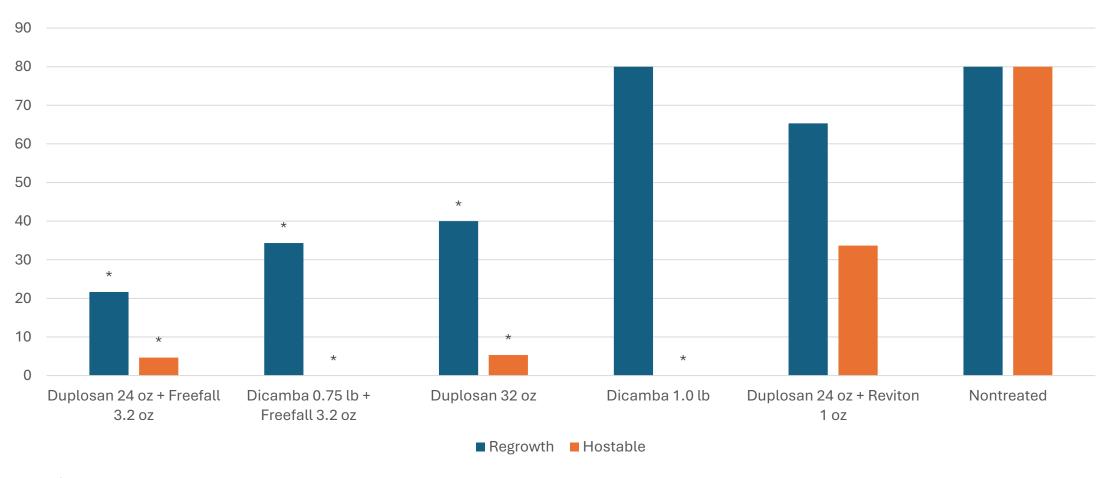


COTTON STAIN DESTRUCTION & DATA IN LRGV

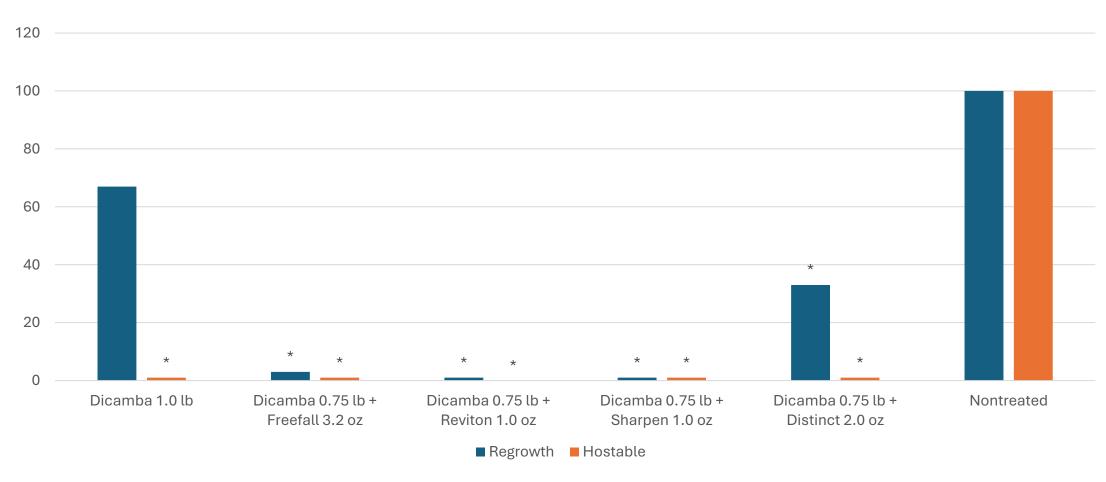
Danielle Sekula – Extension Agent, IPM Texas A&M AgriLife, Weslaco



