

Spray Solution Conditioning

John M Doyle, M S

(60 minutes)

- Conditions of water used for spraying fertilizers, pesticides, etc. can have a dramatic impact on performance
- Parameters of spray solution to be measured methods of measurement
 - pH
 - Hardness
- Methods of evaluating impact and performance of spray solution correctional/optimization materials
 - Drave's wetting
 - Contact angle
 - Denoy ring
- Materials used to correct sub-optimal spray solution condition
 - Adjuvants
 - Wetting agents / surfactants
 - Silicon based material
 - Pinenes / latex based stickers
 - Spray Solution modifiers
 - Water softeners
 - Acidifiers / buffers
- Spray droplet dynamics and associated issues
 - Spray droplet bounce / splash
 - Spray droplet atomization /evaporation and drift
 - Materials used to address splash and drift
 - Naturally occurring polymers
 - Non-ionic colloidal polymers
 - Polyvinyl polymers