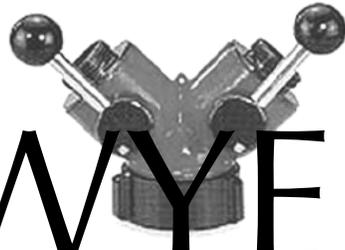


# GATED WYE



July 2016 · Oregon Office of State Fire Marshal · 3565 Trelstad Avenue SE · Salem, Oregon 97317 · No. 391

## New fire safety brochures available

The OSFM has available for order two newly developed education brochures covering cooking fire safety and yard debris removal & equipment fire safety. These are free to any Oregon fire agency.

Brochures are in both English and Spanish.

The cooking safety brochure covers general cooking safety tips for indoor and outdoor cooking. It also covers the steps to take if one experiences a cooking fire.

The brochure on yard debris removal and equipment safety covers tips on alternative methods of debris disposal, how to safely burn yard debris, and safety information on equipment and gasoline use.

To order your brochures, [access the OSFM Fire Prevention and Safety Education Material Request form.](#)



## Akawana Fire is first wildfire conflagration of the season

The OSFM Green Incident Management Team was activated on June 8th for this wildfire season's first declared conflagration, the Akawana Fire northeast of Sisters, Oregon.

Four task forces were deployed, representing Linn, Marion, Washington, and Yamhill counties.

Approximately 912 homes were threatened by the fire.

Task forces were successful in protecting structures and mitigating risks.

A change in the weather pattern allowed for the all task forces and the IMT to be demobilized by June 11th.

This lightning caused fire burned approximately 2,094 acres and was completely contained by June 14th.

# From the desk of the state fire marshal



“All of these responses are proof that training and exercises help us to be prepared...”

– Jim Walker

## Trial by fire, and more

As most readers may be aware, the entire OSFM staff along with all their associated office equipment was moved to a new location on Thursday, June 2nd. All of us expected a certain amount of disruption that comes with such a move, and the work it would take over several days to reestablish a viable working environment. What we didn't expect to happen in the middle of all this was the added workload of responding to the Mosier train derailment and its ensuing conflagration declaration the very next day, June 3rd, or a wildfire conflagration just five days later (the Akawana Fire).

Add to the mix: our agency's heavy participation in the week-long Cascadia Rising exercise, and the annual Wildland Firefighter School in Clackamas County.

We had staff on-scene and working in the Agency Operations Center for both the Mosier derailment and the Akawana Conflagration. We had staff working at the Oregon Emergency Management's Emergency Coordination Center, Joint Information Center, and with the National Guard at Camp Rilea for the Cascadia Rising exercise. And to wrap it all up, we had OSFM staff and IMT members working at the Metro Advanced Wildland School in the rural area of Clackamas County.

I am proud of our staff and partners for coming through with excellence during such a hectic and trying period. They accomplished all of this in addition to the day-to-day tasks that are necessary for keeping our headquarters running smoothly and conducting the business of the agency. That is an enormous accomplishment.

I also want to recognize the OSFM Green Incident Management Team Commander Les Hallman and everyone from the Green Team and others who filled in roles on the team, as well as the members of the four task forces that responded from Linn, Marion, Washington, and Yamhill counties for their professional and rapid response to the Akawana Fire.

see **Walker** page 3



**State Fire Marshal  
Jim Walker**

**Office of  
State Fire Marshal**

**Oregon State Police  
3565 Trelstad Ave. SE  
Salem Oregon  
97317**

**[www.oregon.gov/OSP/SFM](http://www.oregon.gov/OSP/SFM)  
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The Gated Wye is published monthly by the Oregon Office of State Fire Marshal. For submissions or suggestions contact Rich Hoover at 503-934-8217 or email [richard.hoover@state.or.us](mailto:richard.hoover@state.or.us). In compliance with the Americans with Disabilities Act, alternative formats of this publication are available.

Thanks also to OSFM Hazmat Team 3 for their response and many hours of work on the Mosier train derailment. Clackamas and Washington counties also deserve recognition for responding in the middle of the night with water tenders in support of the Mosier train derailment. You all arrived positive, prepared, and ready to work.

All of these responses are proof that training and exercises help us to be prepared, but ultimately, it's the execution of that preparation that determines the successful outcome.

These are all examples that reinforce to me the special relationships we have with all our partner agencies and how those agencies are staffed with exceptional people.

Thank you all for what you have done, and what you continue to do.

## New IMT Structural Protection Plan available

Members of the OSFM incident management team operations section and OSFM staff have developed a Structural Protection Plan that outlines, defines, and prioritizes mitigation actions for resources conducting structural preparation prior to, and during a wildland/urban interface fire.

