2019

OFFICE OF THE ILLINOIS STATE FIRE MARSHAL

ANNUAL REPORT

SEAL OF THE STATE OF ILLINOIS
AUG. 26TH 1818

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:

I am pleased to present the 2019 Annual Report for the Office of the Illinois State Fire Marshal (OSFM).

Through the hard work and dedication of the members of our agency, the OSFM has had a productive and successful year. One of our proudest accomplishments was updating the State Fire and Life Safety Code from the NFPA 101, Life Safety Code, 2000 Edition, to the 2015 Edition. Though attempted several times by previous administrations, the code has not been updated since 2002. This update makes Illinois safer by allowing for technological advancements in fire protection systems, applying lessons learned from tragic events over the last two decades and referencing updated standards for the design and construction of buildings.

The OSFM has also augmented our financial support of the Illinois Fire Service by providing increased funding for education, training, equipment and vehicles. Of the estimated 45,000 firefighters in Illinois, roughly 30,000 work for non-career departments which struggle financially to provide the resources needed to effectively provide fire protection. We have provided this support through our Fire Truck and Ambulance Revolving Loan Programs, our Small Equipment Grant Program and our continued collaboration with the Illinois Fire Service Institute to provide every firefighter in Illinois the training and equipment needed to do their job efficiently and return home safely.

I am proud of the work we have done over the past year and I would like to thank the staff of OSFM for their dedicated service to the agency and for their continued professionalism in serving the citizens of Illinois. Finally, I would like to thank Governor Pritzker and the General Assembly for the budgetary appropriations which allow our agency to properly serve the residents and firefighters of Illinois.

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. In order 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.

