



UNIVERSITY OF
FLORIDA

E X T E N S I O N

Institute of Food and Agricultural Sciences

Hendry County Extension

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SOUTH FLORIDA VEGETABLE PEST AND DISEASE HOTLINE

March 22, 2010

This is certainly a season for the record books. Following record cold this winter unseasonably heavy rains dumped record precipitation over 2 days between March 11 and 12 with many areas in South Florida reporting 5 -7 inches. Heavy winds and rains reminiscent of a tropical storm left many plants beat and battered and foliar diseases have taken off in some places.

Although day time highs have been warmer over the past few weeks, night time temps are still low below normal with many nights in the mid to low 40's.

Cold weather continues to hold back plants, it is unlikely that we will see any significant increase in volumes till mid April and unlikely that we will have watermelons until May.

FAWN Weather Summary

Date	Air Temp °F		Rainfall (Inches)	Ave Relative Humidity (Percent)	ET (Inches/Day) (Average)
	Min	Max			
Balm					
3/8 – 3/22/10	37.68	82.2	2.91	74	0.1
Belle Glade					
3/8 – 3/22/10	44.00	82.74	5.44	79	0.1
Clewiston					
3/8 – 3/22/10	43.62	82.00	1.85*	76	0.1
Ft Lauderdale					
3/8 – 3/22/10	49.69	80.04	1.05	73	0.11
Fort Pierce					
3/8 – 3/22/10	40.36	77.72	4.27	75	0.11
Homestead					
3/8 – 3/22/10	32	82.4	0.57	78	0.11
Immokalee					
3/8 – 3/22/10	38.66	83.46	4.27	76	0.11

* Possible error as many local growers report 5 or more inches of rain

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Cabbage, escarole, herbs, lettuce, oriental greens, radishes and strawberries are coming to market as well as very light volumes of green beans, eggplant, pepper, tomato, and sweet corn. Strawberry volume is finally picking up.

The short-term forecast from the National Weather Service in Miami indicates that a high pressure ridge behind this past weekend front will move slowly across the area with dry and seasonable temps expected Tuesday through Friday. Next weekend another cold front may enter the area, models are exhibit high uncertainty but rain chances could increase next weekend, but to what extent is still in question.

For additional information, visit the National Weather Service in Miami website at <http://www.srh.noaa.gov/mfl/newpage/index.html>

Insects

In general, insect activity remains fairly low with some increases noted.

Aphids

Around the Glades, aphids remain active on brassicas and leafy vegetables.

In Southwest Florida, aphids are common and many pepper and squash and watermelon fields have been sprayed for this pest.

Over in Palm Beach County, reports indicate that aphids are widely present and increasing in a number of places on a variety of crops including peppers, tomatoes, eggplants and greens.

Reports from Manatee County indicate that aphids are mostly low with only a few blowing around here and there.

Whiteflies

Around SW Florida, whiteflies remain mostly low but scouts are beginning to report an increase in numbers but note that they still remain far below typical mid-March levels.

Reports from Palm Beach County indicate that a few more whiteflies are being seen in places.

Respondents from the Manatee Ruskin area report that whiteflies remain almost non-existent.

Very low numbers of whitefly are present on leafy vegetables in the Glades.

Worms

Around Southwest Florida, growers are finding a few more worms including southern armyworms, beet armyworms, fruitworms and loopers but number are very low overall.

On the East Coast, reports indicate that worm pressure has been very light some scattered southern armyworm egg masses.

Pressure is also low around Manatee County.

Some worms are starting to show up on berries and melons around Hillsborough County.

Pepper Weevils

Around Palm Beach County pepper weevils are active in a number of locations. Reports indicate that numbers range from low to moderate.

Around Southwest Florida, pepper weevils are still around and looking for small fruit to infest.

Leafminers

Growers and scouts around Immokalee report that leafminer activity has increased in a few locations on melons and tomatoes.

Respondents in many Manatee County indicate that light leafminer pressure is present in tomato.

Reports from the East Coast indicate that leafminers are remain mostly low.

Some leafminer activity continues to be reported on beans and other crops around Homestead and Belle Glade.

Spider mites

Around Plant City, two-spot and cyclamen mites are increasing on strawberries depending on location.

Grower and scouts around SW Florida report that spidermites are around at mostly low levels on watermelon.

Thrips

Around Palm Beach County, thrips remain mostly low but a few hotspots with higher populations have been reported on peppers and eggplants.

