



Pest Cast

The Row Crops IPM Newsletter for the LRGV, a cooperative project of Texas AgriLife Extension Service and the Cotton & Grain Producers of the lower Rio Grande Valley

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General Situation

Very hot and very dry and it seems it's only going to get hotter. Saw many fields being irrigated again this week. As we head towards harvest for sorghum and corn and eventually cotton you can really see the effect the drought has made that will correlate with significantly reduced yields and already loss in acres.

Cotton

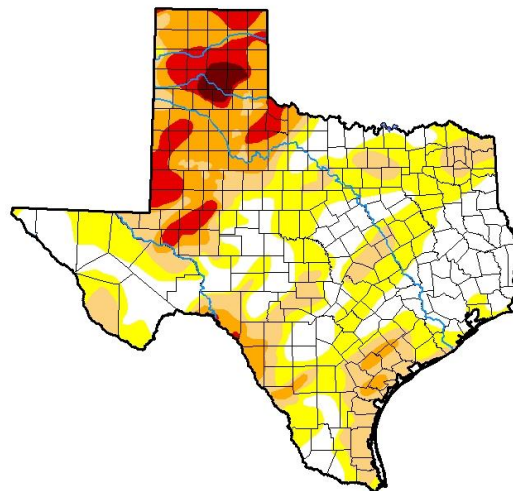
Many cotton growers were either irrigating this week or spraying their cotton with PGR or insecticide. Majority of cotton in the lower canopy has already developed

medium to full sized bolls, while

the later planted cotton is just barely putting on small bolls. We still have a lot of very late planted cotton that is in full squaring mode. Pests of concern this week were cotton aphids acting up in some areas and also seeing whiteflies starting to build up in the Edinburg, Alamo, Donna, Monte Alto areas. This week I was seeing adult whiteflies but also was picking up on some whitefly nymphs/immatures. We are going to want to monitor for whitefly populations diligently and treat accordingly because growers have seen in years past (2006 with former IPM agent Manda Cattaneo) when there is a drought whitefly populations can thrive in arid conditions and reach damaging numbers. Whiteflies feed on the undersides of the

U.S. Drought Monitor Texas

May 29, 2018
(Released Thursday, May. 31, 2018)
Valid 8 a.m. EDT



Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

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NOAA/NWS/NCEP/CPC



<http://droughtmonitor.unl.edu/>

Figure 1: Texas Drought Map by Anthony Artusa with NOAA



Figure 2: Cotton bolls



Figure 3: Close up of Whitefly nymph/immature, taken from Cotton insect mgmt. guide 2018

leaves so when in your cotton fields you will want to check in various locations in the field on the undersides of leaves taken from the middle of the canopy. I am seeing more than 5 whiteflies per leaf in some areas and also some nymphs so we will need to use an insecticide effective for both adults and immatures or a mixture that will control both. Whiteflies when they feed excrete sticky honeydew like that of aphids and this is prone to attract sooty mold causing all types of growth problems for the cotton plant. Also we do not want to get closer to harvest with widespread whitefly populations so that way we can avoid a sticky cotton situation staining open bolls. We can keep whitefly populations down throughout the Valley as long as everyone works together to control growing populations when found. *Please see chart at the end of Pest Cast for Insecticide rates for control of spidermites, fleahoppers, and whiteflies in cotton*



Figure 4: Adult whiteflies on underside of leaf

Grain Sorghum

Majority of grain sorghum is in the hard dough stage past worries from injury from rice stinkbugs or headworms. However I noticed this week in some sorghum that sugarcane aphids were building. We will continue to monitor to see if sugarcane aphids will become a problem prior to harvest and need treatment but for right now it looks good.

