

Peanut Diseases & Nematodes in 2024



Dr. Bob Kemerait

Professor and Extension Specialist

Department of Plant Pathology, UGA CAES

Twitter "bob kemerait"

www.peanutrx.org



Fear Monger?

THE WORLD NEWS

Since 1883

YOUR NUMBER ONE SOURCE FOR HEADLINES

\$1.05

THE SKY IS FALLING!

...IDENT DECLARES

RELIGIOUS LEADERS
URGE ALL TO LOOK UP

CHICKEN LITTLE
NOWHERE TO BE FOUND

4 Threats for 2024

1. Tomato Spotted
Wilt

2. Seedling
disease

3. Nematodes

4. Leaf spot and
white mold



Late Leaf Spot



Leaf Spot Problems Are Not New

- **A late start on a fungicide program.**
- **Getting behind on a fungicide program.**
- **Using the wrong product at the wrong time.**
- **What about **NOW**?**

Why White Mold in 2023?



2023 – An EPIC white mold year! (especially dryland fields)



Why White Mold in 2023?



- Early season moisture initially very good growing conditions.
- Hot soil temperatures mid-season fueled white mold.
- Sparse rainfall prevented movement of fungicide to crown.



Getting the most from a soilborne fungicide

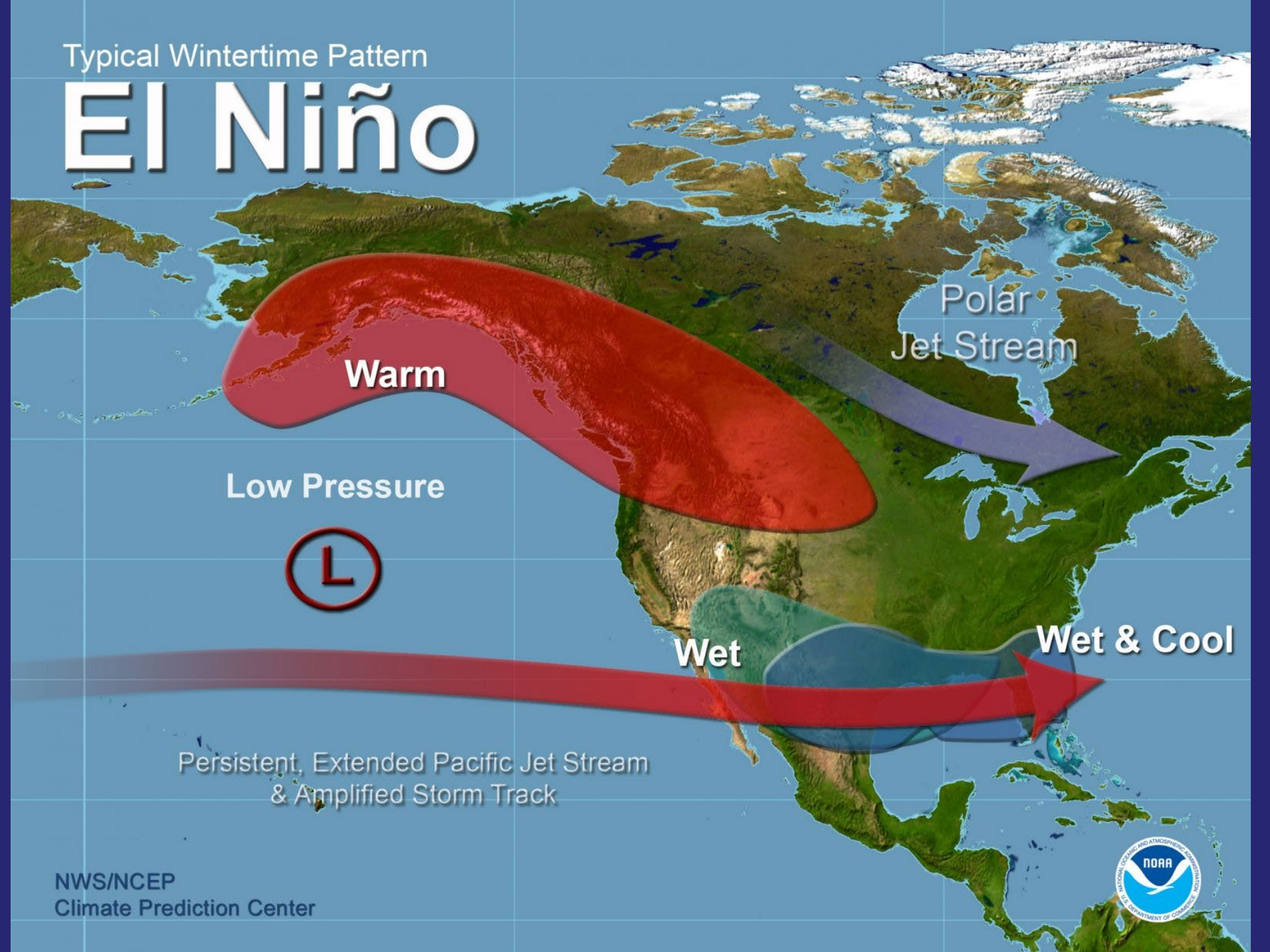


Tim Brenneman



Typical Wintertime Pattern

El Niño



Warm

Low Pressure



Polar
Jet Stream

Wet

Wet & Cool

Persistent, Extended Pacific Jet Stream
& Amplified Storm Track

Considerations for El Niño 2023-24

- Impact of El Niño in the Southeastern USA.
- Winter should be cooler and wetter than normal.
- Impact of cooler temperatures on nematodes?
- Impact of cooler temperatures on rust diseases?
- **WETTER WINTER CONDITIONS**
 - Better degradation of crop debris?
 - Impact on thrips and Tomato Spotted Wilt
 - Diseases (especially *Aspergillus* crown rot)



Pathogens overwinter in peanut debris



- Late leaf spot
- Early leaf spot
- CBR
- White mold (maybe)



