OREGON OFFICE OF STATE FIRE MARSHAL ANNUAL REPORT 2018

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Mission

Protecting citizens, their property and the environment from fire and hazardous materials.

Vision

Premier Public Safety Services.

Values

PROFESSIONALISM

We are a highly skilled and competent workforce.

CREDIBILITY

We demonstrate trust and accountability through our actions.

COLLABORATION

We partner with others to achieve our mission.

LEADERSHIP

We are dedicated to an environment for success.

DEDICATION

We believe our mission is worthy of our efforts.

Statutory Authority Oregon Revised Statutes: Chapters 336, 453, 470, 476, 478, 479, 480

A Message from the Oregon State Fire Marshal



The annual report provides an overview of the OSFM's work and highlights the many ways our agency worked with our partners and communities to advance our mission and promote fire safety.

The most recent year proved to be another busy one, with the start of summer coinciding with the first conflagration of 2018 near Lake Billy Chinook. Conflagrations were declared soon after in southwest Oregon, followed by mobilizing our resources to aid California, and back to Oregon for conflagrations near Condon, Ramsey, and Mosier, and in Jackson and Josephine counties.

The OSFM was also mobilized to support suppression efforts at the Camp Fire in Paradise, California, in November — the most destructive fire in recent memory. Working together with the Oregon fire service, our staff handled these demands with professionalism and excellence.

Because OSFM teams are all-hazard, we also had the privilege of sending

two incident management teams to Florida to assist with the Hurricane Michael response, which saw 1,000 homes destroyed. One team helped to restore critical power, water, and transportation services to impacted areas. Mutual aid allows for response and recovery cooperation among states and embodies the collaborative spirit of disaster response.

The OSFM and its staff also are strong collaborators. We continued to strengthen current relationships and create new ones that bring value into our fire education and prevention programs. This includes expanding our fire safety inspection program and ensuring that facilities serving our most vulnerable populations — children, the elderly, those in foster and residential care -- are safe. Our staff maintained a strong supporting presence with the state's fire and building officials. They helped ensure the safety of commercial fuel operators statewide, and provided oversight of retail fireworks businesses and operators, while educating Oregonians to keep fireworks use safe and legal.

Our fire prevention success is also enhanced through our continued partnerships with the Oregon Department of Forestry, Keep Oregon Green, and the American Red Cross (ARC) Cascades Region. For example, our partnership with the ARC is offering the free installation of smoke alarms through the volunteer efforts of the ARC all across Oregon.

We also continue to rely on the many volunteers and groups such as the Oregon Fire Chiefs Association, Oregon Fire Marshals Association, Oregon Volunteer Firefighters Association, Oregon Fire District Directors Association, and the Oregon Fire Service Office Administrators Association. All of your work goes a long way to protecting your communities.

The following pages provide an overview of our highlights this past year. I could not be prouder of our entire OSFM team. Thank you for all you do and helping us meet our mission.

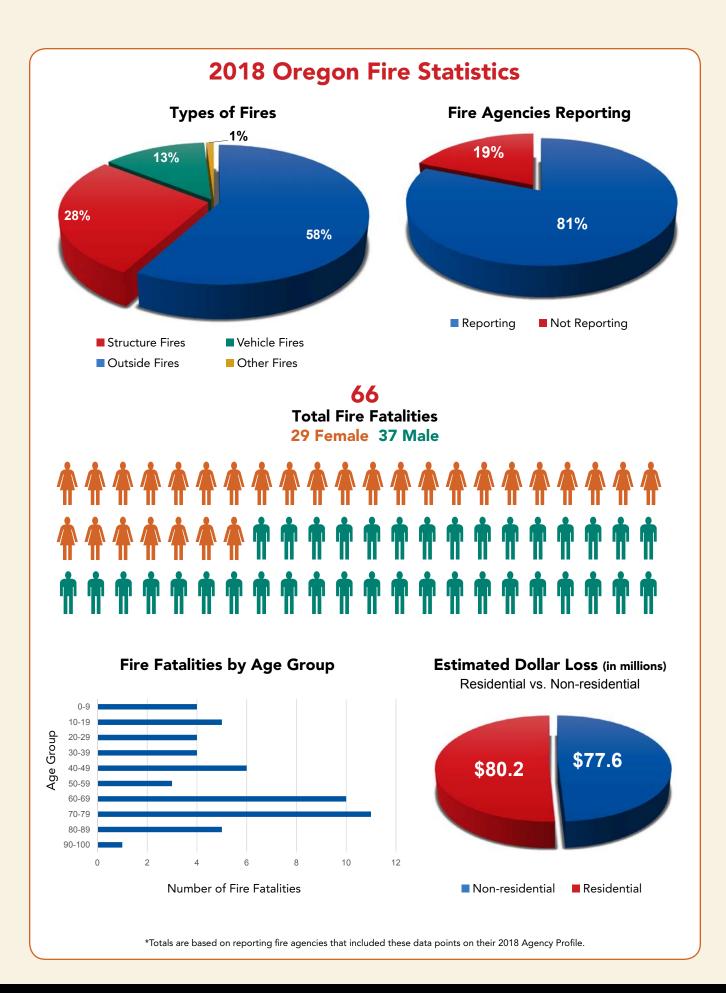
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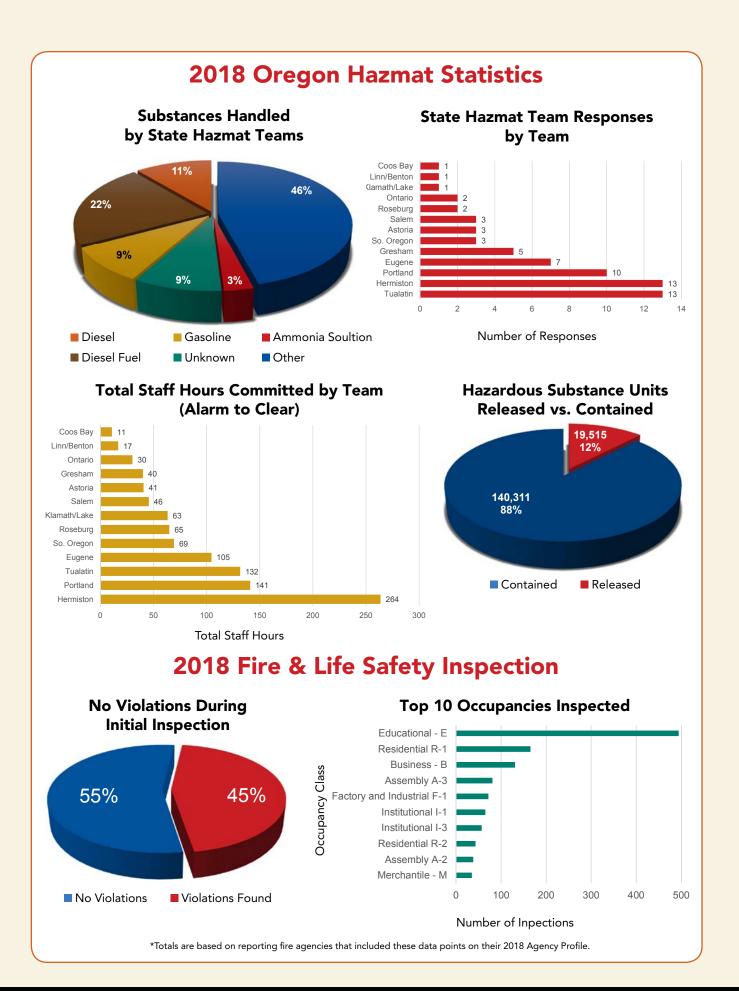
yim Walker Oregon State Fire Marshal