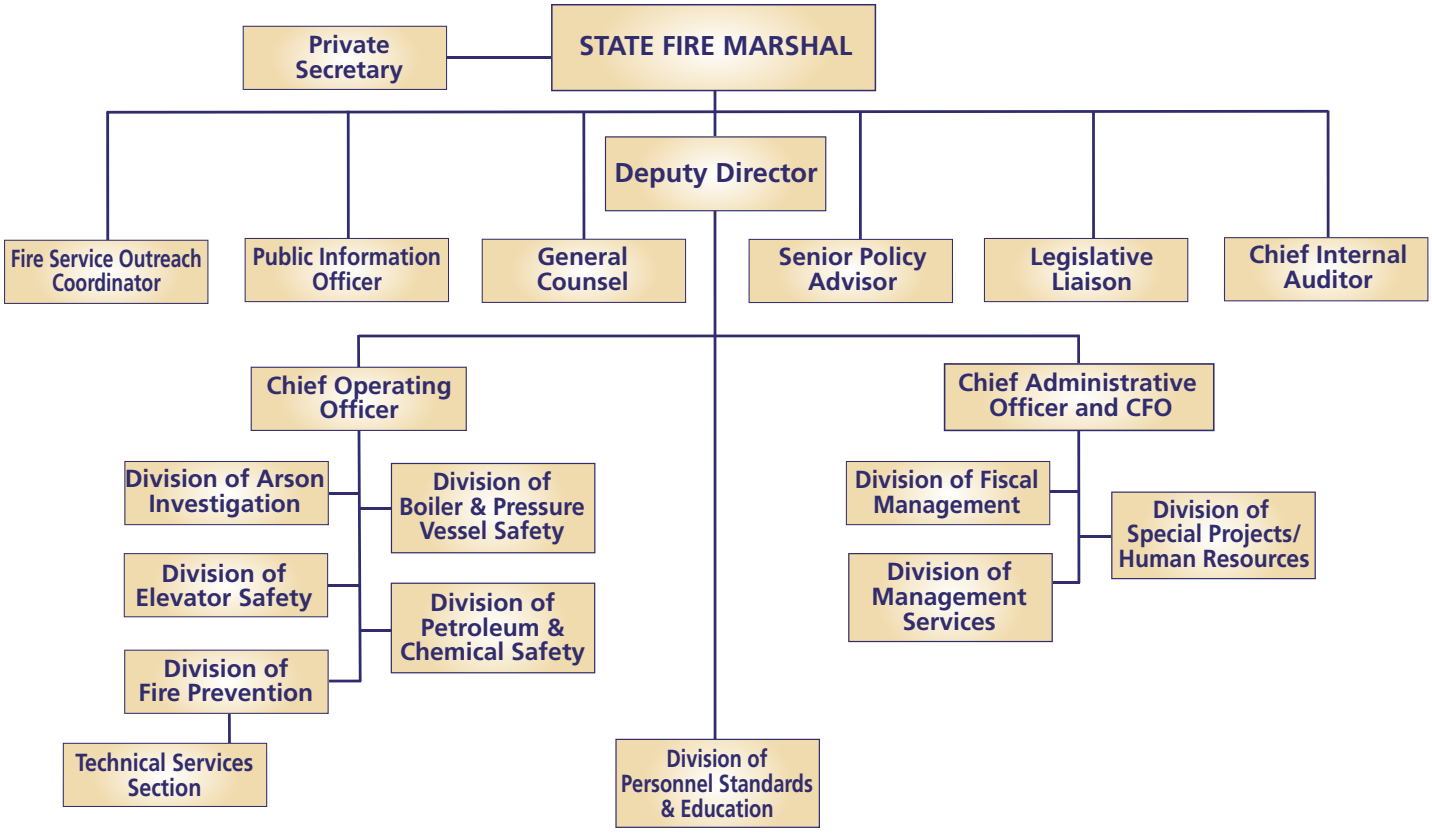
Agency Mission

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	FY19 Expenditures	FY20 Appropriation
General Revenue Fund		
Union Back Pay	$280,599	$0
Total	***$24,291,773***	***$34,483,400***
Fire Prevention Fund		
Salaries and Benefits	$15,403,747	$19,837,700
Other Operations	$3,912,780	$4,521,400
Public Safety Shared Services Center	$548,628	$150,000
Community Risk Reduction	$0	$50,000
Computer-Based Firefighter Certification Testing	$45,961	$380,000
Gross Decontamination Buckets	$0	$360,000
Illinois Firefighter Peer Support	$0	$60,000
Chicago Firefighter Training Grant	$2,801,700	$2,838,800
Cornerstone	$350,000	$350,000
Explorer-Cadet School	$65,000	$65,000
Firefighter Training Programs – Illinois Fire Service Institute	$77,958	$230,000
Firefighter Training Reimbursement	$950,000	$950,000
Hazmat Emergency Response Reimbursement	$0	$10,000
Minimum Basic Firefighter Training	$0	$1,000,000
Mutual Aid Box Alarm System	$125,000	$125,000
New Fire District Grant	$0	$500
Senior Officer Training	$11,000	$55,000
Small Equipment Grant	$0	$3,500,000
Subtotal - Grants	***$6,111,921***	***$4,587,200***
Total	***$24,291,773***	***$34,483,400***

Financial Information

$ Actual	FY19 Expenditures	FY20 Appropriation
Underground Storage Tank Fund		
Salaries and Benefits	$2,994,950	$3,848,900
Other Operations	$324,352	$393,200
Chicago Underground Storage Tank Program	$550,000	$550,000
Total	***$3,869,302***	***$4,792,100***
Fire Fighter Memorial Fund		
Firefighter Memorial Foundation and Fire Museum Maintenance	$138,134	$300,000
Total	***$138,134***	***$300,000***
Fire Prevention Division Fund		
U.S. EPA Underground Storage Tank Program Grant	$562,432	$1,000,000
Total	***$562,432***	***$1,000,000***
TOTAL - ALL FUNDS	***$29,142,240***	***$40,575,500***
Headcount - Full-Time Equivalents (as of 6/30)	**134.0**	**161.5**

REVENUE	Calendar Year 2019
Insurance Taxes	$29,665,865
Fees and Fines	$4,612,882
All Other Sources	$865,502
Total	***$35,144,249***

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 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 blind review process by a committee who recommend grant awards based on equipment need and financial need.