Enlist Cotton Stalk Destruction 28 DAT



Enlist Cotton Stalk Destruction 29 DAT

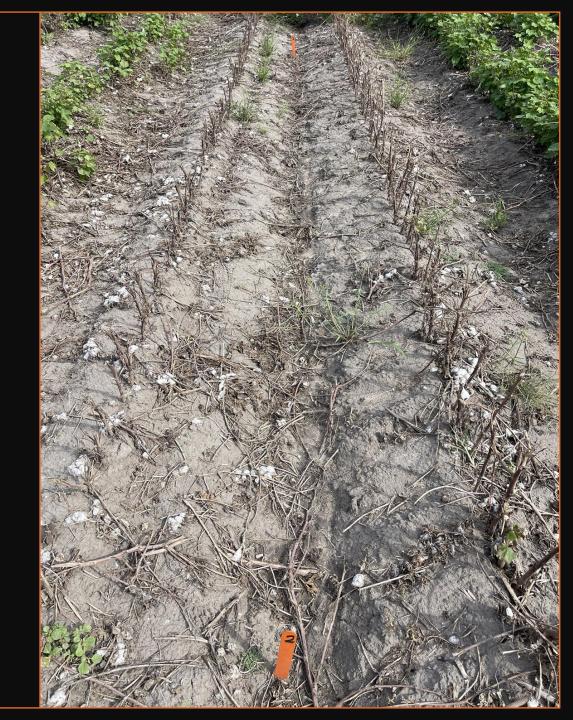




Trt 1: Dicamba @ 1 qt/acre + COC @ 1% (29 days after treatment)



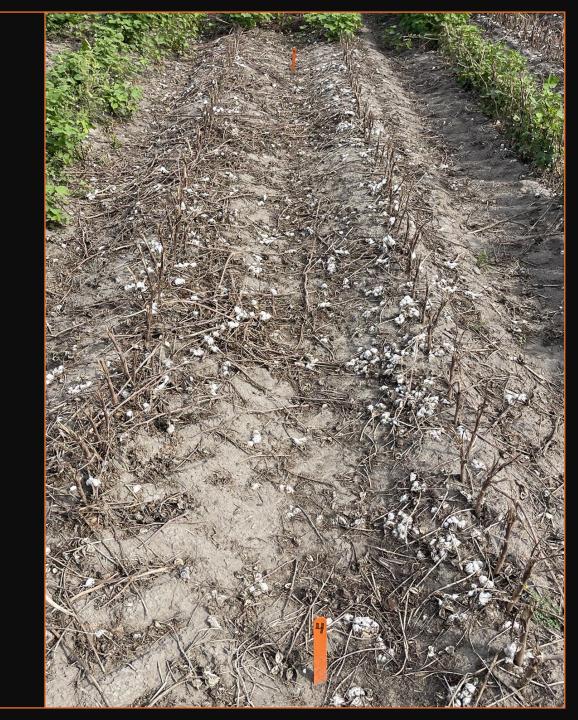
Trt 2: Dicamba @ 0.75 qt/acre + Freefall @ 3.2 fl oz/a + COC @ 1% (29 days after treatment)



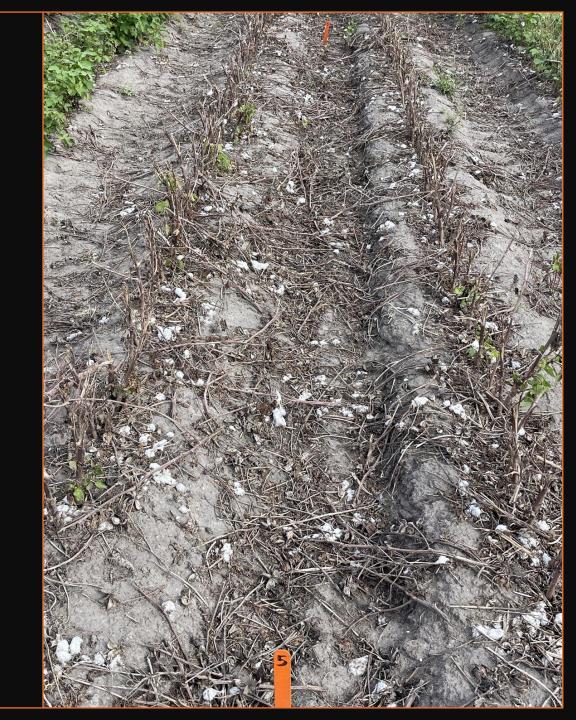
Trt 3: Dicamba @ 0.75 qt/acre + Reviton @ 1 fl oz/a + COC @ 1% (29 days after treatment)



