Z E E ment **U** Q S D Plains

General Status

Assuming or even hoping in this business in this region is dangerous. We had been hopeful and assumed we were past any significant damaging weather events for the season. Then on July 10^{th} , a very strong and 'personalized' storm dropped shredding hail on about 1,400 of our better program cotton acres in south-central Swisher and headed for more acres to the west and south. I understand there was another similar storm to the south also. For our program fields, these fields



Some of the hail damage in Swisher.

were among the only first plantings to be put in the ground before May 27th or so that survived the month of June and had a decent chance at blooming by next week. If there is a silver lining for our producers under that storm, it is that they were also fields that had borderline fleahoppers last week and I fully expected to see them at ET by late in the week. At least that expense was saved

on the acres lost. Damaged acres are more likely to attract higher pest populations for the remainder of the season adding insult to injury.

Otherwise, substantial progress has been made by other cotton fields this week with most

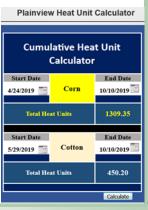


Cotton developing well in south-west Hale.

areas also seeing some gentler and helpful rainfall in the last 7 days. All dryland acres are very thankful for the reprieve. PGRs and weeds remain of focused grower interest. While we again had no program acres requiring treatment for pests, a full half of our cotton fields have

notable pest populations

building to near ET levels and fruit loss a bit higher than we have been spoiled with in the majority of recent growing seasons. Older corn and sorghum fields are in pollination mode or other early critical and water needy reproductive stages. On the whole, there are plenty of details in all crops to watch this week.



JULY 12, 2019

Cotton

This week our cotton ranged in stage from 6th true leaf (without squares yet) up to 1/2 grown squares with most fields falling between matchhead and 1/3 grown square. A few of the 1/3 grown squares have an outside chance of making blooms by next week, but the 1/2 grown squares should be blooming late next week, if nothing happens to them, but these plants are few and far between.



All our program fields have some fruit loss with only the fields putting on their first pinhead squares being the only excep-

up to 20% with at least half of the existing drop identified as coming from weather related causes. Pockets of adult fleahoppers continue to be found in most fields. It is fairly easy to note that the higher drop percent plants coincide with these pockets of fleahoppers. The frequency and intensity of these fleahopper pockets are dictating how severe the drop averages for each field with the older weather related fruit loss being the starting point and fleahopper damage



accumulating on top of that. Some weather-related drop is running 3% to 5% in fields, others are up to 15%. So far, we are not seeing fleahopper only caused drop over 10% of the total. If the fleahopper menace increases in pressure just a bit either through adult infestation or nymph reproduction in-field we could be spraying many area fields soon with little room or time for more lost fruit.





We are picking up just a few Lygus and stink bugs joining the fleahoppers this week. The stink bugs were heavier in areas of our scouting program south of Plainview while the Lygus were scattered. The threshold listed for fleahoppers in our cotton insect guide is as follows:

Panhandle South Plains Permian Basin Rolling Plains Trans Pecos	25–30 per 100 terminals (terminal inspection)	Week of squaring	Square set < 90%	
		1st week		
		2nd week	< 85%	
		3rd week	< 75%	
		After 1st bloom, treatment is rarely justified.		

This 25-30% infested plant rate can be **converted to roughly 1 fleahopper / 1.5' row feet** with the same square set (conversely drop %) percentages if you are utilizing the drop cloth scouting methods like we are.

The Lygus thresholds from our cotton insect guide are as follows:

Table 8. Lygus action threshold								
	Sampling method							
Cotton stage	Drop cloth	Sweep net						
1st two weeks of squaring*	1–2 per 6 ft-row with unacceptable square set	8 per 100 sweeps with unacceptable square set						
3rd week of squaring to 1st bloom	2–3 per 6 ft-row with unacceptable square set	15 per 100 sweeps with unacceptable square set						
After peak bloom	4–6 per 6 ft-row with unacceptable fruit set the first 4-5 weeks	15–20 per 100 sweeps with unacceptable fruit set the first 4–5 weeks						

The same percent fruit loss / square set considerations used for fleahopper decisions should also apply to Lygus.

