NURSERIES

Anursery is any operation engaged in the outdoor production of cut flowers, ferns or other plants that will be used in their entirety in another location. Such plants include, but are not limited to, flowering and foliage plants or trees; tree seedlings; live Christmas trees; vegetable, fruit, and ornamental transplants; and turfgrass produced for sod.

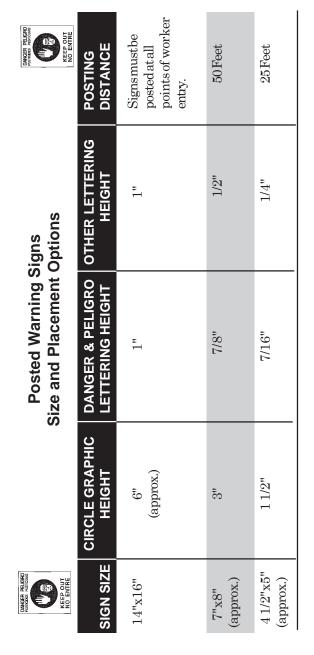
Special Application Restrictions in Nurseries

Employers must make sure that, during certain nursery applications, workers and other persons do not enter treated areas on the nursery. In some circumstances, that prohibition extends beyond the treated area.

During any application described in **COLUMNA** of the chart below, do not allow or direct any person, other than an appropriately trained and equipped handler, to be in the areas on the nursery specified in **COLUMN B**. Do not allow workers to re-enter the treated area until the REI has expired.

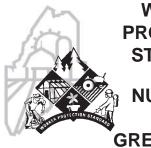
Special Application Restrictions in Nurseries

COLUMN A	COLUMN B		
Whileapesticideisbeingapplied:	Workersandotherpersons are prohibited in:		
1.(a) Applied: ■ aerially,or ■ inanupward direction, or ■ using a spray pressure greater than 150 pounds per square inch	Pesticide-treated area plus 100 feet in all directions on the nursery		
(b) Applied as a: ■ fumigant, ■ fog, or ■ smoke, ■ aerosol. ■ mist,			
 2. (a) Applied downward using: a height of greater than 12 inches from the planting medium; or a fine spray; or a spray pressure greater than 40 pounds per square inch and less than 150 pound per square inch. 	Pesticide-treated area plus 25 feet in all directions on the nursery.		
(b) Under conditions other than described above but for which the pesticide labeling requires the applicator to wear a respirator.			
3. In any other manner.	Pesticide-treated area.		



For these brochures and more information about the Worker Protection Standard, contact:

Maine Board of Pesticides Control 28 State House Station Augusta, Maine 04333 Telephone: (207)287-2731 EMail: pesticides@maine.gov 0\BPC\PM5DATA\WPS\Nursery-Greenhouse.P65



WORKER PROTECTION STANDARD

Brochure#3

NURSERIES and GREENHOUSES

 $The U.S. \, Environmental \, Protection \, Agency (EPA) \, has issued final rules governing the protection of employees on farms, and inforests, nurseries, and greenhouses from occupational exposure to agricultural pesticides. The new Worker Protection Standard (WPS) covers:$

- **agricultural workers** -- performing tasks related to the cultivation and harvesting of plants, including pruning, sucker removal, watering, and re-potting, and
- **pesticide handlers**—assigned to mix, load or apply agricultural pesticides; entergreenhouses to operate ventilation equipment after applications; handle equipment with residues; adjust or remove soil fumigant coverings, etc.

If you are an employer of agricultural workers or pesticide handlers, the WPS requires you to provide your employees information about and protections against pesticide exposure. These measures include decontamination supplies, safety training, and personal protective equipment and are described in WPSBro-chure #1:Duties of Employers.

Although most of the requirements of the WPS affect all agricultural establishments equally, there are several special requirements for nurseries and greenhouses. This brochure only summarizes those additional duties and special application restrictions.

GREENHOUSES

A greenhouse is any operation which produces plants inside any structureorspacethatisenclosed with a nonporous covering and that is large enough to permit worker entry. This term includes, but is not limited to, traditional greenhouses, polyhouses, enclosed hoop houses, and similar structures.