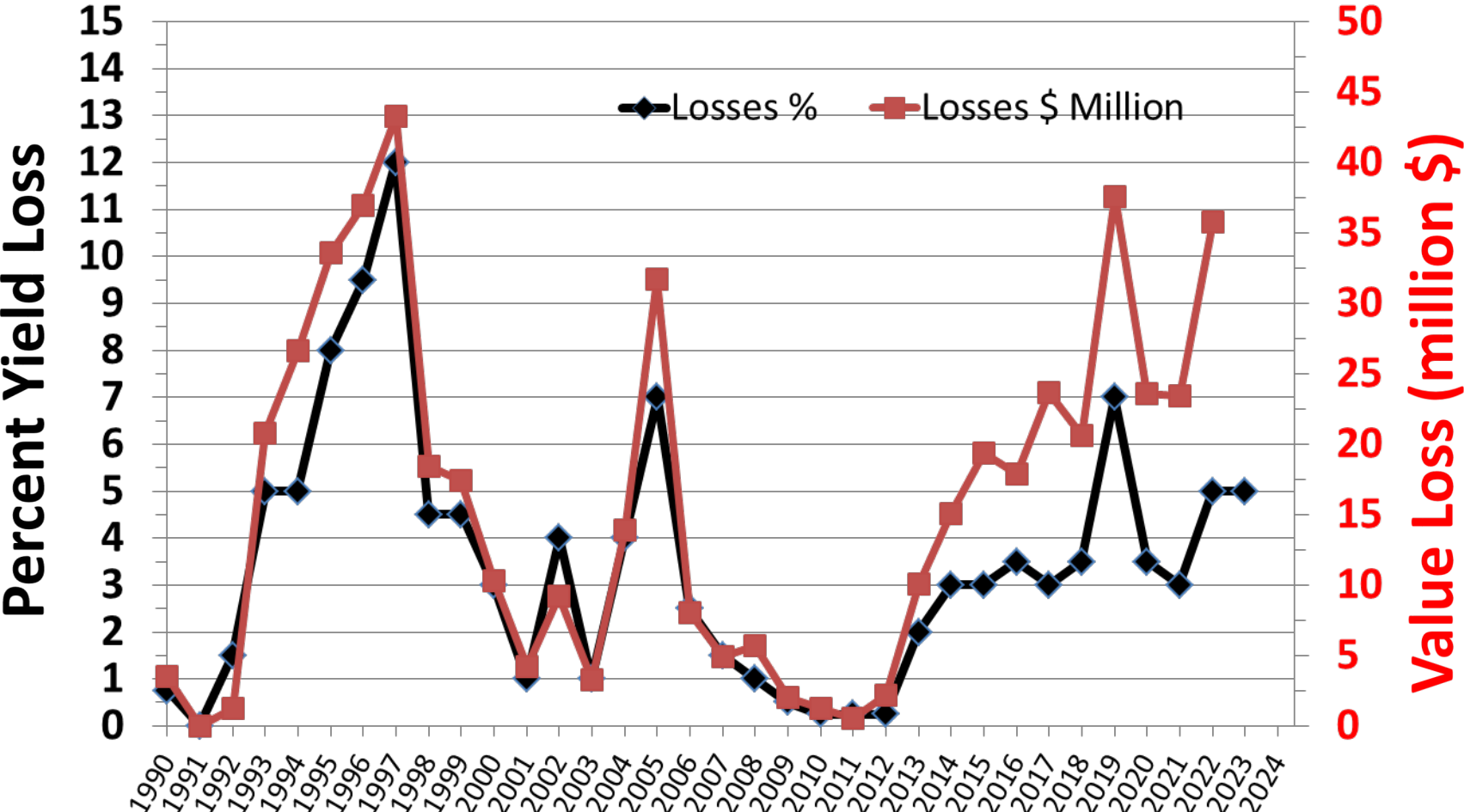
UNIVERSITY OF
GEORGIA
EXTENSION



Tomato Spotted Wilt: Bad in 2023



Losses to Tomato Spotted Wilt in Peanut in Georgia 1990-2023



The logo features the word "PEANUT" in a bold, dark brown, sans-serif font, followed by "Rx" in a bold, yellow, sans-serif font. The text is centered within a yellow rectangular border. Two stylized, yellow, wavy shapes resembling peanut shells with three light brown spots each are positioned above and below the text, framing it.

PEANUT Rx

www.peanutrx.org

Peanut Rx updated for 2024



- Variety update
 - Adjust some point values
 - Add some new varieties
- Classic herbicide update from Dr. Prostko

GA-12Y vs GA-06G for Stem Rot

(2015, T. Brenneman)



Georgia -06G Rep 1



**Thimet 5 lb/A
In-furrow**

NONTREATED

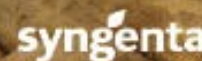
Disease Risk Fungicide Schedules



DAYS AFTER PLANTING	30 DAYS	45 DAYS	60 DAYS	75 DAYS	90 DAYS	105 DAYS	120 DAYS
