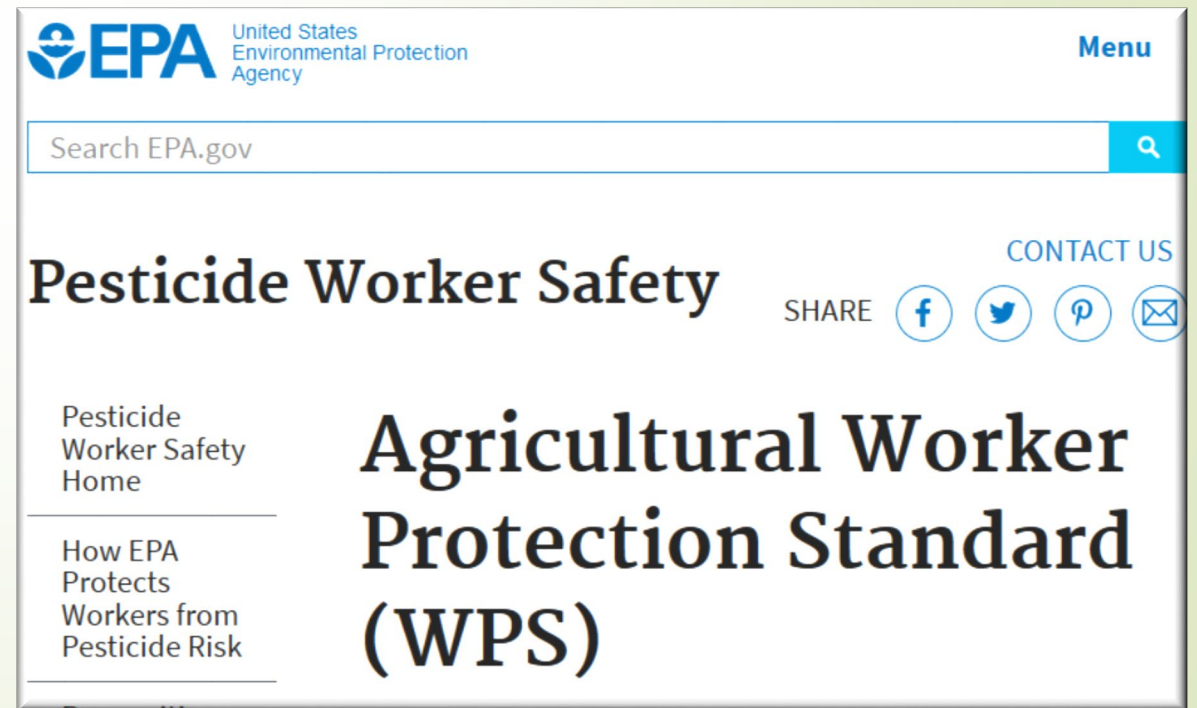


Revised Agricultural Worker Protection Standard for Forestry

Carol Black

Washington State University

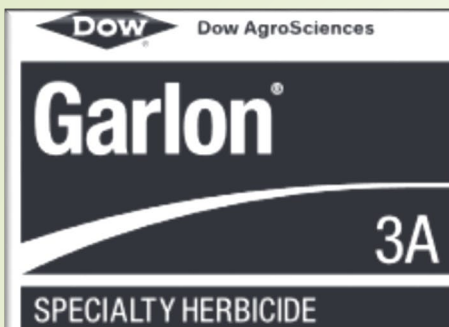


The screenshot shows the EPA website interface. At the top left is the EPA logo with the text "United States Environmental Protection Agency". To the right is a "Menu" link. Below the logo is a search bar with the placeholder text "Search EPA.gov" and a magnifying glass icon. The main heading is "Pesticide Worker Safety" in a large, bold font. To the right of this heading is a "CONTACT US" link and a "SHARE" button with icons for Facebook, Twitter, Pinterest, and Email. Below the heading, there are two columns of text. The left column contains "Pesticide Worker Safety Home" and "How EPA Protects Workers from Pesticide Risk". The right column features the large heading "Agricultural Worker Protection Standard (WPS)".



What is the “agricultural” Worker Protection Standard?

- **US EPA** has primacy over pesticides and worker safety –
Not US OSHA
 - **OR-OSHA and WA LNI co-regulate** with EPA and Depts. of Agriculture
 - Seek OREGON specific rules
- Farms, **forests**, nursery, greenhouse, enclosed spaces
- **Plant production only** (not animals, post production)
- 1992 initial implementation;
revised 2015, **full implementation January 2018**



*Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

For the control of woody plants, broadleaf weeds in range and pasture, forests and non-crop areas, including manufacturing and storage sites, rights-of-way such as electrical power lines, communication lines, pipelines, roadsides, railroads, fence rows, non-irrigation ditch banks, and around farm buildings; and applications to grazed areas, and establishment and maintenance of wildlife openings, and in Christmas tree plantations and aquatic sites.

For use in New York State, comply with Section 24(c) Special Use Labeling for Garlon 3A, SLN NY-110005.