Monitoring Handlers

Employers must ensure someone maintains constant visual or voice contact with any handler who is applying or otherwise handling the fumigant in a greenhouse. This includes handlers who enter the greenhouse during fumigation to operate ventilation systems, adjust tarps or other coverings used in the fumigation or check air concentration levels.

In the event of a pesticide emergency, the monitor must be prepared to enter the greenhouse. Therefore, the person monitoring the fumigant handler must:

- betrainedasapesticidehandler, and
- have immediate access to the personal protective equipment (PPE) that the fumigant labeling requires for applicators so the monitor can entersafely.

SpecialApplicationRestrictions

 $Employers \, must \, ensure \, that \, workers \, and \, other \, persons \, do not enter specific areas \, within a greenhouse \, during -- \, and, in some instances, after -- \, certain pesticide applications. This is described in the chart to the upper right.$

 $During any application described in {\bf COLUMNA}, do not allow or direct any person, other than an appropriately trained and equipped handler, to be in the areas specified in {\bf COLUMNB}.$

Ventilation Criteria for Greenhouses

 Special Application Restrictions in Greenhouses

COLUMN A	COLUMN B	COLUMN C	COLUMN D
When a pesticide is applied:	Workersandotherpersonsare prohibited in:	Until:	After the expiration of time in COLUMN Cuntil the REI expires, the entry- restricted area is:
1. As a fumigant.	Entire greenhouse plus any adjacent structure that cannot be sealed off from the treated area.	The ventilation criteria below are met. The ventilation criteria below are met.	No entry restrictions after ventilation criteria are met.
2. As a ■ smoke, or ■ mist, or ■ fog, or ■ aerosol.	Entire enclosed area.	The ventilation criteria below are met.	Entire enclosed area.
3. Under circumstances (other than in 1 or 2) for which the pesticide labeling requires the applicator to wear a respirator.	Entire enclosed area.	Application is complete.	Pesticide-treated area.
 4. Other than in 1, 2 or 3, but: ■ from a height of greater than 12 inches from the planting medium, or as a fine spray, or ■ using a spray pressure greater than ■ 40 pound per square inch. 	Pesticide-treated area plus 25-feet in all directions within the entire enclosed area.	Application is complete.	Pesticide-treated area.
5. In any other manner.	Pesticide-treated area.		Pesticide-treatedarea.

UMN B before allowing workers to enter. If **COL-UMN** Cofthe chart above indicates that ventilation restrictions apply, make sure one of the following criteria is met:

- the concentration of the pesticide in the air is measured to be less than or equal to any inhalation exposure level required on the labeling.
- if no inhalation exposure level is listed on the labeling, keep workers out until after:
 - \blacksquare 10 air exchanges, or
 - 2 hours of ventilation using fans or other mechanical ventilating systems, or
 - 4 hours of ventilation using vents, windows or other passive ventilation, or
 - 11 hours with no ventilation followed by

1 hour of mechanical ventilation, or

- 11 hours with no ventilation followed by 2 hours of passive ventilation, or
- 24 hours with no ventilation.

Restricted-EntryIntervals(REIs)

The restricted-entry interval is the time immediately after a pesticide application when entry into the treated area is limited. After applicable ventilation criteria are met and until the REI expires do not allow workers into the area described in **COLUMN D**. Workers may, however, enter area sjust outside the treated area that

were off-limits during the application.

NotificationtoWorkers

In greenhouses, all treated areas must be posted with WPS warning signs. If the pesticide labeling requires both types of notification, then employers must also notify workers or ally.

The placement of posted warning signs depends on sign and lettering size. When standard-size signs of 14" x 16" are used, posted signs must be seen from all points where workers usually enter the treated area, including doorways, aisles and other walking routes in and through the greenhouse. When smaller signs are used, specific posting distances must be followed. Refer to the chart on the back of this brochure for information about sign placement and lettering size.