TRADITIONAL PROGRAM	LEAF SPOT	LEAF SPOT	WHITE MOLD	LEAF SPOT	WHITE MOLD	LEAF SPOT	LEAF SPOT
LOW RISK*	 Tilt Bravo. with SuperWeatherStik. 2.25 pt	 Abound. + Bravo WeatherStik. 12-18 oz 16 oz	 Tilt Bravo. with SuperWeatherStik. 1.5 pt	 Abound. 18 oz	 Tilt Bravo. with SuperWeatherStik. 1.5 pt	 Bravo WeatherStik. 1.5 pt	 Bravo WeatherStik. 1.5 pt
MODERATE RISK	 Tilt Bravo. with SuperWeatherStik. 2.25 pt	 Abound. 18 oz	 Tilt Bravo. with SuperWeatherStik. 1.5 pt	 Abound. 18 oz	 Bravo WeatherStik. 1.5 pt		
HIGH RISK	 Tilt Bravo. with SuperWeatherStik. 1.5 pt	 Tilt Bravo. with SuperWeatherStik. 1.5 pt	 Abound. 18 oz	 Tilt Bravo. with SuperWeatherStik. 1.5 pt	 Abound. 18 oz	 Bravo WeatherStik. 1.5 pt	 Bravo WeatherStik. 1.5 pt
YOUR PROGRAM							

* Syngenta stewardship of FRAC guidelines recommend tank mixing Bravo WeatherStik® (chlorothalalonil) with Abound® (azoxystrobin).