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, or 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 grant application. 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.

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

The "Be Alarmed!" smoke alarm installation program is a cooperative effort 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.

2019 Statistics:

- 94 Illinois fire departments from 42 different counties participating in the program
- 6,291 10-year concealed battery smoke alarms distributed to Illinois fire departments equaling $138,339 worth of life-saving smoke alarms
- 4,948 10-year concealed battery smoke alarms installed in Illinois homes
- 1,638 Illinois homes now protected with new smoke alarms
- 3,732 (2,012 high-risk) Illinois residents educated on smoke alarm maintenance, home fire safety, and home fire escape plans as well as protected by new smoke alarms
- 89% of pre-existing smoke alarms in homes that received new 10-year concealed battery smoke alarms were non-functional or were expired (2,592 of 2,909 pre-existing alarms)

Illinois Fallen Firefighter Memorial and Firefighter Medal of Honor Awards Ceremony

On May 14th, 2019 we gathered to pay homage to the firefighters from Illinois that have made the ultimate sacrifice in the line of duty. The family of Firefighter Juan Bucio was presented the Line of Duty Death Award by the State Fire Marshal. This posthumous honor is given to the families of firefighters who died while in the performance of their duty the previous year.

The Medal of Valor award is given by the state of Illinois to a firefighter for an act of heroism or bravery that clearly demonstrated courage and dedication in the face of danger while in the performance of duty. The 2019 recipients of the Medal of Valor were:

- Firefighter/Paramedic Bryan Lowery - Calumet City Fire Department
- Firefighter/EMT Daniel Ramos - Chicago Fire Department
- Lieutenant Daniel Manning - Dolton Fire Department
- Firefighter Aaron Cavender - Momence Fire Protection District
- Firefighter Adrian Cavender - Momence Fire Protection District
- Deputy Chief Michael Vissering - Northern Tazewell Fire Protection District
- Firefighter/Paramedic Eric Watkins - Plainfield Fire Protection District
- Captain Darin Peterson - St. Charles 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 three firefighters, and the Firefighter Excellence Unit Citation was presented to three fire departments.

Individuals awarded the Firefighter Excellence Award were:

- Lieutenant Mike Hall - Libertyville Fire Department
- Assistant Fire Chief Bob Key - Libertyville Fire Department
- Deputy Fire Chief John Lynch - Libertyville Fire Department

Departments awarded the Firefighter Excellence "Unit Citation" Award were:

- Dolton Fire Department
- McLeansboro Fire Department
- Momence Fire Protection District

There was no Medal of Honor awarded in 2019.

Fire Prevention and Life Safety Award

The Fire Prevention and Life Safety 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 2019 were:

- Keith "Doc" Patterson – Illinois Fire Service Institute
- Shelly Bradley – OSFM Administrative Staff
- Aaron Seigler – 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 Fire Investigation Act (425 ILCS 25) requires Illinois fire chiefs to investigate all fires and report their department's incidents to the Office of the Illinois State Fire Marshal. The statute states that this reporting must be in compliance with the National Fire Incident Reporting System (NFIRS) standards. The NFIRS system is maintained by the US Fire Administration and Fire Service Outreach Coordinator serves as the state program manager providing technical assistance and training to fire departments. Over 1.4 million reports are submitted each year by Illinois fire departments. In 2019, OSFM was granted access to the new NFIRS Data Warehouse application which greatly improves our data analysis and quality assurance capabilities. The agency can generate monthly reports on department compliance and invalid reports.

