



***Iowa Addendum: Air Quality Enhancement Activity – AIR04 –  
Use drift reducing nozzles, low pressures, lower boom height and adjuvants to  
reduce drift.***

The producer must use **at least ONE** of the following methods to reduce drift:

- 1) Drift reduction nozzles, drops, shielding, pressure adjustment, electrostatic spray technology or recirculating spray technology.
  - “Low Drift” flat fan nozzles (majority of droplets  $\geq$  200 microns).
  - Sprayer modification devices to reduce drift include boom drops (aerial), shields, cones, hoods and shrouds
  - Specialized sprayers – these are typically used for high value vegetable crops, in vineyards, orchards, and greenhouses.
  - Electrostatic sprayers
  - Recirculating sprayers
- 2) Reduce sprayer pressure, within specifications for the selected nozzle (do not exceed 45 psi).
- 3) Reduce boom height to the minimum amount, ideally within 12 inches of the plant canopy or ground.
- 4) Utilize adjuvants (drift retardants, stickers, inverting agents) that are approved for use with the specific pesticide being applied.
  - Use chemical adjuvants proven to reduce pesticide drift – the adjuvant must be labeled specifically as a ***Drift Control Agent***. An invert emulsion designed specifically for drift control may be used, but the producer must identify the pesticide, the carrier (oil phase) and the emulsifier used. The use of adjuvants can impact the effectiveness of pesticides, so be sure to read all label specifications.

**ALL spray applications will incorporate at least one of these techniques to reduce drift. Applications should always be made under appropriate weather conditions (temperature, wind, humidity, etc.) and follow all label directions.**

**This activity may NOT be used with the following enhancements:  
WQL01, WQL19, WQL20, and WQL21.**



United States Department of Agriculture  
Natural Resources Conservation Service

2013 Ranking Period 1

Certification of Enhancement Completion:

Include written documentation for each treatment area and year of this enhancement including:

- \_\_\_\_ A full description of drift reducing technology used, to include (as appropriate):
  - Nozzle type and expected droplet size
  - Operating pressure of sprayer
  - Adjuvant and pesticide name
  - Certification that adjuvant used is a “drift control agent”.
  - Adjustments to boom height (how far above crop or ground is boom now and how far above ground was boom prior to applying enhancement).

- \_\_\_\_ A Map showing where the activities were applied including treatment acreage

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|-----------------------|------|--------|-----------------|
| Signature of Producer | Date | Fields | Acres or Number |
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