Programs developed through the cooperation of



Under Peanut Rx™, Syngenta brand fungicides are the only fungicides that may be used in your spray program to qualify for our standard product performance protection. ©2007 Syngenta. Syngenta Crop Protection, Inc. Greensboro, NC 27409. Important: Always read and follow label instructions before buying or using these products. Abound®, Tilt Bravo®, SuperWeatherStik®, Bravo WeatherStik® and the Syngenta logo are registered trademarks of a Syngenta Group Company. Peanut Rx™ is a trademark of the University of Georgia. Thimlat® 20G is a registered trademark of Micro Flo Company LLC. Classic® is a registered trademark of E.I. du Pont de Nemours and Company.

Syngenta Crop Protection, Inc. warrants that its products conform to the chemical description set forth on the products' labels. NO OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY TO SYNGENTA PRODUCTS. Syngenta Crop Protection, Inc. neither assumes nor authorizes any representative or other person to assume for it any obligation or liability other than such as is expressly set forth herein. IN NO EVENT SHALL SYNGENTA CROP PROTECTION, INC. BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM ANY USE OR HANDLING OF ITS PRODUCTS. No statements or recommendations contained herein are to be construed as inducements to infringe any relevant patent now or hereafter in existence.

***Aspergillus* spp.** – Virulent peanut pathogens that thrive when *hot & dry*



Current Seed Treatment Options



- **Trebuset (liquid + polymer)**
 - Azoxystrobin* **Group 11**
 - Fludioxonil **Group 12**
 - Mefenoxam **Group 4**
 - **Pydiflumetofen Group 7**
 - **Sedaxane Group 7**

- **Rancona VPD**
 - Ipconazole **Group 3**
 - Carboxin **Group 7**
 - Metalaxyl **Group 4**

- **Rancona VPL (+ polymer)**
 - Ipconazole **Group 3**
 - Carboxin **Group 7**
 - Metalaxyl **Group 4**
 - **Thiophanate methyl Group 1**

In Furrow Fungicides

1. **Abound/Quadris (6-11 fl oz)**

- Used to enhance stands & vigor
- Good on *Rhizoctonia* but not on *Aspergillus*, (Resistance verified)

2. **Proline (5.7 fl oz)**

- Used for CBR and early season white mold, with some stand and vigor benefits

3. **Velum (4.3-6.5 oz) or Propulse (13.6 oz)**

- Fluopyram for nematodes is currently the best option for *Aspergillus* (but not all seedling diseases, as in 2023!)

Peanut Root Knot Nematode



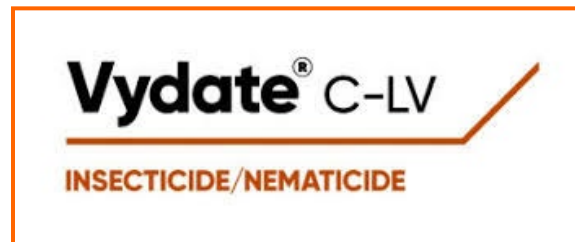
Attapulgus REC



Nematicide Options for 2023

- AgLogic more available in 2023
- Velum (fluopyram ONLY)
 - In-furrow
 - **6.5-6.84 fl oz/A (VELUM)**
 - **Needs thrips product**
- **Propulse** (fluopyram + prothioconazole)
 - Pegging-time for leaf spot, white mold and nematodes.
 - Irrigated/chemigated 13.7 fl oz/A
- **Vydate-CLV** back in 2022
- Telone II
 - Supply in 2022?

