Crop Update

The September USDA-NASS Crop Report noted a 2014 US upland cotton crop of nearly 16 million bales, nearly a million bales lower than the August report, but up a whopping 30 percent compared to 2013. NASS also reduced estimated plantings to 10.8 million upland acres, with harvested area at an estimated 9.7 million acres. This would indicate an abandonment of 1.1 million acres across the US, with most of this occurring in Texas and Oklahoma. The national yield per harvested acre was estimated to be 790 lbs/acre. Oklahoma’s plantings were revised down from 240,000 acres in the June report to 230,000, with harvested acres estimated at 210,000. Harvested acreage in 2013 was 125,000 from 185,000 planted. State average yield was estimated at 731 lbs/acre, compared to 591 lbs in 2013. NASS is projecting 320,000 bales of production. If we can realize this, it will be the largest crop in Oklahoma since 2010. So, overall it appears we are on track to have a better season in 2014 than we have seen in the past few years.

In spite of very good rainfall in many areas in June and July, lack of August precipitation proved problematic for cotton production in many areas. Spotty September rainfall provided temporary relief in some areas, but overall, much of western Oklahoma is still struggling with lack of moisture (see Drought Monitor graphic below). Over the past week or so, we have had some thunderstorm activity with substantial rainfall in small areas, mostly in Tillman and Harmon Counties. Out to the west, the Texas South Plains has encountered significant rainfall to help the drought situation there. The Mesonet graphic of 14-day accumulated rainfall is presented below. Although early September rainfall came too late to improve yield prospects on many dryland acres, fiber quality may be improved in some fields. Temperatures have been good to excellent for cotton maturity in September, with cotton DD60 heat units for the month thus far at about 8 percent above normal at Altus. Forecasts for the remainder of the month and first few days of October appear to be fairly maturity-friendly also. Bolls in many severely drought stressed dryland fields began “cooking open” in late August, and have begun opening in timely planted irrigated fields. We are nearing the time for judgment calls to be made with respect to overall crop maturity and harvest aid applications in earlier maturing cotton. Unfortunately, failed dryland fields and many in the Lugert-Altus Irrigation District will likely “go under the shredder” after insurance adjusters make their calls over the next week or so.
Heat Units Past Cutout

Some irrigated fields were planted somewhat later than normal and may encounter maturity challenges. The BOLLMAN component of the COTMAN program assumes that 850 heat units past bloom are required to obtain a reasonably mature boll. Based on nodes above white flower tracking by Jerry Goodson, IPM Extension Assistant, several of these fields encountered NAWF=5 around August 22-25. This date is somewhat later than the COTMAN cutout date of August 20 for the Altus area. This indicates that for the Altus vicinity, bolls set after August 20 have less than 50% probability of obtaining 850 DD60 heat units required to make a reasonably mature boll. This is based on the period of record (1948-2007) submitted to the University of Arkansas COTMAN team. The table below provides the actual 2014 DD60 heat unit accumulation from August 20 and 25 and September 1 through September 25 for several Mesonet locations in the southwestern corner of the state. The Altus long-term average or “normal for 1971-2000” for the same bloom dates through the remainder of the season is also listed. In order to achieve adequate maturity of late set bolls at some locations, an above normal – extremely warm finish to September and October may be required. For Altus, the 30-year normal DD60 accumulation ends (goes to zero) on October 20.

<table>
<thead>
<tr>
<th>Location</th>
<th>Past August 20</th>
<th>Past August 25</th>
<th>Past September 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Altus</td>
<td>700</td>
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<tr>
<td>Tipton</td>
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<td>597</td>
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<tr>
<td>Weatherford</td>
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<td>360</td>
</tr>
<tr>
<td>Altus LTA*</td>
<td>770</td>
<td>663</td>
<td>525</td>
</tr>
</tbody>
</table>

* Altus 30-year normal (1971-2000) DD60 accumulation for the remainder of the growing season for blooms set on the date indicated.