GROUP	4	HERBICIDE
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Active Ingredient:

Triclopyr: 2-[3,5,6-trichloro-2-pyridinyloxy]acetic acid, triethylamine salt	44.4%
Other Ingredients	55.6%
Total	100.0%

Acid equivalent: triclopyr - 31.6% - 3 lb/gal

Precautionary Statements

Hazard to Humans and Domestic Animals

EPA Reg. No. 62719-37

DANGER

Corrosive • Causes Irreversible Eye Damage • Harmful If Swallowed Or Absorbed Through Skin • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reaction In Some Individuals

Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective eyewear
- Chemical-resistant gloves (≥14 mils) such as butyl rubber, natural rubber, neoprene rubber or nitrile rubber

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

Wash thoroughly and get on clean clothing

- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5944 for emergency medical treatment information.

Note to Applicator: Allergic skin reaction is not expected from exposure to spray mixtures of Garlon 3A herbicide when used as directed.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Environmental Hazards

Do not contaminate water when cleaning equipment or disposing of equipment washwaters. Under certain conditions, treatment of aquatic weeds can result in oxygen depletion or loss due to decomposition of dead plants, which may contribute to fish suffocation. This loss can cause fish suffocation. Therefore, to minimize this hazard, do not treat more than one-third to one-half of the water area in a single operation and wait at least 10 to 14 days between treatments. Begin treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas. Consult with the State agency for fish and game before applying to public water to determine if a permit is needed.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Physical or Chemical Hazards

Combustible. Do not use or store the product near heat or open flame.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Shoes plus socks
- Protective eyewear
- Chemical-resistant gloves (≥14 mils) such as butyl rubber, natural rubber, neoprene rubber or nitrile rubber

US 40 CFR Part 170

Adopted/amended by states

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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- Chemical-resistant gloves (≥14 mils) such as butyl rubber, natural rubber, neoprene rubber or nitrile rubber

Employee Classification

[Oregon Small Woodlands Association](#)

➤ Handlers

- Mix and Load
- Apply
- Equipment cleanup and maintenance

➤ Workers

- *work in a treated area during the **30-day period following treatment***
- Hand labor, planting, site prep
- Scouting, tree measurement
- Thinning, harvesting



WPS impacts treated areas related to forest production

► Production activities

- Seedling greenhouses
- Herbicide release of seedlings for fiber production

► Does not apply

- Harvested timber
- Right of way vegetation management



pfla.bc.ca



ForestInfo.ca



2015 Revisions

- **Minimum age 18**

- Hander
- Early entry workers

- **Pesticide safety training** for handlers & workers

- Training interval
- Recordkeeping
- Training content expanded
- Approved trainers
- Approved training materials

- **Notification** about applications

- **Display and Info Access**

- Safety posters
- Application records
- Safety Data Sheets

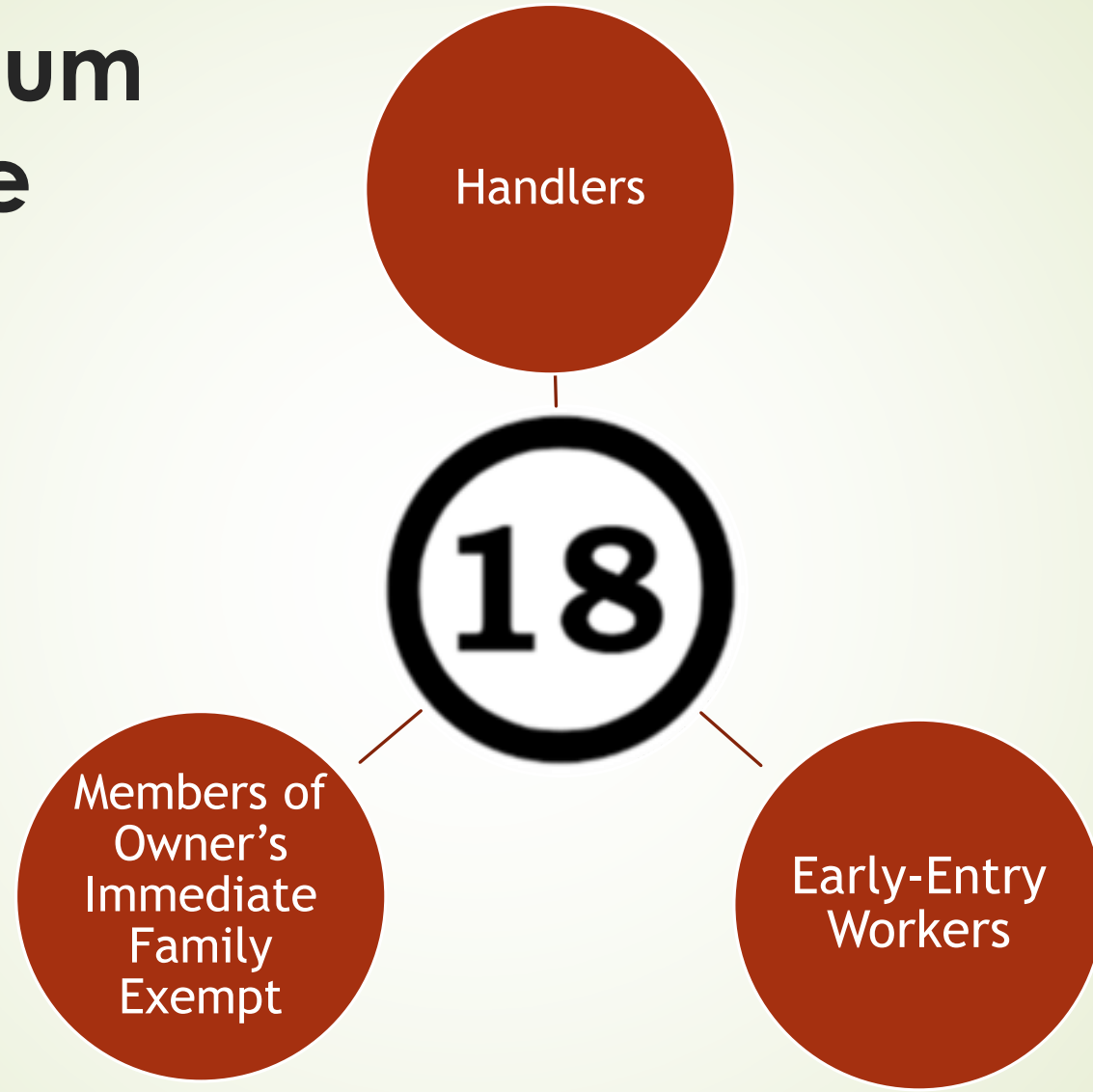
- **Exclusion zone** (stop spraying in personnel are “near”)