Illinois Fire Museum

The Illinois Fire Museum is located inside the state fairgrounds in Springfield at 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. In 2019, the Wenona Fire Protection District agreed to permanently donate the 1884 horse drawn ladder wagon and hand pulled hose cart. These items which have been on loan from the department for several years will eventually be professionally restored to their former glory. The museum is available for tours by appointment Monday through Friday and is open every day during the Illinois State Fair. 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 OSFM uses social media venues such as Facebook, Twitter and YouTube to promote communication, enhance fire prevention outreach, streamline processes and communicate the agencies mission to the fire service and public. OSFM's Facebook page can be found here: https://www.facebook.com/IllinoisStateFireMarshal.

OSFM's Twitter page can be found here: https://twitter.com/ILFireMarshal.

OSFM's YouTube Page can be found here: https://www.youtube.com/channel/UCK2PpJj2v5F9wy-I5zJhHiw

OSFM has started a new segment called Coffee with the Fire Chief. Fire Marshal Perez sits down with the Fire Chief to learn about the different departments and districts across Illinois, while exploring what makes them unique and other innovative programs they are offering. Episodes can be found by visiting https://www2.illinois.gov/sites/sfm/News/Pages/Coffee-with-the-Chief.aspx.

The Office of the Illinois State Fire Marshal 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

2019 Statute Changes

The OSFM introduced the following legislation:

P.A. 101-0082 (HB0105) amended the Fire Investigation Act (425 ILCS 25) to (i) clarify the applicability of the state-adopted life safety code within home rule units of government, (ii) repeal a section for a petty offense charge against fire chiefs who do not enforce the state-adopted life safety code, and (iii) provide other administrative clean-up throughout the Act.

Other bills passed related to OSFM's activities:

P.A. 101-0234 (HB0854) amended the State Fire Marshal Act (20 ILCS 2905) to add two new members to the Fire Advisory Commission, one from the fire sprinkler industry and one from the fire alarm industry.

P.A. 101-0252 (HB2215) amended the Illinois Fire Protection Training Act (50 ILCS 740) to require that OSFM maintain a link on its website to an educational program or literature for firefighters on the history of the fire service labor movement and that the training be required for career firefighters.

P.A. 101-0400 (SB0171) among numerous changes, amended portions of the Drycleaner Environmental Response Trust Fund Act (415 ILCS 135) to clarify a reference to OSFM's requirements for underground petroleum storage that distinguish requirements for underground tanks which contain petroleum from those that contain dry cleaning solvents regulated under the Act.

2019 Rule Changes

The OSFM updated agency-related administrative rules through the Joint Committee on Administrative Rules (JCAR) process in the following sections:

41 Ill. Adm. Code 100 Fire Prevention and Safety

This rulemaking updated the adopted life safety code from the NFPA 101, Life Safety Code (2000 Edition) to the NFPA 101, Life Safety Code (2015 Edition). These changes became effective on January 1, 2020.

41 Ill. Adm. Code 149 Permanently Moored Craft Fire Prevention And Safety

This rulemaking moved previously existing rules related to permanently moored craft (formerly called previously moored vessels or PMVs) to a new part and updated language to be more in line with the current federal approach to permanently moored craft.

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, one Engineer with knowledge of the fire sprinkler industry and one Engineer with knowledge of the fire alarm and fire extinguisher systems, and three persons with interest and knowledge in the 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. 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 seven 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.

Arson investigators and canine teams investigate on average over a thousand fires 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.

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 now being administered by the Arson Division. The agency had 88 requests for an interventionist in 2019. The agency also put on three Youth Fire Setters Interventionist training classes and is working on adding several more training classes throughout the state in 2020. Inquiries regarding Youth Fire Setters should be done through the Youth Fire Setter Intervention Hotline number at (844) 689-7882.

Division Statistics

Full-Time Equivalent Staff (as of 12/31/19)	20
Investigations Conducted	939
Canine-Assisted Investigations	183
Cases Closed With An Arrest	49
Cause and Origin – Incendiary	293
Cause and Origin – Accidental	120
Cause and Origin – Undetermined/ Under Investigation	505
Cause and Origin – Explosion	8
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 99,101 active boilers and pressure vessels in this program 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.

