Cottonwood	2	0	\$10,500
Sturgeon Lake	Pine	9	19	\$85,000
Sunburg	Kandiyohi	4	6	\$300
Swanville	Morrison	3	0	\$0
Taconite	Itasca	6	50	\$10,500
Taunton	Lyon	1	0	\$0
Taylors Falls	Chisago	4	23	\$50
Thief River Falls	Pennington	40	153	\$360,575
Thomson Township-Esko	Carlton	13	208	\$24,500
Tintah	Traverse	4	3	\$15,000
Tofte	Cook	0	0	\$0
Toivola Township	St. Louis	10	10	\$0
Tower	St. Louis	15	46	\$150
Tracy	Lyon	10	50	\$8,000
Trimont	Martin	3	7	\$201,500
Trout Lake	Itasca	21	200	\$71,350
Truman	Martin	13	7	\$1,021,700
Twin Lakes	Freeborn	3	8	\$0
Twin Lakes Volunteer	Mahnomen	21	6	\$135,750
Twin Valley	Norman	11	12	\$595,800
Two Harbors	Lake	18	90	\$1,852,600
Tyler	Lincoln	4	4	\$500
Ulen	Clay	7	4	\$616,000
Underwood	Ottertail	16	101	\$0
Upsala	Morrison	3	9	\$60,000
U.S.S. Emergency Services	St. Louis	20	134	\$300,100
Vadnais Heights	Ramsey	31	1,040	\$42,000
Vergas	Ottertail	29	14	\$226,000
Vermillion Lake	St. Louis	8	23	\$129,000
Verndale	Wadena	16	64	\$0
Vernon Center	Blue Earth	3	40	\$2,900
Vesta	Redwood	3	0	\$1,700
Victoria	Carver	31	247	\$436,047
Viking	Marshall	6	0	\$70,000
Villard	Pope	4	0	\$249,000

FIRE DEPARTMENTS REPORTING IN 2016

Department	County	Fires	Non-Fires	Dollar Loss
Vining	Ottertail	3	3	\$0
Virginia	St. Louis	50	3,906	\$1,155,951
Wabasha	Wabasha	4	35	\$1,600
Wabasso	Redwood	8	4	\$103,600
Waconia	Carver	26	374	\$811,300
Wadena	Wadena	14	26	\$193,300
Waite Park	Stearns	44	131	\$0
Waldorf	Waseca	9	32	\$328,500
Walker	Cass	15	20	\$4,700
Walnut Grove	Redwood	4	3	\$21,000
Walters	Faribault	3	4	\$0
Wanamingo	Goodhue	13	7	\$348,400
Wanda	Redwood	1	2	\$1,400
Warba-Feeley-Sago	Itasca	8	52	\$10,700
Warren	Marshall	16	23	\$245,000
Warroad	Roseau	13	25	\$286,300
Waseca	Waseca	29	597	\$437,001
Watertown	Carver	38	292	\$464,300
Waterville	Lesueur	6	139	\$83,000
Watkins	Meeker	5	4	\$530,000
Watson	Chippewa	3	0	\$0
Waubun	Mahnomen	8	11	\$500
Waverly	Wright	9	123	\$52,550
Wayzata	Hennepin	30	265	\$8,600
Welcome	Martin	0	0	\$0
Wells	Faribault	11	21	\$296,900
Wendell	Grant	6	21	\$2,000
West Concord	Dodge	8	15	\$80,000
West Metro	Hennepin	110	1,459	\$1,616,244
Westbrook	Cottonwood	1	5	\$370,000
Wheaton	Traverse	18	6	\$41,000
White Bear Lake	Ramsey	78	468	\$414,630
White Earth	Becker	DID NOT REPORT		
Williams	Lake Of The Woods	4	4	\$31,000
Willmar	Kandiyohi	61	259	\$1,543,800
Willow River	Pine	14	99	\$0
Wilmont	Nobles	5	28	\$39,450
Wilson Township	Winona	7	2	\$391,000

FIRE DEPARTMENTS REPORTING IN 2016				
Department	County	Fires	Non-Fires	Dollar Loss
Windom	Cottonwood	17	44	\$0
Winger	Polk	1	0	\$0
Winnebago	Faribault	9	25	\$189,000
Winona	Winona	53	2,176	\$558,117
Winsted	McLeod	8	253	\$3,000
Winthrop	Sibley	5	9	\$26,100
Wolf Lake	Becker	24	14	\$75,000
Wolverton	Wilkin	0	0	\$0
Wood Lake	Yellow Medicine	2	6	\$0
Woodbury	Washington	36	4,412	\$2,238,366
Woodstock	Pipestone	4	3	\$25,000
Worthington	Nobles	22	48	\$907,200
Wrenshall	Carlton	1	0	\$120,000
Wykoff	Fillmore	3	4	\$70,000
Wyoming	Chisago	18	252	\$139,000
Zimmerman-Livonia	Sherburne	39	138	\$6,000
Zumbro Falls	Wabasha	7	100	\$16,500
Zumbrota	Goodhue	11	21	\$46,500
Total		16,164	275,290	\$259,063,192

Thank you
to the Minnesota fire departments that
provided data in 2016 and to those who
provided photos for this report.







Minnesota Department of Public Safety
State Fire Marshal Division
sfm.dps.mn.gov

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