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LEADERSHIP DIVISION

The Leadership Division manages policy direction of the Office of State Fire Marshal. The leadership team works with legislators in coordinating legislative initiatives and changes to support the agency's mission, policy, and program needs, while seeking to increase efficiency and strengthen relationships with stakeholders, industry partners, and members of the fire service. This Division also develops the agency annual report and strategic plans, oversees the agency's budget, as well as administers the Oregon Fire Service Mobilization Plan along with managing the three OSFM Incident Management Teams.

Oregon Fire District Directors Association

Oregon State Fire Marshal Jim Walker was awarded the 2018 Oregon Fire District Directors Association President's Award at their conference in October.

The President's Award is given at the sole discretion of the OFDDA President. It is given only to those individuals who have gone above and beyond in their support of the OFDDA and the fire service.

OFDDA President Don Thompson praised Chief Walker for being a longtime friend and supporter of the Oregon Fire District Directors Association and for implementing and overseeing programs that protect Oregon's citizens, their property, and the environment from fire and hazardous materials. He walks the halls of the Capitol and testifies before the legislature on the status of conflagrations, the importance of training our firefighters, and he advocates for adequate funding to protect the lives and property of the people he serves.



International Association of Fire Chiefs Emergency Management Committee



Oregon Office of State Fire Marshal Chief Deputy Mariana Ruiz-Temple has been selected to serve on the International Association of Fire Chiefs (IAFC) Emergency Management Committee (EMC). There she hopes to strengthen national relationships and continue to grow the Oregon mutual aid system.

The IAFC represents the leadership of firefighters and emergency responders worldwide. Their members are the world's leading experts in firefighting, emergency medical services, terrorism response, hazardous materials spills, natural disasters, search and rescue, and public safety policy. IAFC members play a vital role in the association's governance, policy, and programs through the work of the committee.

The IAFC's Emergency Management Committee addresses issues of mutual aid and providing state-to-state coordination and oversight to the IMAS project. The EMC was officially approved by the Board of Directors in May 2006 and is supported by DHS's National Integration Center.

Sparky Awards

State Fire Marshal Jim Walker presented the Golden Sparky to Gretchen Erickson, Public Educator at Umatilla County Fire District #1.

For the past 14 years, Erickson has visited elementary schools throughout the Hermiston School District teaching students how to keep themselves and others fire safe. Over the years, Erickson's lessons have had an enormous positive effect on hundreds of school children. She is certainly deserving of the Golden Sparky.

Proof of Erickson's lifesaving effect on her students came in 2009 when Jazmin Silva, then a student at Desert View Elementary School, kept a cool head as things heated up during a fire at her home in January of that year. Shortly after black smoke starting filling the air in her home, Jazmin remembered Erickson's lessons and grabbed her 5-month old cousin, took her 2-year old cousin by the hand, and told her 7-year old cousin to hold onto her shirt as Jazmin led them outdoors to safety.

The Pendleton Lions Club received the Silver Sparky for embracing fire safety as one of its highest priorities. Club members have dedicated countless hours and resources to the elimination of fire-related injuries and deaths in their community through their smoke alarm installation efforts.

The Pendleton Lions Club is dedicated to the vision of having working smoke alarms in every residence in Pendleton. They have raised more than \$1,000 to purchase smoke alarms, and in partnership with the Pendleton Fire Department (PFD) they have distributed and installed hundreds of them in area homes. In addition, the club has collaborated with the OSFM and PFD on a focused effort in a low-income area of the city to ensure each residence has a working smoke alarm. Last October, club members, local volunteers, and members of the fire department installed 50 smoke alarms in this area of town in one weekend.









VILE COAST STATE COLLEGE PUBLIC

Oregon Became the First State to Endorse Mass Timber High Rises

Portland has become a model for the construction of tall wood buildings. At the Governor's Office request, Chief Walker attended The International Code Council's (ICC) Committee Action Hearings in Columbus, Ohio in April to participate in the development of code changes for tall wood buildings. The ad hoc committee was made up of code experts, stakeholders, and industry members. The hearings concluded with a clear endorsement of building codes that will enable the use of mass timber technologies in buildings ranging up to 18 stories. This move by the ICC ensures that model code provisions will be available to many more building officials, introducing standards and best practices for fireproofing, the loadbearing potential of cross-laminated timber and heavy timber, water resistance, sealing, seismic ratings, and more.

