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ANNUAL REPORT



Partnering with the Fire Service to Protect Illinois



MESSAGE FROM THE STATE FIRE MARSHAL



**To Governor JB Pritzker, the Honorable Members of the General Assembly,
and the Citizens of the State of Illinois:**

It is my honor to present the 2018 Annual Report for the Office of the Illinois State Fire Marshal (OSFM).

Even though OSFM plays a large role in public safety and in the fire service in the State of Illinois, we maintain a lower profile than most state agencies. That is due in large part to the quiet professionals in our office who work competently, efficiently and tirelessly, with little fanfare, to carry out the wide-ranging mission of OSFM.

Although our staff is small, you will see after reading this Annual Report our responsibilities are massive. I am proud to continue to have the opportunity to oversee the men and women who are dedicated to carrying out the responsibilities of this office to ensure that the citizens of Illinois remain safe and that our firefighters have the training, equipment, tools and education they need.

A handwritten signature in black ink, appearing to read "Matt Perez".

Matt Perez
State Fire Marshal

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Agency Overview

History

The Office of the Illinois State Fire Marshal was created through an Act of the General Assembly on June 15, 1909. The Act required the Governor to appoint a State Fire Marshal who would be responsible for overseeing the agency. The initial charge to the agency was to inspect buildings to ensure they were safe from dangerous conditions, as well as to conduct cause and origin investigations of fires and, if evidence existed, to require the arrest of individuals for the crime of arson. To fund the operations of the agency, the General Assembly established a tax to be paid by insurance companies on the gross premium receipts collected on fire insurance policies. This tax still exists today and remains the primary funding source for the agency.

Over the course of the next century, the mission of the Office of the Illinois State Fire Marshal was expanded to require the agency to ensure the safety of Illinois citizens from other potential dangers, including regulating boilers and pressure vessels, elevators, fire prevention related industries, pyrotechnics, and underground and aboveground storage tanks, as well as by providing education, training and certifications to firefighters who choose to participate in such programs. Additionally, the agency makes grants and loans available to the fire service for training and equipment needs.

Today the agency is responsible for meeting or enforcing mandates contained in more than 40 state and federal statutes as well as the numerous rules associated with those statutes.

To learn more about the Office of the Illinois State Fire Marshal visit our website at www.sfm.illinois.gov. You can see a short video about our office at <https://www2.illinois.gov/sites/sfm/About/Pages/OSFM-Video.aspx>.



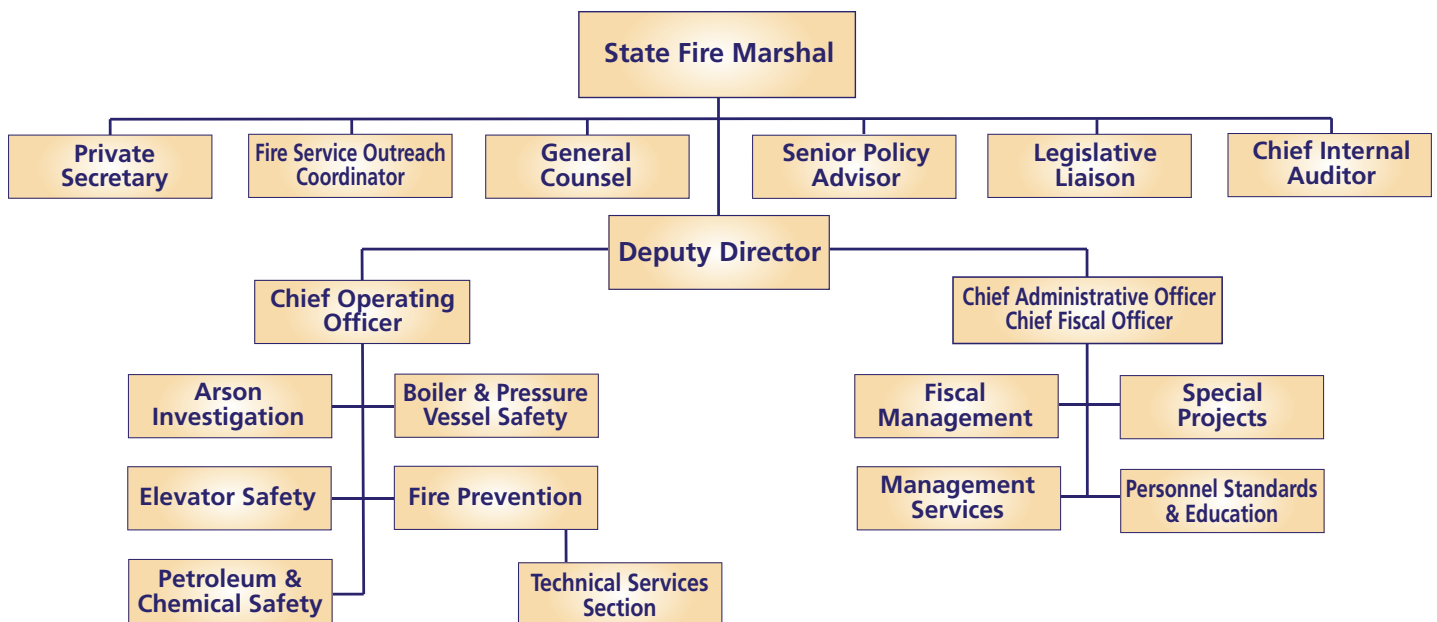
Mission Statement

The Office of the Illinois State Fire Marshal is dedicated to working with our partners and providing assistance to the fire service in the protection of life, property and the environment, through communication, inspection, investigation, certification, and licensing.

