



Cotton Comments

OSU Southwest Oklahoma Research and Extension Center
Altus, OK

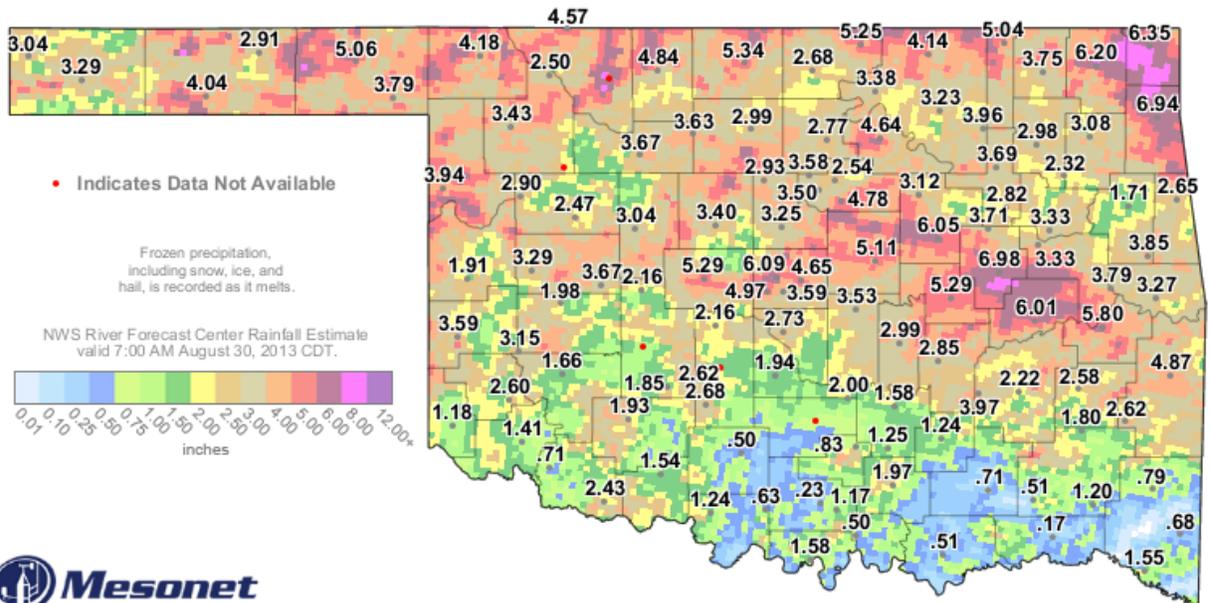


August 30, 2013

Volume 3 Edition 9

Crop Update

The month of August is ending with a less than adequate amount of rainfall for the far southwestern corner of the state (see Mesonet 30-Day Rainfall graphic below). It has been quite some time now since substantial rainfall has occurred in much of the cotton area. Thus far in August, temperatures at Altus have been somewhat above 30-year normals. The resulting DD60 heat unit accumulation for August at Altus has been about 3 percent above the 30-year normal. Higher temperatures have been a mixed blessing – feeding the meltdown of dryland fields, but improving yield prospects for somewhat late planted but well irrigated fields. Nodes above white flower (NAWF) counts are indicating that some well irrigated areas – which also received higher rainfall are still not yet “bloomed out the top” of the plants, while other areas with less irrigation capacity and rainfall have neared that point. The moisture stress in the dryland crop can be noted in this week’s IPM Field Survey results reported by Jerry Goodson below. We knew going into the summer that we had little profile moisture in most dryland fields, but late May and June rainfall totals in some areas were adequate to get the crop established and headed in the right direction. Earlier optimism for a good dryland crop coming out of the southwestern counties has been dashed by lack of rainfall in many places. This can be noted in the August 27th Drought Monitor graphic below. A large portion of western Tillman County is still in the grips of D4 Exceptional Drought. The good news is that the dryland crop just south of I-40 has experienced higher rainfall amounts, but with the recent run of high temperatures, the crop needs additional rainfall to finish. Well irrigated fields are progressing nicely, and at this time minimal insect pressure has been observed in the IPM Survey fields. There is no doubt that for many later planted irrigated fields where excellent rainfall has been encountered, exceptional fall temperatures and open skies are needed to fully mature the boll load.



