



Current Crop and Insect Situation:

Hot and dry weather has caused tremendous fruit shed this week. Limited water has caused the majority of fields to prematurely cut out. Once again I cannot stress the fact enough that all spray decisions should be well thought out.

Late season pest

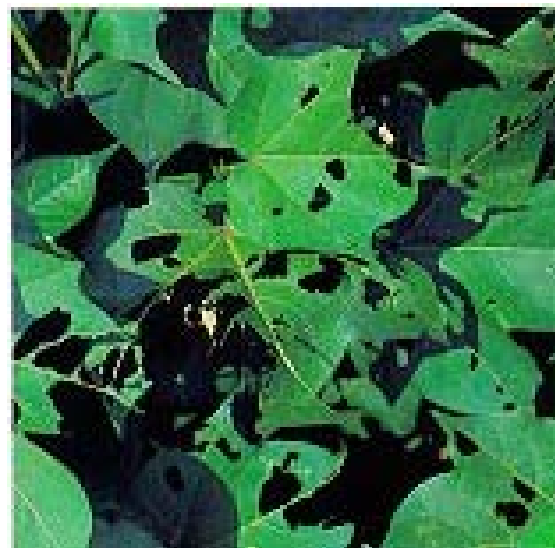
Cabbage loopers will be the last pest highlighted for the year. Next week's Outlook will only contain field surveys, moth catches and heat units.



Cabbage loopers are larvae that are easy to distinguish by their habit of arching into a loop as they crawl. They have only two pairs of prolegs in the middle of their body instead of the four pairs found on most other caterpillars.

The cabbage looper is normally found in cotton in light populations throughout the growing season. Generally, control is unnecessary. In many instances, larvae are destroyed in mid-and late-season environments by a polyhedral virus. Young larvae initially are dusky white, but become pale green as they commence feeding on foliage. They are somewhat hairy

initially, but the number of hairs decreases rapidly as larvae mature. The mature larva is predominantly green, but is usually marked with a distinct white stripe on each side. The thoracic legs and head capsule are usually pale green or brown. Dorsally, the larva bears several narrow, faint white stripes clustered into two broad white bands. In some cases the mature larva is entirely green. The body is narrower at the anterior end, and broadens toward the posterior. It measures 3 to 4 cm in length at maturity. Cabbage loopers are leaf feeders, and in the first three instars they confine their feeding to the lower leaf surface, leaving the upper surface intact. The fourth and fifth instars chew large holes, and usually do not feed at the leaf margin. Larvae consume three times their weight in plant material daily. Feeding sites are marked by large accumulations of sticky, wet fecal material. Despite their voracious appetite, larvae are not always as destructive as presumed.



**FIELD SURVEY
JULY 17, 2006**

Irrigated		
Jackson County		
	Plant Stage	Pest
1	6 NAWF	2% Bollworm larvae 3 % damaged squares 1 Beet armyworm hits
2	3 NAWF	1% Bollworm larvae 1 % damaged squares Few Aphids
3	5 NAWF	3% Bollworm larvae 7 % damaged squares Few Aphids
Harmon County		
1	6 NAWF	2% Bollworm larvae 4 % damaged squares
2	6 NAWF	1% Bollworm larvae 2 % damaged squares
3	6 NAWF	1% Bollworm larvae 2 % damaged squares
Dryland		
Greer County		
1	5 NAWF	2% Bollworm larvae 3% damaged squares
2	3 NAWF	1% Bollworm larvae 2 % damaged squares
3	4 NAWF	1% Bollworm larvae 5% damaged squares
Kiowa County		
1	4 NAWF	1% Bollworm larvae 2 % damaged squares
2	5 NAWF	2% Bollworm larvae 8% damaged squares
3	5 NAWF	1% Bollworm larvae 2% damaged squares
Washita County		
1	5 NAWF	1% Bollworm larvae 3% damaged squares
2	6 NAWF	1% Bollworm larvae 3% damaged squares
3	5 NAWF	2% Bollworm larvae 4% damaged squares

MOTH TRAPS:

Week of	Bollworm			
	Altus	Hollis	Manchester	Tipton
June 10	4	3	NA	3
June 17	9	6	NA	11
June 24	16	21	5	24
July 1	24	31	37	32
July 8	75	89	10	56
July 15	31	54	2	41
July 22	34	26	0	22
July 29	19	17	11	20
Budworm				
	Altus	Hollis	Manchester	Tipton
June 10	0	0	NA	0
June 17	0	2	NA	1
June 24	2	1	0	10
July 1	6	4	0	9
July 8	9	16	0	25
July 15	15	11	0	19
July 22	7	1	0	21
July 29	4	0	0	10
Beet Armyworm				
	Altus	Hollis	Manchester	Tipton
June 10	1	0	NA	0
June 17	0	0	NA	3
June 24	1	2	11	3
July 1	6	4	0	15
July 8	12	6	0	21
July 15	16	15	4	19
July 22	4	0	0	16
July 29	3	0	0	14