- **Decontamination**

- **Respirators** requirements



Minimum Age



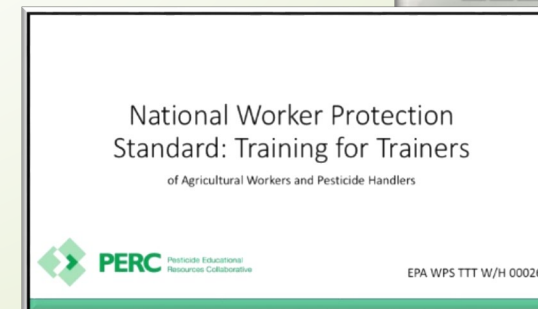
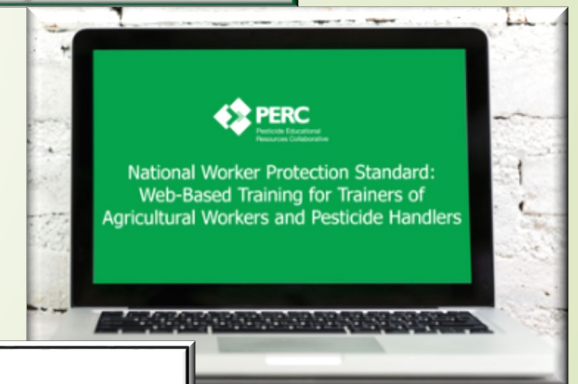
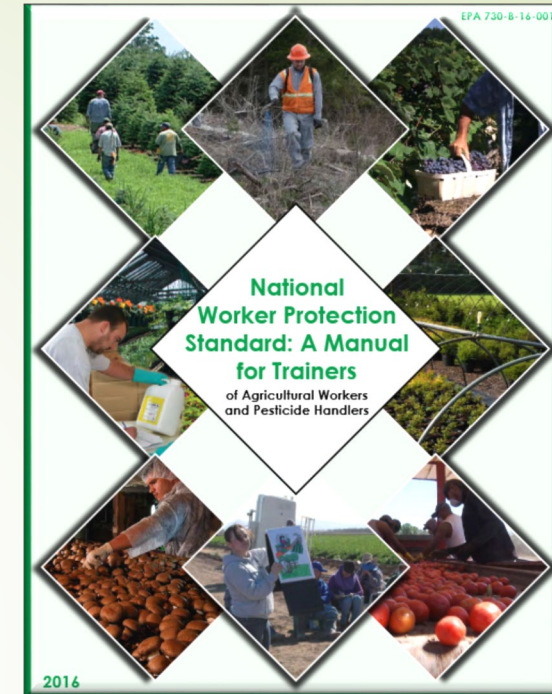
Pesticide Safety Training – employer responsibility

- **Annual** training
- **No** grace period
- **Records – two years**
- **Training content expanded**
 - 23 points for workers
 - 36 points for handlers
 - Take home exposures
 - Hazards to family members



Pesticide Safety Training

- **employer responsibility**
- **Restricts who can conduct training**
 - **Certified applicators**
 - **“Trained” Trainers**
 - Complete a train the trainer course
- **Train with only EPA-approved materials**



Additional Training Requirements

- Trainers must **remain present and answer questions**
- Delivered in a manner that trainees can understand
- Delivered in a place that's conducive to learning, and relatively free of distractions



Pesticide Education Resources Collaborative

<http://pesticideresources.org>



Compliance Assistance Library

[Does the WPS apply to you?](#)

[Frequently Asked Questions and Guides for:](#)

- [Agricultural Workers](#)
- [Pesticide Handlers](#)
- [Agricultural Employers](#)
- [Crop Advisors](#)
- [Labor Contractors](#)
- [Trainers of Workers](#)
- [Trainers of Handlers](#)
- [Commercial Pesticide Handler Employers](#)

[WPS Training Videos for Workers and Handlers](#)

WPS "How to Comply" Manual

This [manual](#) will be helpful to agricultural employers and commercial pesticide handling operations as the newly revised regulation goes into effect (partially) on January 2, 2017.