Yield Estimation

This is the time of year when we typically get a lot of phone calls related to cotton yield estimation. Although a very risky endeavor, estimation of cotton yields could be important this year. A while back, I generated a handout based on some previous work conducted by Dr. Will McCarty, now retired Extension Cotton Specialist at Mississippi State.
This publication considers several factors such as row spacing, boll size, and two estimated lint percentage levels (35% and 38% picked lint percentages of the SEED COTTON). When looking at several years of boll sizes from drought stressed dryland sites, the 35% picked lint percentage (Table 1), and 2-3 g per boll size are probably appropriate to use. In lower yielding irrigated cotton, the 38% chart (Table 2) and 3-4 g per boll size are probably acceptable. For higher yielding irrigated cotton, the 38% chart (Table 2) and 4-5 g per boll size are likely best. In my opinion, because of boll size, seed set, and other factors, yield estimation should be approached with trepidation, especially in drought years.

Basically this handout indicates that about 155,500 normal bolls are required to produce a 480-lb bale of cotton (average of 4.0 g seed cotton/boll = 1.4 g lint assuming a lint percent for seedcotton of 35%). This is equivalent to about 325 bolls per lb of lint. For 40-inch rows this calculates to 11.9 bolls per row-ft for a one bale/acre yield (155,500 bolls/13,068 row-ft per acre for 40-inch rows). This is very close to the “one boll per inch = one bale per acre” number that many crop watchers use to estimate yields in 40-inch rows. For 30-inch rows this works out to 8.9 bolls per row-ft for a one bale/acre yield (155,500 bolls/17,424 row-ft per acre for 30-inch rows). For drought stressed bolls the boll number required will increase substantially.

The USDA Cotton Loss Adjustment Standards Handbook released in 2014 describes the Boll Count Method which begins at the top of page 27. A chart is included at the bottom of page 27. This chart presents the “number of bolls per pound factor” based on predominant boll size and how the crop is planted. Although work is underway to possibly refine this technique, “picker” and “stripper” varieties are separated and have varying numbers of bolls per pound of lint for some boll diameters. Historically, “stripper” varieties tended to have somewhat larger bolls than “picker” types. This is true for predominant boll diameters of greater than 2.5 inches down to greater than 1.5 inches but less than 2 inches. Once boll diameter drops to smaller than 1.5 inches the number of bolls required to make a pound of lint is equal for both stripper and picker varieties. Based on this table, adjustments for cotton with 1.5 inch diameter open bolls would be based on an assumed 450 bolls per pound of lint. If boll size is extremely small, the value becomes 550 bolls per pound of lint.

Crop Insurance Boll Count Adjustment Date Arrives

Fields with little or no yield are now eligible for crop insurance adjustment. The accepted date for moving from the stand count adjustment method to the boll count method is September 15. Many producers who have fought a hard battle with the elements this year should be lining up crop insurance adjusters to obtain a yield determination based on the boll count method.
The main thing to remember from a soil stewardship perspective is to leave an acceptable amount of crop residue in the field. What this may mean is that for fields which have been released due to low yield potential, it would be a good idea to terminate this cotton with a high dose rate of paraquat or even shredding rather than running a disk for crop destruction. Any cover left will provide potential to reduce wind erosion. With recent rainfall in some areas, a cover crop can also be planted.

**Crop Maturity Determination**

Crop maturity determination is critical for a successful harvest-aid program. Premature crop termination has been shown to reduce lint yield, seed quality, micronaire, and fiber strength. Harvest-aid chemicals cannot increase the rate of fiber development. Only additional good growing weather including open skies and adequate heat units combined with functional leaves can mature cotton bolls.

**Three Crop Maturity Determination Methods:**

1) Maturity can be determined by using a sharp knife to cut into the bolls. If the boll is watery or jelly like on the inside, then it is immature and needs more heat units. If boll development is such that the knife cannot slice through the lint, then the boll is nearly mature. Close inspection of the seed will give further indication of boll maturity. If the seed coat is turning tan and the seed leaves (or cotyledons) are fully developed, the boll is mature. For an example of this, see below.

