Insecticide Application Using Micro–Sprinklers in Blueberry Planting

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Not all fields have small bushes.
Over the Row Sprayers!

How many berry are lost when equipment goes down ripe berries?
• Best way to not knock off fruit? But???
2013 Micro-sprinklers Vs Air blast?

[Image of a high performance spray jet diagram]

[Image of a tractor spraying plants]

[Image of a Netafim NetJet product]

[Image of a sprayer vehicle in a field]
2013 Efficacy of Mustang Maxx on Blueberry Leaf Residue with SWD

Time and Location of Sample

% Mortality SWD

AirBlast

Microsprinkler
Efficacy of Mustang Maxx on Blueberry Leaf Residue with SWD

Data from PBG in OR 2013 (Netafim #58’s) note control 1-7 days and MRLs on fruit Below Most Important Export Countries.
2013-2014 at WSU NWREC Four types of sprinkler heads were examined.

A pressure gauge was installed at 1st head of the R-5 system.

501 – Jain; East end

MR – Jain; East middle

R-10 – Nelson; west middle

R-5 – Nelson; West End
Clear header pipe was used to see the blue dye in the application water.
All Heads have run off!
This is from spray hitting the hardware, or just pressure drizzle?
Water sensitive card placements:
#1-3 North side high to low; #4-6 West side High outside to Low inside.
Even with leaf coverage, the cards will become wet over run time.
Leaf Residue Studies
Efficacy of Mustang Maxx on SWD over Time - 2014 NWREC

Better Than 85%
2015 Lynden Mustang Maxx efficacy on SWD over time using R-10 Microsprinklers to Apply Insecticide

% Mortality SWD

Combined Leaf Sample Times

TOP
MID
Mid Interior
We are convinced that micro-sprinklers have a place in Blueberry production
Points to make:
1) Reduction in fruit damage by sprayers
2) Insect control equal to other methods
3) Reduced MRLs on harvested fruit
4) Lower exposure to workers during application
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