WPS Training Materials

This collection has videos, booklets, flip-charts, and presentations for official (EPA-approved) WPS training. For a wider collection, see our [Inventory of WPS training materials](#).

Spanish-language training materials are now available in [English](#) and [Spanish](#).

Materials for Training Trainers

WPS Respiratory Protection Guide

This [guide](#) will explain the new requirements for agricultural employers and pesticide handlers when pesticide labels require the use of a respirator.

Updated WPS Posters

Under the WPS, specific information must be available to agricultural workers and pesticide handlers at all times during their working hours. Visit our [Central Posting Materials](#) page to download the updated posters.

WPS Handouts

- [Quick Reference Guide \(8.5 X 11\)](#)
- [Quick Reference Guide \(8.5 X 14\)](#)
- [Quick Reference Guide — Spanish \(8.5 X 11\)](#)
- [Is WPS training needed? What employers need to know.](#)
- [Checklists for Employers](#)
- [Compliance Requirement Schedule](#)

Central Display: Pesticide Information & Recordkeeping

- Workers/Handlers access to:
 - Pesticide safety poster
 - Pesticide application info (30 days)
 - Safety Data Sheets (SDS)
 - For when their employment period and application times

Pesticide Application Record for _____ (Farm unit, business name, etc.)										
Date: Mo/Da/Yr Start Time: End Time:*	Crop or Site Treated*	Location and Description of Treated Areas*	Wind Speed/ Direction/ Temp	Active Ingredient* Brand or Product Name*	EPA Registration Number*	# of Units or Acres	Total Amount of Product (oz., lb., pt., gal. indicator)	Applicator Name and Certification Number	Restricted Re-Entry Interval (REI)**	
									Duration (Hours)	Expiration (Mo/Da/Time)

Protect Yourself from Pesticides
Proteja de los Pesticidas

IN AN EMERGENCY, EN UNA EMERGENCIA:

Get medical help quickly. Busque atención médica inmediata.

If you need an ambulance, tell them where you are. Si usted necesita una ambulancia, díganos dónde se encuentra.

If you have questions or concerns, call the pesticide regulatory agency. Si tiene preguntas o inquietudes, llame a la agencia reguladora de pesticidas.

FOR MEDICAL TREATMENT INFORMATION, CALL THE PESTICIDE CONTROL CENTER: 1-800-233-1232. PARA INFORMACIÓN SOBRE TRATAMIENTO MÉDICO, LLAME AL CENTRO DE CUIDADOS DE EMERGENCIAS: 1-800-233-1232.

PERC



Central Display: Pesticide Information & Recordkeeping

- Employees may **designate a person** in writing to have access to this information
- Keep pesticide application records, SDS, and training records for **two years**

Pesticide Application Record for _____
(Farm unit, business name, etc.)

Date: Mo/Da/Yr Start Time: End Time:*	Crop or Site Treated*	Location and Description of Treated Areas*	Wind Speed/ Direction/ Temp	Active Ingredient*	EPA Registration Number*	# of Units or Acres	Total Amount of Product (oz., lb., pt., qt., gal. indicator)	Applicator Name and Certification Number	Restricted Re-Entry Interval (REI)*	
				Brand or Product Name*				Duration (Hours)	Expiration (Mo/Da/Time)	