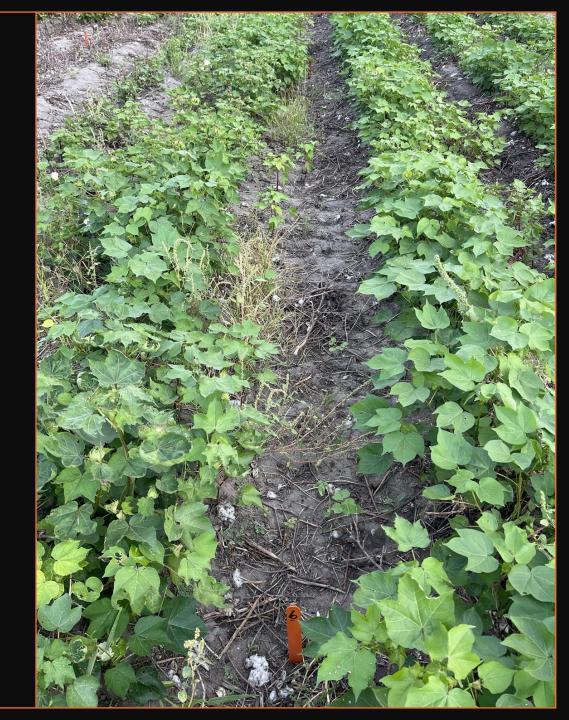
Trt 4: Dicamba @ 0.75 qt/acre + Sharpen @ 1 fl oz/a + COC @ 1% (29 days after treatment)



Trt 5: Dicamba @ 0.75 qt/acre + Distinct @ 2 fl oz/a + COC @ 1% (29 days after treatment)



Trt 6: Nontreated Control (29 days of regrowth)



Thryvon Vs non Thryvon trial 2024

- planted at Texas AgriScience in Lyford, TX
- Treatments were set in a randomized complete block (RCB) design consisting
- of two cultivars, one with Thryvon (DP 2317) and one without Thryvon (Ton Buster Magnum).
- Evaluated Fleahoppers & plantbugs (tarnished & Verdes)
- For each cultivar used, we had two spray treatments and an untreated control.
 - On May 29th two spray treatments were applied (Transform @ 1oz/acre & Acephate @ 4oz/acre) for fleahopper control. At the time of spray application fleahoppers were at about 9-13% per 90 plants, middle row of plot.
 - On June 14th two spray treatments were applied (Transform @ 1.5 oz/acre & Leverage @ 3.2 oz/acre) for plantbug control.
- Evaluated all data using SAS 9.4 (Anova, lsd of .05).

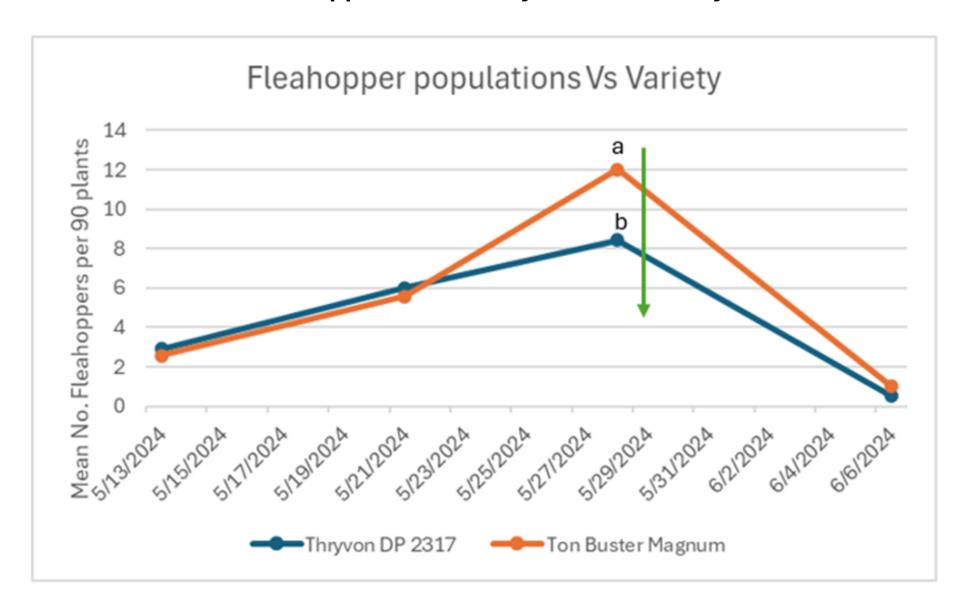
COTTON FLEAHOPPER

- Have piercing-sucking mouthparts suck sap from tender portions of crop
- Many alternative hosts (weeds)
- 1st 3 weeks of squaring are most sensitive
- Scout weekly (bucket method)
- Treatment rarely justified after bloom
- Avoid broad spectrum insecticides after 2nd week of squaring