Stink bugs are a rarer pest for our area. Our IPM Agents from the Coastal Bend area tell us that if you are using the drop cloth or sweep net methods of scouting, the <u>ET for all stink bug species should be 1 stink bug / 6' row pre-bloom</u>. Post bloom we would need a 10% to 15% boll injury threshold during weeks 3 through 5 of bloom, 20% during weeks 2 and 6, and 30% or more during weeks 7 or later of bloom.

Benficials are still on the moderate side this week in cotton, but they are making an impact on the



fleahopper population. This population of benficials consists of the type of predators that perhaps have the best chance of catching on plant bugs.

Nabids (damsel bugs) and assassin bugs.





Figure 36. Southern green stink bug adult.



Figure 37. Green stink bug adult.



Figure 38. Brown stink bug adult.



Figure 39. Conchuela stink bug adult.



Figure 40. Conchuela stink bug nymph.



Top and left: All stink bug species listed in our Cotton Insect Management Guide.

Middle: fleahopper found during a scouting data set in Hale this week by our PPM scouts. Fleahopper on a drop cloth.

Top Right: Adult Lygus—Photo by Dr. Pat Porter.

Bottom Right: fruit drop found by our PPM field scouts this week showing 1st position missing likely due to weather, 2nd position missing likely due to pest issues.