30-Day Rainfall (inches)

7:55 AM August 30, 2013 CDT

Created 7:59:10 AM August 30, 2013 CDT. © Copyright 2013

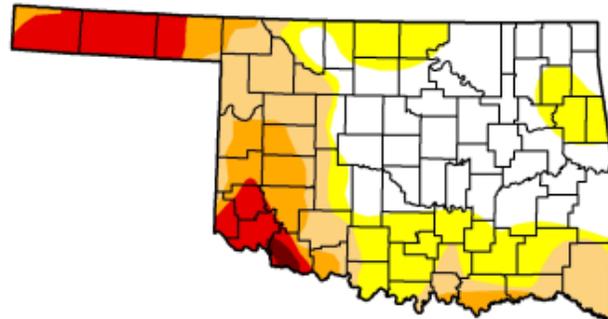
U.S. Drought Monitor

Oklahoma

August 27, 2013
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	39.80	60.20	38.01	19.44	9.89	0.54
Last Week (08/20/2013 map)	53.91	46.09	32.82	22.26	9.89	0.54
3 Months Ago (05/28/2013 map)	31.88	68.12	58.80	48.33	26.51	11.34
Start of Calendar Year (01/01/2013 map)	0.00	100.00	100.00	100.00	94.89	37.06
Start of Water Year (09/25/2012 map)	0.00	100.00	100.00	99.98	95.33	42.09
One Year Ago (08/21/2012 map)	0.00	100.00	100.00	99.62	90.11	48.10



Intensity:

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

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

<http://droughtmonitor.unl.edu>



Released Thursday, August 29, 2013
Anthony Artusa, NOAA/NWS/NCEP/CPC

Field Surveys in Oklahoma - Week Ending August 30, 2013

Location	Date of planting	Plant Stage	Insects	Comments
Beckham Irrigated RACE - Damron	May 21	3.00 NAWF	None	Growth Progress Good
Blaine Irrigated Bayer CAP - Schantz	June 11	4.50 NAWF	4 Bollworm Damage Squares	Growth Progress Good
Caddo Irrigated OVT – OSU Station	May 23	2.50 NAWF	None	Growth Progress Good
Caddo Irrigated Dow Innovation 1st planting - Schantz	May 29	3.75 NAWF	None	Growth Progress Good
Caddo Irrigated Dow Innovation 2nd planting - Schantz	June 6	5.25 NAWF	None	Growth Progress Good
Custer Irrigated Cotton Inc Enhanced Variety - Schantz	May 21	4.75 NAWF	None	Growth Progress Good
Harmon Irrigated Cotton Inc Enhanced Variety - Cox	May 17	4.50 NAWF	None	Hail Damage From August 16
Harmon Irrigated Bayer CAP - Strawn	June 4	3.25 NAWF	None	Growth Progress Fair
Harmon Irrigated Bayer CAP - Horton	May 16	3.25 NAWF	None	Growth Progress
Kiowa Irrigated Topguard - Anderson	May 24	1.75 NAWF	None	Growth Progress Good
Jackson Irrigated RACE - Darby	May 16	2.75 NAWF	None	Growth Progress Fair
Jackson Irrigated OVT - Altus Station (no water)	June 4	0.00 NAWF	Terminated	
Jackson Irrigated Monsanto FACT - Altus Station (no water)	June 5	2.00 NAWF	None	Growth Progress Poor
Jackson Irrigated Weed Control Trials - Altus Station (no water)	June 6	2.50 NAWF	None	Growth Progress Poor
Tillman Irrigated RACE - McCullough	May 23	4.25 NAWF	None	Growth Progress Good
Tillman Dryland RACE - Fischer	June 14	0.50 NAWF	None	Growth Progress Poor
Tillman Dryland Topguard - Fischer	June 13	0.75 NAWF	None	Growth Progress Poor
Tillman Dryland Monsanto FACT - (Tipton Station)	June 11	0.25 NAWF	None	Growth Progress Poor
Tillman Dryland OVT - (Tipton Station)	June 11	0.00 NAWF	Terminated	
Washita Dryland RACE - Davis	June 4	4.75 NAWF	None	Growth Progress Good

RACE – Replicated Agronomic Cotton Evaluation Trial (Oklahoma Cooperative Extension)

CAP – Cotton Agronomic Plot (Bayer CropScience)

OVT – Official Variety Trial (Oklahoma Agricultural Experiment Station, Altus, Tipton, Fort Cobb)

Heat Unit and ET Update

The table below summarizes accumulated heat units and cotton crop evapotranspiration (ET) for the Mesonet sites listed. These data are based on a May 20th planting date. The 3-day ET accumulations indicate that crop demand has been moderate, but will likely increase over the next few days based on the current forecast of high temperatures. Producers with irrigation should note that for a May 20th planting date, over the past week crop water use has ranged from about 1.8 inches near Fort Cobb to up to 2.5 inches near Altus.

