MB ALTERNATIVES AREA-WIDE PEST MANAGEMENT PROJECT - SOUTH ATLANTIC PROGRESS REPORT

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A Core Advisory Committee composed of 7 USDA-ARS members, 9 land grant university members and 9 grower and commodity group representatives (Table 1) met three times (December 2006, March and July 2007) to identify information and technology gaps, establish funding priorities and review submitted project proposals. An Executive Committee consisting of grower and commodity group representatives was empowered with final approval for funding project proposals. Eleven projects were supported from funds from the 2007 federal fiscal year (October 1, 2006 through September 30, 2007) and are listed on Table 2.

Eleven large scale field demonstration trials were initiated between January and August 17, 2007 (Table 3). Five were completed by August 17, 2007 and 6 were still in progress. Methyl bromide alternatives were evaluated on tomato, pepper, eggplant, forest nursery seedlings (loblolly pine) and cut flowers (delphinium). Trials were conducted in Florida, Georgia and South Carolina and ranged from 0.5 to 58 acres. Alternative fumigants evaluated included various combinations of 1,3-dichloropropene, chloropicrin, methyl iodide, metam sodium and several combinations of herbicides. Nine different types of plastic films were evaluated including high and low density polyethylene, metalized and virtually impermeable films. Additional demonstration trials on strawberries in Florida, North and South Carolina, pepper in Florida, turf grass in Florida and pine seedlings in South Carolina will be initiated in fall 2007.

Protocols and Standard Operational Procedures (SOPs) were developed for collecting environmental and soil edaphic information during and after application of methyl bromide alternatives. Parameters measured included soil moisture, soil bulk density, percent moisture at field capacity (-0.3 bars water matric potential), soil temperature, ambient temperature, rainfall, and humidity. Self-contained automated weather monitoring stations were purchased, calibrated and distributed to all cooperators. Equipment was purchased and provided to cooperators for collecting soil samples. Soil samples were processed in at the USHRL, Ft. Pierce for determination of soil moisture, bulk density and percent moisture at field capacity. Equipment was purchased and provided to cooperators for real time estimation of volatile organic compound (VOC) concentrations in the soil atmosphere following fumigation. Calibration standards and operational protocol were developed and implemented to operate VOC meters. Equipment was purchased and provided to cooperators for collecting soil and soil atmosphere samples to quantitatively determine fumigant concentrations. Samples were processed at the USHRL Analytical Chemistry Laboratory in Ft. Pierce. For soil fumigant samples, sample collection and preparation techniques specified in EPA method 5035 followed by gas chromatograph/mass spectrometer methods specified in EPA method 8260 were employed. Soil atmosphere samples were collected using NIOSH

method 2520 Issue 2 for methyl bromide in air except that XAD-4 tubes were substituted for charcoal tubes when sampling soil fumigant applications that included chloropicrin. Protocol was developed for documenting the design and operation of equipment used to deliver soil fumigants in field trials. Protocol was developed for recording the incidence and severity of soilborne pests in methyl bromide alternative field trials. Plastic films used in each trial were collected from the roll prior to application and from the field after application and sent to the USDA, ARS George E. Brown Jr. Salinity Laboratory in Riverside, CA for estimation of fumigant permeability.