Vydata C-W 3.77	Cotton Fleahopper								
Acephate 90 Prill acephate 4.4 0.248 3.64 Caution Organophosphate (IB) 24h 21	Vydate C-LV 3.77	oxamyl	8-32	0.125-0.5	16-4	Danger	Carbamate (1A)	48h	14
Intruder Max Carbine 50WG flonicamid 1.7-2.8 0.053-0.089 9.41-5.71 Warning Flonicamid (29) 12h 30 Centric 40 WG thiamethoxam 1.25-2.5 0.0313-0.0625 12.8-6.4 Caution Neonicotinoid (4A) 12h 21 14 14 15 15	Orthene 97	acephate^	4	0.244	4	Caution	Organophosphate (1B)	24h	21
TOWP/Strafer Max	Acephate 90 Prill	acephate	4.4	0.248	3.64	Caution	Organophosphate (1B)	24h	21
Centric 40 WG		acetamiprid^	0.6-1.1	0.025-0.05	26.67–14.55	Caution	Neonicotinoid (4A)	12h	28
Alias 4F imidacloprid^ 1-2 0.0313-0.0625 128-64 Caution Neonicotinoid (4A) 12h 14	Carbine 50WG	flonicamid	1.7-2.8	0.053-0.089	9.41-5.71	Warning	Flonicamid (29)	12h	30
Bidrin 8 dicrotophos^ 4,0-8,0 0,25-0,5 32-16 Danger Organophosphate (18) 6d 30	Centric 40 WG	thiamethoxam	1.25-2.5	0.0313-0.0625	12.8-6.4	Caution	Neonicotinoid (4A)	12h	21
Plant Bugs	Alias 4F	imidacloprid^	1–2	0.0313-0.0625	128-64	Caution	Neonicotinoid (4A)	12h	14
Nydate C-LV 3.77 Oxamyl 8-32 0.125-0.5 16-4 Danger Carbamate (IA) 48h 14	Bidrin 8	dicrotophos^	4.0-8.0	0.25-0.5	32–16	Danger	Organophosphate (1B)	6d	30
Intruder Max 70WP/Strafer Max Acephate Max 70WP/Strafer Max Acephate 90 Prill acephate A4-17.6 A4-17.6 A24-0.99 A4-0.91 Caution Organophosphate (IB) 24h 21 Corthene 97 Acephate A-16 A24-0.974 A-1 Caution Organophosphate (IB) 24h 21 A4-17.6 A4-17.6	Plant Bugs								
Acephate 90 Prill acephate Acephate	Vydate C-LV 3.77	oxamyl	8-32	0.125-0.5	16-4	Danger	Carbamate (1A)	48h	14
Orthene 97 acephate 4-16 0.244-0.974 4-1 Caution Organophosphate (IB) 24h 21 Diamond 0.83 EC novaluron 9-12 0.0584-0.0778 14.22-10.67 Warning Benzoylureas (15) 12h 30 Steward EC indoxacarb 9.2-11.3 0.09-0.11 14-11.5 Caution Oxadiazines (22A) 12h 14 Carbine 50WG flonicamid 1.7-2.8 0.053-0.089 9.41-5.71 Warning Flonicamid (29) 12h 30 Dimethoate 4E dimethoate^A 8 0.25 16.0 Warning Organophosphate (IB) 48h 14 Bidrin 8 dicrotophos^A 4.0-8.0 0.25-0.5 32-16 Danger Organophosphate (IB) 48h 14 Allas 4F imidacloprid^A 1-2 0.0313-0.0625 128-64 Caution Neonicotinoid (4A) 12h 14 Centric 40 WG thiamethoxam 1.25-2.5 0.0313-0.0625 12.8-6.4 Caution Neonicotinoid (4A) 12h 14 <t< td=""><td></td><td>acetamiprid^</td><td>0.6-1.1</td><td>0.025-0.05</td><td>26.67–14.55</td><td>Caution</td><td>Neonicotinoid (4A)</td><td>12h</td><td>28</td></t<>		acetamiprid^	0.6-1.1	0.025-0.05	26.67–14.55	Caution	Neonicotinoid (4A)	12h	28
Diamond 0.83 EC novaluron 9-12 0.0584-0.0778 14.22-10.67 Warning Benzoylureas (15) 12h 30	Acephate 90 Prill	acephate^	4.4-17.6	0.248-0.99	3.64-0.91	Caution	Organophosphate (1B)	24h	21