Deployed structural resources will use the current Structural Protection Checklist to determine the risk to a structure, and then use the Structural Protection Plan to determine the appropriate level of structural preparation. The plan is [available for downloading on the OSFM website](#).

The document lists priority actions which research has shown to minimize the risk to structures during a WUI fire. The last part of the plan defines the tactical actions which can be used by resources. The majority of this vocabulary has been used historically by OSFM resources, but this is the first time it's been documented and distributed to responding agencies.

Research shows the roof of most structures is a critical ignition component during wildland fires. Clearing fuels from the roof, gutters, and from around the structure is considered to be the highest priority. Flushing gutters with water is also highly effective.

The OSFM intends to make this document part of the resource check-in packet. It is expected that IMTs be proactive about discussing the plan with arriving resources during quick tailgate trainings prior to engagement.

The OSFM asks that all fire agencies work to distribute this document and educate personnel as necessary.

The 2016 fire season is the first season utilizing this information, and it will be a key training focus at the next Task Force Leader Symposium, Incident Management Team Conference, and Fire Defense Board Meeting.

For questions, or if your agency would like training assistance on the plan, contact Mariah Rawlins at [mariah.rawlins@state.or.us](mailto:mariah.rawlins@state.or.us).



**5<sup>TH</sup> ANNUAL OREGON STATE POLICE  
FALLEN TROOPER  
MEMORIAL RUN**

**KIDS 1K**  
START TIME: 8:45AM  
\$22.00 RACE FEE\*

**CROSSFIT RELAY**  
(6 PERSON TEAMS)  
START TIME: 9:00AM  
\$27.00 RACE FEE\*

**10K RUN/WALK**  
START TIME: 9:15AM  
\$35.00 RACE FEE\*

**5K RUN/WALK**  
START TIME: 9:30AM  
\$27.00 RACE FEE\*

**VIRTUAL 5K**  
\$32.00 RACE FEE\*

**PLUS A BBQ MEAL!**  
BEGINS APPROXIMATELY AT 10:30AM  
SEPARATE \$5.00 FEE - MUST REGISTER FOR BBQ

**JULY 9  
2016  
CHAMPOEG  
STATE PARK**

REGISTRATION ENDS JULY 7TH, 2016 @ 8:00PM PST  
SIGN-UP THE DAY OF RACE: RACE FEE + \$5.00  
CHECK-IN STARTS AT 8:00AM  
RACE INFO: [OSPFALLENMEMORIAL@GMAIL.COM](mailto:OSPFALLENMEMORIAL@GMAIL.COM)

\*RACE FEE INCLUDE T-SHIRT AND MEDAL  
SHIRTS PROVIDED IF YOU REGISTER BEFORE JUNE 15

ALL PROCEEDS BENEFIT THE OSP FALLEN TROOPER MEMORIAL

# Mosier train derailment recap

by OSFM Hazmat Rail Coordinator Chad Hawkins

**O**n June 3rd, a Union Pacific train carrying 96 tank carloads of Bakken crude oil derailed near the city of Mosier.

Sixteen cars were confirmed derailed, four of which caught fire. Numerous federal, state, local, and private resources in Oregon and Washington responded, established Unified Command, and activated the NW Area Contingency Plan.

The NWACP, created and updated by the Region 10 Regional Response Team and the Northwest Area Committee, serves as the Area Contingency Plan and the Regional Contingency Plan for the northwest (Washington, Oregon, and Idaho), two US Coast Guard Captain of the Port Zones (Puget Sound and Columbia River), and the US Environmental Protection Agency's Inland Zone.

All federal, state, tribal, and local response organizations that are members of the Region 10 Response Team or the Northwest Area Committee use this plan for responses to hazardous materials spills, drills, and exercises.

Evacuations for the specified areas of Mosier were coordinated with multiple law enforcement agencies in a very efficient and effective manner.

Early on, the objective was to maintain a safe distance from the tank cars while applying copious amount of water to cool both the fully involved and exposed tank cars.

When the fire intensity reduced, foam was applied to extinguish it early on June 4, 2016. Thankfully, there were no injuries on the incident.

In conjunction with House Bill 3225, and with cooperation from the railroads, preparations for an incident like this have been ongoing. The OSFM will be taking delivery of seven foam firefighting trailers to be strategically placed along rail routes and housed with local fire departments for emergency response to flammable liquid fires.

The OSFM, in coordination with its partners has conducted numerous individual and group trainings and exercises to increase the efficiency and effectiveness of first responders.