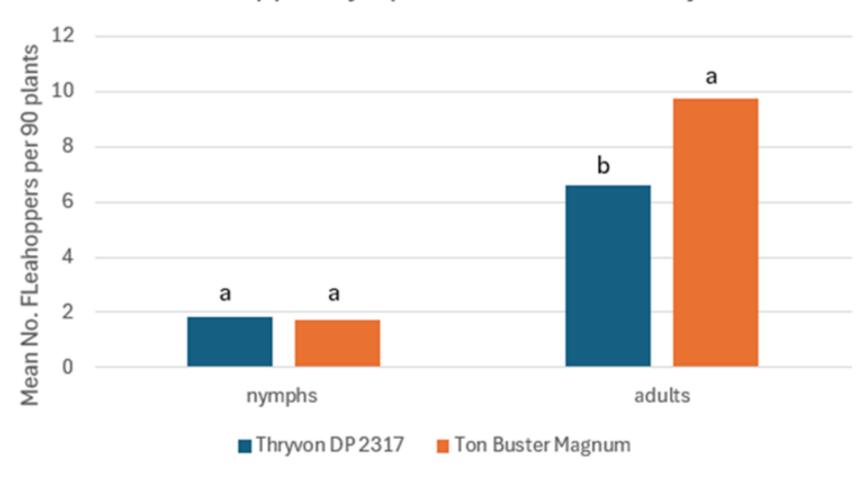


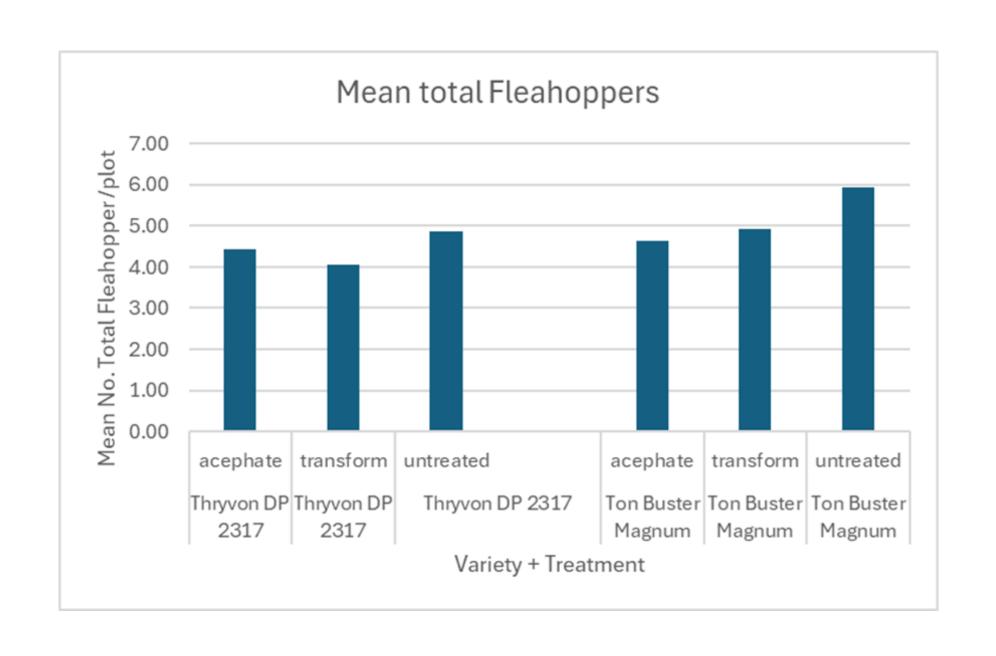


Fleahopper Data in Thryvon Vs Non Thryvon:



Fleahopper Nymphs & adults Vs Variety











Tarnished Plant Bug (Lygus Bugs)

- Prefer Legumes
- Feed on cotton terminals, squares, flowers, and small bolls
- Feeding may cause:
 - Deformed bolls
 - Dirty bloom (damaged anthers) and puckered petals
 - Shedding of squares and small bolls
 - Stunted growth
 - Sunken lesions on outer surface of bolls
 - Damaged developing seeds or lint