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**Timing Harvest Aid Applications by Boll Maturity**

Requires more heat units prior to ethephon application. Ethephon will probably open this boll but it likely will not fluff.

Fully formed seed leaves (cotyledons), tan seedcoat ring forming. Ready for ethephon application.

Fully Mature, blackened seed coat, should open with paraquat.
2) Open boll percentage is another method that can be used to determine crop maturity. This method is fairly easily accomplished, but can have limitations. One just needs to measure off a known number of row-feet in multiple areas of the field, then begin counting open bolls and unopened or "green bolls." Track these separately. Once both types have been counted, simply add the green boll count and the open boll count to obtain the total number of bolls. After that, divide the open boll total by the total bolls and multiply times 100. This allows for a reasonable observation of percent open bolls. The limitation that occurs with this method arises when a "fruiting gap" exists in the plant. If bolls are present at the bottom of the plant, none in the middle, and more bolls at the top, this can give a skewed representation of the maturity of the field.

3) Nodes above cracked boll (NACB) is a tool that can be used to time harvest aid application (Figure 1). A Beltwide cotton harvest aid timing project was conducted over multiple sites and years by a team of extension personnel across the Cotton Belt (Tom Kerby, James Supak, J.C. Banks, and Charles Snipes). It was determined that if the uppermost first position-cracked boll is within three nodes of the uppermost harvestable first position boll then no lint weight will be lost if a defoliant-type harvest aid is applied at that time (Figures 1 and 2). However, if the uppermost harvestable first position boll is four or more nodes above the uppermost first position cracked boll, then potential for some lint loss exists. The lint loss potential increases as the NACB increases. Micronaire reduction generally follows a similar pattern when using the nodes above cracked boll criterion. When defoliant type chemicals are applied, some slight subsequent fiber development may occur before defoliation. If applying desiccants, more bolls must be mature in order to reduce the risk of fiber weight loss or reduction of micronaire, thus two NACB would be a better target.
When determining boll maturity of adjacent fruit, one can consider the following. When moving up the plant from a first position boll that has just cracked to a first position unopened boll on the next fruiting branch, about 60 additional heat units (DD60s) are required to obtain similar boll maturity. If moving out from a first position boll to a second position boll on the same fruiting branch, about 120 heat units will be required to reach the same level of maturity. For an individual boll, a total of about 800-850 heat units are required after pollination to produce normal size and quality. However, bolls obtaining fewer heat units may still make productive lint of lower micronaire that may contribute to final yield.

For a handout that helps explain the rate of crop maturity for the Altus vicinity, click here.

**Conditions Affecting Harvest Aid Performance**

Proper harvest-aid product selection, tank-mix partners, and rates vary with environmental and crop conditions. What works best in one year is not necessarily the best for the next season. Effectiveness of harvest-aid chemicals is always a concern. Several factors affect the performance or lack of performance of harvest-aid chemicals.

These factors improve the performance of harvest-aid chemicals:
- Warm, sunny weather
- Soil moisture relatively low but sufficient to maintain cotton plant in active growth condition without moisture stress
- Soil nitrogen levels relatively low
- Leaves active and uniformly expanded on plants
• Little or no secondary growth evident on plants
• Plants with a high percentage of open bolls that have shed some mature leaves

Conversely, here are some factors that negatively affect harvest-aid chemical performance:
• Applications made under cool (below 60° Fahrenheit), cloudy conditions
• Long periods of wet weather after treatment
• Plants in vegetative growth state with low fruit set
• Plants severely moisture stressed with tough, leathery leaves at time of treatment
• High soil moisture and nitrogen levels, which contribute to rank, dense foliage and delayed maturity
• Plants exhibiting secondary growth (regrowth) after a “cut-out” period
• Improper calibration of application rates and poor spray coverage

**Harvest-Aid Product Selection**

In general, the yield and condition of the cotton crop should determine the choice of harvest-aid product. If the leaves are beginning to shed and are reddish to purple, they will more easily drop off without too much “sticking” (when leaves do not drop and are frozen on the plant). The natural process that causes leaves to drop can be stopped by stress such as a freeze or desiccant application. Also, some cotton varieties do not defoliate as easily as others. Increased leaf content in the harvested cotton can potentially reduce lint quality by triggering lower quality leaf grades. Drought-stressed leaves generally have a much thicker waxy coating, which can reduce harvest-aid performance.