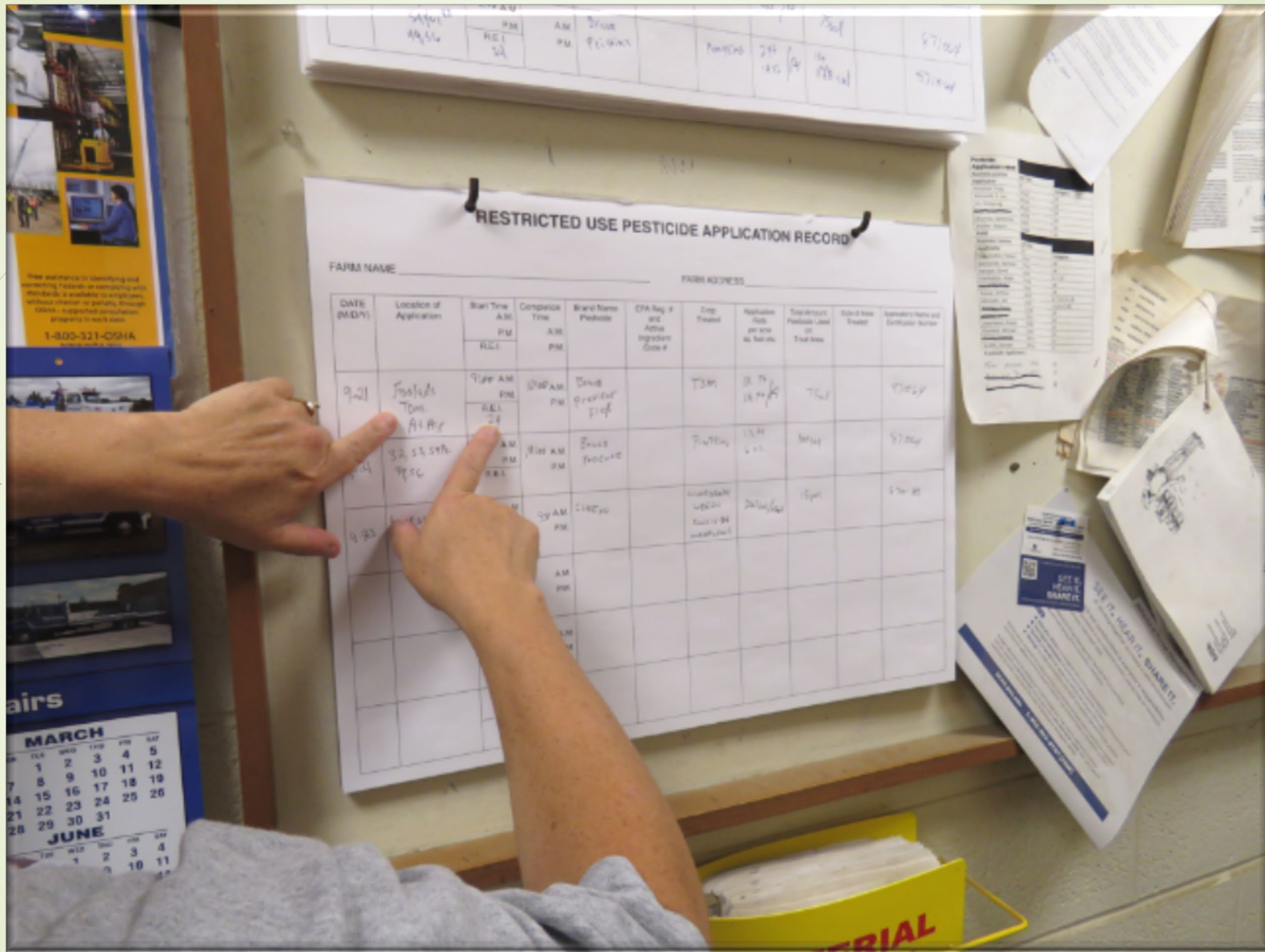


Image credit: Ed Crow, Penn State Pesticide Education Program

Pesticide Application Posting



Outdoor Applications

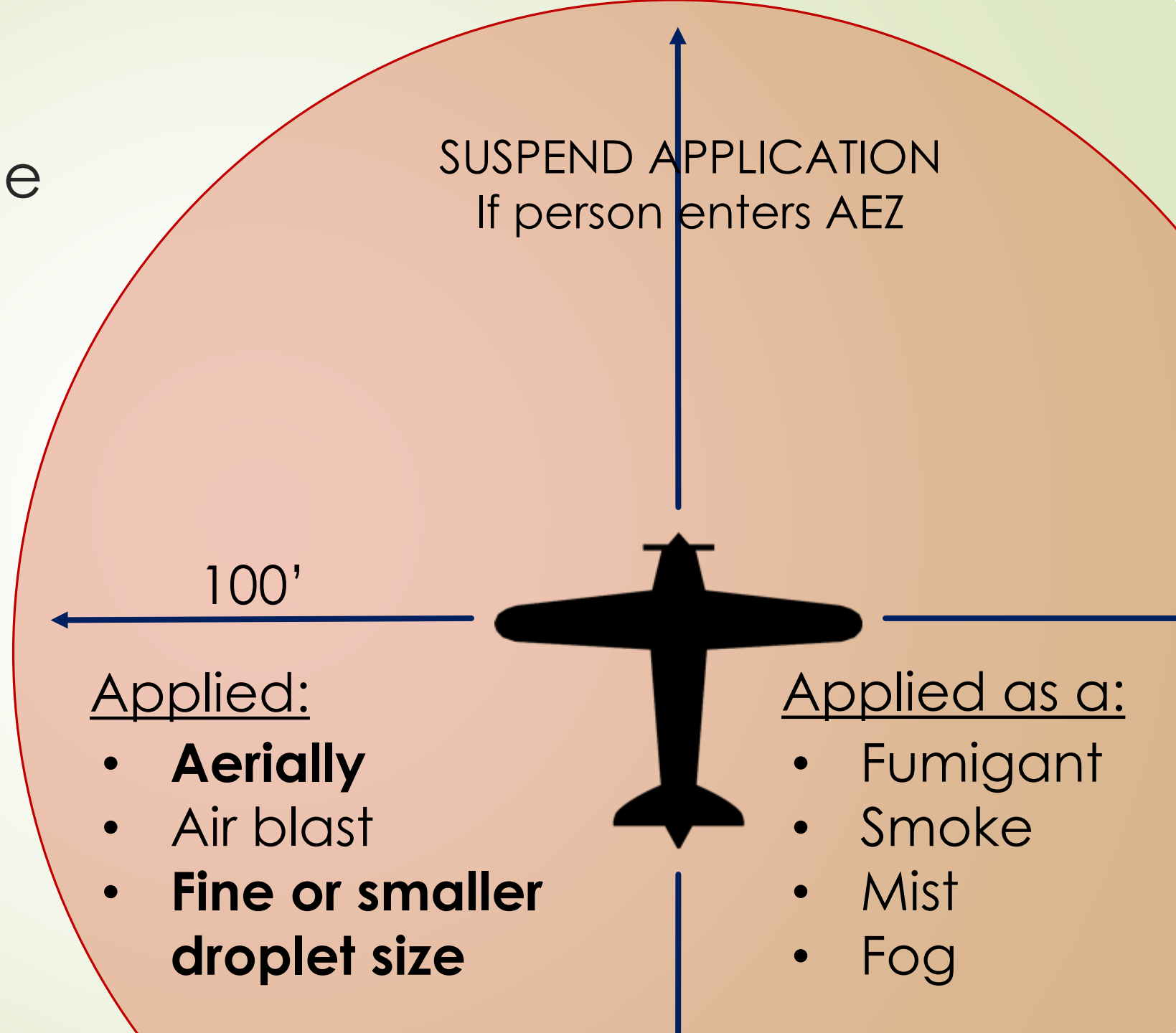
REI Greater than 48 hours

Enclosed Space Application

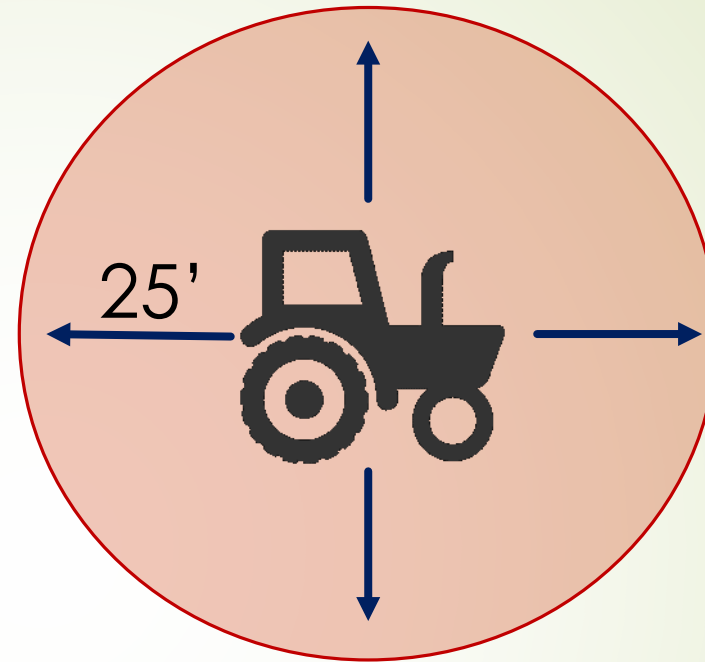
REI Greater than 4 hours



Application
Exclusion Zone
(AEZ)
in Outdoor
Areas



Application
Exclusion Zone
(AEZ)
in Outdoor