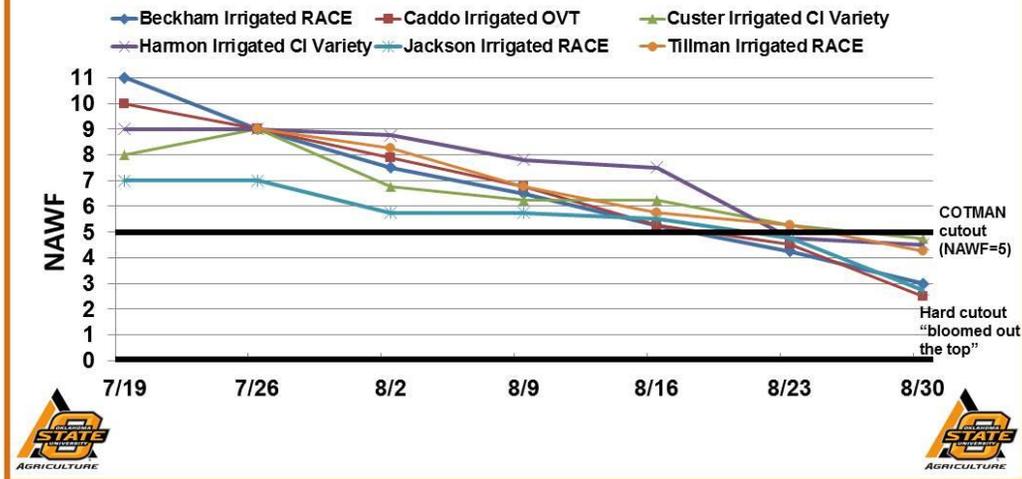
Location	For May 20 planting date			
	DD60 heat unit accumulation	3-day accumulated ET	7-day accumulated ET	14-day accumulated ET
	heat units	----- inches -----		
Altus	2248	1.05	2.49	4.86
Tipton	2269	1.07	2.50	4.90
Hollis	2187	1.01	2.44	4.76
Erick	1950	0.89	2.14	4.06
Ft. Cobb	1908	0.75	1.84	3.55

NAWF Tracking

The irrigated fields noted below all encountered first bloom during the week of July 19th. Fields with lower irrigation capacity and less rainfall are nearing hard cutout “or blooming out the top.” Irrigation termination considerations were noted in the last newsletter (see the August 22nd issue).

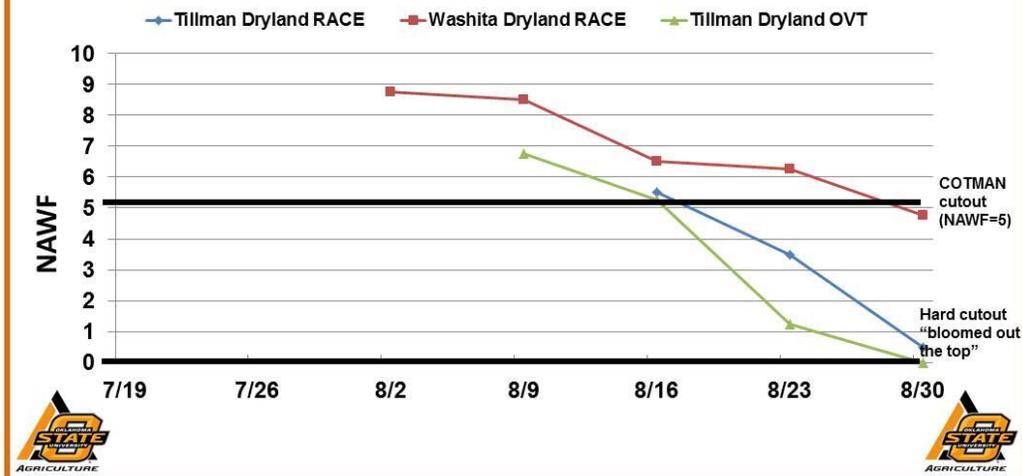
[Click here for Cotton Comments Volume 3 edition 8 August 22, 2013](#)

2013 NAWF - Irrigated Field Surveys



NAWF data for dryland fields are reported below. The Washita County RACE trial, although blooming late, has significant yield potential due to recent rainfall events, but badly needs additional precipitation to finish. The Tillman County dryland fields both entered first bloom later, and due to moisture stress had fewer NAWF at first bloom and have “crashed and bloomed out the top” These fields missed badly needed rainfall events and the yield potential will be low. Some photos are below to indicate the condition of these fields.