In Hillsborough County, thrips are starting to come in, and scouts report finding chili thrips again in isolated areas.

In other areas, thrips remain low.

Diseases

Bacterial leaf spot

Growers and scouts in Palm Beach County report that bacterial spot remains high on peppers and warmer temps couple with recent rains has brought on new infections in many areas.

Around Immokalee bacterial spot continues to be a problem in many tomatoes and some pepper fields. Some crops look as if they have been blasted with bacteria with new lesions developing on upper foliage and older leaves defoliating under the pressure as the plants are growing slowly from the cold and unable to grow ahead of infections which are working there way into the crowns of these plants.

Reports from the Manatee Ruskin area indicate that bacterial spot is low and has just started to show up in tomato at low levels.

Around Hillsborough County reports indicate that strawberry growers continue to experience problems with bacteria.

Around the Glades, bacterial spot of lettuce has been reported on head and leaf lettuce and in some locations it is severe.

Gummy Stem Blight

Growers and scouts around Southwest Florida report that gummy stem blight is present at mostly low levels in several watermelons and there has been a little new activity.

Respondents in the Manatee Ruskin area report that they are starting to find some gummy stem blight on watermelons.

Late Blight

Around Hendry County late blight is still present in a few tomato and potato fields but is spreading slowly.

Dr. Carrie Harmon, Plant Pathologist at UF/IFAS Gainesville reports some late blight is showing up around St Lucie County.

Target Spot

Target spot is working on older tomatoes around Immokalee that are large enough to have a canopy where it is working on the interior canopy.

Downy Mildew

Downy mildew is present on squash around Homestead.

Downy mildew is present on cabbage and other cole crops around the Glades this past week.

Downy mildew remains active in basil.

Powdery mildew

Powdery mildew is heavy on some eggplant around Palm Beach County. Some powdery mildew is also present on peppers and squash. In squash, incidence and severity increases with age of the crop.

Around Homestead powdery mildew is present on squash.

Respondents around Immokalee report that powdery mildew is high in squash in some locations.

Powdery mildew is also present on pepper at low levels around Devils Garden.

Sclerotinia

Respondents in Palm Beach report that Sclerotinia is common in eggplant and can also be found at low levels in pepper and cabbage in some places.

Around Immokalee, growers and scouts report finding increasing levels of Sclerotinia in tomato and potato.

Early Blight

Around Southwest Florida, early blight is increasing on tomato and potato.

Early blight is present in some locations around Palm Beach where some fruit lesions have been noted.

Phytophthora

Growers and scouts on the East coast indicate that phytophthora has jumped in some area hard hit by recent rains taking peppers and eggplants, with 3-10% of the plants affected in some places.

Pythium

Reports from Manatee County indicate that pythium is causing some issues in wetter parts of fields.

TYLCV

Tomato yellow leaf curl virus remains low in all areas.

News You Can Use

California Growers still waiting for Methyl Iodide

A review panel has raised concerns about the use of methyl iodide on California farmland, saying the highly potent chemical poses significant health risks to workers and the general population. The report from the state-appointed group comes as a blow to farmers and the makers of the fumigant, Tokyo-based Arysta LifeScience, who for more than a year has tried to get the chemical approved in California.

“The products that we have just don’t do the job,” said Barry Bedwell, president of the Fresno-based California Grape and Tree Fruit League. The EPA and virtually every other state has approved methyl iodide. But the eight-member committee reviewing the chemical for use in California found the risk of using methyl iodide, a known carcinogen, is too great, especially for workers whose protections are commonly “inappropriate, inadequate or inaccessible.”

“Due to the potent toxicity of methyl iodide ... adequate control of human exposure would be difficult, if not impossible,” wrote John Froines, chair of the review committee and a UCLA professor of environmental health sciences.

Anti-pesticide groups feel validated. “Ultimately the decision rests with DPR,” said Paul Towers, state director of Pesticide Watch in Sacramento. “They can either choose to ignore the science and move forward with a serious toxic chemical or listen to the science and community concerns and look for safer, long-term solutions.” Activists have also threatened the possibility of suing the state if methyl iodide is approved. “If they don’t make a decision that is protective of California, there are other routes we can take,” said Susan Kegley, a consulting scientist with Pesticide Action Network North America.

