

Pest Management News Runnels-Tom Green Counties

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Integrated Pest Management
Runnels-Tom Green Counties
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GENERAL INFORMATION

Most of the wheat started off with very poor soil moisture and little hope for a profitable crop, but with some recently timed rains-- there is some hope for the wheat crop.

Attached in this newsletter are the results from both the Tom Green and Runnels County Cotton Variety Trials. Once again thank you to the cooperators who helped out this previous year. This newsletter also contains information regarding both auxin and paraquat training.

Just a heads up...the Runnels County Ag Day will be held on Thursday, April 2nd. More information about it will come at a later date.

AUXIN TRAINING

Producers are getting pretty used to the annual Auxin Training that must be completed in order to apply 2,4-D or Dicamba on the Auxin tolerant cotton varieties. Keep in mind that producers who are applying one of the Dicamba formulations (Engenia, Fexapan, Tavium, Xtendimax) must be a licensed pesticide applicator and have their own license. If you are applying 2,4-D (Enlist One or Enlist Duo) you may still apply under the supervision of a licensed applicator. This year's training has been reduced back to a one hour training instead of two. Below is a list of training dates being hosted in both Tom Green and Runnels Counties. *Please RSVP to the appropriate county office.*

**February 25th
Wall VFD Hall
(8065 Loop 570, Wall)
Registration 8:30 AM
Program 9:00-10:00 AM**

**February 26th
Winters Community Center
8:00-9:00 AM**

**February 27th
Mereta VFD Hall
(18046 Grand Ave., Mereta)
Registration 8:30 AM
Program 9:00-10:00 AM**

**April 2nd
Runnels County Ag Day

April 8th
Ballinger Senior Citizen Center
8:00-9:00 AM**

PARAQUAT TRAINING

Any person who intends to use paraquat will be required to take this training. The training provides important information about paraquat's toxicity, new label requirements and restrictions, and the consequences of misuse. The training must be retaken every three years. Currently the only way to do this training is through an online link. I have attached in this newsletter information on how to log in for the paraquat training.

Trade names of commercial products used in this report is included only for better understanding and clarity. The information given herein is for educational purposes only. Reference to commercial products or trade names is made with the understand that no discrimination is intended and no endorsement by Texas A&M AgriLife Extension Service and the Texas A&M University System is implied.

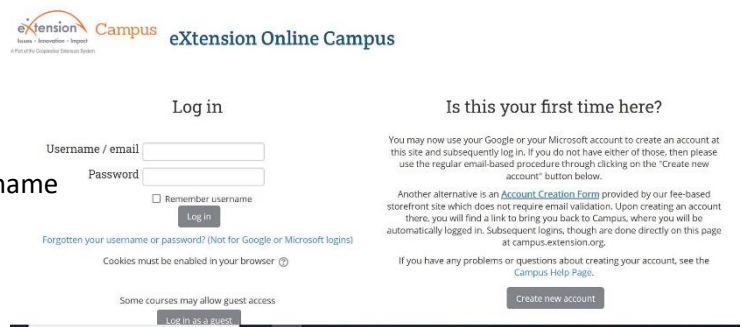
Educational programs of the Texas A&M AgriLife Extension Service are open to all people without regard to race, color, sex, disability, religion, age, or national origin.

Steps to log-in to the Paraquat Training

1. Click or type: <https://npsec.us/paraquat>
2. Click on the blue box: How to Safely Use and Handle Paraquat-Containing Products



3. You will be directed to the course at Campus.Extension.Org
 - a. If this is your first time here, you need to create an account
 - b. Once you have your account you can log in using your username and password



4. Once you're logged in, you can search for the Paraquat course in the Search Courses box



5. After you click GO on the search page, you will see this page.
 - a. Click on the How To Safely Use and Handle Paraquat-Containing Products title



6. You will be in the course.
 - a. Read through the Welcome and the Introduction and Learning Objectives
7. When you're ready to begin the course, click the link in the "Watch The Course" section. This will take you to a screen where you will click ENTER to begin your training.
8. Once you have finished watching the training, click the blue Dashboard button to be directed back to course space to complete the assessment.
 - a. You must score 100% to receive your certificate of completion.

The screenshot shows the 'extension Campus' interface. The header includes the logo and the course title 'How To Safely Use and Handle Paraquat-Containing P ...'. Below the header is a navigation bar with links for Home, Dashboard, Events, and My Courses. A 'Turn editing on' button is visible. The main content area shows a breadcrumb trail: 'My courses > Paraquat'. Below this is a 'Welcome to the How To Safely Use and Handle Paraquat-Containing Products' section. The text states: 'Successful completion of this course satisfies the paraquat training requirement mandated by the U.S. Environmental Protection Agency (EPA) for all certified applicators who intend to apply paraquat. In accordance with EPA's 2016 Paraquat Dichloride Human Health Mitigation Decision, applicators are required to take an EPA-approved paraquat training program every 3 years in order to mix, load, apply, or handle paraquat.' A list of bullet points follows: 'You should expect to spend about 45 minutes going through this training. It may take longer if you go back and review parts of the training. If you need to leave the training before you are finished, when you return, you should resume from the place you left.', 'The course is formatted as a video that plays automatically when you click on it. You can leave the training and get back in and it will pick up where you left off.', and 'When you finish watching the video, next click on the Take Assessment link to take the quiz, which is 15 questions. You must get 100% to pass, but you can retake'.