Core Values

- Integrity
- Commitment to Excellence
- Service
- Respect
- Teamwork

Organizational Structure



Financial Information

\$ Actual	FY18 Expenditures	FY19 Appropriation
Fire Prevention Fund (047)		
Personal Services	\$7,936,249	\$9,884,800
Retirement	\$4,048,274	\$4,962,300
Social Security	\$520,434	\$651,200
Group Insurance	\$1,640,453	\$2,832,000
Subtotal - Personal Services and Related	\$14,145,411	\$18,330,300
Contractual Services	\$1,261,372	\$1,150,100
Travel	\$89,435	\$72,700
Commodities	\$79,233	\$53,700
Printing	\$27,719	\$19,600
Equipment	\$1,384,410	\$602,200
Electronic Data Processing	\$1,759,556	\$1,957,000
Telecommunications	\$336,872	\$193,400
Operation of Automotive Equipment	\$140,681	\$181,200
Refunds	\$655	\$5,000
Subtotal - Other Operations	\$5,079,935	\$4,234,900
Public Safety Shared Services Center	\$637,457	\$679,900
Online Firefighter Certification Testing	\$649	\$590,000
Subtotal - Lump Sums	\$638,106	\$1,269,900
Chicago Firefighter Training Grant	\$2,747,000	\$2,801,700
Cornerstone	\$0	\$350,000
Explorer-Cadet School	\$0	\$65,000
Firefighter Training Programs - Illinois Fire Service Institute	\$0	\$230,000
Firefighter Training Reimbursement	\$950,000	\$950,000
Hazmat Emergency Response Reimbursement	\$0	\$10,000
Mutual Aid Box Alarm System	\$125,000	\$125,000
New Fire District Grant	\$0	\$500
Senior Officer Training	\$0	\$55,000
Small Equipment Grant	\$2,289,921	\$0
Subtotal - Grants	\$6,111,921	\$4,587,200
Total - Fire Prevention Fund (047)	\$25,975,372	\$28,422,300

Financial Information

\$ Actual	FY18 Expenditures	FY19 Appropriation
Underground Storage Tank Fund (072)		
Personal Services	\$1,835,089	\$1,992,400
Retirement	\$939,236	\$1,018,100
Social Security	\$135,833	\$150,900
Group Insurance	\$384,292	\$624,000
Subtotal - Personal Services and Related	\$3,294,451	\$3,785,400
Contractual Services	\$216,785	\$231,800
Travel	\$8,242	\$6,800
Commodities	\$4,175	\$9,000
Printing	\$50	\$3,500
Equipment	\$16,000	\$92,000
Electronic Data Processing	\$9,994	\$10,500
Telecommunications	\$19,795	\$19,000
Operation of Automotive Equipment	\$37,761	\$67,100
Refunds	\$3,100	\$14,000
Subtotal - Other Operations	\$315,902	\$453,700
Chicago Underground Storage Tank Program	\$550,000	\$550,000
Subtotal - Grants	\$550,000	\$550,000
Total - Underground Storage Tank Fund (072)	\$4,160,352	\$4,789,100
Fire Fighter Memorial Fund (510)		
Firefighter Memorial Foundation and Fire Museum Maintenance	\$135,248	\$300,000
Total - Fire Fighter Memorial Fund (510)	\$135,248	\$300,000
Fire Prevention Division Fund (580)		
U.S. EPA Underground Storage Tank Program Grant	\$632,805	\$1,000,000
Total - Fire Prevention Division Fund (580)	\$632,805	\$1,000,000
TOTAL - ALL FUNDS	\$30,903,777	\$34,511,400
General Funds	\$0	\$0
Other State Funds	\$30,270,972	\$33,511,400
Federal Funds	\$632,805	\$1,000,000

REVENUE Calendar Year 2018

Insurance Taxes	\$28,173,356
Fees and Fines*	\$5,388,192
Miscellaneous	\$388,309
Federal	\$616,755
Total	\$34,566,612

*Does not include \$1.4 million in boiler fees collected by OSFM that are deposited into the General Revenue Fund, but unavailable for OSFM use.

Strategic Plan

In 2018 the State Fire Marshal, agency executive staff, and agency managers engaged in a process to develop a 10-Year Strategic Plan for the Office of the Illinois State Fire Marshal. Taking the time to create a strategic plan is vital to the continued success of any agency as it provides a sense of direction and outlines measurable goals. The agency released its Strategic Plan (2019-2029) in December 2018.

OSFM will work on achieving four main goals over the next 10 years. Those strategic goals are:

- **Improving Staff Competency By Investing In Them** - We will increase training opportunities for all OSFM staff and consequently achieve greater competency, expertise, and resiliency within our agency.
- **Enhance Our Ability To Communicate With Our Partners and Stakeholders** - We will increase our public outreach efforts and capitalize on those relationships with our industry partners and stakeholders.
- **Increase Our Productivity And Efficiency** - We will reduce inefficiencies, adjust our staffing levels as necessary, and leverage Information Technology to our advantage.
- **Advance Public Safety Interests By Assessing Emerging Threats And Vulnerabilities** - We will monitor and assess developing threats and weaknesses that impact fire prevention, life safety, and the Illinois Fire Service.

The agency outlined 21 specific objectives and courses of action to be taken to meet the goals laid out in the Strategic Plan. OSFM will review this plan annually to ensure that our agency remains on track with the stated objectives and goals.

A copy of the agency's Strategic Plan can be found on our website at <https://www2.illinois.gov/sites/sfm/SFMDocuments/Documents/OSFMStrategicPlan2019-2029.pdf>.

Grants and Loans

Small Fire-Fighting and Ambulance Service Equipment Grant Program

The Small Fire-Fighting and Ambulance Service Equipment Grant Program provides grants of up to \$26,000 for the purchase of small firefighting and ambulance equipment by a fire department, fire protection district, township fire department, or a volunteer, non-profit, stand-alone ambulance service. Applicants who are fire departments are required to have fully participated in the National Fire Incident Reporting System (NFIRS) for a minimum of two years immediately prior to the date of the grant application. Applications are assessed by a blind review process by a committee who recommend grant awards based on equipment need and financial need.

In Fiscal Year 2018 the agency awarded \$2.3 million in grants to 101 fire departments and ambulance services across the state.

0% and Low-Interest Revolving Loan Programs

The Fire Truck Revolving Loan Program provides interest-free and low-interest loans for the purchase of fire trucks or brush trucks by a fire department, fire protection district, or township fire department. Loans for fire trucks may not exceed \$350,000 and must be repaid within 20 years. Loans for brush trucks may not exceed \$100,000 and must be repaid within 10 years.

The Ambulance Revolving Loan Program provides interest-free and low-interest loans for the purchase of ambulances by a fire department, fire protection district, township fire department, or non-profit ambulance service. Loans may not exceed \$200,000 and must be repaid within 10 years.

Applicants who are fire departments are required to have fully participated in the National Fire Incident Reporting System (NFIRS) for a minimum of two years immediately prior to the date of the loan. Eligible applications are assessed by blind review process by a committee who recommend loans based on equipment need and financial need. Applications recommended for funding are forwarded to the Illinois Finance Authority for an evaluation of creditworthiness prior to funding a loan. In Fiscal Year 2018 the agency offered the Fire Truck Revolving Loan and the Ambulance Revolving Loan Programs. Twenty-six Fire Truck applications were received and sixteen Ambulance applications were received. Applications are under review by the OSFM committee and by our partner agency, the Illinois Finance Authority.