Steward EC indoxacarb 9,2-11,3 0.09-0.11 14-11.5 Caution Oxadiazines (22A) 12h 14 Carbine 50WG flonicamid 1.7-2.8 0.053-0.089 9,41-5.71 Warning Flonicamid (29) 12h 30 Dimethoate 4E dimethoate^ 8 0.25 16.0 Warning Organophosphate (1B) 48h 14 Bidrin 8 dicrotophos^ 4.0-8.0 0.25-0.5 32-16 Danger Organophosphate (1B) 6d 30 Alias 4F imidacloprid^ 1-2 0.0313-0.0625 12.8-64 Caution Neonicotinoid (4A) 12h 14 Centric 40 WG thiamethoxam 1.25-2.5 0.0313-0.0625 12.8-6.4 Caution Neonicotinoid (4A) 12h 14 Stink Bugs Acephate 90 Prill acephate* 13.3 0.748 1.20 Caution Organophosphate (1B) 24h 21 Orthene 97 acephate* 12 0.731 1.33 Caution Organophosphate	Orthene 97	acephate	4–16	0.244-0.974	4–1	Caution	Organophosphate (1B)	24h	21
Carbine 50WG flonicamid 1.7-2.8 0.053-0.089 9.41-5.71 Warning Flonicamid (29) 12h 30 Dimethoate 4E dimethoate^A 8 0.25 16.0 Warning Organophosphate (1B) 48h 14 Bidrin 8 dicrotophos^A 4.0-8.0 0.25-0.5 32-16 Danger Organophosphate (1B) 6d 30 Alias 4F imidacloprid^A 1-2 0.0313-0.0625 128-64 Caution Neonicotinoid (4A) 12h 14 Centric 40 WG thiamethoxam 1.25-2.5 0.0313-0.0625 12.8-6.4 Caution Neonicotinoid (4A) 12h 14 Stink Bugs Acephate 90 Prill acephate 91 13.3 0.748 1.20 Caution Organophosphate (1B) 24h 21 Orthene 97 acephate 12 0.731 1.33 Caution Organophosphate (1B) 24h 21 Fanfare ES bifenthrin </td <td>Diamond 0.83 EC</td> <td>novaluron</td> <td>9–12</td> <td>0.0584-0.0778</td> <td>14.22-10.67</td> <td>Warning</td> <td>Benzoylureas (15)</td> <td>12h</td> <td>30</td>	Diamond 0.83 EC	novaluron	9–12	0.0584-0.0778	14.22-10.67	Warning	Benzoylureas (15)	12h	30
Dimethoate 4E dimethoate A 8 0.25 16.0 Warning Organophosphate (1B) 48h 14	Steward EC	indoxacarb	9.2-11.3	0.09-0.11	14-11.5	Caution	Oxadiazines (22A)	12h	14
Bidrin 8 dicrotophos^ 4.0–8.0 0.25–0.5 32–16 Danger Organophosphate (IB) 6d 30 Alias 4F imidacloprid^ 1–2 0.0313–0.0625 128–64 Caution Neonicotinoid (4A) 12h 14 Centric 40 WG thiamethoxam 1.25–2.5 0.0313–0.0625 12.8–6.4 Caution Neonicotinoid (4A) 12h 21 Stink Bugs Acephate 90 Prill acephate^^ 13.3 0.748 1.20 Caution Organophosphate (IB) 24h 21 Orthene 97 acephate 12 0.731 1.33 Caution Organophosphate (IB) 24h 21 Fanfare ES bifenthrin^* 2.6–6.4 0.04–0.10 49.23–20 Warning Pyrethroid (3A) 12h 14 Brigade 2EC bifenthrin 2.6–6.4 0.04–0.10 49.23–20 Warning Pyrethroid (3A) 12h 14 Bidrin 8 dicrotophos^ 4.0–8.0 0.25–0.5 32–16 Danger Organophosphate (IB)	Carbine 50WG	flonicamid	1.7-2.8	0.053-0.089	9.41-5.71	Warning	Flonicamid (29)	12h	30