Result Demonstration Report

2019 Dryland Cotton Variety Trial

Paul Minzenmayer Farm

Haley Kennedy, EA- IPM Runnels/Tom Green Counties

Marty Vahlenkamp, CEA-AG/NR Runnels County

Summary

Sixteen cotton varieties were evaluated under similar growing conditions to compare yield and fiber quality. DG 3402 B3XF, PX3B07 W3FE, and PHY 480 W3FE topped this test in Net Value (\$/acre) with \$109, \$108, and \$105, per acre respectively. Producers should keep in mind that these results can change under different field conditions, soil fertility, irrigation, and management practices.

Objective

Commercial cotton varieties require testing each year for determinations of consistency for both yield and fiber quality. Field tests allow for side by side comparisons between cotton varieties. Field testing varieties within a geographic area of production is important to provide local cotton producers with the latest information on new varieties.

Materials and Methods

Each cotton variety consisted of eight rows and was replicated one time. Varieties were individually harvested and weighed with a cotton stripper baler.

Planting Date: 6/8/2019

Previous Crop: Wheat

Planting Rate: 30,000 seeds/acre

Rows Planted: 8

Row Spacing: 36"

Irrigation: None

Fungicide: Topguard 6 oz/A @ planting

Herbicide: Prowl/Glyphosate

Harvest Aid: 4.6 oz/A Ginstar, 1 pt/A Prep

32 oz/A Gramoxone

Harvest Date: 10/4/2019

Results and Discussion

Table 1 contains the yield data for each of the sixteen cotton varieties evaluated. Fiber quality analysis was determined by the Texas Tech Fiber & Biopolymer Institute. Table 2 contains the HVI fiber quality parameters.

Table 1. Yield Data from Dryland Variety Trial, Paul Minzenmayer, Rowena, TX, 2019

Entry	Lint Turnout (%)	Seed Turnout (%)	Lint Yield (lbs/Acre)	Seed Yield (lbs/A)	Lint Loan Value (cents/lbs)	Lint Value+ (\$/A)	Gross Return (\$/A)	Net Return (\$/A)
DG 3402 B3XF	32.9	48.2	277	406	49.35	\$137	\$170	\$109
DG 3555 B2XF	31.5	46.3	237	348	50.30	\$119	\$147	\$95
DP 1820 B3XF	29.7	43.6	139	203	51.15	\$71	\$87	\$56
DP 1948 B3XF	31.2	43.6	241	337	51.10	\$123	\$152	\$98
DP 1845 B3XF	31.4	42.2	247	333	49.15	\$122	\$151	\$96
PHY 350 W3FE	30.3	45.7	218	328	51.10	\$111	\$137	\$88
PHY 480 W3FE	31.7	43.8	295	407	45.75	\$135	\$170	\$105
PX3B07 W3FE	34.3	43.0	284	356	47.40	\$135	\$168	\$108
PX5D28 W3FE	30.9	43.9	196	278	49.45	\$97	\$120	\$76
NG 3930 B3XF	32.7	45.8	220	309	48.80	\$107	\$134	\$86
NG 5711 B3XF	29.4	47.1	199	319	48.55	\$97	\$120	\$75
NG 4936 B3XF	30.4	47.3	228	354	51.20	\$117	\$144	\$92
FM 2574 GLT	37.4	43.5	214	249	50.85	\$109	\$134	\$90
FM 2398 GLTP	31.4	46.4	180	266	49.85	\$90	\$111	\$71
ST 5517 GLTP	30.3	48.9	197	317	48.80	\$96	\$119	\$75
ST 5707 B2XF	28.5	47.8	173	291	52.75	\$91	\$112	\$72

+Value for lint based on CCC loan value from grab samples and FBRI HVI results.