Fire Service Outreach

Fire Equipment Exchange Program

The Fire Equipment Exchange Program provides a way in which fire departments, fire protection districts, and township fire departments can donate or sell equipment to, trade equipment with, or buy equipment from each other. The agency maintains a website that allows fire departments, fire protection districts, and township fire departments to post information and photographs about needed equipment and equipment that is available for trade, donation, or sale. The website may be found at <http://fireequipmentexchange.sfm.illinois.gov/>.



"Be Alarmed!" Smoke Alarm Program

"Be Alarmed!" is a fire safety education and smoke alarm installation program administered cooperatively between the Office of the Illinois State Fire Marshal and the Illinois Fire Safety Alliance. The program distributes fire safety education materials and 10-year concealed battery smoke alarms to fire departments in the State of Illinois. The fire departments then deliver the education and install smoke alarms in at-risk homes within their communities. Both the educational materials and smoke alarms are provided to fire departments at no cost.

In 2018 there were 4,600 smoke alarms distributed to 99 fire departments throughout the state. Just under 3,000 of those alarms were installed in 980 homes. Of the alarms that were replaced in homes, 80% were non-functional or expired.

Illinois Fallen Firefighter Memorial and Firefighter Medal of Honor Awards Ceremony

On May 8th, 2018, the 25th Annual Firefighter Memorial and Medal of Honor ceremony was held in Springfield. Firefighters from across the state gathered to remember Illinois firefighters that have made the ultimate sacrifice in the line of duty. The families of two firefighters – Firefighter John "Mike" Cummins (Homer Fire Protection District) and Firefighter Lawrence Matthews (Village of Dolton Fire Department) – were presented the Line of Duty Death Gold Badge by the State Fire Marshal.



The Medal of Honor, the highest award given to firefighters by the State of Illinois, was awarded to two firefighters – Lieutenant Eric Schrage (Collinsville Fire Department) and Paramedic Todd Zobrist (Highland Fire/EMS) – for their acts of outstanding bravery or heroism, by which they demonstrated selflessness and personal courage above and beyond the call of duty, under adverse conditions with the possibility of extreme personal risk.

The Medal of Valor was awarded to nine firefighters for acts of heroism or bravery that clearly demonstrated courage and dedication in the face of danger. Those awarded the Medal of Valor Award were:

- Captain Daniel Whiteside - Alton Fire Department
- Lieutenant Shawn Schadle - Belvidere Fire Department
- Firefighter Aaron Pihl - Belvidere Fire Department
- Firefighter Jeff Vaughan - Belvidere Fire Department

- Lieutenant/EMT John O'Brien - Chicago Fire Department
- Firefighter Eric Claudio - Chicago Fire Department
- Firefighter/Paramedic Andrew Hoff - Downers Grove Fire Department
- Firefighter/Paramedic Scott Sohn - Downers Grove Fire Department
- Firefighter/Paramedic Quinn Triplett - Downers Grove Fire Department



The Firefighter Excellence Award, which is given for an act of service in the line of duty, demonstrating excellence and professionalism in service to the citizens of the state of Illinois, was awarded to 14 firefighters. In addition, six fire departments received the Firefighter Excellence “Unit Citation” Award.

Individuals awarded the Firefighter Excellence Award were:

- Captain Mark Zumbragel - Belvidere Fire Department
- Firefighter Mark Beck - Belvidere Fire Department
- Firefighter James Kriebs - Belvidere Fire Department
- Firefighter Jason Swanson - Belvidere Fire Department
- Firefighter Nicolas Thornton - Belvidere Fire Department
- Firefighter/Paramedic Michael Covelli - Downers Grove Fire Department
- Firefighter/Paramedic Kevin Schrader - Downers Grove Fire Department
- Paramedic Ty Barr - Highland Fire/EMS
- Lieutenant Neil Nadolski - Peru Fire Department
- Firefighter Ben Bentley - Peru Fire Department
- Firefighter Alex Duncan - Peru Fire Department

- Engineer Kris Ayers - Wood River Fire Department
- Engineer Bill Hall - Wood River Fire Department
- Firefighter Jamie Wells - Wood River Fire Department

Departments awarded the Firefighter Excellence “Unit Citation” Award were:

- Blue Island Fire Department
- Broadview Fire Department
- Chicago Heights Fire Department
- North Chicago Fire Department
- Orland Fire Protection District
- Pana Fire Department

Fire Prevention and Life Safety Award

In 2018 the State Fire Marshal created an annual Fire Prevention and Life Safety Award. The purpose of this award is to recognize extraordinary efforts in furtherance of fire prevention and life safety performed by fire departments, firefighters and staff from the Office of the Illinois State Fire Marshal. There are three eligible recipient categories – Fire Departments/Fire Protection Districts/Township Fire Departments (may be a department or an individual), OSFM Operations Staff, and OSFM Administrative Staff – with awards given to one nominee from each category. Nominations for this award are due to OSFM by March 1 of each year.

The award recipients in 2018 were:

- Marsha Giesler – Downers Grove Fire Department
- Les Albert – OSFM Administrative Staff
- Catherine Stashak – OSFM Operational Staff

National Fire Incident Reporting System

The agency acts as the statewide coordinator for the National Fire Incident Reporting System (NFIRS). Technical guidance is provided to users to assist them in completing their reports. The agency can generate monthly reports on department compliance and invalid reports. In 2018, nearly 1.3 million incidents were reported by fire departments in Illinois. Illinois state law (425 ILCS 25) requires all Illinois fire chiefs to investigate and report all fires to the Office of the Illinois State Fire Marshal. The statute requires that this reporting be in compliance with NFIRS standards. All fire departments are required to be compliant with their NFIRS reporting to qualify for any state or federal grants. It is also a requirement that all fire departments within the state contact the agency to report a fire death within 24 hours.

Illinois Fire Museum

The Illinois Fire Museum is located on the state fairgrounds in Springfield on the corner of Main and Central Avenue. The building was originally a fire station built in 1938 for the Illinois State Fair Fire Department and later the Springfield Fire Department. The museum's collection includes a ladder wagon from the 1800s, antique fire helmets from around the world, and an array of fire insurance markers, nozzles, parade belts and early firefighting equipment.



The Illinois Fire Museum is open every day during the State Fair in Springfield. The museum is also open to the public by appointment the rest of the year. Individuals wishing to tour the museum should contact the agency at 217-785-1030.

Public Outreach

The agency acts as the state representative for the National Fire Protection Association's (NFPA) Public Education Network. Educational materials and information are provided to fire departments to assist them in their public education efforts.