**Regrowth**

Secondary growth (regrowth) sometimes occurs after the plants have “cut out” or stopped blooming due to drought stress or physiological maturity. If the weather is warm and rainy after an extended period of drought stress and cut out, the growth cycle can start again. One might see regrowth in the terminal and on many of the other nodes on the plant. Plants with unopened bolls or young, developing bolls are less likely to produce secondary growth. Regrowth is difficult to control because young foliage does not shed as easily as older leaves.

**Spray Volume**

Proper spray volume and coverage are also critical to the success of a harvest-aid program. Be sure to calibrate the sprayer to deliver the correct volume at the proper nozzle pressure to ensure adequate distribution and foliage penetration. **Read and follow the label directions for product use.** The harvest-aid label contains information based on many years of testing and results. Avoid applying on windy days to reduce the hazard of spray drift to non-target vegetation. Some harvest-aid
chemicals are very toxic and should be properly handled and stored, especially around small children and pets.

**Harvest Aid Chemical Types**

Harvest-aid products are broadly classed in three categories: desiccants, defoliants, and boll openers. Some can be classed as both desiccants and defoliants depending upon the rate used.

**Desiccants**

Desiccants generally are paraquat formulations and may contain various tank-mixes with other products. These products dry down the plant by causing the cells to rupture. The old rule of thumb is that desiccants are normally applied when approximately 80% of the productive bolls are open, or at two to three nodes above cracked boll. **Do not use paraquat-based desiccants when seedling-stage small grains or other crops are near targeted cotton fields. Paraquat drift can severely damage developing small grains grown for cover or harvest.** Gramoxone SL 2.0, Firestorm, and Parazone are similar products that have paraquat as the active ingredient. Paraquat applications made in the late afternoon before a bright, sunny day seem to boost the effectiveness of desiccation and tend to increase regrowth control. We suggest the use of nonionic surfactant (NIS) with paraquat. Use the NIS at a minimum rate of 0.125% or 0.25% volume/volume (v/v), depending on the percent concentration of surface-active agent (see individual product labels). You may need to increase the NIS rate to 1% v/v and spray late in the day to effectively desiccate some fields. In some years, protoporphyrinogen oxidase (PPO) inhibitor defoliant/desiccant products applied at higher rates work well to desiccate juvenile growth and regrowth, which is often difficult to do with paraquat. PPO inhibitor products include Aim, Display, ETX, and Sharpen. Unlike the problem with paraquat, drift from desiccant rates of PPO inhibitors should not injure small grains.