Supporters of the fumigant say despite the panel’s report, they hope the state agrees to register the chemical for use in the state. “All chemicals are toxic at some level, and a lot depends on the dosage and concentration,” said Robert Dolezal, executive vice president of the California Association of Nurseries and Garden Centers in Sacramento. “But the key here is mitigating measures that you have on the label for any soil fumigant. And

there are protections for methyl iodide.” Arysta requires methyl iodide applicators to undergo special training, and the company stated “the panel has ignored solid science and taken an extremely conservative position that ignores the weight of scientific evidence supporting EPA’s risk assessment.”

Bedwell worries activists are pushing farmers to be pesticide-free, and that is unrealistic. “As much as I wish we could do that, we can’t provide food at the level that consumers demand from agriculture and be sustainable,” Bedwell said. “Fumigants, including methyl iodide, are part of that equation.” (Sacramento Bee, 2/22/10).

EPA Postpones some Florida Water Quality Standards

EPA Secretary Michael Sole met with FFVA's Executive Committee March 17.

The U.S. Environmental Protection Agency is delaying some of the water quality standards it has proposed for Florida waters.

In a March 17 letter to Michael Sole, secretary of the Florida Department of Environmental Protection, the agency said it is postponing the “downstream protection values,” or DPVs, which are designed to protect estuaries. The DPVs and the model on which they are based were strongly criticized during public hearings on the proposed standards held in Florida in February.

The agency also said it will seek third-party review of the scientific basis for the standards to protect downstream estuaries and coastal waters.

“We will work together with the Florida DEP to ensure we have the best science and analyses to support developing water quality standards to protect downstream estuarine and coastal waters,” wrote assistant administrator Peter Silva.

EPA is still on track to impose numeric standards on lakes, rivers and springs by October. FFVA’s executive committee met with DEP Secretary Sole on March 17 to hear his perspective and discuss agriculture’s serious concerns over the standards. Sole told the group that scientific staff from EPA and DEP are to meet March 26.

“It appears the EPA heard the anger expressed at the hearings,” said Dan Botts, FFVA’s vice president of industry resources. “Despite these developments, pressure on the agency needs to continue.”

The EPA standards are overly broad and fail to take into account the diversity and unique nature of Florida’s lakes, rivers, streams and canals. As a result, bodies of water that now are deemed healthy will be considered impaired.

In addition, necessary upgrades in equipment and technology would be exorbitant and could put many growers out of business.

“It’s highly doubtful that our farming communities would be able to weather the financial burden that would result from attempting to comply with this proposed ruling,” said Kerry Kates, FFVA’s director of water and natural resources.

EPA has extended the deadline for comments to the proposed standards by 30 days, to April 28. FFVA is preparing its comments and urges its members to do the same.

Background information and helpful tips on writing comments are available on FFVA’s Web site.

New EPA rules label a dozen more Collier, Lee waterways as polluted, analysis shows

More Southwest Florida streams and canals would violate water quality standards under a proposal by the U.S. Environmental Protection Agency to limit pollution in Florida waters, according to a Naples Daily News analysis.

The EPA is proposing to set specific numeric limits for nutrient pollution, replacing Florida's more general standard that requires only that nutrients not upset the natural balance of a waterway.

Nutrients, such as nitrogen and phosphorus, end up in Florida waters from urban and farm runoff, triggering ugly algae blooms that can poison water supplies, kill fish and smother marine life.

A dozen Collier and Lee county streams and canals considered not polluted under current state rules would be considered polluted under the EPA proposal, the analysis shows.

They include the L-28 tieback canal on the eastern edge of the Big Cypress National Preserve, the Tamiami Trail canal, the Faka Union canal, Camp Keais south of Immokalee, canals that drain into Rookery Bay National Estuarine Research Reserve and the Golden Gate canal that drains into Naples Bay.

In Lee County, the newly designated polluted water bodies would include the eastern Caloosahatchee River above the Franklin locks and Palm Creek as well as Bayshore Creek/Chapel Creek, which drain into the Caloosahatchee.

Some water bodies — the Estero Bay drainage area and the Ten Mile canal in southern Lee County — would be dropped from the polluted waters list under the EPA proposal, the analysis shows.

The Daily News analysis compared the DEP's current lists of polluted waters with a database created by the DEP, applying the EPA's proposal to water bodies around the state.

A spot on the list of polluted waters triggers cleanup requirements under the federal Clean Water Act.

The EPA proposal is an outgrowth of a settlement of a lawsuit that environmental groups filed in 2008 after Florida missed a 2004 deadline to shore up the state's water quality standards.