The agency's Facebook page provides the fire service and public with information about fire safety, job openings at the agency, training opportunities, and other valuable information. The agency's Facebook page can be found at <https://www.facebook.com/IllinoisStateFireMarshal>.

The Office of the Illinois State Fire Marshal also has a presence at both the Illinois and Du Quoin State Fairs. In Springfield, agency personnel support our fire service partners as they provide fire safety information and entertainment to thousands of children. In Du Quoin, our office leads the fire safety campaign with assistance from local fire departments.

Legislative Affairs

2018 Statute Changes

Public Act 100-0593 (HB5551) amended the Community-Integrated Living Arrangements Licensure and Certification Act (210 ILCS 135) to restore OSFM as the entity that conducts fire clearance inspections used as part of the Department of Human Services licensing process.

Public Act 100-0600 (SB3304) amended the Illinois Fire Protection Training Act (50 ILCS 740) to clarify and revise provisions related to reimbursements for firefighter training costs and to update terminology and definitions used in the statute.

Public Act 100-0987 (HB4594) made numerous changes to fines and fees for traffic violations, including the removal and replacement of a \$35 fee to the Fire Prevention Fund for serious traffic violations. The new Criminal and Traffic Assessment Act (705 ILCS 135) instead assesses a fee of \$22 to the Fire Prevention Fund for misdemeanor DUI offenses and for major traffic offenses. It also allows a conditional assessment of \$500 to the Fire Prevention Fund for convictions of arson, residential arson, or aggravated arson. These fees have provided, and will continue to provide, funding for programs administered by the Office of the Illinois State Fire Marshal.

2018 Rule Changes

41 Ill. Adm. Code 110 - Fire Drills in Schools - Repealed obsolete rules. Existing joint rules promulgated by the Office of the Illinois State Fire Marshal and the Illinois State Board of Education at 29 Ill. Adm. Code 1500 made Part 110 rules redundant.

41 Ill. Adm. Code 292 Ambulance Revolving Loan Program - Implemented changes required by Public Act 100-0152, which increased the maximum loan amount available for ambulance loans issued through the Ambulance Revolving Loan Fund from \$100,000 to \$200,000.

41 Ill. Adm. Code 174, 175, 176, and 177 Underground Storage Tank Rules - Revised Illinois' technical requirements for underground storage tank systems (USTs) to conform to federal regulatory requirements.

41 Ill. Adm. Code 2120 Boiler and Pressure Vessel Safety - Updated the editions of referenced codes within the Boiler and Pressure Vessel Safety rules.

Advisory Boards, Committees and Commissions

Illinois Fire Advisory Commission

The Illinois Fire Advisory Commission is a statutorily created body (20 ILCS 2905/3) that provides advice, counsel and assistance to the State Fire Marshal on matters related to the exercise of powers and duties of the agency. Commission members are appointed by the Governor for a term of three years. Appointed members of the Commission include three professional, full-time, paid firefighters, one volunteer firefighter, one Fire Protection Engineer who is registered in Illinois, one representative of the insurance industry in Illinois, and three persons with interest and knowledge in fire prevention methods. In addition to the appointed members, the following individuals serve in an ex officio capacity: Chicago Fire Commissioner, executive officer of the Illinois Fire Chiefs Association, executive officer of the Illinois Association of Fire Protection Districts, executive officer of the Illinois Fire Inspectors Association, executive officer of the Illinois Professional Firefighters Association, executive officer of the Illinois Firemen's Association, executive officer of the Associated Firefighters of Illinois, executive officer of the Illinois Society of Fire Service Instructors, and the head of the Illinois Fire Service Institute. Members of the Commission do not receive compensation but are reimbursed for travel expenses.

Fire Fighting Medal of Honor Committee

The Committee is statutorily (20 ILCS 3985/3001) responsible for developing an annual award program to recognize firefighters who were killed, seriously hurt, or displayed exceptional bravery or heroism in the line of duty, working with firefighting organizations in the state to design, develop, and procure a Fire Fighting Medal of Honor, and selecting an appropriate date or occasion for presentation. The Committee consists of ten members. There are two statutorily designated members – the State Fire Marshal and Chicago Fire Commissioner – and eight members appointed by the Governor. The members appointed by the Governor include: three fire chiefs from areas other than Chicago, three representatives of statewide firefighter organizations, and two retired Illinois firefighters. Fire chiefs serve a two-year term while all other appointments serve a one-year term. Members of the Committee do not receive compensation but are reimbursed for travel expenses.

Board of Boiler and Pressure Vessel Rules

This statutorily created Board (430 ILCS 75/2) is responsible for formulating definitions, rules and regulations for the safe and proper construction, installation, repair, maintenance, alteration, inspection, use, and operation of boilers and pressure vessels in the state. The Board also establishes fees for examinations, commissions, inspection certificates, inspections, annual statements, shop inspections, and other services. The Board consists of seven members appointed by the Governor who serve a term of four years. Members of the Board include: representative in state owners of high pressure boilers and pressure vessels in utilities, manufacturing, or processing, representative in state owners and users of low pressure vessels in commercial buildings, multiple housing, or hotels, representative of boiler manufacturers in state, representative of a boiler insurance company licensed to insure boilers and pressure vessels in the state, representative of the boilermakers, representative of the steam operating engineers, and one mechanical engineer, registered in Illinois, on the faculty of and engineering college, or equivalent experience. Members of the board do not receive compensation but are reimbursed for expenses.

Elevator Safety Review Board

This statutorily created Board (225 ILCS 312/25) reviews and adopts rules for the enforcement of the Elevator Safety Act. The Board also has the authority to grant exceptions and variances, hear appeals, hold hearings, establish fee schedules, and authorize licenses. The Board consists of 17 members who are appointed to four-year terms, with three members appointed by the State Fire Marshal and 14 members appointed by the Governor. Members of the Board include: three representatives of the fire service community, one representative from a major elevator manufacturing company or its authorized representative, one representative from an elevator servicing company, one representative of the architectural design profession, one representative of the general public, one representative of an advocacy group for people with physical disabilities, one representative of an advocacy group for senior citizens, one representative nominated by a municipality in this state with a population under 25,000, one representative nominated by a municipality in this state with a population of 25,000 or over but under 50,000, one representative nominated by a municipality in this state with a population of 50,000 or over but under 500,000, one representative of an advocacy group

for condominium owners, one representative of an institution of higher education that operates an in-house elevator maintenance program, one representative of a building owner or manager, and two representatives of labor, involved in the installation, maintenance, and repair of elevators - one from Cook County and one from a county in the state other than Cook County. Members of the Board do not receive compensation but are reimbursed for expenses.