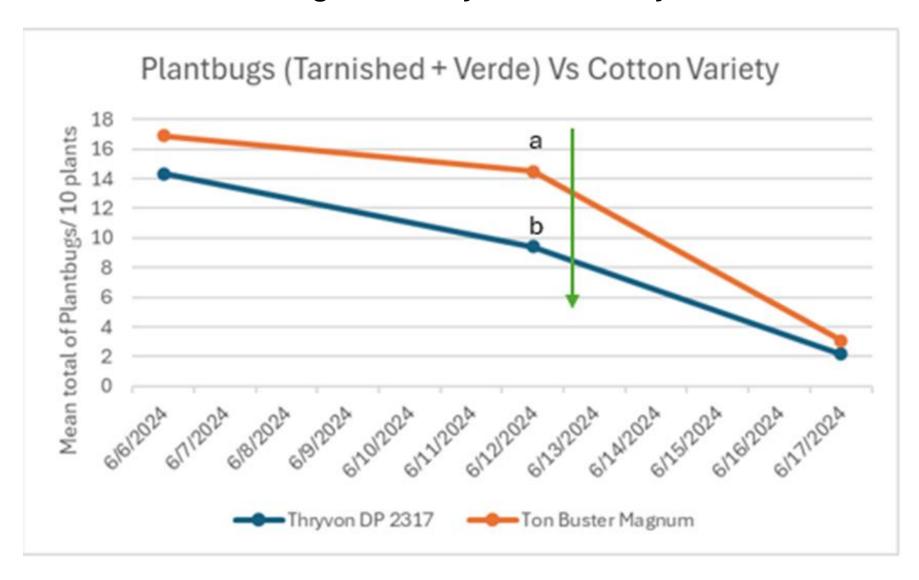




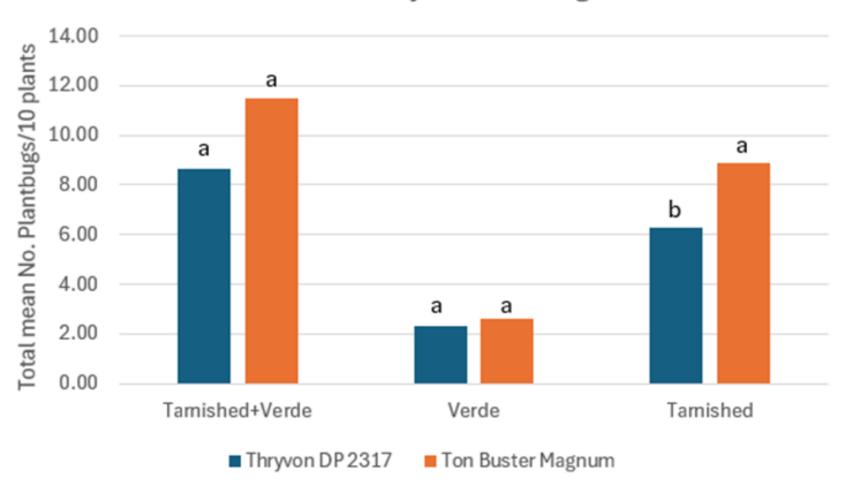
Verde Plant Bug

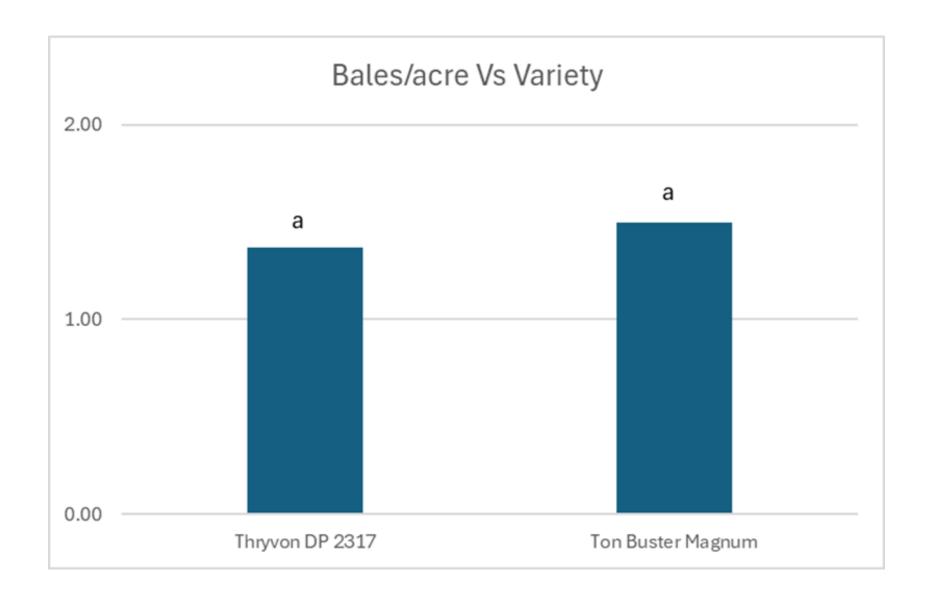
- Many alternative hosts: seepweed, pigweed, and sorghum
- Piercing-sucking mouthparts used to feed on large squares and bolls up to 1 inch in diameter
- Causes dropped mature squares and young bolls and boll rot
- Treat when 20-25 bugs/100 plants, or
- (1-2 bugs per 10 sweeps) (4-5 per 20 sweeps)
- Beat bucket is 1 per plant
- Access your cotton field to see if you have more immature bolls than mature as once bolls are larger than 1 inch diameter and cannot be squeezed open they are generally safe from plant bug damage.