Although much progress has been made,

the OSFM continues its planning and training efforts with all involved agencies to improve the response and mitigation operations of hazardous rail incidents in the interest of safety to all Oregon residents and visitors.

## NFPA 1035 Juvenile Firesetter Intervention Specialist I Training in September

**S**andy Fire District #72, the Clackamas County Fire Prevention & Intervention Network, and the Oregon Office of State Fire Marshal Youth Fire Prevention & Intervention program are sponsoring two days of NFPA 1035 Juvenile Firesetter Intervention Specialist I training at the Sandy Fire Annex Building, 17459 SE Bruns Avenue, Sandy, Oregon, from 8:00 a.m. to 5:00 p.m., September 8th and 9th, 2016.

Training is provided at no cost. All travel, meals, lodging, or other expenses are the sole responsibility of the attendee.

Registration is required for all attendees.

Class size is limited. Registration is on a first come, first serve basis.

The 16-hour training provides an overview of Oregon's Juvenile Firesetter Intervention Program. Topics include: policies, procedures, laws, child development and communication, practice using the Oregon Juvenile with Fire Screening Tool, educational fire safety resources, reporting and data collection, and networking steps.

The class helps prepare fire service personnel for completion of the knowledge portion of the task book as required by the Department of Public Safety Standards and Training for the National Fire Protection Association 1035 certification as a Juvenile Firesetter Intervention Specialist I in Oregon.

The online registration form is available on the [OSFM website](#).

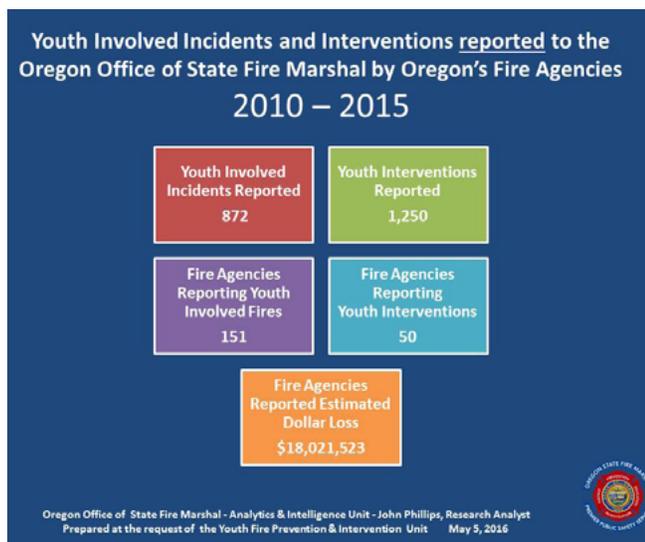
[The 2015 OSFM Annual Report Supplement is now available online.](#)

# What do we know about the reporting of Youth Fire Incidents and Interventions?

January 1, 2010 marked the beginning of the Office of State Fire Marshal's use of Oregon Fire Bridge™ a new web-based response reporting system. It also marked the end of an era of paper based reports such as the Form 10 (Incident Report) and Form 10J (Juvenile Report).

As with all transitions, there were hiccups here and there to be tweaked, massaged, revised, reviewed, and updated on a regular basis as more and more users input past data.

So, after five years, here is a snapshot of youth-involved incidents and interventions as reported to OSFM by fire agencies across the state.



The database of information provided continues to grow each year as agencies become more familiar with the program and the different modules available.

While we know the number of youth-related fire incidents and interventions are still unreported, each year we continue to gather more information that is more accurate and complete, providing us with a better picture of where we need to grow and revise our prevention and intervention resources.

# Oregon Fire Service Honor Guard needs volunteers

The Oregon Fire Service Honor Guard is seeking new members to help support its effort of providing services at funerals and other ceremonies throughout Oregon. The OFSHG is a non-profit organization under the auspices of the Oregon Fire Chiefs Association.

All members are completely volunteer. Members of the guard include career and volunteer firefighters and fire agency staff members. There is no reimbursement for their commitments.

Members commit their time because they believe in giving back and selflessly honoring those who have given everything of themselves to the fire service.

Requirements include:

- Be a member of an Oregon fire service organization
- Have the full support of your fire chief
- Have signed consent to be covered under your departments workers compensation plan while traveling and attending an approved honor guard event
- Attend a minimum of one training event and two other events per year
- Complete and pass all probationary requirements

The OFSHG is also responsible for the annual ceremonies at the Oregon Fallen Firefighters Memorial at the Oregon Public Safety Academy campus in Salem.



For more information and a member application, visit the [OFSHG website](#) or contact State Commander Amanda Schmitt at 503-869-8559 or email [ofshg.statecommander@gmail.com](mailto:ofshg.statecommander@gmail.com).