AgLogic



Telone* II

Velum vs Vydate-CLV for Peanut

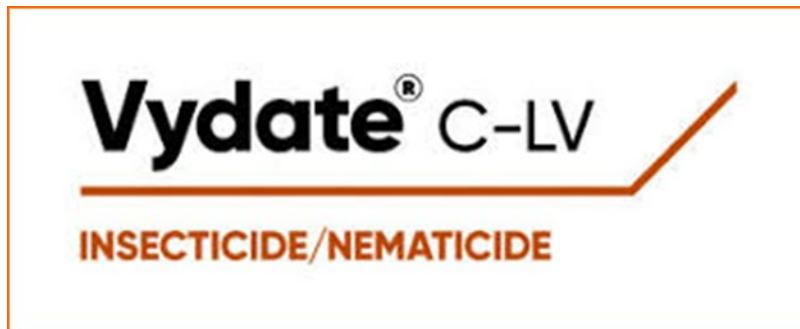


- **Nematodes**

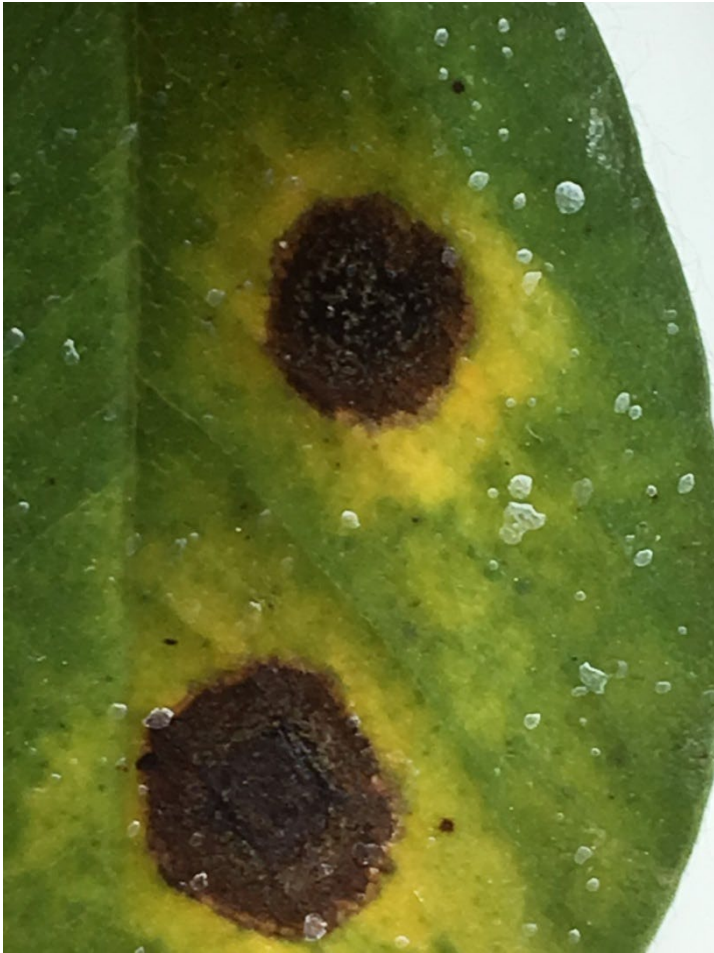
- **Thrips**

- **Seedling disease**

- **Leaf spot**



Early and Late Leaf Spots 2024



UNIVERSITY OF
GEORGIA
EXTENSION

More recent fungicides for leaf spot

- Approach Prima
 - Picoxystrobin + cyproconazole

Approach[®] Prima
FUNGICIDE

- Miravis
 - Pydiflumetofen

 **Miravis[®]**

- Provost Silver
 - Prothioconazole + Tebuconazole


PROVOST[®]
SILVER

- Provysol
 - Mefentrifluconazole

Provysol[™]
Fungicide

- Lucento
 - Flutriafol + Bixafen


LUCENTO[™]
FUNGICIDE

Sulfur as a "tank-mix" partners for Peanut Leaf Spot

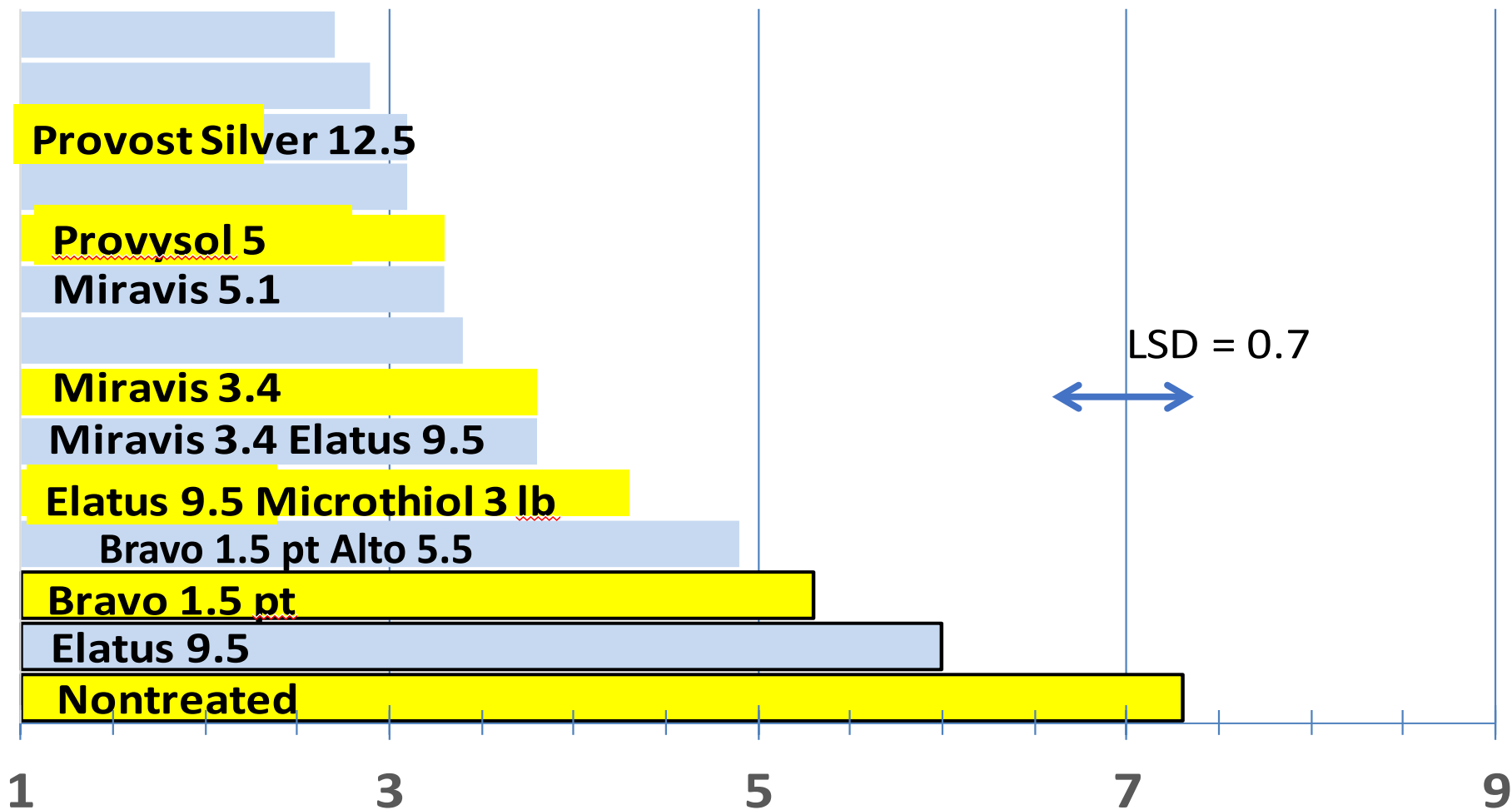
- Microthiol 80W
- Drexel Sulfur 80W
- Drexel Suffa 6F
- TechnoS 90W
- Accoidal 80WG
- Kolla 6F (**Not as good**)
- Yellow Jacket 90W (**not recommended**)



Treatment application timing, Fungicide Test, Lang Farm, 2023

A	B+7	D	E	F+7
Alto 5.5 Bravo 1.5	TRT	Bravo 1.5	TRT	Bravo 1.5
40 DAP	57 DAP	78 DAP	92 DAP	113 DAP

Effect of fungicides on early leaf spot, UGA Lang Farm, 2023 (Florida Scale 1-10)





T. Brenneman



Tebuconazole 22 years later



- Inexpensive.....
- Still effective, especially for white mold
- Tebuconazole should be tank-mixed for best leaf spot control....
- Remember **RATE** and resistance management...
- **WE HAVE BETTER FUNGICIDES**

White Mold Control at 45 Days?

- In-furrow option



- Strong leaf spot control, fair white mold control



- Tebuconazole

- Premium fungicides at generally lower rates



And then to 60 days and beyond



Vantana™
Control so good it's nuts.