Areas



SUSPEND
APPLICATION
If person
enters AEZ

Applied:

- **Medium or larger droplet size**
- **>12" off ground**



AEZs in Enclosed Space

Workers Prohibited in Treatment Area
and Ventilation Required

- Fumigant
- Smoke, Mist, Fog
- Drops smaller than Medium
- Respirator required

No exclusion beyond REI

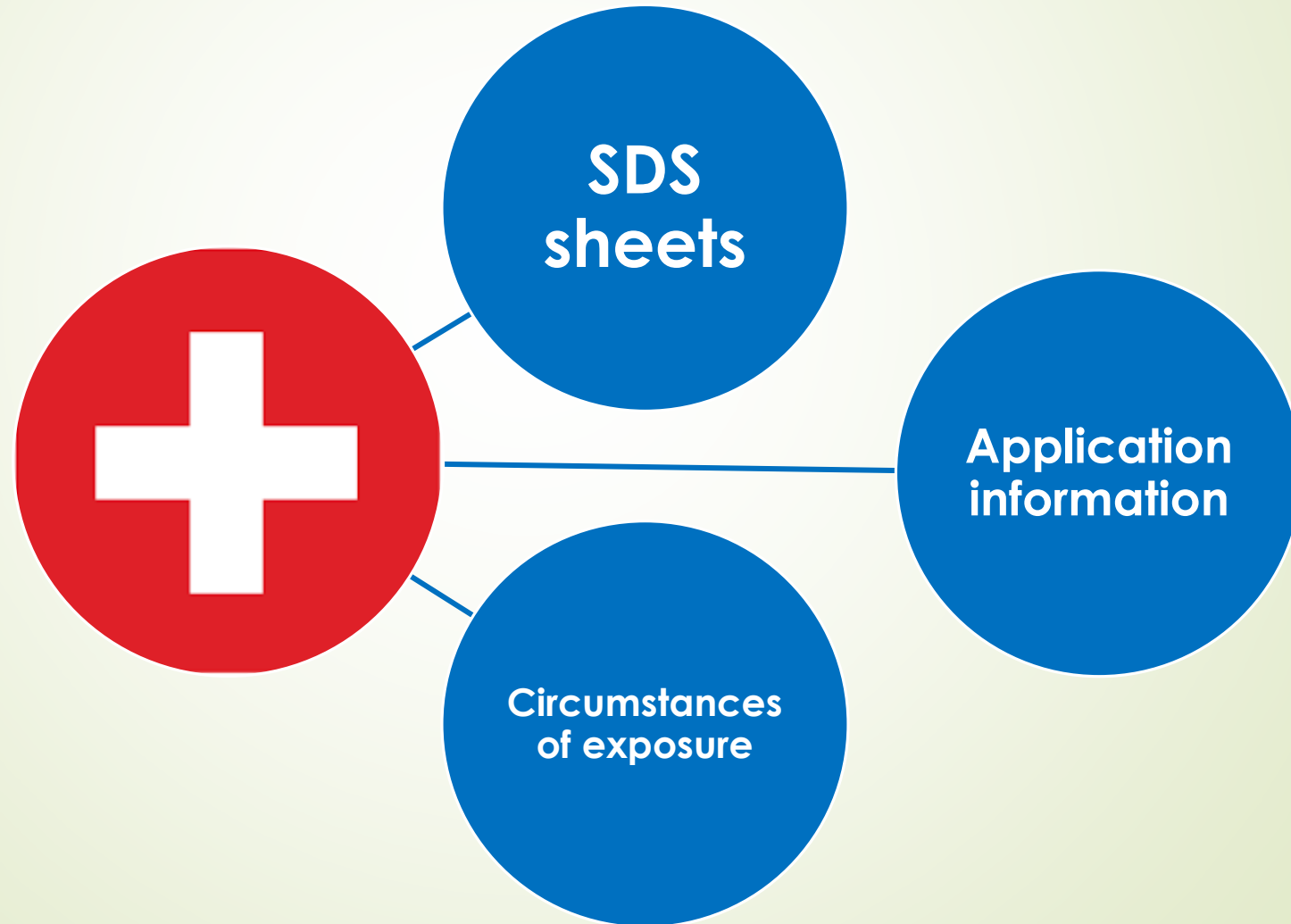
- Medium or larger droplets from
application less than 12 inches