# HAZMatters: Responding to bug bomb incidents

by OSFM Emergency Response Branch Manager Michael Heffner

## Case review

Engine 6 is dispatched to a senior living facility on a fire alarm. Minutes later, dispatch calls to report the alarm is due to a “bug bomb” and patients are complaining of respiratory distress, skin and eye irritation, abdominal cramps, and malaise. Engine 6 responds to the facility and requests the call be upgraded to a hazardous materials alarm with a hazmat team, ladder truck, ambulances, and an EMS supervisor responding.

## Total release fogger hazards

Commonly pressurized and packaged in total release foggers – often referred to as “bug bombs” – pyrethrins are an extract of chrysanthemum flowers which is absorbed by insects, causing paralysis (Roberts & Reigart, 2013). While pyrethrins are generally not harmful to humans, exposure may result in respiratory distress, skin and eye irritation, gastrointestinal ailments, and neurological symptoms such as paresthesia (Hudson, et al., 2014). Another hazard is that some foggers may be pressurized with flammable propellants, so it is important to keep their vapors away from ignition sources (CDPR).

## Incident priorities

On arrival, Engine 6 established the priorities of locating and removing victims to fresh air, ventilating the structure, and triaging those exposed. Firefighters assigned to the evacuation group donned turnouts and SCBA – giving consideration to wearing medical gloves under their fire resistant gloves – and assisted residents out of the building. The ladder truck crew isolated the affected area of the facility and ventilated the structure. Members of the hazmat team researched the product, conducted air monitoring, and prepared a plan to decontaminate patients and responders if needed.

Ultimately, none of the victims sought transport to the hospital as their symptoms began to resolve once outside. As is becoming standard practice, firefighters performed a gross decon of their turnouts on-scene and later laundered their gear to prevent any secondary exposures.

## Resources for response

The OSFM’s network of 13 Regional HazMat

Teams are equipped to assist with releases of pesticides such as pyrethrins and are furnished with detection equipment, chemical protective garments, and decontamination systems. The teams are also a resource for planning and training for such incidents. To connect with the team in your area, contact HazMat Team Program Coordinator Jamie Kometz at 503-934-8280 or [jamie.kometz@state.or.us](mailto:jamie.kometz@state.or.us).

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- CDPR. (n.d.). Don't drop the 'bomb' without safety check. California Department of Pesticide Regulation. Retrieved from [www.cdpr.ca.gov](http://www.cdpr.ca.gov)
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- NPIC. (2014). Pyrethrins general fact sheet. Retrieved from National pesticide information center: <http://npic.orst.edu>
- Roberts, J., & Reigart, J. (2013). Pyrethrins and pyrethroids. In *Recognition and management of pesticide poisoning*. Washington, D.C.: U.S. Environmental Protection Agency.

## NFPA announces this year’s Fire Prevention Week theme

This year’s national Fire Prevention Week theme, chosen by the National Fire Protection Association, is “Don’t Wait: Check the Date! Replace Smoke Alarms Every 10 Years.”

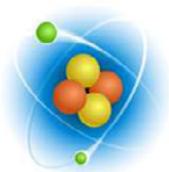
A recent NFPA survey showed that only a small percentage of people know how old their smoke alarms are or how often they need to be replaced. Oregon will again mirror the national campaign, and celebrate for the entire month of October.



Stay tuned for more information about the Office of State Fire Marshal’s Fire Prevention Month campaign; future Gated Wye issues will provide additional details.

To review and order materials to support year-round local fire prevention and fire safety education efforts, use [the OSFM online order form](#).

For questions, contact the OSFM Fire and Life Safety Education Branch at [osfm.ce@state.or.us](mailto:osfm.ce@state.or.us) or 503-934-8228.



## Chemical of the month

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# Ammonium Persulfate $(\text{NH}_4)_2\text{S}_2\text{O}_8$

(ammonium peroxydisulfate; peroxydisulfuric acid, diammonium salt)

### Description:

- Colorless to light straw crystals or powder, odorless
- Strong oxidizer
- Hazard classes: 5.1 oxidizer; 6.3 acute health hazard
- CAS No.: 7727-54-0
- UN-NA No.: 1444

### NFPA 704 Placarding Information:

- Health – 2
- Flammability – 0
- Reactivity – 1
- Special Notice – OX

### Uses:

- Oxidizer and bleaching agent
- Used in photography, electroplating, preserving food, depolarizing batteries, and washing infected yeast
- Etchant for printed circuit boards and copper
- In the manufacture of other persulfates, deodorizing and bleaching oils, and aniline dyes