Hurricane Michael

On October 8, the Office of State Fire Marshal (OSFM) was approached by Oregon Emergency Management with an Emergency Management Assistance Compact (EMAC) request for a Type III All-Hazards Incident Management Team of eight positions for a 14-day deployment to Florida in anticipation of Hurricane Michael's landfall. One of OSFM's Type II Incident Management Teams was mobilized with incident command, finance, logistics, planning, and operations. On October 10, the team, led by Chief Hallman, departed Portland for Jacksonville, Florida. The team coordinated the re-establishment of infrastructures such as power, water, and transportation.

The OSFM and Oregon Department of Forestry, through the EMAC, received a request from the Florida Division of Emergency Management for a second All-Hazards Incident Management Team (IMT) to support the response to Hurricane Michael. On October 13, Chief Kunze, along with combined OSFM and Oregon Department of Forestry's IMT, reported to Bay County in the Florida Panhandle. The unified IMT provided leadership to the county for emergency management response by deploying resources for search and rescue. The team then shifted into recover mode, helping residents obtain transitional housing and getting kids back into schools.



2018 Mobilizations

The first day of summer brought the first conflagration of 2018 when the OSFM's Green Team and five structural task forces responded to the Graham Fire near Lake Billy Chinook. After three days, all resources returned to their home stations.

The next conflagration was declared July 17, for the Substation Fire burning near Moro, Oregon.

Just days later, another conflagration was declared for the Garner Complex in southwestern Oregon. In rapid succession OSFM mobilized resources to California to aid in response to the Mendocino Complex through the Emergency Management Assistance Compact (EMAC); back to the gorge for the South Valley Fire; north from Garner and Taylor to the Sugarpine and Miles Fires; to the Memaloose 2 Fire in Mosier.

There was no respite until the evening of August 12, when OSFM's Agency Operations Center (AOC) tracked the last resource safely home. Then on August 17, a conflagration was declared for the Stubblefield Fire near Condon, and on August 22 resources returned to Jackson County to assist in managing the Ramsey Canyon Fire.

All resources were home for nearly a week before the Hugo Fire threatened homes in Josephine County and the Red Team and four task forces mobilized to assist over Labor Day.

On October 14, the Klondike West Fire was declared a conflagration — the only October conflagration in history. OSFM's Red Team responded to the fire, which had been being managed by interagency teams for several months, along with five structural task forces. All structural resources were released on October 22, and it seemed that the 2018 fire season was over.

In the late evening of November 8, OSFM received word of an impending EMAC request for the Camp Fire in California. The following day, the AOC immediately began mobilizing 15 strike teams of engines. Ultimately, Oregon provided 287 personnel from 78 agencies. The majority of the resources worked six 24-hour shifts, and all Oregon resources were back in-station by November 21.

| Fire | Location (County) | Conflag Date | Demob Date | Duration (in hrs) | Structures Threatened | OR Task Forces/ Strike Teams | OR Fire Service Personnel |
|-------------------|------------------------|-----------------|---------------|----------------------|--------------------------|------------------------------------|---------------------------------|
| Klondike West | Curry | 10/14/2018 | 10/22/18 | 187.68 | 108 | 5 | 65 |
| Hugo | Josephine | 9/2/2018 | 9/4/2018 | 44.93 | 590 | 4 | 53 |
| Ramsey Canyon | Jackson | 8/22/2018 | 8/27/2018 | 139.97 | 498 | 6 | 79 |
| Stubblefield | Gilliam | 8/17/2018 | 8/24/2018 | 171.07 | 137 | 8 | 102 |
| Memaloose 2 | Wasco | 8/11/2018 | 8/12/2018 | 39.98 | 138 | 6 | 80 |
| Sugarpine/Miles | Douglas | 8/2/2018 | 8/12/2018 | 236.37 | 447 | 5 | 88 |
| South Valley | Wasco | 8/1/2018 | 8/5/2018 | 91.4 | 212 | 6 | 79 |
| Taylor Creek | Josephine | 7/30/2018 | 8/9/2018 | 245.62 | 3,292 | 11 | 169 |
| Garner Complex | Jackson & Josephine | 7/21/2018 | 7/30/2018 | 216.63 | 1,653 | 10 | 133 |
| Substation | Wasco | 7/17/2018 | 7/22/2018 | 113.93 | 1,363 | 13 | 195 |
| Graham | Deschutes | 6/21/2018 | 6/24/2018 | 74.33 | 204 | 5 | 70 |

2018 Oregon Conflagrations

2018 California Mobilizations

| Fire | Location (County) | OR Task Forces/ Strike Teams | OR Fire Service Personnel | OR Fire Agencies |
|-------------------|-------------------|---------------------------------|------------------------------|------------------|
| Camp Fire | Butte | 15 | 287 | 78 |
| Mendocino Complex | Mendocino | 3 | 53 | 16 |

Incident Management Teams

Office of State Fire Marshal's (OSFM) Incident Management Team program welcomed 17 new team members during the open recruitment period for the 2018 season. During that recruitment, it was recognized that there was a lot of interest in the recently-adopted PIOF position, but that many of the interested parties had not taken S-203, the wildland Introduction to Incident Information course required to act as a PIOF. Seeing the need, the OSFM worked with the Pacific Northwest Coordinating Group's Region 6 Training Committee to host the PIOF class in Hood River. Twenty-two students attended the course representing local, state, and federal agencies. After the course, the OSFM opened a selective recruitment for the PIOF position only and successfully recruited three additional PIOFs.

New IMT members were invited to attend the third annual Task Force Leader Symposium along with more than 100 current and future Task Force Leaders. Several new concepts were presented during the event, including the standardization of hazard and structural-specific flagging and the introduction of Survey123 as a structural triage tool during conflagrations.

