

# Pesticide application equipment

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**T**he equipment chosen for the application of pesticides must be properly selected to allow the chemical to reach the target at the proper rate and with sufficient coverage. The chemical or pesticide label will specify the application rate, spray volume, crop and application methods or restrictions as to where the product can be used. The application equipment may be as simple as an aerosol can, pump-up sprayer, electrical driven pump, power driven sprayer or various types of aircraft. This equipment may be carried by hand (aerosol, pump-up sprayer), on an all-terrain vehicle or tractor, be towed, or even be a self-propelled spray unit. The application volume may be as low as a few gallons to hundreds of gallons per treated acre.

## SPRAYERS

In commercial situations, the most commonly used equipment is a sprayer that uses a combination of air

and liquid to deliver the pesticide to the target. Nearly 90 percent of these spray applications involve mixing the pesticide into a liquid carrier (usually water) to aid in delivering the pesticide to the target. Sprayers that utilize a liquid are classified as hydraulic sprayers. In a few cases, the pesticide may be applied as an ultra-low-volume spray where the pesticide is applied as formulated and not mixed with water. Sprayer capacity can range in size from a few gallons (pump-up sprayers) to up to 1,000-gallon sprayers pulled behind tractors. Large sprayers have multiple nozzles on one or more booms and use a pump to create pressure to deliver the spray mixture into a stream of air flow or toward the intended target. Smaller handheld or backpack sprayers usually have a single nozzle and use compressed air to deliver the spray mixture. In all cases, some form of pressure must be created to aid in delivery of the spray mixture through the nozzle.

Small handheld or backpack sprayers are designed for spot treatments and would be unsuitable to treat a large area or large trees. These small sprayers are usually inexpensive, easy to operate and maintain, but their usability is limited to small areas. Most

of these units have a tip on the nozzle that can be adjusted to modify the spray pattern and droplet size.

Many larger sprayers utilize a fan to create air flow in which the spray solution is released into, and thus called air-blast sprayers. For these air-blast sprayers, the pesticide is usually diluted with water to form a spray solution. Various size nozzles are used to create spray droplets of a desired size which are released into the air stream that is being created by the fan and carried toward the target site.

Applicators need to be aware that the droplet size being created by the sprayer nozzle greatly impacts the potential for off-target movement of a pesticide during the application process. Smaller droplet sizes are more likely to drift than larger droplets. To minimize drift, select a nozzle that will produce larger droplet sizes where possible. By selecting larger nozzle orifices and reducing pump pressures, the sprayer produces larger droplets and thereby reduces the likelihood of spray drift. To aid in selecting the proper nozzle size, see the owner manual for the sprayer you will be using. Equipment manufacturers should provide charts on droplet ranges in their catalogs or web sites. Applicators need to remember they are legally responsible for any damages that may result from off-target movement of pesticides.

## DRIFT MITIGATION MEASURES

Drift can be controlled by maximizing droplet size and controlling the time the droplets are in the air. To mitigate drift, consider the following options:

- Make applications in accordance with label directions.
- Follow Florida pesticide label laws, especially when using organo-

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