



Pest Management News

Runnels-Tom Green Counties



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Inside this Issue

Cotton 1

Fall Armyworms 1

Small Grains 2

Upcoming Events 2

Test Trial Results—3 & 4

General Situation

While the temperatures have moderated over the last few days, our soil moisture is severely depleted. That, combined with the hot temperatures we had in August and early September has caused our cotton to quickly mature. Many dry-land fields have cracked or open bolls and will be ready for defoliation soon.

Watch for Cotton Harvest Aid information in next week's newsletter.

Josh Blanek, CEA Ag/NR

Tom Green County

Cotton

Insect pressure has been quiet in cotton. Do keep an eye out for Cotton Aphids. Most fields have only had light infestations and natural predators have controlled those, however there have been a few isolated areas needing treatment.

The last 7 days have averaged 26.8 Heat Units a day ranging from 19 to 28 HU/day.

The 7 day forecast shows an average of 21.8 HU accumulations a day.



Total Heat Unit (HU) Accumulations

| Planting Date | Total HU Accumulation as of September 13, 2015 | Long Term Average |
|---------------|--|-------------------|
| May 15, 2015 | 2,518 | 2,353 |
| May 25, 2015 | 2,319 | 2,228 |
| June 5, 2015 | 2,241 | 2,067 |
| June 15, 2015 | 2,023 | 1,889 |

Fall Army Worms



Dr. Allen Knutson, Extension Entomologist, warns that if we break this dry weather with rain in the late summer and early fall, we could have an outbreak of Fall Armyworms. If our El Nino rainfall sets in, we

need to monitor closely the small grain and hay fields.



Small Grains



Only a small amount of small grain has been planted in hopes of getting some fall grazing. Most of you planting for grain will plant from Mid-October through first of December. As you are selecting your seed remember to use multiple varieties and not just any one helping deter any disease or insect resistance issues.

Applying fertilizer with the seed has proven to be a very efficient practice. All of the required phosphorus and up to 16 pounds of nitrogen per acre can be placed with the seed at planting. This practice increases early growth, root development, tillering, winter hardiness and resistance to diseases and insects. If Potassium is being applied with the seed, be careful not to damage the young seedling by applying too much fertilizer (actual Nitrogen and Potassium combined should be below 30 pounds per acre).

Split fertilizer applications are preferred. Incorporate one-third to one-half of the nitrogen and all of the phosphorus into the soil before or at seeding time. Apply the remaining nitrogen just prior to jointing. Field demonstrations have shown a split application of nitrogen has a yield advantage over pre-plant applications. If all the nitrogen is applied in the fall, excessive growth of ungrazed forage may occur and chances of freeze damage are increased. Nitrate leaching or denitrification can also occur reducing the amount of nitrogen available to the crop in the Spring.

I have attached Dr. David Drake's results from the Melvin wheat variety demonstration trial planted with David Holubec and the Millersview Wheat Variety Demonstration trial; or for more detailed statewide results go to: <http://varietytesting.tamu.edu/wheat/docs/2015/FINAL%20WHT%20PUB.pdf>

Upcoming Events:

Turnrow Meetings – Wall Turnrow meetings have come to an end for the 2015 Cotton season. I want to Thank all the speakers who took time to join us and present very valuable information, Mina Abbott and Wall Coop for providing the facility, and all the Banks for providing donuts. I also want to Thank all the growers for your attendance and participation.

Cotton Tours

Runnels County Cotton Turnrow Meeting will be held **Wednesday, September 23rd at the Paul Minzenmayer farm**. The Minzenmayer farm is located at County Road 303 near Poe's Corner (Intersection of FM 2111, FM 384 and State Highway 153, outside of Winters. Following the tour of varieties at the farm, the program will move to the Winters Community Center, 410 Novice Road. Growers will receive TDA Law and Reg's updates and small grain updates. Registration for this event is free; for more information or to RSVP call the Runnels County Extension Office at 325-365-5042 by September 21st. Three (3) TDA CEUs (1-IPM, 1 L&R, 1 Gen) will be offered.

