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METHODS AND PRACTICES TO REDUCE SPRAY DRIFT FOR BOOM SPRAYERS

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Abstract

Spray drift is defined as the movement of spray droplets to a site other than the intended target area. The spray droplets can be moved during or after spray application. Spray drift is a serious concern because the pesticides are more active and non-selective and a small amount of pesticides can cause damage to nontarget plants and animals that are susceptible to the pesticide. Spray drift results in a waste of pesticide, reduces the effectiveness of spray application, and contaminates water supplies. There are several factors affecting the amount of spray drift. They include: spray droplet size, droplet release height, droplet release velocity, climatic conditions at the time of application (wind speed and direction, air temperature, relative humidity, and atmospheric stability), volatility and viscosity of pesticide formulation, equipment and application techniques, and operator care and skill. The elimination of spray drift is impossible, but, it can be reduced to a minimum level if pesticides are applied with the proper selection and operation of equipment at favorable weather conditions. Many drift control methods and practices are available for boom sprayers. The aim of this review paper is to explain factors affecting the amount of spray drift and give information including methods and practices to reduce spray drift.

Keywords: *Spray drift, Pesticide, Factors affecting spray drift, Drift control methods and practices, Boom sprayers.*