Agency Operations

Division of Arson Investigation

The mission of the Division of Arson Investigation is to provide fire investigation and law enforcement services to the fire service and federal, state, and local law enforcement agencies throughout the State of Illinois through complete and thorough investigations, evidence collection and professional expert testimony in court proceedings.

The Division is responsible for investigating suspicious fires and explosions as well as providing fire and explosion origin and cause investigations when requested by the fire service and law enforcement agencies throughout the state. Nationally, arson (and suspected arson) is the primary cause of property damage due to fire in the United States, and the second leading cause of fire deaths. To combat this serious problem, certified arson investigators respond to assist fire departments, law enforcement agencies, communities and state and federal agencies 24 hours a day, 7 days a week. Reports of potential arson fires can be made via a 24-hour, toll free Arson Hotline number at (800) 252-2947. In 2018 the Division received 1,089 requests for assistance through the Arson Hotline. When the requesting agency calls the hotline, they are immediately connected with an arson duty investigator who has authority to dispatch an arson investigator anywhere in the state, anytime, day or night.

Arson investigators are sworn peace officers authorized to conduct fire and explosion origin and cause investigations, interview witnesses and suspects, conduct follow-up investigations, execute search warrants, collect evidence, make arrests and testify in court.

Also available are five canine teams consisting of a certified arson investigator and a certified ignitable liquid detecting canine. Canines can detect minute traces of ignitable liquids

often used in fires and can lead investigators to a specific location where physical samples can be secured, analyzed and confirmed by special laboratories. The agency will be adding a sixth canine to its team in 2019. These specialized canines undergo annual training each year.

The Division of Arson Investigation conducts, on average, more than 1,000 investigations each year. Together with federal, state, county and local law enforcement agencies, many arsonists are arrested annually. Their service to the state is invaluable, especially in the rural areas where fire departments do not have certified fire and/or arson investigators.



Arson investigators attend many hours of continuing education classes and seminars each year. This increases their knowledge and expertise of fire investigation and law enforcement training.

Division Statistics	
Full-Time Equivalent Staff (as of 12/31/18)	16
Investigations Conducted	993
Canine-Assisted Investigations	198
Cases Closed With An Arrest	45
Cause and Origin – Incendiary	278
Cause and Origin – Accidental	137
Cause and Origin – Undetermined/ Under Investigation	555
Cause and Origin – Explosion	6
Cause and Origin – Natural	2



Division of Boiler and Pressure Vessel Safety

The Division of Boiler and Pressure Vessel Safety regulates the construction, installation, repair, use and operation of boilers and pressure vessels and oversees in-service inspections of pressure equipment as mandated by the Boiler and Pressure Vessel Safety Act (430 ILCS 75). Currently, there are 99,009 active boilers and pressure vessels which require professional inspections at different intervals. Professional safety inspections are performed on boilers and pressure vessels that are typically used to generate steam to heat in schools, churches, hospitals, nursing homes, office buildings, and places of public assembly, retail locations, apartment buildings, manufacturing facilities, utility plants, refineries, chemical plants, and any other location type in Illinois where pressure equipment is utilized. Inspections identify hazards and provide an opportunity for repair to ensure public safety by preventing accidents caused by explosions and leakage. Inspections are performed by state Boiler Safety Specialists, insurance companies, and in a few instances the owners and users of boilers and pressure vessels.

All state boiler inspectors are commissioned by the National Board of Boiler and Pressure Vessel inspectors.

The Division is also responsible for administering the Illinois Boiler and Pressure Vessel Repairer Act (225 ILCS 203). There are total of 147 companies authorized under the Act to perform repairs and alterations to pressure equipment. These companies are required to be audited every three years under this program.

The Division of Arson Investigation uses the Bomb Arson Tracking System (BATS) for case management and investigations. BATS is a secure web-based system that links agencies to the United States Bomb Data Center (USBDC), which is a nationwide repository of arson and explosives incidents.

The Youth Fire Setter Intervention Program is administered by the Division of Arson Investigation. The agency had 89 requests for an interventionist in 2018. The agency also delivered six Youth Fire Setters Interventionist training classes in 2018 resulting in the certification of nine instructors and 71 interventionists. Information regarding Youth Fire Setters should be referred through Youth Fire Setter Intervention Hotline number at (844) 689-7882.



Division of Elevator Safety

The Division of Elevator Safety enforces the Elevator Safety and Regulation Act (225 ILCS 312). The Act requires that the design, construction, operation, inspection, testing, maintenance, alteration, and repair of elevators, dumbwaiters, escalators, moving sidewalks, platform lifts, stairway chairlifts, and automated people conveyances are in accordance with all applicable statutes and rules.

The Division also issues licenses to contractors, inspectors, mechanics, apprentices and helpers and inspection companies.

Elevator inspectors work in the field making random checks for registration tags, checking the work of licensed inspectors, and checking mechanic licenses. Inspectors also visit municipalities that have agreements with the agency to enforce the Act to ensure that they are abiding by all relevant laws and rules. Additionally, inspectors investigate incidents and accidents, which are given the highest priority. Any complaint received is also given priority attention.

Division Statistics

Full-Time Equivalent Staff (as of 12/31/18)	19.0
Inspections Performed - State	19,464
Inspections Performed – Insurance Companies	26,157
Inspections Performed – Owners/Users	62
Violations Issued	2,907
% of Inspections That Are Past Due – State	1.09%
% of Inspections That Are Past Due – Insurance Companies	0.99%
Audits Conducted	22
Commissions Issued – New and Renewals	314
Repair Permits Issued	113
Repair Firm Licenses Issued – New and Renewals	57
Fees Collected (Calendar Year 2018)*	\$2,075,343



*Does not include \$1.4 million in boiler fees collected by OSFM that are deposited into the General Revenue Fund, but unavailable for OSFM use

All state elevator inspectors are certified Qualified Elevator Inspectors (QEI). This certification is received through the National Association of Elevator Safety Authorities (NAESA).

There are 36,154 registered conveyances in the state. Of this total, 15,089 are under state jurisdiction, and 21,065 are under the jurisdiction of the 181 municipalities with an agreement with the agency.