2012 NAWF - Dryland Field Surveys



Tillman Dryland OVT – Bloomed at 7 NAWF the week ending August 9th, and missed badly needed rainfall and rapidly “crashed.”



Washita Dryland No-Till RACE Trial – Bloomed the week ending August 2nd at 9 NAWF, and had earlier received timely rainfall. This field needs additional moisture to properly finish.



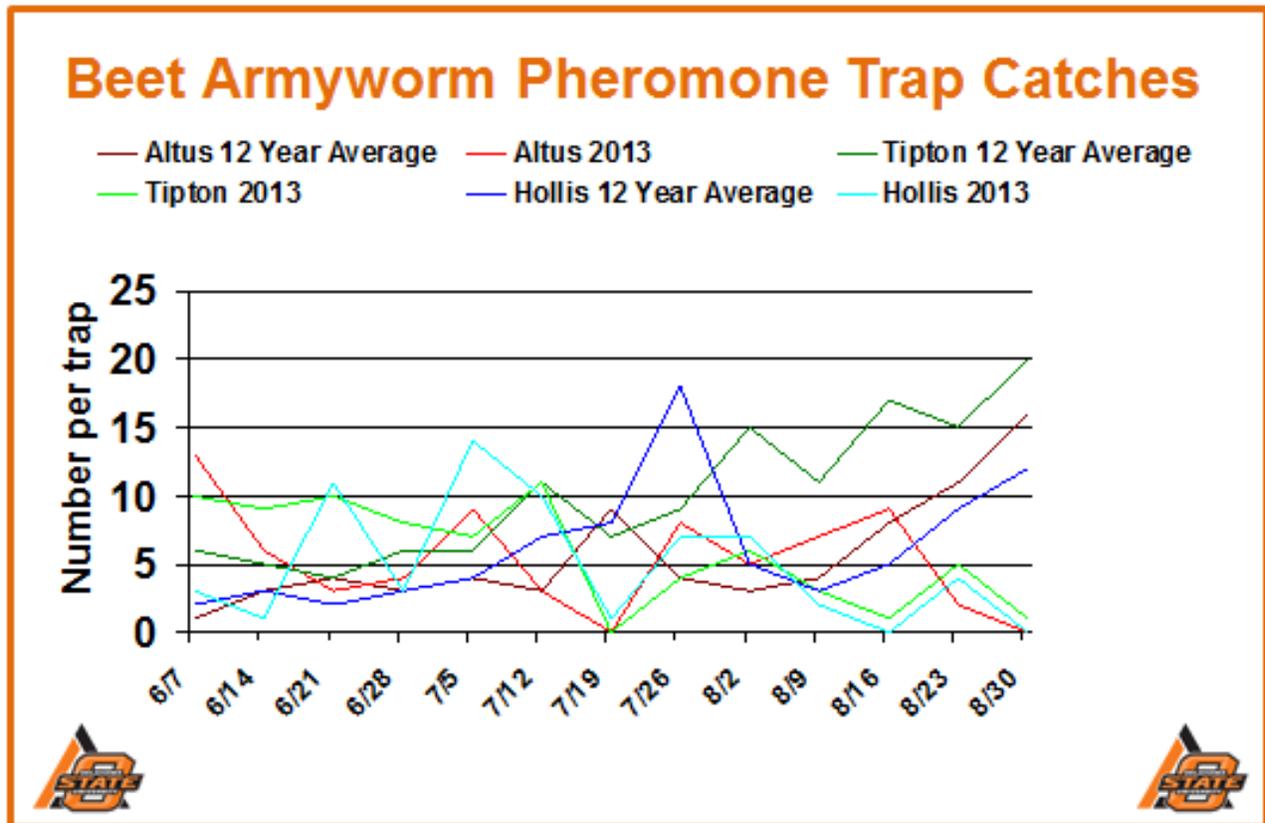
RB

Insect Update

After conversations with various consultants and conducting field surveys in nine counties this week, the insect outlook is as follows: Light infestations of pests continue with some fields receiving their last insect scouting for the year. Most fields are nearing cutout especially dryland areas in Jackson, Harmon and Tillman counties which are nearing hard cutout.