Agribusiness groups and utilities have objected to the EPA proposal, saying it will be too costly and questioning the science behind it.

Collier County commissioners are set to decide in the coming week whether to formally object to the EPA proposal.

"This seems to be the sledgehammer instead of a little mallet approach," said Jerry Kurtz, the county's principal stormwater project manager.

He said the county hasn't estimated how much it might cost to comply with the EPA proposal — or even whether it would be possible.

"We can't get our arms around it at all," Kurtz said.

The longer list of polluted waters shows that the state's current standards aren't doing the job, said Earth Justice attorney David Guest, who represented environmental groups in the 2008 lawsuit.

"When you have numeric standards, you learn things you didn't know before," he said.

The state's current standard is akin to waiting for a fish kill or a toxic slime outbreak to determine a water body is polluted, Guest said.

“That’s too late,” he said.

Guest accused the DEP of using the database as “scare literature” to whip up opposition to the EPA’s proposal on the grounds that it will cost too much to clean up all the newly designated water bodies.

The DEP database is meant to try to determine whether the EPA proposal is properly assessing water quality in the state’s streams, lakes and canals, said Julie Espy, environmental administrator in the DEP’s watershed assessment section.

“If a canal seems to have good water quality to you and it fails (the EPA criteria), you might wonder why is that,” she said.

By Eric Staats, Naples News, March 20, 2010

Iowa State's Jack Payne to Head IFAS

University of Florida President Bernie Machen announced recently that Jack Payne, vice president for extension and outreach at Iowa State University, will become the new head of the UF's Institute of Food and Agricultural Sciences

Payne, 63, will take the post of senior vice president for agriculture and natural resources beginning June 1.

Payne succeeds interim Senior Vice President Larry Arrington, appointed last year when Jimmy Cheek left to become chancellor of the University of Tennessee in Knoxville.

Pesticide PotPourri

- On January 28, the Florida Department of Agriculture and Consumer Services (FDACS) approved the registration for Bayer CropScience’s herbicide thiencazabone + tembotrione (Capreno®). The EPA registration number for the product is 264-1063. The herbicide is labeled to control grasses and broadleaf weeds in sweet/pop/field corn. (FDACS PREC Agenda, 3/4/10).
- Isagro USA announced in mid-February EPA approval of its biofungicide Tenet®. The product is a combination of *Trichoderma gamsii* and *T. asperellum*. The material will be available for use in vegetable crops and provide control of root and collar rot disease caused by *Phytophthora capsici*, *Rhizoctonia*, *Pythium*, and *Fusarium*. The product will be marketed in the U.S. by SipcamAdvan. (PMN Plant Health Progress, 2/15/10).
- Based on a request by DuPont, the EPA has approved tolerances for the insecticide chlorantraniliprole (Coragen®). Tolerances of importance to Florida include tropical fruit, brassica head and stem (subgroup 5A), brassica leafy greens (subgroup 5B), sweet corn, citrus, small vine, grass forage, fodder and hay (group 17), okra, rice, strawberry, sugarcane, cucurbit vegetables (group 9), fruiting vegetable (group 8), leafy vegetable except brassica (group 4), legume vegetables (group 6), and tuberous and corm vegetables (subgroup 1C). (Federal Register, 2/3/10).
- Tomato has been requested to be deleted from the Mycotrol® ES label (*Beauveria bassiana* Strain GHA). The EPA registration number is 82074-1. (Federal Register, 1/29/10).

South Florida Vegetable Pest and Disease Hotline – if you get the hotline second hand from another source you may be missing the Quotable Quotes and The Lighter Side – to subscribe direct – email gmcavoy@ufl.edu

Up Coming Meetings

West Palm Beach

March 24, 2010 **Thrip Integrated Pest Management** **12:00 PM**
Peppers, Tomatoes, Beans, Cucurbits and More

Palm Beach County Cooperative Extension
Clayton Hutcheson Agricultural Center, Exhibit Hall-A
559 North Military Trail
West Palm Beach, FL 33415

RSVP at 561-233-1725

Southwest Florida

March 25, 2010 **Radish Variety Trial Field day** **10:30 AM till Noon**

C&B Farms, 27320 CR 835,
Clewiston, Florida.

The trial features 14 varieties planted in a replicated trial on sandy soils.