Decontamination Supplies

- Requirements for Decontamination Water:
 - 1 gallons per worker
 - 3 gallons per handler or early-entry worker;
 - Measured at the beginning of the work period
- When mixing/loading a product that requires eye protection, **eyeflush water must be immediately available**
- For products that requires eye protection, **one pint of water must be immediately available** to each applicator

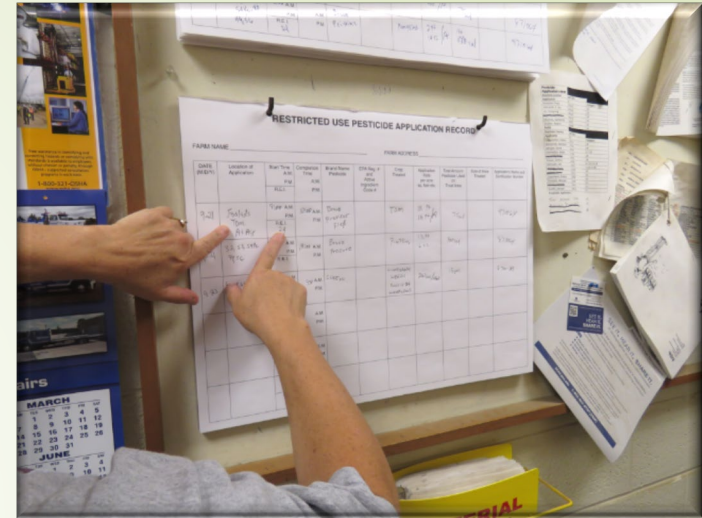


Information Available to Medical Personnel



REIs, Notification, Field Posting

- Comply with Restricted Entry Intervals (REI) stated on label
- Notification
 - Any workers in a treated area within 30 days
 - Oral, posting, or both
 - Notification of applications at Central Display
- Field Posting if the REI is **greater than 48 hours**

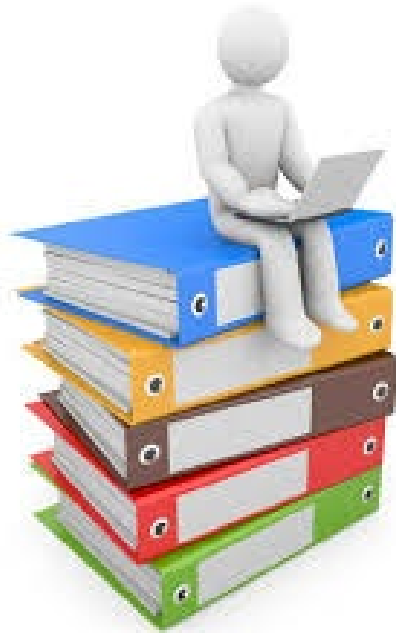




Family Exemptions for Immediate Family

- Someone's spouse, parents and grandparents, children and grandchildren, brothers and sisters, mother in law and father in law, brothers in law and sisters in law, daughters in law and sons in law. Adopted, half, and step members are also included in immediate family.
- Exempt: Age, Notification, Training, Decontamination
- Must follow all PPE requirements other than those noted in Ag Use Requirements box