The Division is also responsible for administering the Illinois Boiler and Pressure Vessel Repairer Act (225 ILCS 203). There are total of 150 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 Board of Boiler and Pressure Vessel Rules 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.

Division Statistics	
Full-Time Equivalent Staff (as of 12/31/19)	19
Inspections Performed	45,584
Violations Issued	5,981
% of Inspections That Are Past Due – State	1.08%
% of Inspections That Are Past Due – Insurance Companies	1.74%
Audits Conducted	23
Commissions Issued – New and Renewals	295
Repair Permits Issued	143
Repair Firm Licenses Issued – New and Renewals	51
Fees Collected	$3,460,785

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.

The Elevator Safety Review Board approves rules for the administration and enforcement of the Act. The Board has the authority to hear appeals on exceptions and variances and, depending on the outcome, grant or deny an exception for a variance, hold hearings, establish fee schedules, approve continuing education programs, and authorize all licensing.

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.

There are 35,587 registered conveyances in the state. Of this total, 14,320 are under state jurisdiction, and 22,267 are under the jurisdiction of the 177 municipalities with an agreement with the agency.

Division Statistics	
Full-Time Equivalent Staff (as of 12/31/19)	10
Permits Issued	535
Certificates of Operation Processed	12,076
Conveyances Registered	676
Licenses Processed	1,207
Fees Collected	$1,609,355

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.

Division Statistics	
Full-Time Equivalent Staff (as of 12/31/19)	23
Inspections Performed	12,812
School Inspections Performed by Division Personnel	1,425
School Inspections Performed by Local Fire Departments	792
% of School Inspections Completed Within the Statutorily Mandated One-Year Timeframe	64%
Inspections Performed – State Fairs	2,222
Fire Equipment Distributor Companies Licensed	181
Fire Equipment Distributor Employees Licensed	675
Fire Sprinkler Contractors Licensed	209
Pyrotechnic Distributor Companies Licensed	38
Pyrotechnic Operators Licensed	452
Pyrotechnic Use Act- Consumer Retailers	128
Production Companies Licensed	19
Fees Collected	$345,510

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 general public. 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 does inspections at 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 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.

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 time period in 2019 (June 23 through July 20) the Division received reports from 56 hospitals and facilities. Information on those reports is provided below.

- Fatalities – 1
- Injuries Reported – 126
- Major Causes of Injuries
  - Sparklers – Wire/Wood Core – 26
  - Unknown Type – 26
  - Mortars – 23
  - Firecrackers – 16
  - Sky/Bottle Rockets – 11
- Leading Locations of Injuries
  - Hands – 56
  - Head/Face – 31
  - Fingers – 20
  - Arms – 18
- Leading Types of Injuries
  - Second Degree Burns – 49
  - Abrasions – 28
  - Lacerations – 27
  - Other Injuries – 26
- Dismemberment/Amputation – 12

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. In order 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 in order 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 require pollution liability policies that UST facility owners are required to 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

Division Statistics	
Full-Time Equivalent Staff (as of 12/31/19)	24
Active Tanks Registered	19,087
UST Inspections Conducted	6,015
UST Inspections Conducted – City of Chicago	341
Field Investigations	309
Field Investigations – City of Chicago	36
UST Emergency Responses	45
UST Emergency Responses – City of Chicago	22
Initial Facility Certification Audits Performed	2,874
Initial Facility Certification Audits Performed – City of Chicago	350
% of UST UST facilities in Compliance with USEPA Began Reporting on new measure in 2019	23%
UST Permits Granted	2,289
UST Permits Granted – City of Chicago	292
Motor Fuel Dispensing Permits Approved	84
Motor Fuel Dispensing Facilities Inspected	2,853
Financial Responsibility Reports Processed	3,303
Eligibility and Deductibility Applications Processed	395
% of Eligibility and Deductibility Applications Processed Electronically	100%
% of Permit Applications Processed Electronically	99%
Notice of Violations Issued (NOVs) Issued	3,530
Motor Fuel Dispensary Novs Issued	638
Facilities Red Tagged	1,077
Facilities Red Tagged (City of Chicago)	116
Cases Referred to Agency Legal Staff for Non-Compliance	27
Cases referred to the Illinois Attorney General for Non-Compliance	1
Enforcement Cases Resolved	17
UST Equipment and Testing Forms Processed	20,910
Fees and Fines Collected (Calendar Year 2018)	$678,312

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.