In April, the OSFM and ODF co-hosted annual team training, allowing a venue for IMT members from both agencies to train together and continue to work toward a shared understanding of how to successfully unify command at incidents. One of the keynote speakers during the event was Blue Mountain Interagency Fire Center Manager Renae Crippen, who spoke to the group about critical incident stress management and how the federal agencies are preparing their personnel to deal with tragedy on wildfire.

The OSFM funded training opportunities for a number of students in 2018, helping team members attend S420 Command and General Staff as well as trainings for positions including Planning Section Chief, Finance Section Chief, and Operations Section Chief.



Metro Advanced Wildland School

OSFM employees and Incident Management Team members participated in planning and conducting the annual Metro Advanced Wildland School (MAWS) in Clackamas County on June 8 and 9, 2018. The training was provided free, thanks to a grant from Department of Public Safety Standards and Training. Approximately 100 students participated over the course of two days, representing more than 30 structural departments in addition to a contract crew and the National Guard.

2018 marked the Seventh year of MAWS and the third year of OSFM's involvement. This valuable training provides task book opportunities for Strike Team and Task Force Leaders, Engine Bosses, and Wildland Interface Firefighter Type 1 trainees. The training provides a realistic environment for students to practice skills learned in the classroom. MAWS is a unique opportunity for everyone involved to have conversations and work together in a low-stress environment and hone skills necessary for response to a wildland fire.

Eighteen Incident Management Team members participated in planning and staffing the event. Fully qualified team members and trainees worked alongside cadre members throughout the training, providing opportunities to participate in operational briefings and Incident-Within-an-Incident drills.



FIRE & LIFE SAFETY SERVICES

The Fire and Life Safety Services Division (FLSSD) continues to focus on the reduction of life loss and property damages due to fire. Through extensive, on-going collaboration and partnerships with community organizations, private industry, local fire departments, public safety officials, and building departments, the division has multiple compliance and enforcement programs that are constantly updated to improve efficiency, ensure customer service, and promote public safety.

The FLSSD provides services to Oregon fire agencies and expertise on new construction regarding access and water supply, fire code inspections, code interpretation, fire investigation and coordination, plans review of aboveground flammable combustible liquids and liquefied petroleum gas tanks, and consultation concerning adequate egress from all public buildings. This assures the protection of all places where large numbers of persons work, live, or congregate. The division also conducts surveys and plans review of Centers for Medicare & Medicaid Services healthcare facilities. The FLSSD also coordinates the competency recognition program, which helps to standardize training for fire code enforcement. Administrative staff in 2018 processed 250 requests for certificates in competency recognition training for Oregon fire service.

The Field Operations Unit

The Field Operations Unit consists of two Supervising Deputy State Fire Marshals (eastern and western region) and 13 Deputy State Fire Marshals (DSFM). Some responsibilities for this unit include fire investigations, fire and life safety inspections, and code enforcement. Staff serve as liaisons between state partners like Oregon Department of Forestry, local fire departments, and emergency management agencies during incidents such as a wildland fire conflagration. Each one of the 13 DSFM positions covers large regions across Oregon and develops strong relationships with the local fire departments and personnel in their assigned area. They provide invaluable assistance to local fire departments. In 2018 alone, they traveled more than 240,000 miles.

The DSFMs conduct or assist with origin and cause investigations for marine fires, vehicle fires, commercial and residential structure fires, wildland fires, and fires on unprotected lands. Of the 204 fires the DSFMs were requested to investigate in 2018, the combined dollar loss topped more than \$50 million. The fire causes ranged from 44 being incendiary (arson, human-caused), 98 accidental (weather, human involved), in addition to 62 undetermined. Through these investigations, the DSFMs provide critical information and investigatory support to their local fire chiefs whose jurisdictions may lack the resources to staff full-time fire investigator positions.

The DSFMs also provide training and demonstrating fire drills and correct use of fire extinguishers at public events, safety fairs, classes, and other community events with the goal of developing a safer Oregon through fire prevention acidities and saving lives and property. They completed 2,350 fire inspections at facilities that included schools, assemblies, lodging, apartments, wineries, multi-family housing in remote areas, businesses, daycares, special hazards, and more.



Aircraft Hangar Fire Suppression

Aircraft hangars, by their nature, pose unique challenges for the fire protection of contents, structure, occupants, and firefighting operations. Protecting these assets requires addressing these unique challenges. Oregon's amendments attempt to address the current trends within the aviation industry for small regional aircraft and corporate jet usage for point-to-point air travel.

As this trend grows, new aircraft hangar construction is anticipated to increase. The Building Codes Division (BCD) and the Office of State Fire Marshal (OSFM) have worked together to clarify the current statewide application of this exception. As many in the aviation industry are seeking greater allowances from installing foam fire suppression systems in aircraft hangars, the OSFM and BCD are committed to a complete review with the idea of revisiting the current exception with stakeholders input.

The goal of our review is to provide a reasonable degree of protection from fire for life and property in aircraft hangars, based on sound engineering principles, test data, and field experience. The OFSM believes that the solution to these challenges will involve collaboration between the general aviation industry, building officials, fire service, and the professionals who design, build and use these facilities.

Emergency Responder Radio Coverage

One of the lessons learned from the 9/11 terrorist attacks is that reliable in-building public safety radio coverage is vital to saving lives. For nearly a decade, Oregon fire code officials have implemented Emergency Responder Radio Coverage (ERRC) provisions for "In-building" public safety radio enhancement systems. These code provisions have been designed to ensure adequate indoor and outdoor radio signal coverage for emergency responders.

Oregon has developed scoping provisions and simplified the requirements for when ERRC is required. Section 510 of the Oregon Fire Code (OFC) was adopted and in applying the provisions outlined in the OFC, Joint Policy Bulletin No. 0002, was developed by the Oregon Fire Chiefs Association (OFCA), Oregon Fire Marshal's Association (OFMA), and Oregon Office of State Fire Marshal (OSFM), to provide: background, advice, and authority in guiding fire code officials in the application of the ERRC provisions.