Table 1. South Atlantic Region – Core Advisory Committee

| Dan O ChellemiUSDA, ARS, US Horticultural Research Lab, Ft. Pierce, FLKen VickUSDA, ARS, National Program Staff, Beltsville, MDBob FaustUSDA, ARS, National Program Staff, Beltsville, MDSally SchneiderUSDA, ARS, National Program Staff, Beltsville, MDErin RosskopfUSDA, ARS, US Horticultural Research Lab, Ft. Pierce, FLWarch BurelleUSDA, ARS, US Horticultural Research Lab, Ft. Pierce, FLGreg BrowneUSDA, ARS, Crops Pathology Research Unit, Davis, CAStanley CulpepperUniversity of Georgia, Soil and Crop Sciences Dept, Athens, GAFrank LouwsNorth Carolina State Univ., Plant Pathology Dept., Raleigh, NCRob WelkerNorth Carolina State Univ., Plant Pathology Dept., Raleigh, NCScott EnebakAuburn University, Forestry and Wildlife Science Dept, Auburn, ALGene McAvoyUniversity of Florida, Cooperative Extension Service, Labelle, FLJoe NolingUniversity of Florida, Citrus Research & Education Center, Lake Alfred, FLSteve OlsonUniversity of Florida, North Florida Research & Education Center, Quincy, FLBryan UnruhUniversity of Florida, West Florida Research & Education Center, Milton, FLDan BottsFlorida Fruit & Vegetable Association, Maitland, FLReggie BrownFlorida Tomato Exchange, Maitland, FLRuss HamlinCoggins Farms, Inc, Lake Park, GAWes RoanSix L's Packing Company, Inc, Naples, FLJohn SticklesFlorida Pacific Farms, LLC, Dover, FLOle NissenSunshine State Carnations Inc, Hobe Sound, FLDean McCrawRayonier Glennville Regeneration Center, G | | the Region Core ravisory Committee | | | |
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| Bob FaustUSDA, ARS, National Program Staff, Beltsville, MDSally SchneiderUSDA, ARS, National Program Staff, Beltsville, MDErin RosskopfUSDA, ARS, US Horticultural Research Lab, Ft. Pierce, FLNancy BurelleUSDA, ARS, US Horticultural Research Lab, Ft. Pierce, FLGreg BrowneUSDA, ARS, Crops Pathology Research Unit, Davis, CAStanley CulpepperUniversity of Georgia, Soil and Crop Sciences Dept, Athens, GAFrank LouwsNorth Carolina State Univ., Plant Pathology Dept., Raleigh, NCRob WelkerNorth Carolina State Univ., Plant Pathology Dept., Raleigh, NCScott EnebakAuburn University, Forestry and Wildlife Science Dept, Auburn, ALTom StarkeyAuburn University, Forestry and Wildlife Science Dept, Auburn, ALGene McAvoyUniversity of Florida, Cooperative Extension Service, Labelle, FLJoe NolingUniversity of Florida, Citrus Research & Education Center, Lake Alfred, FLSteve OlsonUniversity of Florida, North Florida Research & Education Center, Quincy, FLBryan UnruhUniversity of Florida, West Florida Research & Education Center, Milton, FLDan BottsFlorida Fruit & Vegetable Association, Maitland, FLReggie BrownFlorida Tomato Exchange, Maitland, FLRuss HamlinCoggins Farms, Inc, Lake Park, GAWes RoanSix L's Packing Company, Inc, Naples, FLJohn SticklesFlorida Pacific Farms, LLC, Dover, FLOle NissenSunshine State Carnations Inc, Hobe Sound, FLDean McCrawRayonier Glennville Regeneration Center, Glennville, GAVictor LilleyReddick Fumigants Inc., W | Dan O Chellemi | USDA, ARS, US Horticultural Research Lab, Ft. Pierce, FL | | | |
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| Victor Lilley Reddick Fumigants Inc., Williamson, NC 27892 | Ole Nissen | Sunshine State Carnations Inc, Hobe Sound, FL | | | |
| Victor Lilley Reddick Fumigants Inc., Williamson, NC 27892 | Dean McCraw | Rayonier Glennville Regeneration Center, Glennville, GA | | | |
| Mark Garrett Kirkland Sod, Inc., New Smyrna Beach, FL | Victor Lilley | Reddick Fumigants Inc., Williamson, NC 27892 | | | |
| | Mark Garrett | Kirkland Sod, Inc., New Smyrna Beach, FL | | | |

Table 2. Projects funded in fiscal year 2007 (October 1, 2006 thru September 30, 2007)

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| Project oversight/administration | Dan Chellemi, USDA, ARS, Ft. Pierce, FL | | |
| Plastic permeability testing | Scott Yates, USDA, ARS, Riverside, CA | | |
| Eggplant and tomato demo trials | Dan Chellemi, USDA, ARS, Ft. Pierce, FL | | |
| Florida strawberry demo trials | Joe Noling, University of Florida | | |
| Pepper and cucumber demo trials | Stanley Culpepper, University of Georgia | | |
| North/South Carolina strawberry trials | Frank Louws, North Carolina State University | | |
| Ornamental trials | Erin Rosskopf & Nancy Burelle, USDA, | | |
| | ARS, Ft. Pierce, FL | | |
| Forest tree nursery trials | Scott Enebak, Auburn University | | |
| Turf grass trials | Bryan Unruh, University of Florida | | |
| Determination of plant back intervals | Stanley Culpepper, University of Georgia | | |
| Florida/Georgia educational outreach | Bill Stall & Steve Olson, Univ. of Florida | | |
| North/South Carolina educational | Frank Louws, North Carolina State University | | |
| outreach | | | |

Table 3. Demonstration trials of methyl bromide alternatives (January-August, 2007)

| Trial | Date | Crop(s) | Location | Contact | Size |
|-------|--------|-----------------|----------------|-----------|------------|
| 1 | Jan 18 | Tomato | Duette, FL | Chellemi | 4.8 acres |
| 2 | Jan 18 | Tomato | Duette, FL | Chellemi | 6.5 acres |
| 3 | Jan 27 | Pepper/cucumber | Moultrie, GA | Culpepper | 4.6 acres |
| 4 | Feb 1 | Eggplant | Ft. Pierce, FL | Chellemi | 4.4 acres |
| 5 | Feb 13 | Pepper/cucumber | Lake Park, GA | Culpepper | 6.9 acres |
| 6 | Feb 19 | Pepper/cucumber | Ty Ty, GA | Culpepper | 6.9 acres |
| 7 | Feb 22 | Tomato | Beaufort, SC | Chellemi | 7.7 acres |
| 8 | Feb 22 | Tomato | Beaufort, SC | Chellemi | 58.0 acres |
| 9 | Apr 3 | Pine seedlings | Jesup, GA | Enebak | 3.8 acres |
| 10 | Aug 10 | Eggplant | Ft. Pierce, FL | Chellemi | 25.0 acres |
| 11 | Aug 17 | Delphinium | Hobe Sound, FL | Rosskopf | 0.5 acres |