The agency implemented its revised state UST regulations on October 13, 2018 that reflected the changes in the updated federal UST regulations that were released in 2015. States may use more stringent regulations of USTs, state regulations though cannot be less stringent.

In order 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 2019 the agency was awarded more than $1.6 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, 2019 to September 30, 2021. Funding from the current USEPA grant is being used to partially cover the salaries and benefits of the state Storage Tank Safety Specialists, to continue the development and maintenance of the P&CS UST information technology system, 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 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 standards to protect the health, safety and welfare of the public.

The Division continues to update certification programs to comply with current National Fire Protection Association Standards and applicable needs of the fire service.

Division Statistics	
Full-Time Equivalent Staff (as of 12/31/19)	8
Certifications Processed	10,904
Requests for Examinations	12,129
Written Examinations Administered	10,618
Claims for Training Reimbursement	1,318
Hours of Training – Claims for Reimbursement	91,306
Fire Departments Reimbursed – Claims for Reimbursement	76

Technical Services Section

The Technical Services Section of the Office of the State Fire Marshal supports other operating divisions within the agency as well as the fire service and general public with technical and engineering expertise in the form of code interpretation and plan and application review. Technical Services 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 reviews 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 12/31/19)	3
Aboveground Flammable Liquid Storage Tank Plan and Application Reviews	510
LP-Gas Tank Plan and Application Reviews	71
Building Construction, Fire Suppression System, and Fire Alarm System Plan Reviews and Fire Safety Evaluation System Evaluations	199
Prison Fire Safety Plan Reviews	30
Variance Requests Analyzed	27
Training Contact Hours Provided to Agency Staff and Local Fire Service Personnel	1,326
Telephone, E-Mail, and Written Inquiries Handled on Rules, Code Interpretations, and Explanations of Agency Policies and Procedures	8,703
% of Plan Reviews Completed Within 10 Days	51.7%