The Codes and Technical Services Unit

The Codes and Technical Services Unit has two Deputy State Fire Marshals (DSFM) who provide above-ground tank plans review, code interpretations, and conduct state property inspections of vulnerable populations. The DSFMs consulted with architects, engineers, planning, zoning, building officials, Oregon fire service, and the general public and answered many questions regarding the Oregon Fire Code. The Codes and Technical Service Desk responded to and answered 859 requests during 2018 and reviewed more than 40 aboveground tank plan reviews. The DSFM, assigned to state properties, traveled more than 11,000 miles and inspected and re-inspected 249 properties in 2018. The unit also reviewed/revised the Exempt Jurisdiction program, and with input from stakeholders, continued code adoption process of reviewing the 2018 International Fire Code with Oregon Amendments (soon to be known as 2019 Oregon Adopted Fire Code).



In April of 2018, a Joint Policy Bulletin was initiated in collaboration between the OSFM and the Oregon State Police that provides information on consistent and concise application of fire investigations.

The State Fire Marshal is responsible for ensuring that a reasonable effort is made to determine the cause, origin, and circumstances of all fires, whether in a municipality, fire district, or an unprotected area.

The bulletin provides direction when there is evidence that may indicate the cause of the fire is suspicious or incendiary in nature; the investigation should be treated as a criminal investigation. The State Fire Marshal and or local fire jurisdiction shall ensure that the appropriate law enforcement agency is notified.

State Properties Inspection Program

The state properties DSFM traveled over 11,000 miles to inspect and re-inspect 249 vulnerable population state properties.

The OSFM collaborated with both the Oregon Department of Corrections and Oregon Youth Authority to ensure the fire and life safety of the residents and employees of state correctional institutions who occupy these facilities.

In general, many of the customary features used in a detention facility are nearly the opposite of what the fire code attempts to provide for other occupancy types. For example, the use of key-operated locks in egress components is often very much restricted. The normal traffic flow we are accustomed to in any other building is always restricted in a correctional setting, typically through the use of a sally port. Doors do not discharge directly onto the public way as they would in other buildings.

Because the safety of all occupants in detention and correctional facilities cannot be adequately ensured solely by dependence on the evacuation of the building, their protection from fire and other emergencies is provided by consideration of the following program areas:

- 1. Maintenance of building design, construction, and compartmentalization.
- 2. Provisions for early detection, staff notification, reaction, and suppression by automatic sprinkler systems.
- Fire prevention planning, training, and drilling programs for the isolation of fire and the transfer of occupants to safe areas or secure yards.
- 4. Provision of security necessary for the safety of the public and the occupants of the facility.



The Healthcare Unit

The Healthcare Unit, through strong collaboration and partnerships with the Oregon Health Authority and Department of Human Services, conducts unscheduled Life Safety Code (LSC) surveys at licensed healthcare facilities statewide such as skilled nursing facilities, ambulatory surgical centers, inpatient hospice facilities, hospitals, and end-stage renal disease facilities. These surveys evaluate the safety of the facilities and ensure compliance of the National Fire Protection Association (NFPA) 101 Life Safety Code and NFPA 99 Health Care Facility Code as part of the Centers for Medicare and Medicaid Services conditions of participation.

The three healthcare compliance specialists traveled more than 30,000 miles and conducted more than 220 life safety and emergency preparedness surveys of healthcare facilities. They also performed 57 building plan reviews of care facility remodels, reconstruction, and new construction for compliance with Life Safety Code requirements.



Regional Hazardous Materials Emergency Response Teams

The Regional Hazardous Materials Emergency Response Team Program (RHMERT) has served Oregon since 1989 as a critical component of the statewide Hazardous Materials Emergency Response System established in ORS 453.374 by **protecting citizens, their property, and the environment from hazardous materials** for three decades.

Oregon is believed to be the first state in the nation to organize and coordinate a statewide hazardous materials (Hazmat) response program through a collaborative partnership between the Office of State Fire Marshal (OSFM), over 18 local public safety response agencies, and the petrochemical transport industry.

Currently, 13 teams are strategically positioned across Oregon to respond to petrochemical spills or releases and are staffed by highly trained Hazmat technicians who complete 160 hours of initial training, followed by ongoing specialized training on both current and emerging Hazmat threats facing Oregon. Teams consist primarily of volunteer and career firefighters, with some law enforcement and public works employees. The OSFM works with the Hazmat teams to ensure proper training, equipment, and medical exams are provided to responders.

The 2018 Oregon Regional Hazardous Materials Emergency Response Teams Conference was held in April 2018 at Sunriver.

The conference delivered **4,080 total personnel hours of training to 136 attendees** on Hazmat transportation incident management strategies, life safety rescue techniques, product detection and identification methods, spill and leak control practices, and decontamination procedures.

During the conference, four members of Oregon's network of 13 regional hazmat teams were honored for their distinguished service and the contributions they make to both their local team and the statewide system.



HazMat by Rail Emergency Planning, Training, and Resource Coordination

Governor Kate Brown signed HB 3225 into law on July 20, 2015, making it part of Oregon Revised Statute 453.307 to 453.414 relating to the safe transport of hazardous materials. The law provides for the Office of State Fire Marshal (OSFM) to coordinate training, preparedness, and response planning activities with a specific focus on oil or hazardous materials spills or releases that occur during rail transport.

The Hazardous Materials Transportation by Rail program provides the OSFM with a specific focus to prepare communities along Oregon's railroads to respond to rail incidents involving hazardous materials. With a targeted concentration on communities along railroads, this program addresses another key element of collaborative governance:

 Equity – intentional engagement with all potentially affected communities will result in a more comprehensive analysis of potential impacts and is more likely to result in an equitable distribution of benefits and challenges.