Alias 4F imidacloprid^ 1-2 0.0313-0.0625 128-64 Caution Neonicotinoid (AA) 12h 14 Centric 40 WG thiamethoxam 1.25-2.5 0.0313-0.0625 12.8-6.4 Caution Neonicotinoid (4A) 12h 21 Stink Bugs Acephate 90 Prill acephate^ 13.3 0.748 1.20 Caution Organophosphate (1B) 24h 21 Orthene 97 acephate 12 0.731 1.33 Caution Organophosphate (1B) 24h 21 Fanfare ES bifenthrin^ 2.6-6.4 0.04-0.10 49.23-20 Warning Pyrethroid (3A) 12h 14 Discipline 2EC bifenthrin 2.6-6.4 0.04-0.10 49.23-20 Warning Pyrethroid (3A) 12h 14 Brigade 2EC bifenthrin 2.6-6.4 0.04-0.10 49.23-20 Warning Pyrethroid (3A) 12h 14 Bidrin 8 dicrotophos^ 4.0-8.0 0.25-0.5 32-16 Danger Organophosphate (1B) 6d 30 Baythroid XL beta-cyfluthrin 1.6-2.6 0.013-0.021 80-49.23 Warning Pyrethroid (3A) 12h 0 Mustang Maxx zeta-cypermethrin 2.6-3.8 0.033-0.045 45.71-33.68 Warning Pyrethroid (3A) 12h 14 Silencer lambda-cyhalothrin^ 3.2-5.12 0.025-0.04 40-25 Warning Pyrethroid (3A) 24h 21	Dimethoate 4E	dimethoate^	8	0.25	16.0	Warning	Organophosphate (1B)	48h	14
Centric 40 WG	Bidrin 8	dicrotophos^	4.0-8.0	0.25-0.5	32–16	Danger	Organophosphate (1B)	6d	30
Stink Bugs Acephate 90 Prill acephate^^ 13.3 0.748 1.20 Caution Organophosphate (1B) 24h 21 24h 21 Orthene 97 acephate 12 0.731 1.33 Caution Organophosphate (1B) 24h 21 24h 21 Fanfare ES bifenthrin^ 2.6-6.4 0.04-0.10 49.23-20 Warning Pyrethroid (3A) 12h 14 14 Brigade 2EC bifenthrin 2.6-6.4 0.04-0.10 49.23-20 Warning Pyrethroid (3A) 12h 14 14 Bidrin 8 dicrotophos^^ 4.0-8.0 0.25-0.5 32-16 Danger Organophosphate (1B) 6d 30 30 Baythroid XL beta-cyfluthrin 1.6-2.6 0.013-0.021 80-49.23 Warning Pyrethroid (3A) 12h 0 12h 0 Mustang Maxx zeta-cypermethrin 2.64-3.60 0.0165-0.0225 48.49-35.56 Warning Pyrethroid (3A) 12h 14 14 Silencer lambda-cyhalothrin^ 3.2-5.12 0.025-0.04 40-25 Warning Pyrethroid (3A) 24h 21 24h 21	Alias 4F	imidacloprid^	1–2	0.0313-0.0625	128-64	Caution	Neonicotinoid (4A)	12h	14
Acephate 90 Prill acephate ^ 13.3 0.748 1.20 Caution Organophosphate (1B) 24h 21 Orthene 97 acephate 12 0.731 1.33 Caution Organophosphate (1B) 24h 21 Fanfare ES bifenthrin^ 2.6–6.4 0.04–0.10 49.23–20 Warning Pyrethroid (3A) 12h 14 Brigade 2EC bifenthrin 2.6–6.4 0.04–0.10 49.23–20 Warning Pyrethroid (3A) 12h 14 Bidrin 8 dicrotophos^ 4.0–8.0 0.25–0.5 32–16 Danger Organophosphate (1B) 6d 30 Baythroid XL beta-cyfluthrin 1.6–2.6 0.013–0.021 80–49.23 Warning Pyrethroid (3A) 12h 0 Mustang Maxx zeta-cypermethrin 2.64–3.60 0.0165–0.0225 48.49–35.56 Warning Pyrethroid (3A) 12h 14 Mustang zeta-cypermethrin 2.8–3.8 0.033–0.045 45.71–33.68 Warning Pyrethroid (3A) 12h 14	Centric 40 WG	thiamethoxam	1.25-2.5	0.0313-0.0625	12.8-6.4	Caution	Neonicotinoid (4A)	12h	21