Plantbug Data in Thryvon Vs Non Thryvon:

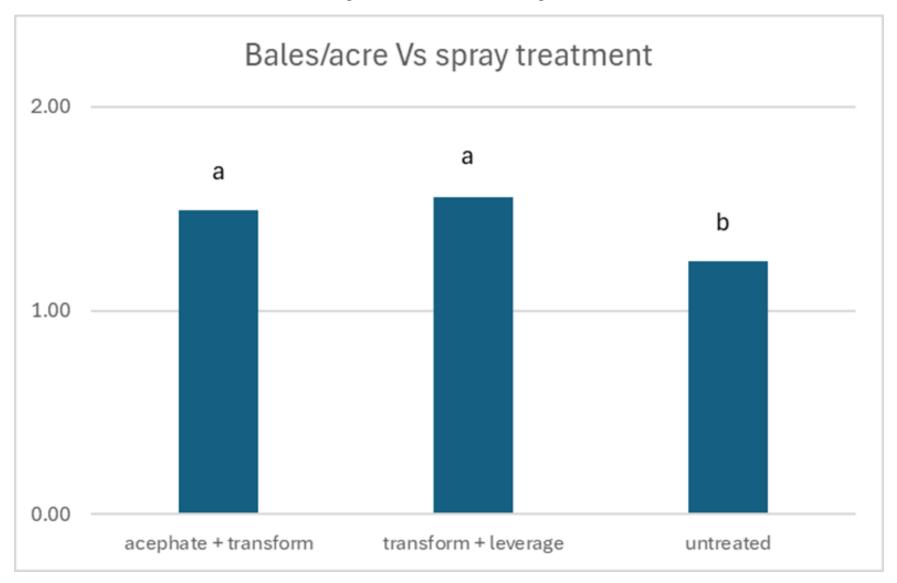


Cotton Variety Vs Plantbugs





Yield in Thryvon Vs Non Thryvon:



Observations for Chilli thrips, whiteflies & Plantbugs

(tarnished + Verde) at:

Hidalgo County RACE Trial, 2024

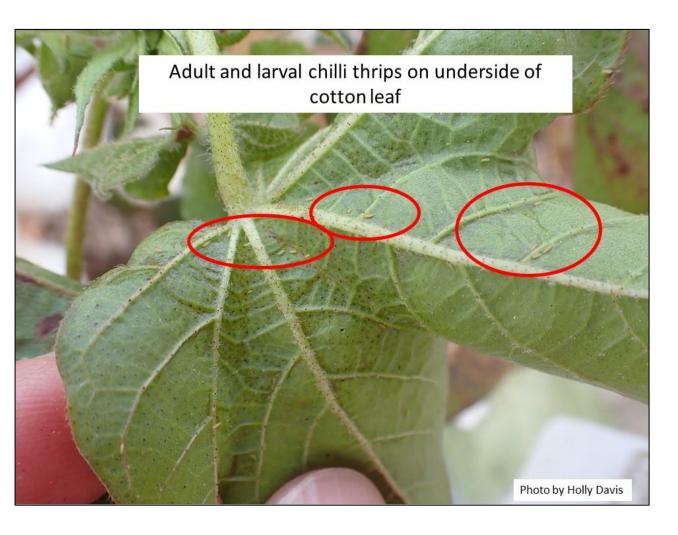
Cooperator: Balde Gonzalez

Chilli thrips, Scirtothrips dorsalis

- From Southeast Asia
- First detected in Florida in 1991, considered established by 2005
- Found in Southeast TX in 2005
- Detected in grapefruit by Dr. Mamoudou Sétamou in 2018, and every year since
- Late season bronzing lead to discovery in cotton throughout the Valley in 2020