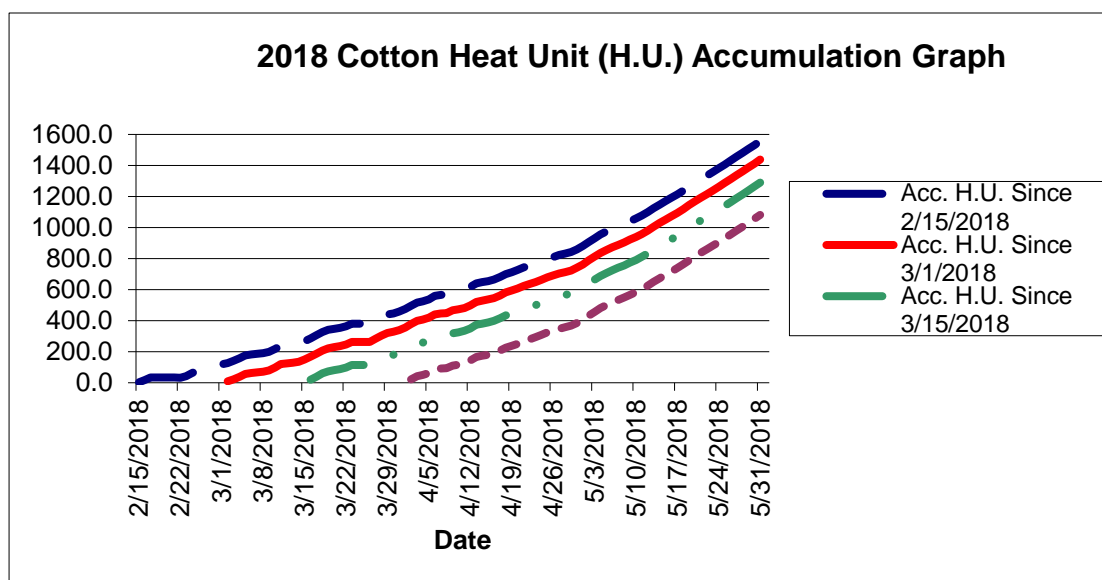
Comparison of the Effects of Drought Summed up in pictures



Table 11. Insecticides Labeled for Control of Insect Pests of Cotton (continued)

Pest	Product Name/ Common Name	Active Ingredient/s	Formulated Rate (fl oz or oz/A)	lb A/A	Acres Treated per gallon/lb	Signal Word	Insecticide Class (*IRAC Groups)	Re-entry Interval	Pre-harvest Interval
Stink Bugs continued									
	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
	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
	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
Spider Mites									
	ABBA Ultra	abamectin [^]	2–8	0.00469–0.01875	64–16	Warning	Avermectin (6)	12h	20
	Agri-Mek SC	abamectin	1.0–1.25	0.00547–0.00684	128–102.4	Warning	Avermectin (6)	12h	20
	Oberon 4SC	spiromesifen	3–8	0.09–0.25	42.7–16	Caution	Tetronic and Tetramic acid derivatives (23)	12h	30
	Zeal 72WSP	etoxazole	0.67–1	0.03–0.045	23.88–16	Caution	Ettoxazole (10B)	12h	28
	Portal	fenpyroximate	16–32	0.05–0.10	8–4	Warning	METI Acaricides (21A)	12	14
Fall Armyworm									
	Prevathon	chlorantraniliprole	14–27	0.047–0.09	9.14–4.74	Caution	Diamide (28)	4h	21
	Steward EC	indoxacarb	9.2–11.3	0.09–0.11	14–11.5	Caution	Oxadiazines (22A)	12h	14
	Lannate LV	methomyl	24–36	0.45–0.68	5.5–3.5	Danger	Carbamate (1A)	72h	15
	Orthene 97	acephate [^]	16	0.974	8	Caution	Organophosphate (1B)	24h	21
	Blackhawk	spinosad	2.4–3.2	0.054–0.072	6.67–5	Caution	Spinosyn (5)	4h	28
Whiteflies									
	Intruder Max 70WP/Strafer Max	acetamiprid [^]	1.7–2.3	0.075–0.1	9.41–6.96	Caution	Neonicotinoid (4A)	12h	28
	Acephate 90 Prill	acephate [^]	8.9–17.6	0.5–0.99	1.8–0.9	Caution	Organophosphate (1B)	24h	21
	Orthene 97	acephate	8–16	0.487–0.974	2–1	Caution	Organophosphate (1B)	24h	21
	Oberon 4SC	spiromesifen	3–8	0.09–0.25	42.7–16	Caution	Tetronic and Tetramic acid derivatives (23)	12h	30
	Knack	pyriproxyfen	8–10	0.054–0.067	16–13	Caution	Pyriproxyfen (7C)	12h	28
	Centric 40 WG	thiamethoxam	2.0–2.5	0.05–0.0625	8–6.4	Caution	Neonicotinoid (4A)	12h	21
	Sivanto 200 SL	flupyradifurone	10.5–14.0	0.137–0.183	12.19–9.14	Caution	Butenolide (4D)	4h	14
	Admire Pro	imidacloprid [^]	1.3–1.7	0.0467–0.0611	98.46–75.29	Caution	Neonicotinoid (4A)	12h	14

Figure 8: Insecticides used on cotton pests, table taken from the Managing Cotton Insects Guide 2018, Texas A&M AgriLife



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