Division Statistics	
Full-Time Equivalent Staff (as of 12/31/18)	9.0
Permits Issued	523
Certificates of Operation Processed	12,689
Conveyances Registered	717
Licenses Processed	678
Licensed Contractors	23
Licensed Limited Contractors	2
Licensed Inspectors	76
Licensed Mechanics	309
Licensed Limited Mechanics	5
Licensed Inspection Companies	22
Registered Apprentices/Helpers	134
Fees Collected (Calendar Year 2018)	\$1,417,655

Division of Fire Prevention

Inspections

The Division of Fire Prevention is charged with ensuring no building endangers persons or property by reason of faulty construction, age, lack of repair, or any other cause that would make it especially susceptible to fire. Under the authority granted in the Fire Investigation Act (425 ILCS 25), the Division conducts fire safety inspections in accordance with the applicable laws and administrative rules adopted to ensure such fire safety. These inspections primarily concentrate on state-owned or regulated facilities including day care centers and group day care homes licensed by the Department of Children and Family Services, the Illinois Department of Aging, Correctional Centers, public schools (in cooperation with the Illinois State Board of Education), race tracks regulated by the Illinois Racing Board, permanently moored gaming facilities regulated by the Illinois Gaming Board, and

telecommunications switching offices. Enforcement also ensures compliance with regulations pertaining to LP-gas tanks larger than 2,000 gallons in capacity or at any installation intended for purposes of dispensing LP-gas, and inspection of aboveground bulk and dispensing tank installations of flammable and combustible liquids.

The Division also concentrates its efforts on certain “target” hazards, including the inspection of hotel/motel occupancies, and any occupancy where a fire hazard has been reported by the local fire authority or the public. The 2000 edition of the Life-Safety Code®, published by the National Fire Protection Association (NFPA), has been adopted as Illinois’ rules for fire prevention and safety and serves as the primary enforcement tool of the Division of Fire Prevention when conducting building inspections. The Division also regulates the storage of volatile liquids, the handling and storage of liquefied petroleum gases, furniture fire safety regulation, and fireworks storage.

The Division also conducts inspections at the World Shooting and Recreation Complex in Sparta, the Illinois State Fair in Springfield and the Du Quoin State Fair. Fire inspections are conducted at public assembly areas, livestock barns, buildings, exhibits, concession areas, and tents prior to and during each of the events. Fire Prevention personnel provide fire awareness training to vendors and grounds security workers. Fire Prevention personnel also conduct routine fire patrols of the entire grounds of each facility.

Fire Equipment Distributor and Employee Regulation

The Division has responsibility for the enforcement of the Fire Equipment Distributor and Employee Regulation Act (225 ILCS 217), which requires the licensing of all companies and their employees providing fire equipment installation or service work in Illinois. Enforcement is concentrated on the work done recharging and inspecting portable fire extinguishers as well as the installation and servicing of fixed chemical fire suppression systems, including those protecting cooking surfaces in commercial establishments.

Sprinkler Contractor Licensing Regulation

The Division of Fire Prevention issues licenses for fire sprinkler contractors performing work in Illinois. Illinois requires any person, partnership, corporation, or other business entity that installs or repairs any fire sprinkler system in Illinois to be licensed by the Office of the Illinois State Fire Marshal. The Fire Sprinkler Contractor Licensing Act (225 ILCS 317) establishes the minimum standards for

licensure of fire sprinkler installation contractors for the purpose of protecting the public health and general welfare of the citizens of Illinois.

Pyrotechnic Distributor and Operator Licensing Regulation

The Division enforces the Fireworks Use Act (425 ILCS 35) and the Pyrotechnic Distributor and Operator Licensing Act (225 ILCS 227). No person may act as a consumer, distributor, retailer, advertise, or use any title implying the person is a consumer, distributor, or retailer unless registered with the agency. Additionally, no consumer fireworks may be distributed, sold, transferred, or provided free of charge to an individual who has not been issued a permit or who has not registered with the agency.

Furniture Fire Safety Regulation

The enforcement of the Furniture Fire Safety Act (425 ILCS 45) is also the responsibility of the Division of Fire Prevention. The Division enforces regulations on the manufacture, sale, and use of upholstered seating furniture in specific occupancies including day care centers, prisons, hotels/motels, health care facilities, and public assembly occupancies.

Division Statistics	
Full-Time Equivalent Staff (as of 12/31/18)	24.0
Inspections Performed	10,131
School Inspections Performed by Division Personnel	1,093
School Inspections Performed by Local Fire Departments	841
% of School Inspections Completed Within the Statutorily Mandated One-Year Timeframe	65%
Inspections Performed – World Shooting Complex and State Fairs	2,248
Fire Equipment Distributor Companies Licensed	177
Fire Equipment Distributor Employees Licensed	673
Fire Sprinkler Contractors Licensed	213
Pyrotechnic Distributor Companies Licensed	39
Pyrotechnic Operators Licensed	452
Production Companies Licensed	11
Fees Collected (Calendar Year 2018)	\$282,650



Fireworks Safety

The Division is responsible for collecting data from hospitals and emergency facilities within the state to determine various facts about injuries associated with fireworks. During the reporting period in 2018 (June 23 through July 20) the Division received reports from 44 hospitals and facilities. Information on those reports is provided below.

- Fatalities – 0
- Injuries Reported – 96
- Major Causes of Injuries
 - ▣ Mortars – 16%
 - ▣ Sparklers – Wire/Wood Core – 14%
 - ▣ Roman Candles – 12%
 - ▣ Firecrackers – 12%
- Leading Locations of Injuries
 - ▣ Hands – 32%
 - ▣ Eyes – 8%
 - ▣ Head/Face/Arms/Legs – 13%
- Leading Types of Injuries
 - ▣ Severe Lacerations/Fractures/Dismemberment/Third Degree Burns – 32%
 - ▣ Loss of Hearing/Sight – 4.5%
 - ▣ Abrasion/First- and Second-Degree Burns – 55%

Division of Petroleum and Chemical Safety

The mission of the Division of Petroleum and Chemical Safety (P&CS) is to protect against threats to human safety and contamination of the environment that can occur by the underground storage of petroleum products and other hazardous substances through prevention, education, and enforcement.

To protect public health and safety, P&CS regulates Underground Storage Tanks (USTs) containing petroleum products and other hazardous substances. For fuel to be deposited in USTs facilities must pass a certification audit, which is done every two years.

The division works under a comprehensive program combining federal and state laws and rules to regulate UST system management, fuel dispensing, UST installation, repair and removal, emergency response, and financial responsibility requirements.

Additionally, the Division administers the state Eligibility and Deductibility (E&D) program. The Division utilizes an online

process for the submission of applications to expedite and streamline this process. This is the first step for UST owners to follow when they have had a release or contamination incident and they wish to access the Leaking Underground Storage Tank Fund (LUST Fund). The LUST Fund is administered by Illinois Environmental Protection Agency (IEPA), but screening for eligibility to access the LUST Fund and determining the deductible amount is done by P&CS staff. Requests are forwarded to IEPA after approval by P&CS for final processing.