**Defoliants**

Defoliants cause plants to begin developing an “abscission layer” or zone of cells that eventually break down and cause leaves to separate from the stem and drop. Abscission is a natural process, but it is enhanced by the defoliant. Some defoliants are classified as hormonal, some are herbicidal, and some are mixtures of both. Hormonal defoliants work two ways: (1) they enhance production of ethylene, a plant senescence hormone that stimulates leaf abscission; or (2) they inhibit a plant’s ability to transport auxin, a plant growth hormone. Lower temperatures are more likely to reduce the effectiveness of hormonal defoliants than herbicidal defoliants. Hormonal defoliants include Dropp (thidiazuron) and related products. Because of fall temperatures, Dropp is not generally used in Oklahoma and north Texas. Herbicidal defoliants include Folex (tribufos) and related products, the PPO inhibitors (e.g. Aim, ETX, Display, and Sharpen), and low rates of paraquat or other desiccants (which at lower rates injure but
Some products may have mixtures of both hormonal and herbicidal defoliants. These products include Ginstar (thidiazuron plus diuron) and related products. To maximize leaf drop, defoliants require fairly healthy and active leaves that still function properly and are not severely drought stressed (tough and leathery). Warm air temperatures generally enhance a defoliant’s effectiveness. According to the commonly used rule of thumb, defoliants can be safely applied when 50-60% of the bolls are open and the remaining bolls are mature enough to obtain a good yield. Defoliation generally assists in opening some mature bolls, but green, unopened bolls can still remain a challenge. Frequently, a killing freeze or a follow-up application of paraquat or other desiccant product is needed to allow stripper harvest of the crop. Defoliant rates of PPO inhibitors disrupt plant cell membranes, triggering increased ethylene production in leaves and causing abscission. Research trials indicate that the PPO-inhibitor products can be effective defoliants, as well as effective desiccants in some instances when used at higher rates. These products tend to work equally well, but some may work better under certain crop conditions. PPO inhibitors can be tank-mixed with other products such as paraquat, Folex, Ginstar, Prep, Finish 6 Pro, FirstPick, and various other ethephon-based products. We suggest the use of a crop oil concentrate (COC) for the Aim, ETX, and Display spray mixtures. Sharpen has special adjuvant needs which includes methylated seed oil (MSO) and ammonium sulfate (AMS). See specific product labels for details. Failure to include proper adjuvants with these products will likely result in significantly reduced activity.

Boll Openers - Ethephon

Ethephon-based boll-opener products increase the rate of boll opening and defoliation to allow for more rapid harvesting of the crop. Prep was the first ethephon-containing product in the cotton harvest aid market. It is no longer being produced. However, other available primary ethephon products include Boll’d, Boll Buster, Setup, SuperBoll, and others. Several years ago, some enhanced boll-opener/defoliant products were introduced: Finish 6 Pro, which contains ethephon and cyclanilide; and FirstPick, which contains ethephon and urea sulfate.

These products affect the natural boll-opening process, but they do not cause bolls or fiber to mature faster. Plants convert ethephon to ethylene, an aging-related hormone that speeds up abscission layer formation. Ethephon-based products usually reach a level of maximum effect within 14 days. The response is generally driven by temperatures. Tank mixes of ethephon and defoliants are effective at opening bolls and dropping leaves in higher yielding cotton. Higher rates of ethephon products alone are often very effective for defoliation, but lower rates are generally effective only for boll opening. The maximum labeled rate for ethephon products is 2 pounds of active ingredient per acre. Defoliant chemicals can be tank-mixed with ethephon products to enhance defoliation.
Boll Maturity and Ethephon

Ethephon must be applied to an active plant to be effective, and temperatures generally drive its effectiveness. Ethephon product labels generally state that plants need “sufficient mature unopened bolls present to produce desired crop.” Mature bolls are defined as “too hard to be dented when squeezed between the thumb and fingers, too hard to be sliced with a sharp knife, and when the seedcoat becomes light brown in color.” If you apply boll-opening products when bolls are not mature enough, you will likely see reduced lint yield and micronaire. Results from several Texas High Plains studies indicate that lint yield and micronaire reductions occurred when applications were made at 25% open bolls but not at 50% open bolls. Lint yields were reduced at least 10%, and micronaire was decreased by about 5%. When one initially applies tank mixes of boll opener and defoliant products, one often needs a follow-up application of paraquat (or other product with desiccant activity) to sufficiently condition the cotton for stripper harvest. This step adds more expense to the overall harvest-aid program. For late maturing cotton (defined as cotton still needing maturity, but the long-term average heat units have gone to zero) ethephon can be used as a conditioning treatment. Late maturing cotton will be susceptible to potential yield and quality losses if a hard freeze is encountered. An unfortunate judgment call will have to be made concerning harvest aid application 7-10 days before a freeze, not the day before a freeze is forecast. Ethephon must have at least 70 degree temperatures for several days in order to provide benefits with respect to boll opening and potential reduction of lint staining. Many times severe lint color degradation is observed after a freeze when prior to that a substantial number of unopened bolls remained in the field. Ethephon is ineffective AFTER a freeze based on the destruction of the physiological processes needed for benefit. Ethephon requires a functional plant. If a hard freeze is obtained, the plant is dead. One can apply ethephon at higher rates at least 7 days prior to killing freeze date in order to get some activity, assuming 70 degree temperatures can be obtained. It should be noted that if the anticipated freeze does not materialize, ethephon applied to immature cotton will potentially reduce yield and fiber maturity as measured by micronaire. This is one box we need to stay out of and why we encourage producers to manage for earliness. However, ultimately we are at the mercy of Mother Nature.