GROWING DEGREE DAY:

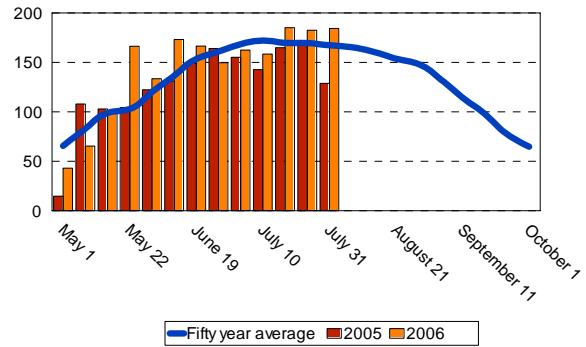
Cotton Growth Timetable

<u>Stage of Growth</u>	<u>GDD</u>	<u>Days</u>
Emergence	50 - 60	3 - 4
Pinhead Square	425 - 500	25 - 45
First Bloom	725 - 825	41 - 67
Open Boll	1575 - 1925	102 -127
Defoliation	2150 - 2300	120 -140

Altus

Growing Degree Days (GDD)

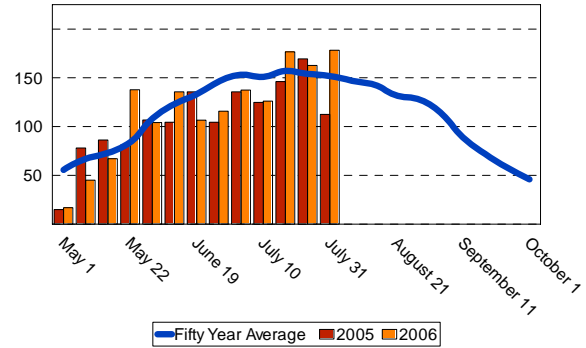
Week of	50 year	2005	2006
May 1	65.5	14.7	43.1
May 8	82.9	107.9	65.3
May 15	98.6	102.9	99.7
May 22	102.9	104.4	166.3
May 29	120.2	122.3	133.4
June 5	136.4	131.2	173.1
June 12	153.4	149.3	166.4
June 19	160.7	164.1	149.7
June 26	168.4	155.4	145.6
July 3	171.9	142.7	158.4
July 10	169.7	164.9	185.1
July 17	169.5	169.7	182.5
July 24	167.2	128.7	184.2
Total	1,767.3	1,658.2	1,852.8



Blackwell

Growing Degree Days (GDD)

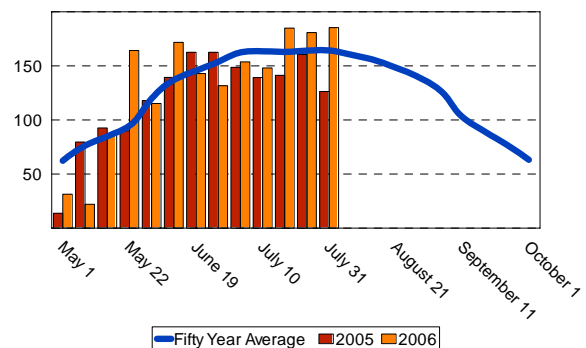
Week of	50 year	2005	2006
May 1	55.6	14.9	16.8
May 8	67.5	78.0	45.2
May 15	73.2	86.2	67.1
May 22	84.3	81.2	137.8
May 29	108.4	106.8	104.1
June 5	123.7	104.5	135.6
June 12	133.4	135.7	106.7
June 19	146.4	104.5	115.9
June 26	153.7	135.7	137.4
July 3	151.3	124.9	126.1
July 10	157.3	146.2	176.7
July 17	154.7	169.4	162.7
July 24	152.7	112.5	178.3
Total	1,562.2	1,400.5	1,510.4



Hobart

Growing Degree Days (GDD)

Week of	50 year	2005	2006
May 1	62.3	13.8	31.4
May 8	76.2	79.6	22.4
May 15	84.9	92.6	86.2
May 22	94.7	89.9	164.2
May 29	119.8	117.9	115.3
June 5	136.9	139.4	171.7
June 12	145.6	162.5	142.9
June 19	153.6	162.5	131.6
June 26	162.3	148.6	153.7
June 26	162.3	148.6	153.7
July 3	163.5	139.2	148.6
July 10	162.9	141.3	184.9
July 17	164.0	160.5	180.8
July 24	164.2	160.5	180.8
Total	1,853.2	1,756.9	1,868.2



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