Other Meetings

March 30, 2010 **IFAS CEU Day - Teleconference** **8:30 PM - 4 PM**
Earn up to **6 CEU's**

UF/IFAS Southwest Florida Research and Education Center
SR 29 North
Immokalee, Florida

No preregistration required.

April 14, 2010 **CCA – CEU program** **8:00 AM – 5:30 PM**

Earn 5 CEUs each in Nutrient Mgt and IPM

Primary site at CREC/Lake Alfred
Teleconference sites include UF/IFAS RECs including
UF/IFAS Southwest Florida Research and Education Center
SR 29 North
Immokalee, Florida

Registration is \$100 – go to www.crec.ifas.ufl.edu/cca for more information and to register

Opportunities

Seed Sales Rep Needed

Harris Moran Seed Co. is seeking a sales representative to manage customers in the South Florida area. A bachelor's degree and five years in the agriculture industry lead the list of requirements.

Please send resume to Harris Moran Seed Co., P.O. Box 4938, Modesto, CA 95352 or via e-mail to hr@hmclause.com.

Farm Land for Lease

Farm Land for lease in LaBelle area – contact Clyde Lavender at 863-673-2338

Quality agricultural land with easy access to SR 710 and SR 76. 1000+/- acres, available in Martin County for lease, or possible joint venture production of vegetable crops, bio-fuels, etc. Call John Merritt at 863-699-6090.

Wanted

Sakata Seed America, Inc. is looking for used pepper and tomato sizing equipment, specifically a Kerian Sizer, but might be interested in other options.

If you have a sizer that might fit what they are looking for - contact Cory Dombrowski Eastern Trial Coordinator & Pepper Product Manager Sakata Seed America at (239-464-3329)

Websites

The Perishable Pundit – where the subject may be perishable but the insight isn't
<http://www.perishablepundit.com/#3>

Fisheating Creek Outpost website – looking for a great place to camp, canoe, kayak, go to
<http://www.fisheatingcreekoutpost.com/default.asp>

Interesting history of a canoe expedition in S Florida in 1848 -
<http://www.fisheatingcreekoutpost.com/upload/acanoeexpedition1842.pdf>

Quotable Quotes

One of the advantages of being disorganized is that one is always having surprising discoveries. - A.A. Milne

It is more fun to talk with someone who doesn't use long, difficult words but rather short, easy words like "What about lunch?" - A.A. Milne

What I say is that, if a man really likes potatoes, he must be a pretty decent sort of fellow. - A.A. Milne

Dance like no one is watching. Sing like no one is listening. Love like you've never been hurt and live like it's heaven on Earth. - Mark Twain

Insanity: Doing the same thing over and over again and expecting different results. - Albert Einstein

Be the change that you wish to see in the world. - Mahatma Gandhi

On the Lighter Side

7 degrees of Blonde

FIRST DEGREE

A married couple were asleep when the phone rang at 2 in the morning. The very blonde wife picked up the phone, listened a moment and said 'How should I know, that's 200 miles from here!' and hung up.

The husband said, 'Who was that?'

The wife answered, 'I don't know, some woman wanting to know if the coast is clear.'

SECOND DEGREE

Two blondes are walking down the street. One notices a compact on the sidewalk and leans down to pick it up. She opens it, looks in the mirror and says, 'Hmm, this person looks familiar.'

The second blonde says, 'Here, let me see!'

So, the first blonde hands her the compact.

The second blonde looks in the mirror and says, 'You dummy, it's me!'

THIRD DEGREE

A blonde suspects her boyfriend of cheating on her, so she goes out and buys a gun. She goes to his apartment unexpectedly and when she opens the door she finds him in the arms of a redhead. Well, the blonde is really angry. She opens her purse to take out the gun, and as she does so, she is overcome with grief. She takes the gun and puts it to her head.

The boyfriend yells, 'No, honey, don't do it!!!'

The blonde replies, 'Shut up, you're next!'

FOURTH DEGREE

A blonde was bragging about her knowledge of state capitals. She proudly says, 'Go ahead, and ask me, I know 'em all.'

A friend says, 'OK, what's the capital of Wisconsin?'

The blonde replies, 'that's easy... it's W.'

FIFTH DEGREE

Q: What did the blonde ask her doctor when he told her she was pregnant?

A: 'Is it mine?'

SIXTH DEGREE

Bambi, a blonde in her fourth year as a UCLA Freshman, sat in her US Government class. The professor asked Bambi if she knew what Roe vs. Wade was about.