- Spray program with Bravo Weather Stik® for full-spectrum disease control
- Targets late blight, white mold/southern blight
- Foliar multi-site contact fungicide
- Non-SDHI fungicide

Kyle Barker
ADAMA Territory Sales Rep
kyle.barker@adama.com
229.256.7745

ADAMA
Listen - Learn - Deliver

Always read and follow label directions. Bravo Weather Stik is a registered trademark of ADAMA. US Vantana is a trademark of ADAMA US. ©2022 ADAMA.

Fontelis®

FUNGICIDE



Elatus®



PROVOST®

SILVER

EXCALIA®

FUNGICIDE



CONVOY®

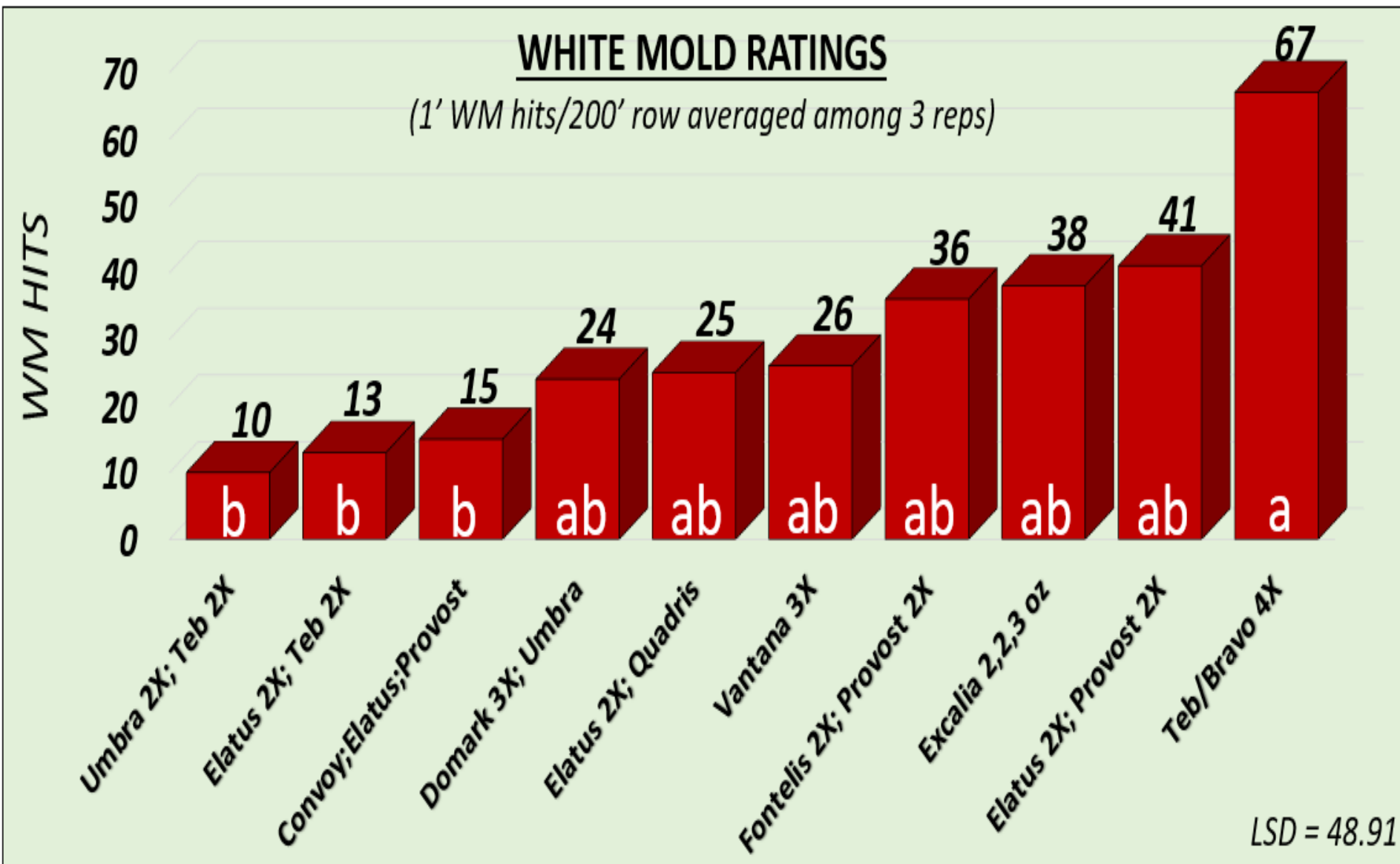
FUNGICIDE



UMBRA®
FUNGICIDE

STOP THE CREEP

Cook County 2023

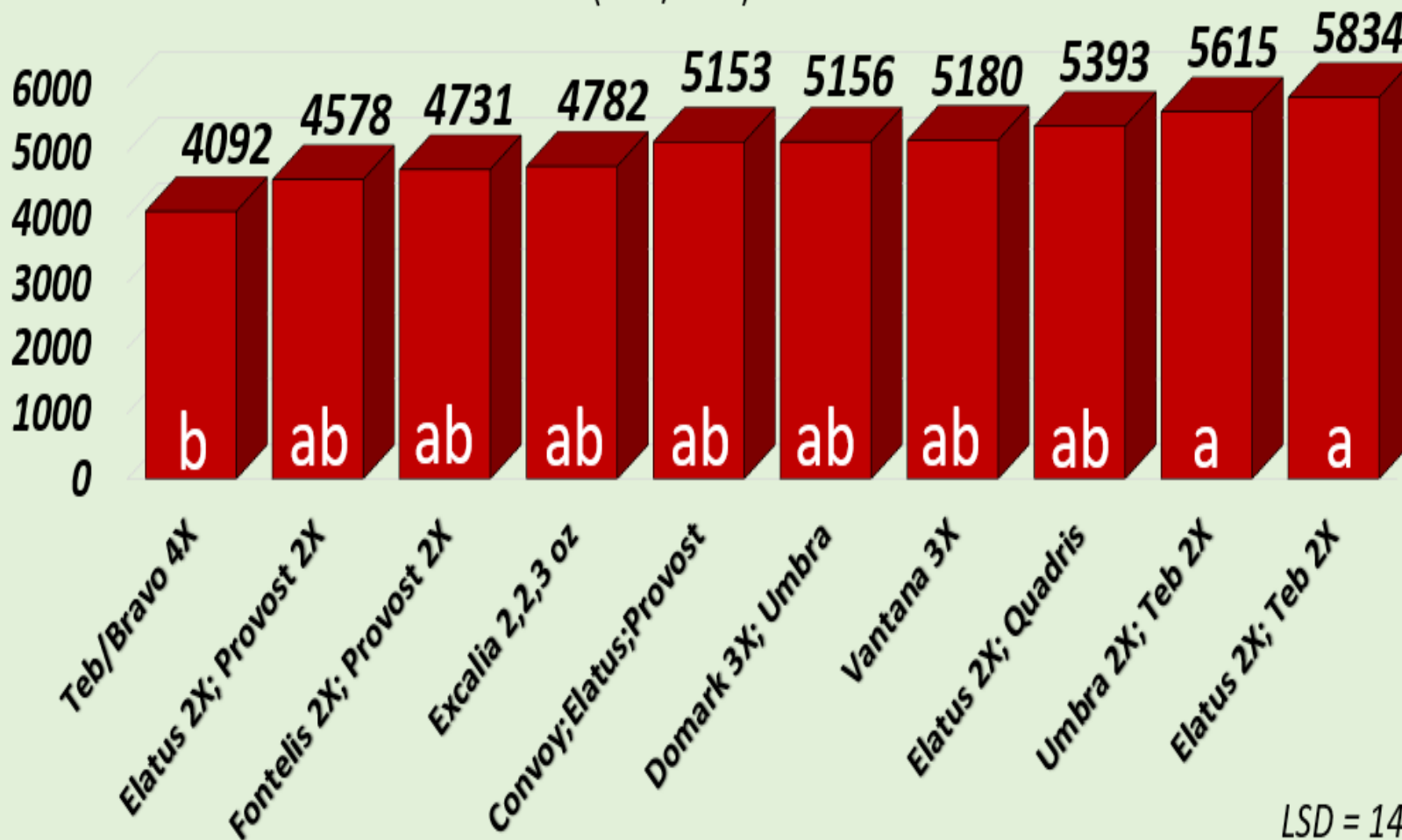


Cook County 2023

YIELD COMPARISON

(LBS./Acre)

POUNDS/ACRE



LSD = 1496.4

QUESTIONS