Fire Statistics 2019

Illinois

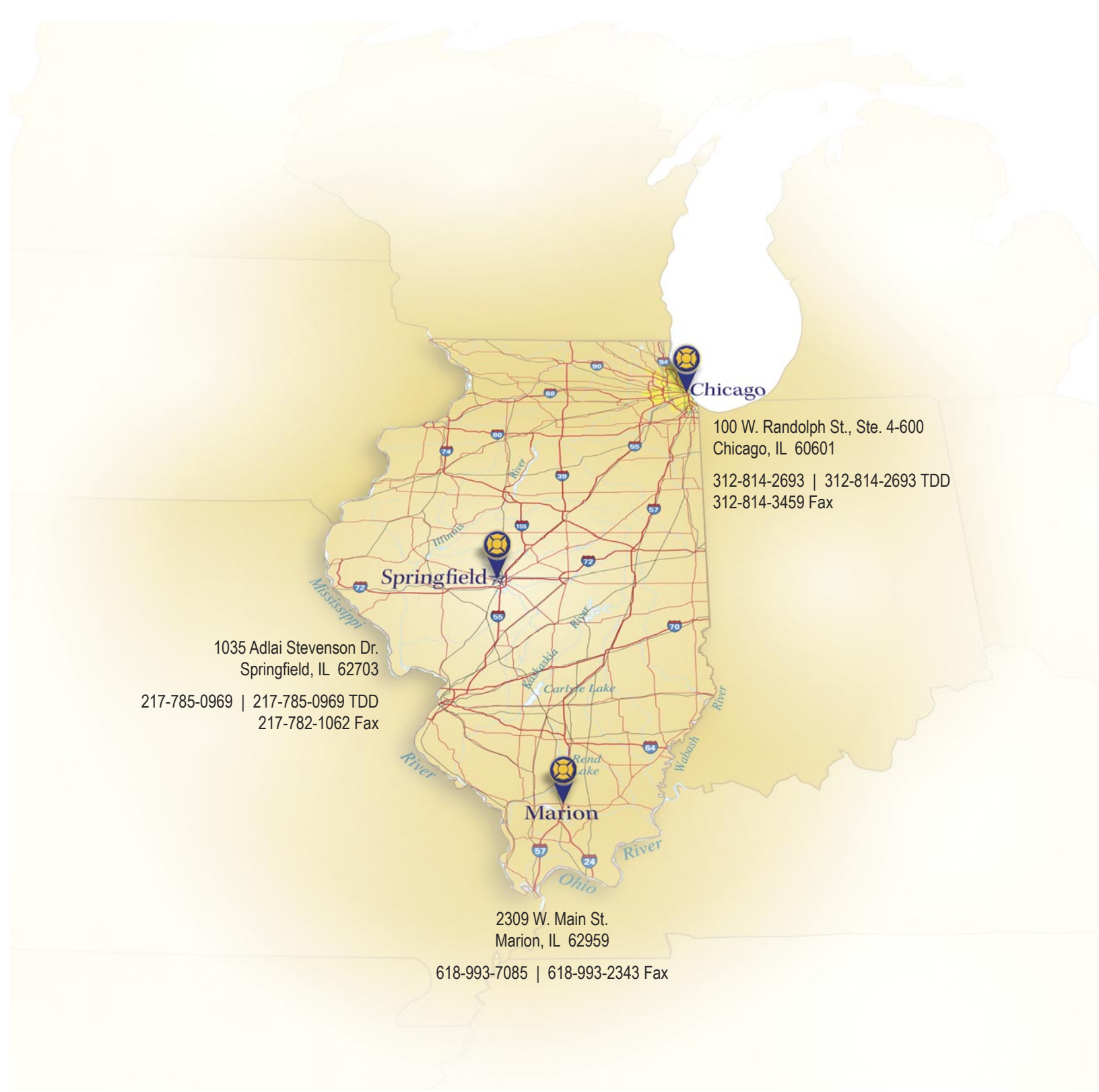
- Fire departments in Illinois responded to 37,081 reported fire incidents in 2019.
- There was an estimated $516 million in property damage in Illinois in 2019.

National *(Source: Fire Loss in the United States during 2018 – National Fire Protection Association)*

- U.S. fire departments responded to an estimated 1,318,500 fires in 2018, a decrease of 0.1% from the previous year
- 499,000 fires occurred in structures, an increase of 5.2%
- Fires cause $25.6 billion in property damage
- 181,500 fires occurred in vehicles, a huge increase of 166.9% from the previous year
- 607,000 fires occurred in outside properties, a decrease of 2.6% 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 in particular 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.
- 3,655 civilian fire deaths occurred in 2018. 400 civilians died in highway vehicle fires, which represent 11% of all fire deaths.
- About 74% of all fire deaths occurred in the home
- Nationwide, there was a civilian fire death every 2 hours and 24 minutes and a civilian fire injury every 36 minutes. There were 15,200 civilian fire injuries in 2018 with the majority of all civilian injuries occurring in home fires.
- An estimated 25,500 intentionally set structure fires occurred during 2018. An increase of 13.3% from the previous year. These intentionally set structure fires resulted in an estimated 350 civilian deaths. An increase of 25% from the year before.
- Intentionally set structure fires also resulted in $593 million in property loss. An increase of 1.9% from the previous year.
- There were an estimated 9,500 intentionally set vehicle fires, an 11.8% increase from the previous year, resulting in $65 million in property loss, a decrease of 13% from the year before.

OFFICE OF THE ILLINOIS

STATE FIRE MARSHAL



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