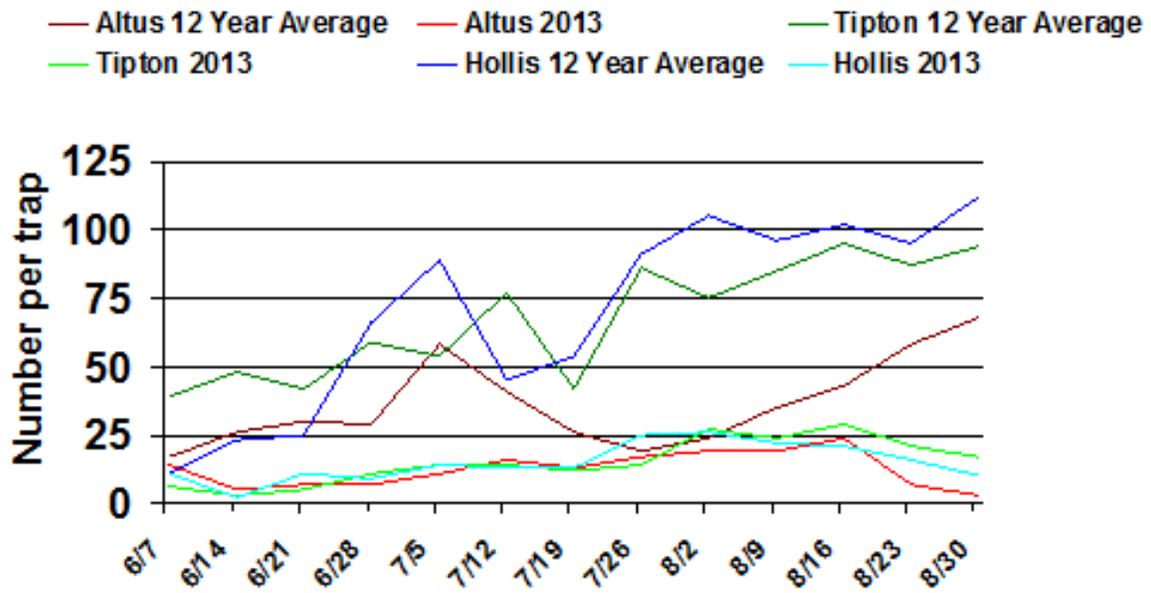
Moth Activity

Moth activity still remains well below the long term average.



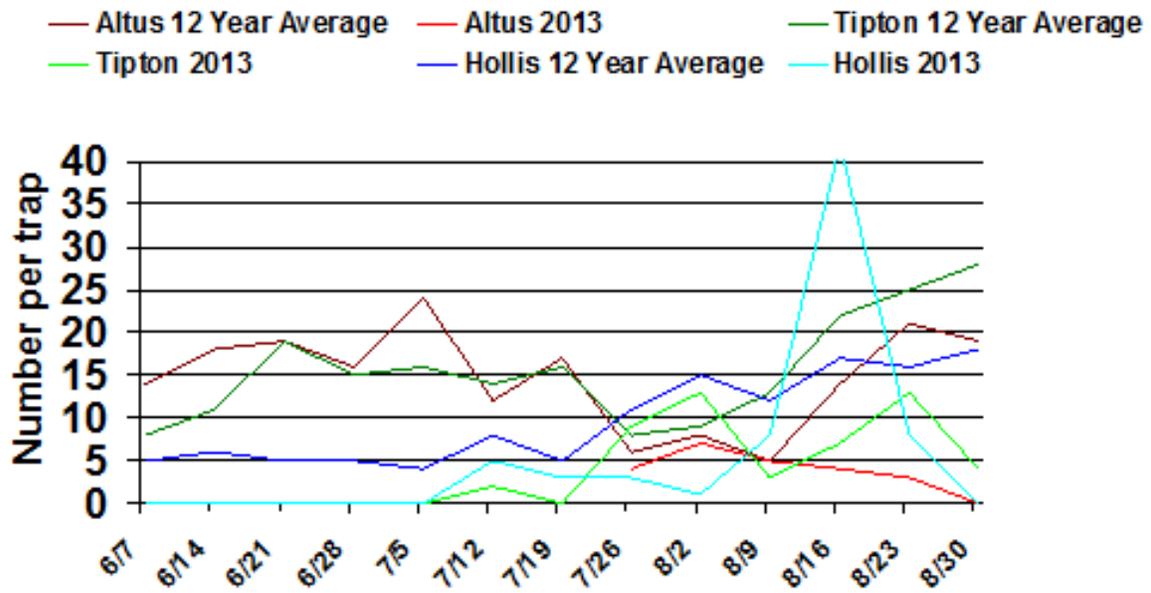
Beet armyworm moth

Cotton Bollworm Pheromone Trap Catches



Cotton bollworm moth

Tobacco Budworm Pheromone Trap Catches



Tobacco budworm moth

JG

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Editor

Randy Boman

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