The Division is also responsible for overseeing the Financial Responsibility program. As with the E&D program, P&CS utilizes an online process to allow for Financial Responsibility reporting. Financial Responsibility reports are required pollution liability policies UST facility owners must have in case of environmental or third-party property and personal injury damages caused by product releases from USTs. While the bulk of the coverage for post-release corrective action and remediation comes from the State LUST Fund per statute, the United States Environmental Protection Agency (USEPA) requires the agency to ensure owners and operators of UST facilities demonstrate a current policy providing at least \$20,000 of supplemental



liability insurance to cover expected gaps for costs related to corrective action and third-party bodily injury and third-party property damage.

Because of revisions to federal UST regulations issued during 2015, Illinois was required to revise state UST regulations. While states may use more stringent regulations of USTs, state regulations cannot be less stringent. The agency implemented its revised UST regulations on October 13, 2018.

To assist states in enforcing federal UST regulations, the USEPA provides grants to states. Grants are generally awarded in two-year cycles and can be used on any UST related activities that are approved by the USEPA. In October 2017 the agency was awarded more than \$1.2 million in federal funds from the USEPA to support the agency's enforcement of federal UST laws and regulations. The grant covers the period from October 1, 2017 to September 30, 2019. Funding from the current USEPA grant is being used to partially cover the salaries and benefits of state Storage Tank Safety Specialists, to replace vehicles driven by Storage Tank Safety Specialists with new trucks, to continue the development and maintenance of the P&CS UST information technology system, to purchase new gas detection monitors and supplies, and to purchase other miscellaneous supplies used by the division in enforcing UST laws and regulations.

While the agency has the responsibility for enforcing federal and state UST laws and regulations, that enforcement mandate has been delegated by the agency to the City of Chicago for all USTs located within the city. UST regulation in Chicago is done by the Chicago Department of Public Health (CDPH). The agency provides a \$550,000 grant to CDPH for the operation of the UST program in the City of Chicago.

Division Statistics	
Full-Time Equivalent Staff (as of 12/31/18)	25.0
Active Tanks Registered	19,179
UST Inspections Conducted	7,871
UST Inspections Conducted – City of Chicago	327
Field Investigations	500
Field Investigations – City of Chicago	39
UST Emergency Responses	45
UST Emergency Responses – City of Chicago	11
Initial Facility Certification Audits Performed	2,916
Initial Facility Certification Audits Performed – City of Chicago	351
% of UST facilities in Technical Compliance with Federal Release Prevention and Detection Requirements	63%
UST Permits Granted	1,808
UST Permits Granted – City of Chicago	261
Motor Fuel Dispensing Permits Approved	54
Motor Fuel Dispensing Facilities Inspected	3,166
Financial Responsibility Reports Processed	3,556
Eligibility and Deductibility Applications Processed	308
% of Eligibility and Deductibility Applications Processed Electronically	99%
% of Permit Applications Processed Electronically	98%
Notice of Violations Issued	2,442
Facilities Red Tagged	566
Cases Referred to Agency Legal Staff for Non-Compliance	127
Cases referred to the Illinois Attorney General for Non-Compliance	0
Enforcement Cases Resolved	182
Fees and Fines Collected (Calendar Year 2018)	\$602,809

Division of Personnel Standards and Education

The Division of Personnel Standards and Education is responsible for overseeing the voluntary firefighter certification program for firefighters in the state. The Division ensures the standardization and enhancement in the levels of education and training for firefighters and professionals in Illinois with the highest priorities placed on safety and career advancement. The Division operates under the mandate of the Illinois Fire Protection Training Act (50 ILCS 740), which provides for the promotion of training standards to protect the health, safety and welfare of the public.

In June 2018 the agency began offering computer-based certification testing using Pearson VUE test centers located throughout the state. There are currently 25 examinations available for computer-based testing, including:

- Basic Operations Firefighter Complete, Mod A, Mod B and Mod C
- Advanced Technician Firefighter Complete, Mod A, Mod B
- Company Fire Officer
- Advanced Fire Officer
- Airport Firefighter
- Fire Investigator
- Fire Apparatus Engineer
- Fire Service Vehicle Operator
- Hazardous Materials Operations and Technician
- Instructor I, II and III
- Public Fire Life Safety Educator I
- Fire Inspector II
- Youth Fire Setter
- Rope Operations and Technician
- Trench Operations and Technician

Computer-based examinations are given at no cost to the firefighter for their first exam attempt for each certification. Subsequent attempts are charged at a rate of \$59.00 per exam. The results of examinations are presented to the firefighter immediately after the exam.

Division Statistics	
Full-Time Equivalent Staff (as of 12/31/18)	8.5
Certifications Processed	9,247
Requests for Examinations	12,645
Examinations Administered	10,901
Computer-Based Examinations Administered	308
Claims for Training Reimbursement	1,127
Hours of Training – Claims for Reimbursement	89,102
Fire Departments Reimbursed – Claims for Reimbursement	74

Technical Services Section

The Technical Services Section of the Office of the Illinois State Fire Marshal supports other operating divisions within the agency as well as the fire service and public with technical expertise in the form of code interpretation and plan and application review. The Technical Services Section also provides expert advice in the agency’s rulemaking processes for a variety of subjects, including aboveground storage tank regulation, LP-gas regulation, motor fuel dispensing facility operation, Life Safety Code® application, and myriad other fire protection and petroleum and chemical-safety related issues.

Specifically, the Technical Services Section staff/personnel review plans and applications submitted for installation or modification of Aboveground flammable and combustible liquid storage tanks and liquefied petroleum gas tanks, review architectural and engineering drawings of new construction, renovations, and additions for compliance with state codes, analyze Fire Safety Evaluation Systems (FSES) which offer owners alternative methods for proving equivalent life safety in nonconforming structures, analyze submitted Prison Fire Safety Plans for Illinois Correctional and Transitional facilities, prepare technical recommendations for the State Fire Marshal to assist in his response to variance requests, prepare and deliver training programs and materials for the agency’s field inspection workforce and local fire department personnel to familiarize them with applicable codes and changing technologies in an effort to ensure consistency in code enforcement across the state.

Technical Services personnel also represent the agency on state and national code committees and task forces as well as make presentations to the public and the regulated community on technical issues. Additionally, on occasion, Technical Services staff will accompany Fire Prevention Division inspectors on field inspections to assist in developing compliance plans for more challenging facilities.