Quick Reference Decision Aid Tables

Many irrigated fields are moving rapidly toward sufficient maturity to allow harvest aid application soon. The question remains what to use to bring down this cotton. I’ve always said that there is more than one way to get cotton harvest ready. What works this year may not work next year. It is very important to learn the strengths and weaknesses of the various products. Use rates, timing, weather, crop condition, etc. are all important for a successful harvest aid program.

A decision aid-table is provided for three projected lint yield levels (less than 500 lb/acre, 500+ lb/acre, and 1000+ lb/acre) and four scenarios (dry with temperatures less
than 80 degrees 0-3 days after treatment; dry with temperatures greater than 80
degrees 0-3 days after treatment; and wet with temperatures less than 75 degrees 0-3
days after treatment; and late maturing). **Make sure to read the footnotes at the end of the publication, as they contain important information.** Some products may be more difficult to obtain in the marketplace than others, but these tables are a worthwhile general guide because so many are available.

For the 2014 Cotton Harvest-Aid Decision Table, click here.

**Sharpen Defoliant**

Sharpen herbicide, a PPO inhibitor product, has been around for a few years. In 2012, BASF labeled Sharpen as a cotton harvest-aid in Oklahoma. One factor that should be noted concerning this product is that it has residual activity. However, there is no replanting interval restriction for small grains for the labeled rates as a cotton harvest aid (1-2 oz/acre). For more information see Table 4 on the Sharpen label.

It will take some time for us to be able to assess the proper fit and issues surrounding use of this product in Oklahoma. Methylated seed oil (MSO) and ammonium sulfate (AMS) additives are required for optimal effectiveness. The label states “uniformly apply Sharpen at 1.0 to 2.0 fluid oz/acre as a broadcast spray over cotton that has reached physiological maturity.” For further information, see the Sharpen label. According to BASF personnel, the most consistent performing cotton harvest aid treatments over the past 3 years have been:

1) Sharpen (1 fl oz/A) + ethephon (32 to 48 fl oz/A) + MSO (1% v/v) + AMS (8.5 to 17 lbs/100 gal)

   OR

2) Best opportunity for one application:  Sharpen (1 fl oz/A) + ethephon (32 to 48 fl oz/A) + tribufos (8 fl oz/A) + MSO (1% v/v) + AMS (8.5 to 17 lbs/100 gal)

IF a 2nd application is needed to finish off drydown, leaf drop, control regrowth, and control escaped weeds: Sharpen (1 fl oz/A) + MSO (1% v/v) + AMS (8.5 to 17 lbs/100 gal)

**Best Use Recommendations:**

**Use Rate:** 1.0 fl oz/A (if necessary, tank mix with defoliant or boll opener)

**Timing:** Apply at or after physiological maturity

At least 60 to 70% of bolls open

**Adjuvants:** MSO (1% v/v or minimum of 1 pt/A), AMS (8.5–17 lbs/100 gals)

**Carrier volume:** Aerial application ≥ 5 GPA, Ground application ≥ 10 GPA

Medium to fine droplet size are recommended for optimal coverage
Display Defoliant

FMC’s Display product is a premix of two PPO inhibitors: carfentrazone-ethyl, the active ingredient in Aim EC; and fluthiacet-methyl, the active ingredient in Blizzard, which is no longer available. It is expected to perform as other PPO products, but the use rate will need to be assessed for our cotton and conditions. The label states “do not apply more than 1 oz/acre per application as a harvest aid. Maximum of 2 harvest aid applications per season with a minimum of 6 days between applications. Do not apply more than 2 fluid oz/acre per season.”