Orthene 97 acephate 12 0.731 1.33 Caution Organophosphate (IB) 24h 21 Fanfare ES bifenthrin^ 2.6–6.4 0.04–0.10 49.23–20 Warning Pyrethroid (3A) 12h 14 Discipline 2EC bifenthrin 2.6–6.4 0.04–0.10 49.23–20 Warning Pyrethroid (3A) 12h 14 Brigade 2EC bifenthrin 2.6–6.4 0.04–0.10 49.23–20 Warning Pyrethroid (3A) 12h 14 Bidrin 8 dicrotophos^ 4.0–8.0 0.25–0.5 32–16 Danger Organophosphate (IB) 6d 30 Baythroid XL beta-cyfluthrin 1.6–2.6 0.013–0.021 80–49.23 Warning Pyrethroid (3A) 12h 0 Mustang Maxx zeta-cypermethrin 2.64–3.60 0.0165–0.0225 48.49–35.56 Warning Pyrethroid (3A) 12h 14 Mustang zeta-cypermethrin 2.8–3.8 0.033–0.045 45.71–33.68 Warning Pyrethroid (3A) 12h 14 Silencer lambda-cyhalothrin^ 3.2–5.12 0.025–0.04	Stink Bugs								
Fanfare ES bifenthrin^ 2.6–6.4 0.04–0.10 49.23–20 Warning Pyrethroid (3A) 12h 14 Discipline 2EC bifenthrin 2.6–6.4 0.04–0.10 49.23–20 Warning Pyrethroid (3A) 12h 14 Brigade 2EC bifenthrin 2.6–6.4 0.04–0.10 49.23–20 Warning Pyrethroid (3A) 12h 14 Bidrin 8 dicrotophos^ 4.0–8.0 0.25–0.5 32–16 Danger Organophosphate (1B) 6d 30 Baythroid XL beta-cyfluthrin 1.6–2.6 0.013–0.021 80–49.23 Warning Pyrethroid (3A) 12h 0 Mustang Maxx zeta-cypermethrin 2.64–3.60 0.0165–0.0225 48.49–35.56 Warning Pyrethroid (3A) 12h 14 Mustang zeta-cypermethrin 2.8–3.8 0.033–0.045 45.71–33.68 Warning Pyrethroid (3A) 12h 14 Silencer lambda-cyhalothrin^ 3.2–5.12 0.025–0.04 40–25 Warning Pyrethroid (3A) 24h	Acephate 90 Prill	acephate^	13.3	0.748	1.20	Caution	Organophosphate (1B)	24h	21
Discipline 2EC bifenthrin 2.6-6.4 0.04-0.10 49.23-20 Warning Pyrethroid (3A) 12h 14 Brigade 2EC bifenthrin 2.6-6.4 0.04-0.10 49.23-20 Warning Pyrethroid (3A) 12h 14 Bidrin 8 dicrotophos^ 4.0-8.0 0.25-0.5 32-16 Danger Organophosphate (1B) 6d 30 Baythroid XL beta-cyfluthrin 1.6-2.6 0.013-0.021 80-49.23 Warning Pyrethroid (3A) 12h 0 Mustang Maxx zeta-cypermethrin 2.64-3.60 0.0165-0.0225 48.49-35.56 Warning Pyrethroid (3A) 12h 14 Mustang zeta-cypermethrin 2.8-3.8 0.033-0.045 45.71-33.68 Warning Pyrethroid (3A) 12h 14 Silencer lambda-cyhalothrin^ 3.2-5.12 0.025-0.04 40-25 Warning Pyrethroid (3A) 24h 21	Orthene 97	acephate	12	0.731	1.33	Caution	Organophosphate (1B)	24h	21
Brigade 2EC bifenthrin 2.6–6.4 0.04–0.10 49.23–20 Warning Pyrethroid (3A) 12h 14 Bidrin 8 dicrotophos^ 4.0–8.0 0.25–0.5 32–16 Danger Organophosphate (1B) 6d 30 Baythroid XL beta-cyfluthrin 1.6–2.6 0.013–0.021 80–49.23 Warning Pyrethroid (3A) 12h 0 Mustang Maxx zeta-cypermethrin 2.64–3.60 0.0165–0.0225 48.49–35.56 Warning Pyrethroid (3A) 12h 14 Mustang zeta-cypermethrin 2.8–3.8 0.033–0.045 45.71–33.68 Warning Pyrethroid (3A) 12h 14 Silencer lambda-cyhalothrin^ 3.2–5.12 0.025–0.04 40–25 Warning Pyrethroid (3A) 24h 21	Fanfare ES	bifenthrin^	2.6-6.4	0.04-0.10	49.23-20	Warning	Pyrethroid (3A)	12h	14
