

World Class. Face to Face.

The Latest on Residential and Near-Field Fumigant Air Monitoring for Metam Sodium in Washington State

WSU-Food and Environmental Quality Laboratory With a whole lot of help!



South Franklin County, Washington State





Important Questions of Regional Concern

- Do MITC regional air emissions during the active fumigation approach/exceed regulatory levels of concern?
- Can bystander exposure be minimized through adoption of reduced-emission application practices?
- Can regional MITC field emission studies advance our understanding for addressing RED mitigation measures?



Franklin County MITC Residential Air Monitoring Program: September 5 - October 25, 2008





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NIVERSITY

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12 Hour Time Weighted Averaged MITC Air Concentrations

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Franklin County MITC Residential Air Monitoring: Week of October 13 to 18th



4 Hour Time Weighted Averaged MITC Air Concentrations

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Franklin County MITC Residential Air Monitoring Program: Weather Conditions for Friday, October 17th 2008



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Reduced-Emission Drizzle Boom

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Courtesy of Crop Production Services



Reduced-Emission Shank Soil Incorporated Application

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2008 MITC Emission Study Comparing Drizzle Boom to Shank Injected Circles



2008 MITC Emission Study Comparing Drizzle Boom to Shank Injected Circles

Air Monitoring: MITC Emission Collection Stations







Can regionally specific field emission studies be useful for specifying relevant buffers and air monitoring requirements?

Low Drift Technology Drizzle Boom

- Buffer zone distance
- Post application air monitoring

Shank Soil Incorporation

Buffer zone distance



Post application air monitoring

Can regionally specific field emission studies be useful for specifying relevant buffers and air monitoring requirements?

2008 PNW reduced-emission findings will be forwarded to EPA-OPP for addressing the current RED buffer zone specifications

Shank applications conducted during typical PNW and NW cooler temperatures should receive greater consideration when specifying buffers



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