ET Defoliant Replaced by ETX

Nichino’s ET product is being replaced in the market with ETX in 2014. Based on research conducted in 2013, expect similar results from ETX that would be obtained with ET once the appropriate conversion rate is selected. For the proper conversion see below. To convert:

<table>
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<tr>
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<tbody>
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<td>fl oz/A</td>
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<td>1.7</td>
</tr>
</tbody>
</table>

For a printable chart that provides this conversion, click here.

Cotton Incorporated Harvesting Publications

Several publications have been generated by Cotton Incorporated in cooperation with a team of harvest engineers and agronomists. These include stripper harvesting, picker harvesting and seed cotton storage (module building). There is a huge amount of relevant information in these publications and they should not be overlooked. Click for:

Stripper Harvesting

The Spindle-Type Cotton Harvester

Seed Cotton Handling and Storage

Also, more information concerning cotton harvesting and economics of the two harvester types can be found on the Cotton Incorporated Website at: Click here  Cotton Inc - Cotton Harvest Cost Comparison Program/Decision Aid
Insect Update

Insect management for the 2014 crop is terminated due to the maturity of the crop. Overall it has been a very light year with no major problems.

In non-cotton pest news: Fall armyworm outbreak has occurred in wheat fields in Tillman County which has caused several fields to be sprayed. Also a border spray for grasshoppers has been performed in one field in the county. All emerged wheat fields need to be scouted and place on a weekly schedule until nighttime temperatures reach below freezing. If any questions arise please contact your local county extension office.

Photos courtesy of University of Georgia.
Fall armyworm moth, egg mass and larvae

JG

Upcoming Meetings

Cotton large-plot replicated trials with producer-cooperators will be showcased by Extension Educators at various tours. Large-plot variety (RACE) trials, weed control, cotton maturity, harvest aids, harvesting, etc. will be discussed. Locations, times, and contact information are listed below:

October 2, 8:00 a.m. Tillman County Cotton Tour and Farm Bill Update Meeting. The tour will start at the Extension furrow irrigated RACE trial on the John McCullough Farm near the Tipton Airport located two miles west of the intersection of Highway 5 and 5C at Tipton, and about 3.5 miles south. The next stop will be at 10:30 at the dryland RACE trial at the Roger Fischer Farm. From the intersection of Highways 54 and 70, go 1.5 miles north on Highway 54 to the site (on the west side of the highway). At 12:00 p.m., lunch will be provided at the Great Plains Technology Center at Frederick. Dr. Jody Campiche will then provide a 2014 Farm Bill Update. Please RSVP for lunch with Aaron Henson, Tillman County Extension Educator at 580-335-2514 or contact him for more information.

For a flyer for the Tillman County Tour, click here.

October 3, 9:00 a.m. Washita/Beckham Counties Cotton Tour. Danny Davis Farm dryland RACE trial, near Elk City/Canute. The site is located southeast of Elk City at the intersection of 2050NS and 1130EW in Washita County. Contact Glenn Detweiler,
Washita County Extension Educator, 580-832-3356 for more information. We will depart from the Danny Davis Farm and arrive at 11:15 at the Beckham County center pivot irrigated no-till RACE trial on the Jack Damron Farm. The site is located southwest of Sayre. Drive south on Highway 283 for 5 miles, then go 5 west. From Delhi, the site is 3 miles west and 1 mile north. Contact Greg Hartman, Beckham County Extension Educator, at 580-928-2139 for more information.

For a flyer for the Washita/Beckham County Tour, click here.

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Editor
Randy Boman

SEND US A COMMENT BY EMAIL

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