Bidrin 8 dicrotophos^ 4.0-8.0 0.25-0.5 32-16 Danger Organophosphate (1B) 6d 30 Baythroid XL beta-cyfluthrin 1.6-2.6 0.013-0.021 80-49.23 Warning Pyrethroid (3A) 12h 0 Mustang Maxx zeta-cypermethrin 2.64-3.60 0.0165-0.0225 48.49-35.56 Warning Pyrethroid (3A) 12h 14 Mustang zeta-cypermethrin 2.8-3.8 0.033-0.045 45.71-33.68 Warning Pyrethroid (3A) 12h 14 Silencer lambda-cyhalothrin^ 3.2-5.12 0.025-0.04 40-25 Warning Pyrethroid (3A) 24h 21	Discipline 2EC	bifenthrin	2.6-6.4	0.04-0.10	49.23-20	Warning	Pyrethroid (3A)	12h	14
Baythroid XL beta-cyfluthrin 1.6-2.6 0.013-0.021 80-49.23 Warning Pyrethroid (3A) 12h 0 Mustang Maxx zeta-cypermethrin 2.64-3.60 0.0165-0.0225 48.49-35.56 Warning Pyrethroid (3A) 12h 14 Mustang zeta-cypermethrin 2.8-3.8 0.033-0.045 45.71-33.68 Warning Pyrethroid (3A) 12h 14 Silencer lambda-cyhalothrin^ 3.2-5.12 0.025-0.04 40-25 Warning Pyrethroid (3A) 24h 21	Brigade 2EC	bifenthrin	2.6-6.4	0.04-0.10	49.23-20	Warning	Pyrethroid (3A)	12h	14
Mustang Maxx zeta-cypermethrin 2.64-3.60 0.0165-0.0225 48.49-35.56 Warning Pyrethroid (3A) 12h 14 Mustang zeta-cypermethrin 2.8-3.8 0.033-0.045 45.71-33.68 Warning Pyrethroid (3A) 12h 14 Silencer lambda-cyhalothrin^ 3.2-5.12 0.025-0.04 40-25 Warning Pyrethroid (3A) 24h 21	Bidrin 8	dicrotophos^	4.0-8.0	0.25-0.5	32-16	Danger	Organophosphate (1B)	6d	30
Mustang zeta-cypermethrin 2.8-3.8 0.033-0.045 45.71-33.68 Warning Pyrethroid (3A) 12h 14 Silencer lambda-cyhalothrin^ 3.2-5.12 0.025-0.04 40-25 Warning Pyrethroid (3A) 24h 21	Baythroid XL	beta-cyfluthrin	1.6-2.6	0.013-0.021	80-49.23	Warning	Pyrethroid (3A)	12h	0
Silencer lambda-cyhalothrin^ 3.2-5.12 0.025-0.04 40-25 Warning Pyrethroid (3A) 24h 21	Mustang Maxx	zeta-cypermethrin	2.64-3.60	0.0165-0.0225	48.49-35.56	Warning	Pyrethroid (3A)	12h	14
	Mustang	zeta-cypermethrin	2.8-3.8	0.033-0.045	45.71-33.68	Warning	Pyrethroid (3A)	12h	14
Silencer VXN lambda-cyhalothrin 3.2–5.12 0.025–0.04 40–25 Caution Pyrethroid (3A) 24h 21	Silencer	lambda-cyhalothrin^	3.2-5.12	0.025-0.04	40-25	Warning	Pyrethroid (3A)	24h	21
	Silencer VXN	lambda-cyhalothrin	3.2-5.12	0.025-0.04	40-25	Caution	Pyrethroid (3A)	24h	21
Declare gamma-cyhalothrin 1.28–2.05 0.0125–0.02 100–62.44 Caution Pyrethroid (3A) 24h 21	Declare	gamma-cyhalothrin	1.28-2.05	0.0125-0.02	100-62.44	Caution	Pyrethroid (3A)	24h	21
Karate lambda-cyhalothrin 1.60-2.56 0.025-0.04 80-50 Warning Pyrethroid (3A) 24h 21	Karate	lambda-cyhalothrin	1.60-2.56	0.025-0.04	80-50	Warning	Pyrethroid (3A)	24h	21
Warrior II lambda-cyhalothrin 1.60-2.56 0.025-0.04 80-50 Warning Pyrethroid (3A) 24h 21	Warrior II	lambda-cyhalothrin	1.60-2.56	0.025-0.04	80-50	Warning	Pyrethroid (3A)	24h	21