Division Statistics

Full-Time Equivalent Staff (as of 12/31/18)	1.0
Aboveground Flammable Liquid Storage Tank Plan and Application Reviews	447
LP-Gas Tank Plan and Application Reviews	57
Building Construction, Fire Suppression System, and Fire Alarm System Plan Reviews and Fire Safety Evaluation System Evaluations	173
Prison Fire Safety Plan Reviews	10
Variance Requests Analyzed	16
Training Contact Hours Provided to Agency Staff and Local Fire Service Personnel	884
Telephone, E-Mail, and Written Inquiries Handled on Rules, Code Interpretations, and Explanations of Agency Policies and Procedures	6,544
% of Plan Reviews Completed Within 10 Days	22%

Fire Statistics 2017

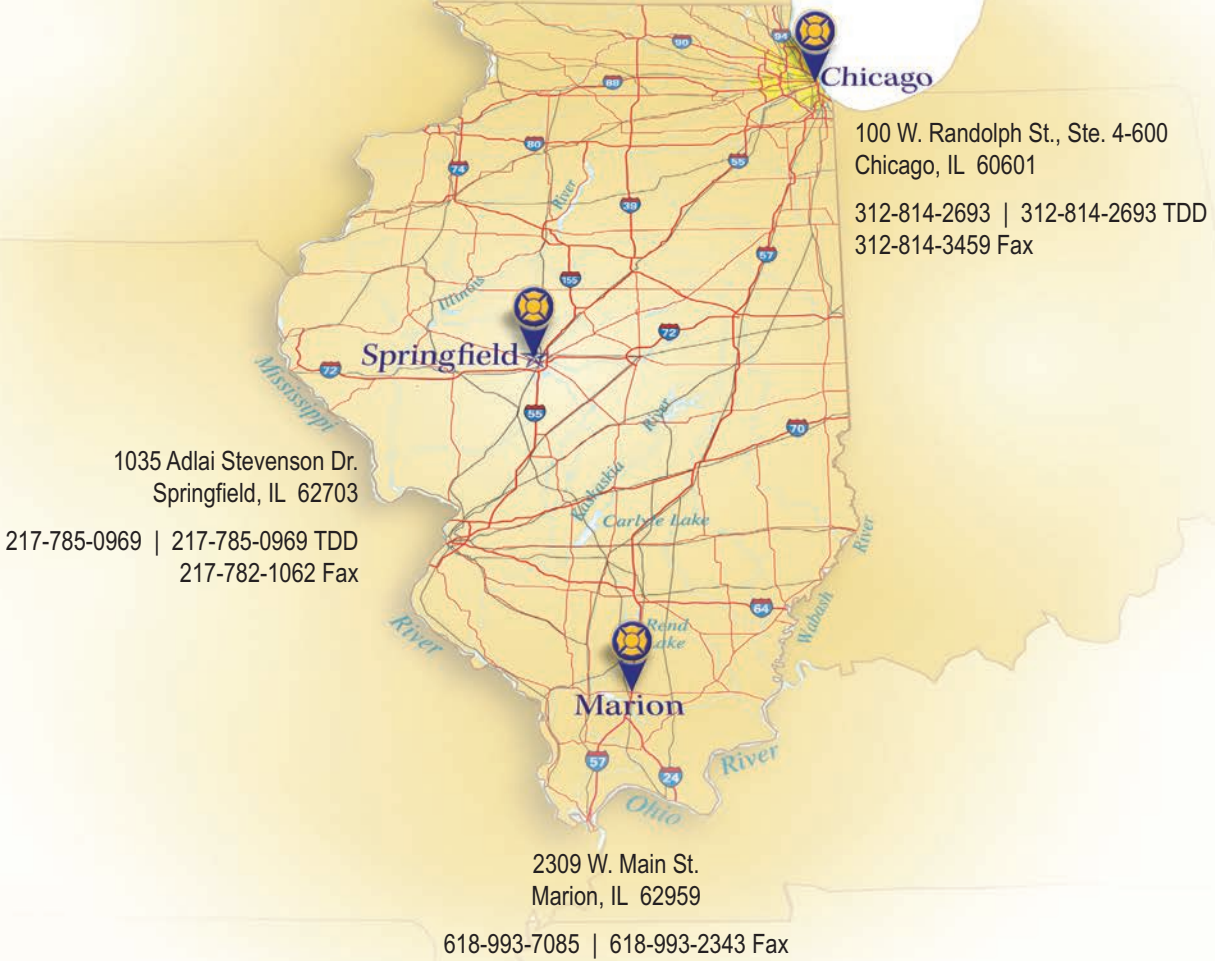
Illinois

- Fire departments in Illinois responded to 40,779 reported fire incidents in 2017.
- There was an estimated \$429 million in property damage in Illinois in 2017.

National (Source: *Fire Loss in the United States during 2017 – National Fire Protection Association*)

- U.S. fire departments responded to an estimated 1,319,500 fires in 2017, a decrease of 2% from the previous year.
- 499,00 fires occurred in structures, an increase of 5%.
- \$23 billion in property damage from fires in 2017
- 68,000 fires occurred in vehicles, a slight decrease of 3% from the previous year.
- 623,000 fires occurred in outside properties, a decrease of 6% from the previous year.
- Every 24 seconds, a fire department responds to a fire somewhere in the nation. A fire occurs in a structure at the rate of 1 every 63 seconds, and a residential fire occurs every 88 seconds. Fires occur in vehicles at the rate of every 188 seconds, and there's a fire in an outside property every 51 seconds.
- 3,400 civilian fire deaths occurred in 2017. 400 civilians died in highway vehicle fires, which represent 12% of all fire deaths.
- About 77% of all fire deaths occurred in the home.
- Nationwide, there was a civilian fire death every 2 hours and 34 minutes and a civilian fire injury every 36 minutes. There were 14,670 civilian fire injuries in 2017 with most of all civilian injuries occurring in home fires.
- An estimated 22,500 intentionally set structure fires occurred during 2017, an increase of 13% from the previous year. These intentionally set structure fires resulted in an estimated 280 civilian deaths, a decrease of 10% from the year before.
- Intentionally set structure fires also resulted in \$582 million in property loss, an increase of 23% from the previous year.
- There were an estimated 8,500 intentionally set vehicle fires, 11% less than the previous year, resulting in \$75 million in property loss which represents an increase of 88% from the year before.





State of Illinois
 Office of the Illinois State Fire Marshal
www.sfm.illinois.gov