The OSFM finalized a Hazardous Material Transportation by Rail State Agency Response Coordination Plan. This plan is an appendix within the Emergency Support Function (ESF) #10 in the Oregon Emergency Operations Plan (EOP). As guided by HB 3225, the OSFM coordinated the development of this plan along with its Emergency Support Function #10 (Oil and Hazardous Materials) lead partner— the Oregon Department of Environmental Quality — and additional supporting agencies, including the Department of Human Services, Department of State Lands, Oregon Department of Forestry, Oregon Department of Transportation, Oregon Fish and Wildlife, Oregon Health Authority, Office of Emergency Management, and Oregon State Police.

The OSFM's HazMat Rail Program funded the development of Local Emergency Planning Committee (LEPC) HazMat by Rail Emergency Response Plans in Benton, Clackamas, Klamath, Linn, Marion, Morrow, Multnomah, Polk, and Umatilla counties. Some of these plans have already been validated through tabletop exercises.

The OSFM funded the installation of one retired railroad tank car in Hermiston — donated by BNSF — for use as a training prop to practice firefighting, leak control, and other spill mitigation techniques. The tank car was placed with Umatilla County Fire District #1 at their training station, which is also the home of the OSFM Region No.10 HazMat Emergency Response Team. This is the third tank car prop donated by BNSF and UP to OSFM over the past two years, and locations now include Salem, Eugene, and Hermiston.

The OSFM facilitated the delivery of more than **2,000 hours of personnel training** on Hazmat by Rail Emergency Response and Incident Commander Courses.

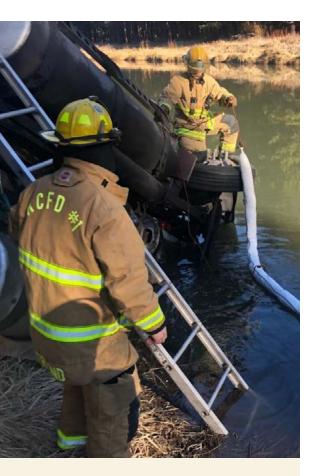


Oregon Hazardous Materials Emergency Response Teams

HM01 - Roseburg HM02 - Eugene HM03 - Gresham/Mult Co HM04 - Klamath/Lake HM05 - Linn/Benton HM07 - Portland HM08 - Southern Oregon HM09 - Tualatin HM10 - Hermiston HM11 - Astoria HM13 - Salem HM14 - Ontario HM15 - Coos Bay







State Emergency Response Commission (SERC) and Local Emergency Planning Committees (LEPC)

In Oregon, statute identifies the State Fire Marshal as the SERC. The SERC designates emergency planning districts, reviews plans developed by LEPC's, supports LEPC efforts to implement the federal Emergency Planning and Community Right-to-Know Act (EPCRA), and assist with hazardous materials training, education, and outreach activities in support of the SERC and LEPCs.

In Oregon, the SERC has chosen to establish counties as the geographic footprint of an emergency planning district, or LEPC. It is also permissible for multiple counties to work together in a joint-LEPC. The Mid-Valley LEPC, for example, is made up of Linn and Benton counties.

Local Emergency Planning Committees represent the essence of collaborative governance at the local level through the following benchmarks:

- **Capacity Building** Collaboratively working with communitybased organizations and increasing community capacity to participate affords an agency the opportunity to take advantage of the knowledge and expertise of local communities while strengthening their partnership abilities.
- **Engagement** Meaningful involvement requires early, frequent, and continuous public engagement throughout the decision-making process, ensuring that impacted communities not only have the technical ability but also the resources to meaningfully participate.



Through the federal Hazardous Materials Emergency Planning (HMEP) Grant, the Oregon SERC funded nearly \$250,000 in hazardous material emergency planning, training, and exercises events, including:

- A full-scale exercise in Philomath
- Two table-top exercises, one in Pendleton and one in Hermiston
- An extremely hazardous substance (EHS) evacuation plan for Umatilla County
- Three EPCRA-compliant LEPC plans, one each in Clackamas, Coos, and Multnomah counties
- Hazmat response training courses taught in Banks, Washington County, and Portland

Two counties — **Clackamas** and **Malheur** —joined Oregon's growing LEPC community in 2018 by formally establishing their local emergency planning committees.

Agency Operations Center (AOC)

The OSFM AOC Operations center supports the deployment of resources to major incidents under the Oregon Fire Service Mobilization Plan. Once personnel working in the AOC receive requests for resources, they identify and locate available resources across Oregon and mobilize them to the incident. Resources are tracked by the AOC from the moment they are deployed until they are demobilized and returned home.

The OSFM AOC mobilized statewide firefighting resources of **70 task forces and 21 strike teams** to 11 conflagrations in Oregon, and through the Emergency Management Assistance Compact sent firefighters to the Mendocino Complex and Camp Fire in California.





FIRE & LIFE SAFETY EDUCATION

Collaboration for Fire Safety

During 2018, Adult Fire Prevention and Safety (AFPS) focused on building stronger education programs to protect Oregonians, their property, and the environment from fire. Our partners are instrumental in providing effective solutions to their communities, and we have collaborated to provide resources to help address fire safety needs.

Through the biennial Oregon Fire Prevention Workshop, we were able to align resources and create a vision for addressing the fire safety needs of our communities. The education sessions provided a venue to increase knowledge of fire service and encourage program delivery by sharing information and creating opportunities for agencies to partner.

Oregon State University and University of Oregon Athletic Programs

The AFPS promoted fire prevention and brand awareness through co-branding with Oregon State University and the University of Oregon athletics programs by using the mascots and logos in



prevention materials. Products include sports beverage coasters, reusable shopping bags, and football game schedule cards.

- OSU and UO football, basketball, and baseball tabling events
- OSU program ads
- OSU radio ads, live in-game mentions
- UO game day sponsorship
- The Duck Store tabling event



Wildfire Awareness Month

Oregon's first Wildfire Awareness Week was proclaimed in May 2001. A multi-agency effort was led by the OSFM, and included the Oregon Department of Forestry, structural fire agencies, insurance industry representatives, and others. The campaign encourages the public to use this observance to prevent and reduce human-caused ignitions as well as home and property losses from wildland fires.