### Reactivity and Fire Risk:

- Normally stable when pure and dry
- Hazardous polymerization cannot occur
- Incompatible with: sodium peroxide; iron, solutions of ammonia and silver salts, powdered aluminum and water, zinc and ammonia, sodium oxide, and hydrogen
- Explosion hazard when mixed with finely powdered organic material, metal powder, or reducing agents
- Non-combustible. It is a strong oxidizer capable of igniting combustible materials
- Heating or contact with water releases oxygen and may intensify existing fire

### Health Hazards:

- Causes irritation or burns to eyes, skin, and respiratory tract
- Possible allergic reaction with tearing, difficulty breathing, and life-threatening shock

### Personal Protective Equipment:

- Normal conditions: Wear chemical safety

glasses or goggles and any other protective clothing to prevent any possibility of exposure to skin

- Fire conditions: Wear full protective clothing with full-faced, positive pressure SCBA

### Inspection and Storage Tips:

- Store in cool, dry area away from sources of heat or moisture
- Must be stored away from incompatible materials as well as strong reducing agents and combustible materials
- Avoid storage on wooden floors

### Article 80 Storage Information:

- Class 2 oxidizer
- S occupancy exempt amounts allowed per control area:
  - Unprotected by sprinklers or approved storage cabinets: 250 pounds
  - In sprinkled building, not within approved storage cabinets: 500 pounds
  - In un-sprinkled building, within approved storage cabinets: 500 pounds
  - In sprinkled building, within approved storage cabinets: 1000 pounds
- For storage of quantities exceeding the allowed exempt amounts for an S occupancy, the storage facility must conform to H-7 occupancy requirements as outlined in the Uniform Building Code

### Incident and Reporting Information:

- There have not been any hazardous materials incidents involving ammonium persulfate reported in Oregon
- The Annual Hazardous Substance Information Survey shows four facilities in Oregon that have reportable quantities of ammonium persulfate on site (500 pounds or more)

For questions or suggestions, call 503-378-6835.

## Medford gets its first Firewise Community

**M**edford Fire-Rescue and the Oregon Department of Forestry have announced that the Eagle Trace Subdivision has been designated as the first Firewise Community in the city, through the National Fire Protection Association.

The Eagle Trace community is in a wildfire risk area in the foothills of East Medford.

Residents are well aware of the potential risk, as two wildfires occurred in this area after the subdivision was established; one in 1994 and another in 2009.

The subdivision is approximately 78 acres and includes 232 homes.

Residents have taken efforts to reduce the wildfire risk by becoming educated in mitigation efforts and working to make their properties more resistant to wildfire.

Last year, the Eagle Trace Homeowners Association voted to pursue efforts toward Firewise Community status.

In March 2016, the homeowners association held a Firewise clean-up day where participants reduced flammable vegetation around their homes.

In addition, personnel from Medford Fire-Rescue and the Oregon Department of Forestry assessed the area and advised homeowners how to decrease the risk of losing their homes to a wildfire.



*Residents of the Eagle Trace subdivision in Medford, Oregon working together to make their neighborhood Firewise.*

## Retirement

### Chief Roland Glade Thomas Creek/Westside RFPD



Fire agency staff and community members send a big thank you to Fire Chief Roland Glade of the Thomas Creek/Westside Rural Fire Protection District in Lakeview, Oregon, for your 30 years of service.

After joining the department as a firefighter in April 1986, Roland rose through the ranks to become Assistant Fire Chief in July 1999, and then on to Chief in July 2004. As of June 1, 2016 he is on to a well-deserved life of retirement. Enjoy!

## Apparatus for sale

The Corvallis fire department is selling a 1988 Freightliner Type II tender model FLD-120, and a 5-person International ICS Type III-X wildland engine (X denotes all wheel drive) capable of operating from tank, draft, and hydrant. The brush truck has a front-mounted 18,000 lb. hydraulically driven winch. The drive train consists of a 392 ci. V-8 gasoline engine, 4-speed Allison automatic transmission, 2-speed transfer case, part time AWD, and automatic front hubs.

The tender is equipped with:  
3000 gallon galvanized tank  
500 gpm pump  
Caterpillar 3406  
Allison HT-740  
Alcoa aluminum wheels

The brush truck is equipped with:  
500 gallon "wet side" tank  
Waterous 300 G.P.M. engine driven pump which allows pump and roll  
Five 1 1/2" hose outlets  
Two booster reels  
Two 3" steamer ports

Contact Josh Hazen at 541-766-6471 or email [josh.hazen@corvallisoregon.gov](mailto:josh.hazen@corvallisoregon.gov).