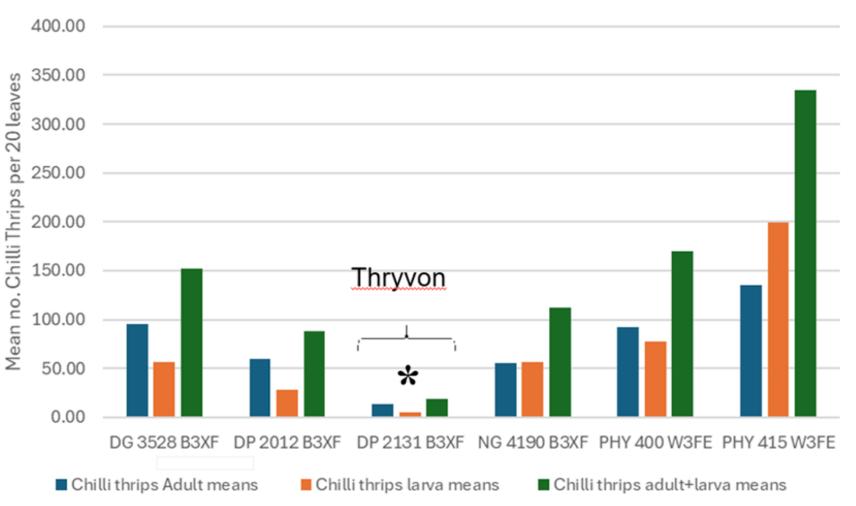
Damage: Cotton







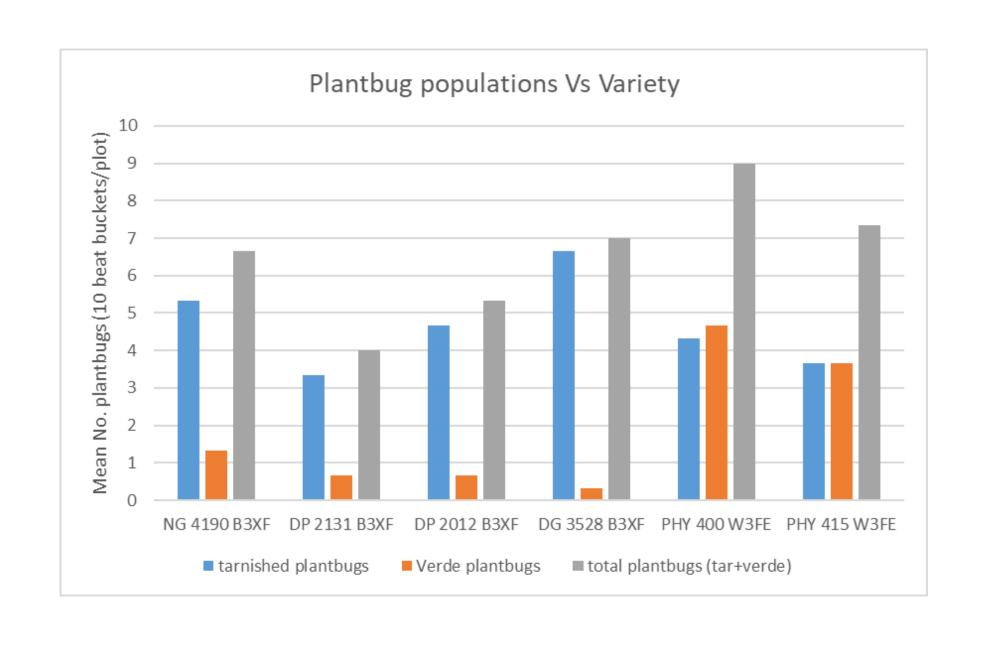
Comparison of Chilli Thrips populations Vs Cotton Varieties 2024



_

	Chilli thrips means/ 20 cotton leaves									
Varieties	Adult means	1	arva mean	S	adult+larva means					
DG 3528 B3XF	95.33	ab	56.67	bc	152.00	b				
DP 2012 B3XF	59.83	bc	27.83	bc	87.67	bc				
DP 2131 B3XF	13.00	c	5.50	c	18.50	С				
NG 4190 B3XF	55.83	bc	56.17	bc	112.00	b				
PHY 400 W3FE	92.33	ab	77.17	b	169.50	b				
PHY 415 W3FE	135.33	a	199.17	a	334.50	а				