The AFPS participated with Keep Oregon Green (KOG), the Oregon Department of Forestry, and other wildland agency partners to support the 17th year of a wildfire awareness campaign, and the 10th year of Oregon's involvement in a multi-state proclamation. The OSFM collaborated with KOG to create Smokey Bear beverage coasters and contributed to KOG's media outreach campaign.



The Oregon Life Safety Team (OLST) provides leadership by bringing fire prevention and safety programs to Oregon fire agencies by creating awareness of our mission and strategies through the use of effective and consistent educational programs. The OLST worked on developing a Best Practices Guide for Public Educators, Youth Fire Prevention materials, and a Community Risk Reduction —Cooking Fires project to respond to community fire safety needs. Additionally, the team collaborated with the Oregon Fire Sprinkler Coalition to create a flyer.



Smoke Alarm Installation Program

The purpose of the Smoke Alarm Installation Program is to protect Oregonians by providing smoke alarms, at no cost, to residences that are otherwise unprotected. The program provides an opportunity for local entities to collaborate with the OSFM in addressing areas of their community that may be at risk due to lack of protection provided by working smoke alarms. The program provides smoke alarms and educational materials to Oregon fire agencies to conduct a smoke alarm project in their jurisdiction.

The AFPS provided 5,400 smoke alarms to Oregon fire agencies and the American Red Cross.

The American Red Cross installed more than 5,100 smoke alarms in over 2,200 homes in Oregon and Southwest Washington.



Smoke and Carbon Monoxide Alarm Law

AFPS provides training and technical assistance on Oregon's smoke and carbon monoxide alarm statutes and rules. AFPS provided training for 311 real estate agents, property managers, home inspectors, and others.

The OSFM is a continuing education provider and the training fulfills their educational needs.



OSAA

The OSFM Youth Fire Prevention & Intervention (YFPI) program is excited to have launched a partnership with the Oregon School Activities Association (OSAA) for the 2018-2019 school year. OSAA is a non-profit, board-governed organization comprised of its 291 member schools, both public and private, from across Oregon. They provide leadership and state coordination for the conduct of interscholastic activities and sponsor 116 state championships for students competing in 19 activities.

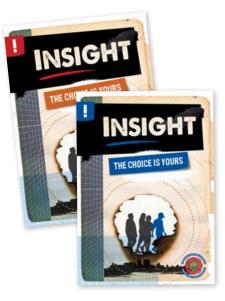
The OSFM staff hosted educational booths at two state championships in 2018 to promote fire safety and education for students, athletes, families, and school staff. These events included the Cross Country State Championships, hosted at Lane Community College, and the 6A State Football Championships in Hillsboro. In addition to these events, this partnership has included the opportunity to provide monthly messages from The State Fire Marshal's Office in OSAA's newsletter to school administrators and staff as well as the addition of the OSFM web banners at OSAA. org. The hope with this partnership is to find a new way to reach youth, schools, and communities to promote healthy choices in regards to fire safety.



Youth Fire Prevention & Intervention

Insight

The youth intervention program. Insight, has been an ongoing project with the YFPI program beginning in 2017. 2018 brought the completion of two workbooks that target youth ages 9-12 (Blue) and 13-17 (Red) who have been identified to have misused fire. The release of these workbooks has been accompanied by a number of presentations to community partners and the completion of two facilitator trainings in October where 34 professionals from both fire service and juvenile justice when trained from 18 counties throughout Oregon.



Learn Not to Burn

In April, the YFPI Program hosted Jeff Donahue from NFPA, who trained fire service partners from around the state in the Learn Not to Burn fire prevention curriculum for pre-school through second grade students. LNTB uses positive, practical fire safety messaging that is age appropriate and encourages collaboration between school and local fire service. Nineteen members of fire service and educators participated in this training from 13 different communities within Oregon.



Missing Children's Day

For the second year, YFPI joined our Oregon State Police partners in honoring National Missing and Exploited Children's Day. This event allows us to provide safety materials to youth and families at Salem Riverfront Park and collaborate with other agencies with a similar mission of increasing the safety of Oregon's youth and families.



Sound Off

The Michigan Public Safety Institute received a grant to continue its work with the Sound Off-Home Fire Safety Patrol program and chose Oregon, along with nine other states to participate in its implementation pilot. In 2018 the YFPI program was tasked with identifying two communities that were able and willing to participate in the pilot and bring this classroom curriculum to their local second and third grade classrooms. Bend Fire and Sisters-Camp Sherman Rural Fire District accepted the invitation, and in early 2018,10 firefighters and volunteers from these areas were trained in how to implement this program.



Child Abuse and Family Violence Summit



Each year the Clackamas County Sheriff's Office and the Domestic Violence Enhanced Response Team host a multi-disciplinary conference to educate professionals on the complex issues associated with child abuse and family violence. In April the YFPI Program was invited to host a table at this three and half-day conference where we provided youth fire prevention and intervention materials to youth-serving professionals from the fields of human services, law enforcement, juvenile justice, mental health, and education. This allowed for the opportunity to increase our partnerships throughout the state, as well as receive insight into fire intervention approaches from around the country. This is a very well attended conference of over 900 participants.



Analytics & Intelligence

The Analytics & Intelligence (A&I) unit's mission is to continue to improve the fire reporting accuracy and completeness of fire incident reporting. In 2018 the unit provided incident reporting support to Oregon fire agencies, and together the fire service exceeded the target goal of maintaining the statewide reporting validity average of 95 percent.

The A&I unit has completed the transition from the Oregon Fire Bridge[™] Software used for reporting incident response information to the new ImageTrend Elite system. This upgrade will improve incident reporting by offering a more user-friendly interface that is compatible with mobile devices. In addition, EMS has transitioned to ImageTrend Elite already, so the transition will allow our fire agencies to access their EMS and Fire data in one all-inclusive system.