Bambi pondered the question; then, finally, said, 'That was the decision George Washington had to make before he crossed the Delaware.'

SEVENTH DEGREE

Returning home from work, a blonde was shocked to find her house ransacked and burglarized. She telephoned the police at once and reported the crime. The police dispatcher broadcast the call on the radio, and a K-9 unit, patrolling nearby, was the first to respond.

As the K-9 officer approached the house with his dog on a leash, the blonde ran out on the porch, shuddered at the sight of the cop and his dog, then sat down on the steps. Putting her face in her hands, she moaned, 'I come home to find all my possessions stolen. I call the police for help, and what do they do? They send me a BLIND policeman!'

Just like Frank

A man walks out to the street and catches a taxi just going by. He gets into the taxi, and the cabbie says, 'Perfect timing. You're just like Frank.'

Passenger: 'Who?'

Cabbie: 'Frank Feldman. He's a guy who did everything right all the time. Like my coming along when you needed a cab, things happened like that to Frank Feldman every single time.'

Passenger: 'There are always a few clouds over everybody.'

Cabbie: 'Not Frank Feldman. He was a terrific athlete. He could have won the Grand-Slam at tennis. He could golf with the pros. He sang like an opera baritone, danced like a Broadway star and you should have heard him play the piano. He was an amazing guy.'

Passenger: 'Sounds like he was something really special. '

Cabbie: 'There's more. He had a memory like a computer. He remembered everybody's birthday. He knew all about wine, which foods to order and which fork to eat them with. He could fix anything. Not like me. I change a fuse and the whole street blacks out. But Frank Feldman, could do everything right.'

Passenger: 'Wow, some guy then.'

Cabbie: 'He always knew the quickest way to go in traffic and avoid traffic jams. Not like me, I always seem to get stuck in them. But Frank, he never made a mistake, and he really knew how to treat a woman and make her feel good. He would never answer her back, even if she was in the wrong; and his clothing was always immaculate, shoes highly polished too. He was the perfect man! He never made a mistake. No one could ever

measure up to Frank Feldman.'

Passenger: 'An amazing fellow. How did you meet him?'

Cabbie: 'Well, I never actually met Frank. He died, and I married his wife.'

Note: State and local budgets cuts are threatening to further reduce our funding – if you are receiving currently receiving the hotline by mail and would like to switch over to electronic delivery – just drop me an email. It is much quicker and you will get the hotline with in minutes of my completing it and help conserve dwindling resources at the same time. Thanks to those that have already made the switch.

Contributors include: Joel Allingham/AgriCare, Inc, Jeff Bechtel/Syngenta Flowers, Bruce Corbitt/West Coast Tomato Growers, Fred Heald/Farmers Supply, Sarah Hornsby/AgCropCon, Cecil Howell/H & R Farms, Loren Horsman/Glades Crop Care, Bruce Johnson/General Crop Management, Barry Kostyk/SWFREC, Dr. Mary Lamberts/Miami-Dade County Extension, Leon Lucas/Glades Crop Care, Mark Mossler/UF/IFAS Pesticide Information Office, Gene McAvoy/Hendry County Extension, Alice McGhee/Thomas Produce, Dr. Gregg Nuessly/EREC Chuck Obern/C&B Farm, Dr. Monica Ozores-Hampton/SWFREC, Dr. Ken Pernezny/EREC, Dr. Rick Raid/ EREC, Dr Ron Rice/Palm Beach County Extension, Dr Pam Roberts/SWFREC, Dr. Nancy Roe/Farming Systems Research, Wes Roan/6 L's, Dr. Dak Seal/ TREC, Kevin Seitzinger/Gargiulo, Ken Shuler/Stephen's Produce, Crystal Snodgrass/Manatee County Extension, John Stanford/Thomas Produce, Mike Stanford/MED Farms, Dr. Phil Stansly/SWFREC, Dr David Sui/Palm Beach County Extension, Dr Gary Vallad/GCREC , Mark Verbeck/GulfCoast Ag, Alicia Whidden/Hillsborough County Extension, Dr Henry Yonce/KAC Ag Research and Dr. Shouan Zhang/TREC.

The **South Florida Pest and Disease Hotline** is compiled by **Gene McAvoy** and is issued on a biweekly basis by the **Hendry County Cooperative Extension Office** as a service to the vegetable industry.

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Glades Crop Care, Inc.

**Leaders in Crop Health
Management**

Charlie Mellinger, Ph.D.
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