Tom Green County Cotton Field Tour will be held **Monday, October 5th beginning at 9:00 am at the John and Doug Wilde Farm**. Registration and Tour will begin at the variety plot located off Old Eola Road. The Field Tour includes an irrigated cotton variety test and harvest-aid trial. The tour will conclude at the Tom Green County 4-H Building with TDA Laws & Reg's update, drift liability concerns, Cotton Rootrot updates, Boll Weevil Eradication Update and SRPCGA updates. 3 TDA continuing education units (1 L&R, 1 IPM, 1 General) will be given to those attending the entire tour. Registration and lunch is free for those who RSVP by September 28th. To RSVP or for more information, contact the AgriLife Extension office in Tom Green County at 325-659-6523.

Trade names of commercial products used in this report is included only for better understanding and clarity. Reference to commercial projects or trade name is made with the understanding that no discrimination is intended and no endorsement by Texas A&M AgriLife Extension Service and the Texas A&M University System is implied. Readers should realize that results from one experiment do not represent conclusive evidence that the same response would occur where conditions vary.

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Texas A&M Agrilife Extension - McCulloch County Wheat Variety Demonstration Trial 2015

Dr. David Drake & Trevor Dickschat

Planted: Nov. 4, 2014 Melvin, TX

Seeding rate: 50 lb/ac No-til

Harvested: June 4, 2015

Cooperator: **David Holubec**

Fertilizer: Preplant 80 lbs 11-52-0 & 60 lbs 32-0-0 / Top Dress 100 lbs 29-0-0-35

Fungicide: Generic Propiconazole (first application on 2/10/15 and second application 3/15/15)

Season notes: Soil Moisture excellent in Fall and average to short in Spring, heavy Stripe Rust pressure

| Variety | Grain yield (bu/ac) | | Test wt (lbs/bu) | Grain yield (bu/ac) | | Group Rank ² |
|-----------------|---------------------------------|---------------------------------|------------------|---------------------|------|-------------------------|
| | 3-year (2012-2015) ¹ | 2-year (2013-2015) ¹ | | 2015 | 2012 | |
| Greer | 55.8 | 53.8 | 57.4 | 45.3 | 1 | 59.6 |
| Iba | 54.8 | 57.1 | 60.0 | 47.6 | 1 | 50.1 |
| Cedar | 53.7 | 55.0 | 59.3 | 38.8 | 3 | 51 |
| Gallagher | 53.4 | 56.0 | 59.7 | 43.6 | 2 | 48.3 |
| TAM 113 | 52.2 | 52.5 | 59.1 | 52.9 | 1 | 51.7 |
| Coronado | 52.0 | 47.0 | 59.7 | 34.8 | 3 | 62.1 |
| TAM 112 | 50.1 | 49.9 | 59.9 | 45.4 | 1 | 50.4 |
| Duster | 49.5 | 51.7 | 59.1 | 44.1 | 2 | 45 |
| Grainfield | | 59.1 | 58.9 | 49.6 | 1 | n.t. |
| WB 4458 | | 54.1 | 60.5 | 42.3 | 2 | n.t. |
| TAM 111 | | 53.3 | 59.5 | 44.5 | 2 | n.t. |
| CJ | | 51.2 | 59.3 | 40.9 | 2 | n.t. |
| Red Hawk | | 50.1 | 59.1 | 34.4 | 3 | n.t. |
| TAM 114 | | 72.5 | 59.6 | | n.t. | n.t. |
| TAM 204 | | 66.5 | 57.8 | | n.t. | n.t. |
| Razor | | 53.8 | 60.8 | | n.t. | n.t. |
| Winterhawk | | 61.3 | 61.5 | | n.t. | 46 |
| Ruby Lee | | 53.7 (2012&2015) | | 41.8 | 2 | 59.7 |
| TAM 203 | | 50.8 (2012-2013) | | 38.6 | 3 | 61.7 |
| Doans | | 50.1 (2012-2013) | | 40.9 | 2 | 56.8 |
| Garrison | | 48.8 (2012-2013) | | 51.5 | 1 | 41.3 |
| Double Stop CL+ | | 46.4 (2012-2013) | | 47.5 | 1 | |
| Average | 52.7 | 53.3 | 59.5 | 43.6 | | 52.6 |

Non-Replicated Trial High & Low Values

| P>(f) ⁶ | Multi-year Statistical Analysis ³ | 2015 | 2012 |
|--------------------|--|------|------|
| | | 61.5 | 53.0 |
| CV % | | 57.4 | 34.4 |

Grain yields are based on demonstration strips 9.5 x 125 ft, test weights were measured on a representative sample