Means within a column followed by the same letter are not significantly different (P>0.05; PROCANOVA; Mean comparison by LSD [SAS 9.4])



	Plantbug populations Vs Variety											
Variety	tarnished plantbugs		Verde plantbugs		total plantbugs (tar+verde)							
NG 4190 B3XF	5	а	1	ab	7	а						
DP 2131 B3XF	3	а	1	С	4	а						
DP 2012 B3XF	5	а	1	С	5	а						
DG 3528 B3XF	7	а	0	С	7	а						
PHY 400 W3FE	4	а	5	а	9	а						
PHY 415 W3FE	4	а	4	ab	7	а						

Means within a column followed by the same letter are not significantly different (P>0.05; PROC ANOVA; Mean comparison by LSD [SAS 9.4])

Whiteflies in Cotton

- Piercing-sucking mouthparts
 - Stunts growth
 - Reduces plant vigor
- Produce honeydew
 - Premature defoliation
 - Sticky cotton
 - Stain lint and reduce fiber quality



Closeup of whitefly nymph

Mean Whitefly populations per 10 cotton leaves Vs variety										
Variety	whiteflies									
NG 4190 B3XF	12	b								
DP 2131 B3XF	8	b								
DP 2012 B3XF	8	b								
DG 3528 B3XF	24	b								
PHY 400 W3FE	27	а								
PHY 415 W3FE	24	а								

leans within a column followed by the same letter are not significantly differer (P>0.05; PROC ANOVA; Mean comparison by LSD [SAS 9.4])

Table xx. Hidalgo County RACE Trial, 2024

Cooperator: Balde Gonzalez

Vidal Saenz - Hidalgo County Extension Agent, Agriculture and Natural Resources Danielle Sekula - Hidalgo, Cameron, and Willacy County IPM Agent - Weslaco, TX

Dr. Josh McGinty, Jonathan, Ramirez, Clinton Livingston, and Rudy Alaniz - Texas A&M AgriLife Extension, Corpus Christi

Variety	Yield (It	os/acre)	Turnout %		Micronaire Len		Length (Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value (\$/Ac)	
NG 4190 B3XF	1429	а	46.1	b	5.1	abc	1.12	ef	27.9	b	81.7	-	51.47	С	735	а	
DG 3503 B3XF	1349	ab	45.7	bc	4.7	е	1.20	a	31.6	a	82.4	-	54.00	а	728	а	
DP 2131 B3TXF	1341	ab	45.5	bcd	4.8	de	1.17	abc	28.7	b	81.5	-	53.62	ab	719	ab	
DP 2012 B3XF	1288	bc	44.2	de	5.0	bc	1.15	cde	28.6	b	82.7	-	51.83	С	668	bc	
ST 6000 AXTP	1286	bc	47.8	а	5.2	а	1.18	ab	31.4	a	82.8	-	50.92	С	654	cd	
DG 3528 B3XF	1245	cd	44.8	b-e	5.0	abc	1.16	bcd	29.0	b	82.4	-	51.92	С	647	cde	
PHY 400 W3FE	1217	cd	45.4	bcd	5.0	bc	1.11	f	29.1	b	81.8	-	52.28	bc	638	cde	
PHY 415 W3FE	1178	de	44.6	cde	4.9	cd	1.14	def	29.1	b	81.7	-	51.77	С	610	def	
FM 868 AXTP	1170	de	43.5	е	5.0	abc	1.13	def	29.3	b	81.7	-	50.90	С	596	ef	
NG 3457 B3XF	1123	e	45.4	bcd	5.1	ab	1.14	de	28.4	b	82.2	-	51.07	С	573	f	
Mean	1263		45.3		5.0		1.15		29.3		82.1		51.98		657		
P>F	0.0004		0.0074		0.0029		0.0018		0.0043		0.6555		0.0409		0.0003		
LSD (P=.10)	90.6		1.47		0.18		0.03		1.45		1.27		1.63		52.3		
STD DEV	63.98		1.04		0.12		0.02		1.02		0.90		1.15		36.97		
CV%	5.07		2.30		2.51		1.96		3.48		1.09		2.22		5.63		