This undertaking required an estimated workload of **1200 hours** comprised of the following efforts:

- Communication letters, emails, infographics, and Gated Wye articles regarding the transition
- Completion of the migration wizard for 316 Oregon Fire Bridge™ agencies
- Ensuring user account profiles were correctly set up in the new system
- Manual set up of supporting agencies list for requesting agencies
- Mapping resources and importing agency legacy data into Elite
- Providing over-the-phone training regarding use of the new system, and

Manual recreation of any requested Oregon
Fire Bridge™ Report Writer reports

The transition project was a significant accomplishment, led by Candice Clark, Fire Data Specialist. The outstanding success of the project's completion is a direct result of Clark's commitment to the project and the cooperation of our Oregon fire agencies.

The unit is responsible for providing guidance regarding fire incident coding, statistical analysis, and professional reports. Major accomplishments related to these tasks in 2018 included:

- Provided a wide range of support to more than 250 unique entities, which encompassed training on fire incident reporting, answering questions regarding fire data, and responding to public records requests. The unit's turnaround time for support requests in 2018 averaged less than one business day to respond.
- Completed more than 200 hours of analytical and research services.
- Piloted a project in partnership with an OSFM Deputy State Fire Marshal to review fire data and demographic information and "unpack the fire problem" at a local level.
- Conducted data analysis for the Oregon Life Safety Team that were used to direct fire safety education efforts in Oregon.
- Published a supplement to the annual report with data about fires and hazardous substances in Oregon.



REGULATORY SERVICES

Fireworks Program

The Fireworks Program promotes public safety through issuing permits for the wholesale of fireworks, retail sales of consumer fireworks, for the use of fireworks in displays, for the entertainment industry, and pest control. The program also issues certificates to qualified pyrotechnicians to use fireworks. The permitting process requires approval by the local fire authorities and, in some cases, local law enforcement to ensure fire and life safety risks are mitigated. The OSFM staff processed and issued 1,077 fireworks permits and 126 pyrotechnician certifications.

Liquefied Petroleum Gas Program (LPG)

The residential LPG program administers testing and licensing of LPG companies and their employees to perform work related to the handling of LPG and installation of LPG equipment and systems. To ensure safety for both the public and those who work in the industry, the LPG program conducts inspections of residential LPG tank installations and LPG bulk plants for compliance with the Oregon Fire Code and other LPG standards. In 2018, the Regulatory Services Division staff issued 1,326 company and employee licenses, inspected 354 residential LPG tank installations, and inspected 23 LPG bulk plants.

Non-Retail Fueling (Cardlock) Program

The Cardlock Program issues licenses for the operation of cardlock facilities in Oregon, and conducts audits of cardlock operator's customer records to ensure they are in compliance with the requirements. This includes providing training on how to dispense class one flammable liquids safely. The program also conducts fire and life safety inspections of each cardlock facility in Oregon to ensure compliance with the Oregon Fire Code and other established requirements. These activities help ensure the facilities operate legally and safely for all Oregonians and others who visit our state. In 2018, OSFM staff conducted 72 audits, inspected 1,895 customer records, and conducted 361 facility inspections.

Also in 2018, staff conducted a complete review of the Cardlock Program in partnership with industry stakeholders. As a result, several changes were made to the program including amending the program's administrative rules, updating the cardlock guidebook to assist owners and operators in administering their cardlock businesses, created other tools for operators, and updated internal forms and processes. Thank you to our industry partners for your participation in this project.



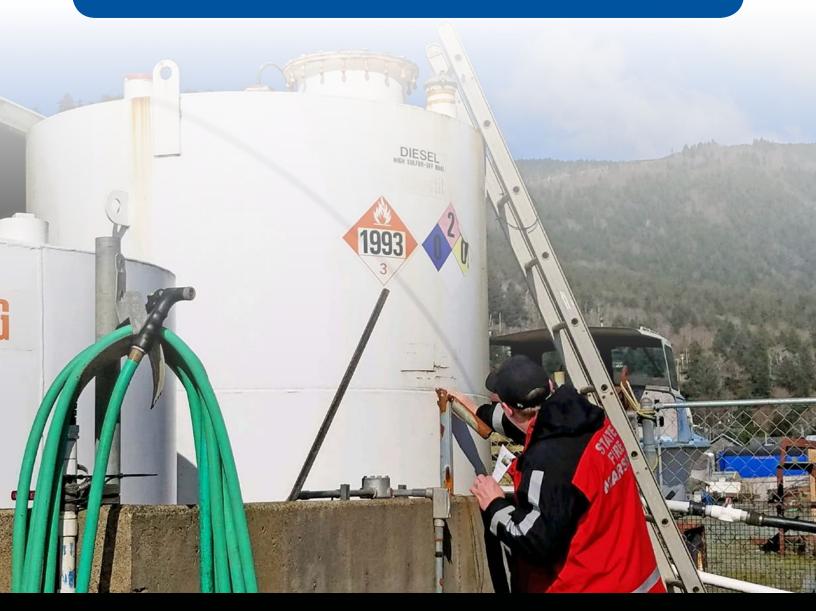


Community Right to Know

The Community Right to Know Program transitioned from a paper process to an online reporting process. The transition followed nearly four years of work with partners and stakeholders, including reporting facilities, state agencies, emergency planners, and emergency responders. The result was a paperless solution to meet Oregon's specific reporting needs and the purpose of the Community Right to Know and Protection Act.

Beginning Jan. 1, 2018, facilities were able to access the online reporting portal called Community Right to Know Hazardous Substance Manager (CHS Manager) to submit their hazardous substance information. Over the course of the year, more than 11,000 facilities submitted their report online. Less than 100 facilities elected to continue to submit by paper.

CHS Manager also streamlined many internal processes. This allowed for increased field work by compliance specialists. The focus of this fieldwork was to collaborate with the regulated industry to achieve compliance with reporting requirements. During 2018, more than 400 facilities were visited and provided with information about how to comply. Of these, over 20 were audited to confirm reported inventories. These numbers are expected to increase in 2019.



OSFM Organization Chart





Oregon State Police OFFICE OF STATE FIRE MARSHAL

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