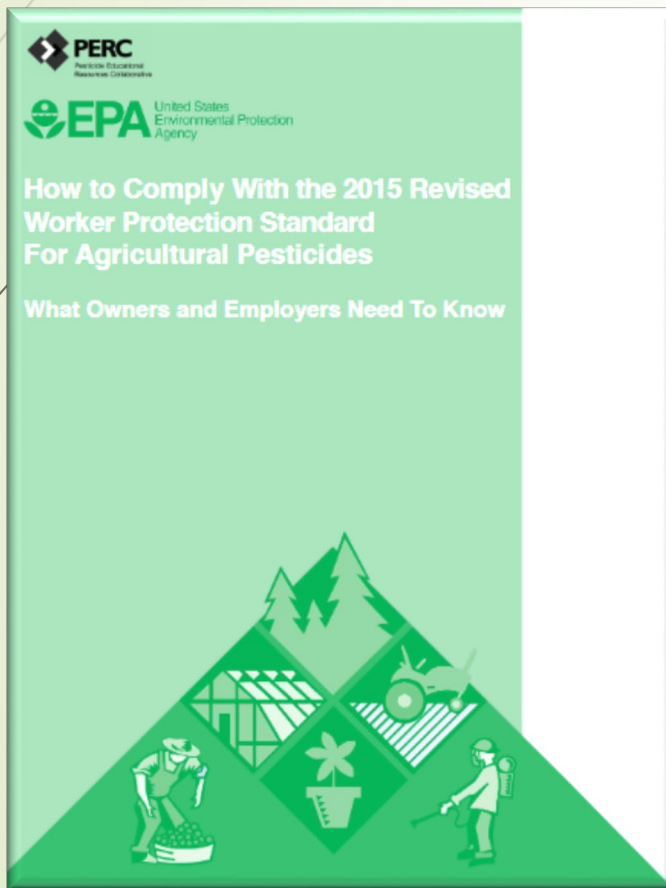
WPS Regulations
Put All the Responsibility
on the Employer
of Handlers and Workers



Key WPS Resources


Pesticide Education Resources Collaborative

<http://pesticideresources.org>



How to Comply Manual

WORKER PROTECTION STANDARD (WPS) REQUIREMENTS FOR AGRICULTURAL EMPLOYERS OF WORKERS



- Complete WPS worker training before conducting worker tasks.
- Keep records of WPS worker training and provide record to workers if requested.
- Display pesticide **safety** information at the central location and, if applicable, decontamination locations.
- Display pesticide **application and hazard** information at the central location.
- Keep records of the pesticide application and hazard information for 2 yrs.
- Provide establishment-specific information to workers.
- Provide pesticide application and hazard information upon request of worker, medical personnel or designated representative.
- Notify workers of applications – posting, oral warning, or both.
- Provide information (Information Exchange) to Commercial Pesticide Handler Employer (CPHE) (i.e., custom application or crop advisor).
- Provide tasks and instructions to worker supervisors to ensure compliance with WPS requirements.
- Ensure supervisors give directions to workers for WPS compliance.
- Ensure workers do not work on pesticide equipment without receiving handler training. Ensure any individual not directly employed receives information on pesticides before using, cleaning, repairing, etc. pesticide equipment.
- Follow restrictions DURING applications to keep workers and other persons out of certain areas (treated area and AEZ, or enclosed space production facility).
- Follow other restrictions DURING applications (do not contact worker or other person directly or through drift; and applicator must temporarily suspend the application if workers or other persons are in the AEZ or enclosed space production facility).
- Follow restrictions AFTER applications (i.e., REI, label restrictions, etc.).
- Provide decontamination supplies at required locations.
- Make emergency assistance available (information and transportation).
- Have EARLY-ENTRY WORKERS?
 - Minimum age of 18 years old for early-entry workers.
 - Provide clean PPE in operating condition to early-entry workers.
 - Provide information to early-entry workers and comply with applicable early entry exception.

Check List for Employers



Carol Black

Thank
You

Pesticide
Education
Specialist

Checklist for Employers

- Complete WPS worker training before conducting tasks.
- Keep records of WPS worker training
 - Provide training record to workers if requested
- Central Location
 - Pesticide **safety poster**
 - Pesticide **application info** – keep 2 years
 - **Safety Data Sheets** – keep 2 years
- Provide establishment-specific information to workers

Checklist for Employers

- Provide pesticide application and hazard information upon request of worker, medical personnel or designated representative.
- Notify workers of applications –oral warning, posting, or both.
- Commercial (custom) applicator exchange of information
- Crew supervisors
 - Provide tasks and instructions to worker supervisors to ensure compliance with WPS requirements
 - Ensure they give directions to workers for WPS compliance

Checklist for Employers

- Ensure workers do not work on pesticide equipment without receiving handler training
- DURING applications
 - keep workers and other persons out of certain treated areas (AEZ, enclosed space facilities)
 - do not contact worker or other person directly or through drift
 - applicator must temporarily suspend the application if workers or other persons are in the AEZ or enclosed space production facility).
- Follow restrictions AFTER applications (i.e., REI, label restrictions, etc.)

Checklist for Employers

- Provide decontamination supplies at required locations.
- Make emergency assistance available (information and transportation)
- If you have EARLY-ENTRY WORKERS?
 - Minimum age of 18 years old for early-entry workers.
 - Provide clean PPE in operating condition to early-entry workers.
 - Provide information to early-entry workers and comply with applicable early entry exception.