# What Does the Protocol Say About Nozzle Output Calibration?

The Fine Print

# When Do I Need To Do A Full Calibration?

- When there is a change in:
  - Application type
  - Nozzle output
  - Nozzle size
  - Nozzle type
  - Pressure
  - Other equipment that may affect output

# When Do I Need To Do A Full Calibration?

- The variation of any nozzle's output from the mean output of all of the nozzles during the same run is greater than 5%
- A recheck results in an output that differs from the mean of the complete calibration by greater than 5%
- Before the use of a target output
- Just prior to the first application

# When Do I Need To Do A Recheck?

- Recheck when:
  - Just prior to next trial application
  - Using complete output calibration from another trial
  - $CO^2$ tanks change
  - Sprayer transported offsite
  - Equipment cleaned

# When Do I Need To Do A Recheck?

- Removed nozzle and replaced
- Nozzles are replaced after using different nozzles as long as pressure has not changed
- It is not necessary to recheck if spraying applications in the same study on the same day in the same place

# A Very Pursuasive Suggestion

(at least, I think so…..well, heck,
so do a bunch of other people)

A lot of the headache in remembering when to recheck and when to recalibrate can be avoided by simply completely calibrating the output just before each application.

# The Dollars and Sense of it

Repeat trial

- one year lost
- Maybe longer if  lose place in EPA queue

Repeat Calibration

- ½ to 1 hour

It’s worth it don’t you think?