Corn

This week our program corn acres ranged in stage from V2 to green silk. Pests remain light again this week. For fields going into these stages this is a critical time. Irrigation needs increase rapidly and pest relationships change for fields. Even a few hours of access heat or moisture stress can seriously damage grain yield potential, particularly on shorter season varieties. Likewise, pests such as bollworms (corn earworms, CEW) fall armyworms (FAW) and western bean cutworms (WBCW) begin targeting the high energy grain at the ear



View from inside a southern Swisher corn field this week.

and pests such as corn borers should be settling for a larger second generation that can decimate unprotected fields. During whorl stages, most Bt types are very effective against FAW, CEW, SW corn borer, and even WBCW. This cannot always be stated as so for eared corn and the pests that only attack the ear. In fact, we now expect to see many of these worms come through most Bt ears with varying degrees of success (we rarely are concerned about CEW in corn due to their cannibalistic nature, but they will come through many Bts to target cotton later). While we can still expect good control from most Bt types for borers, our scouting and mindset for FAW and WBCW should change. Spider mites are also much more likely to flare during the grain fill stages as plants shift energy production to fill those ears. For whatever reason, this shift fits the mite's dietary needs much better allowing nominal populations to boom and get out of hand quickly. I find that the older corn scouting techniques are still the best for getting across

fields with good data quickly. Here is a link to a video we shot a few years ago showing how I need my crew scouting for all of these pests during these important stages: https://www.youtube.com/watch?v=jMVTcQv-ehM

This week we found no live FAW, WBCW, corn borers, or CEW for that matter, in our program corn but we know they are on the way. Spider mites remain spread across most older fields on choice plants' lower leaves and ready to flare if possible. We will be watching our fields closely for all of these pests over the next few weeks.



Weeds flushing with emerging replant corn in central Hale this week.



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http:// hale.agrilife.org

For rapid pest alerts and updates-

Plains Pest Bugoshere:

http://
halecountyipm.blogspot.com/

Pest Patrol Hotline, registration at: www.syngentapestpatrol.

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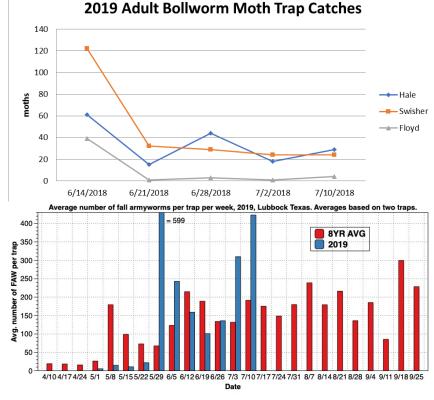
Sorghum



One of the PPM seed milo fields this week.

Our sorghum ranges from emerging to flag leaf stage with just a few fields spread across a wide planting range. We found no pests of note in our sorghum again this week, some very light CEW feeding on whorls aside. The big news in sorghum this week

was that Greg Cronholm found some small colonies in NW Hale county followed closely by Dr. Pat Porter who found them in northern Lubbock county. This is a touch early for the aphid to arrive but is not outside any expected window. The areas involved with the finds are those we usually expect migratory pests to arrive in first. All area sorghum should be on alert for the pest. Our neighbors to the south did deal with the aphid successfully again this year, usually with just one application if needed, because they caught the aphid early, they did not let the population linger above ET, and the treatments were effective with ample coverage. For any blooming sorghum, we should also be checking daily for sorghum midge.



Blayne Reed