¹2014 excluded due to a late freeze

²n.t. = variety not tested that year

³N.S. = Not Significant

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Texas A&M Agrilife Extension - Concho Co. Wheat Variety Demonstration and Fungicide Application Trial 2015
 Planted: Dec. 3, 2014 Millersview, TX Seeding rate: 60 lbs/ac Fertilizer: Dr. David Drake & Brady Evans
 Herbicide: Ally, Wildcard, MCPA Ester Fungicide: Applied on April 7, 2015 at full flag leaf emergence; 4 fl oz Tilt and 1.1 fl oz of Quilt with 10 gpa water Harvested: June 5, 2015
 Season: Excellent Winter and Spring Moisture, heavy stripe rust pressure, some leaf rust, hot and dry during seed fill, rain prior to harvest
 Producer: Mickey Dillard, Joe Beach, and other Millersview Community Producers

| Variety | Grain yield (bu/ac) | | Grain yield (bu/ac) (2012, 2013, or 2015) 2-year | Grain yield (bu/ac) | | Test weight (lbs/bu) | |
|--------------------|-----------------------------|-------------------------|--|---------------------|-----------------------|----------------------|-----------------------|
| | 3-year (2012-2013, 2015) | 2-year (2013 & 2015) | | untreated 2015 | fungicide tmt Tilt | untreated 2015 | fungicide tmt Tilt |
| Cl | 33.1 | 25.8 | 34.0 | a | NS | 57.8 | NS |
| Doans | 31.0 | 22.9 | 31.8 | a | NS | 59.0 | NS |
| Coronado | 29.0 | 18.3 | 22.2 | NS | NS | 26.7 | 58.1 |
| TAM 112 | 26.4 | 18.9 | 15.2 | NS | NS | 24.5 | 53.5 |
| Duster | 25.7 | 18.9 | 21.6 | NS | NS | 26.2 | 26.9 |
| TAM 111 | 23.0 | 16.3 | 14.1 | NS | NS | 22.6 | 22.2 |
| Gallager | | 25.7 | 27.5 | NS | NS | NS | NS |
| WB Grainfield | | 23.6 | 26.4 | NS | NS | NS | NS |
| TAM 113 | | 21.7 | 24.3 | NS | NS | NS | NS |
| Ruby Lee | | 20.1 | 19.3 | NS | NS | 26.2 | 54.5 |
| Double Stop CL+ | | 18.7 | 21.9 | NS | NS | NS | NS |
| Garrison | | 12.8 | 10.6 | NS | NS | NS | NS |
| SY Razor | | | 34.0 | a | NS | NS | NS |
| WB 4458 | | | 29.2 | a | NS | NS | NS |
| TAM 114 | | | 27.5 | NS | NS | 35.0 | 35.6 |
| TAM 204 | | | 25.6 | NS | NS | NS | NS |
| WB Winterhawk | | | 24.2 | NS | NS | NS | NS |
| TAM 401 | | | 23.9 | NS | NS | NS | NS |
| LCS Mint | | | 23.1 | NS | NS | 29.6 | 31.8 |
| lba | | | 22.2 | NS | NS | 34.7 | 52.6 |
| Weathermaster 135 | | | 19.6 | NS | NS | NS | NS |
| TAM 305 | | | | | | | |
| Fannin | | | 30.1 (2012-2015) | | | | |
| Greer | | | 36.3 (2013) | | | | |
| Jackpot | | | 30.7 (2012-2013) | | | | |
| WB Cedar | | | 30.1 (2012-2013) | | | | |
| | | | 29.9 (2012-2013) | | | | |
| | | | 16.7 (2013) | | | | |
| Average | 28.0 | 20.3 | 23.7 | | | 27.1 | 28.6 |
| P>(F) ⁵ | NS | NS | 0.001 | | | 0.001 | 0.001 |
| LSD (P=0.05) | | | 5.2 | | | 5.9 | 6.1 |
| CV % | | | 15.4 | | | 16.8 | 16.8 |

Values above the average of the trial (b) or not statistically different from the highest yield (a) are shaded or labeled.

Grain yields are based on four plots of 20 rows (13ft) X 5 ft plots cut from demonstration strips, test weights were measured on each sample
 Replicated fungicide treatments were applied and harvested across all demonstration strips, test weights were measured on each sample

NS indicates no statistical difference among the treatments for that particular measurement/column

For questions or more information contact: David Drake, ddrake@ag.tamu.edu