Table 2. HVI Fiber Quality Parameters from Dryland Trial, Paul Minzenmayer, Rowena, TX 2019

Entry	Micronaire	Length	Staple	Uniformity	Strength	Leaf	Color grade
	units	inches	32nds	%	g/tex	Grade	CG
DG 3402 B3XF	4.56	1.00	32	79.4	28.2	1	11
DG 3555 B3XF	4.03	1.02	33	79.7	30.3	3	12
DP 1820 B3XF	4.62	1.04	33	79.0	29.1	1	11
DP 1948 B3XF	4.37	1.04	33	79.2	30.3	3	11
DP 1845 B3XF	4.28	1.01	32	78.4	29.9	3	11
PHY 350 W3FE	4.40	1.02	33	79.3	28.7	1	11
PHY 480 W3FE	4.50	0.97	31	78.6	27.8	3	12
PX3B07 W3FE	4.44	0.97	31	77.5	26.9	3	11
PX5D28 W3FE	4.28	1.00	32	79.1	28.3	2	11
NG 3930 B3XF	4.41	0.99	32	77.6	26.5	2	11
NG 5711 B3XF	4.19	1.01	32	78.2	27.1	1	12
NG 4936 B3XF	4.14	1.04	33	79.2	27.7	1	11
FM 2574 GLT	4.82	1.02	33	79.2	27.3	3	11
FM 2398 GLTP	4.69	1.01	32	80.2	26.7	2	11
ST 5517 GLTP	4.45	1.01	32	77.5	28.9	2	11
ST 5707 B2XF	4.67	1.05	34	80.0	31.0	3	22

Conclusions

DG 3402 B3XF, PX3B07 W3FE, and PHY 480 W3FE topped this test in Net Value (\$/acre) with \$109, \$108, and \$105, per acre respectively. Greatest yields in pounds of lint/A was produced from PHY 480 W3FE, PX3B07 W3FE, and DG 3402 B3XF, with 295, 284, and 277, pounds of lint/A respectively.

Acknowledgements

Sincere appreciation is expressed to Paul Minzenmayer for establishing and maintaining the 2019 Runnels County dryland cotton variety test.

Thank you to the companies that provided seed and financial support, they include:

Nutrien who provided DG 3402 B3XF and DG 3555 B3XF

Deltapine who provided DP 1820 B3XF, DP 1948 B3XF, and DP 1845 B3XF

Phytogen who provided PHY 350 W3FE, PHY 480 W3FE, PX3B07 W3FE, and PX5D27 W3FE

Nexgen who provided NG 3930 B3XF, NG 5711 B3XF, and NG 4936 B3XF

BASF who provided FM 2574 GLT, FM 2398 GLTP, ST 5517 GLTP, and ST 5707 B2XF

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Result Demonstration Report

2019 Irrigated Cotton Variety Trial

Doug Wilde Farm

Haley Kennedy, EA- IPM Runnels/Tom Green Counties

Josh Blanek, CEA- AG/NR Tom Green County

Summary

Seventeen cotton varieties were evaluated under similar growing conditions to compare yield and fiber quality. Due to adverse growing conditions and extreme yield differences between varieties, only fiber quality data will be available. Producers should keep in mind that these results can change under different field conditions, soil fertility, irrigation, and management practices.

Objective

Commercial cotton varieties require testing each year for determinations of consistency for both yield and fiber quality. Field tests allow for side by side comparisons between cotton varieties. Field testing varieties within a geographic area of production is important to provide local cotton producers with the latest information on new varieties.

Materials and Methods

Each cotton variety consisted of twelve rows and was replicated one time. Varieties were individually harvested and weights were determined using a weigh wagon.

Planting Date: 5/27/2019

Previous Crop: Grain Sorghum

Planting Rate: 44,700 seeds/acre

Rows Planted: 12

Irrigation: Drip

Herbicide: 1 qt/A Caparol, 1.5 pt/A Direx
32 oz/A of 5lb Glyphosate

Insecticide: 2.8 oz/A Agrimek

Harvest Aid: 4 oz/A Ginstar, 20 oz/A Ethephon, 8 oz/A Finish
20 oz/A Parazone 3SL

Harvest Date: 11/4/2019

Results and Discussion

Table 1 contains the HVI fiber quality parameters. Fiber quality analysis was determined by the Texas Tech Fiber & Biopolymer Institute.

Table 1. HVI Fiber Quality Parameters from Irrigated Trial, Doug Wilde, Wall, TX 2019

Entry	Micronaire	Length	Staple	Uniformity	Strength	Leaf	Color Grade
	units	inches	32nds	%	g/tex	Grade	CG
CP 19XG9 B3XF	4.05	1.12	36	79.7	28.0	2	21
DP 1820 B3XF	4.69	1.03	33	78.5	28.7	1	11
DP 1948 B3XF	4.40	1.10	35	80.3	29.0	2	11
DP 1845 B3XF	4.42	1.03	33	77.9	28.4	3	21
NG 3930 B3XF	4.55	1.02	33	79.5	26.5	2	11
NG 5711 B3XF	4.56	1.05	34	79.6	27.9	1	11
NG 4936 B3XF	4.81	1.08	35	81.3	29.1	2	11
DG 3402 B3XF	4.92	1.07	34	80.6	29.3	1	11
DG 3555 B3XF	4.55	1.06	34	81.3	31.7	2	11
ST 5600 B2XF	5.27	1.05	34	80.1	29.7	3	21
ST 5471 GLTP	4.71	1.02	33	78.6	28.3	2	21
FM 2498 GLT	5.22	1.06	34	80.9	28.6	4	21
FM 2398 GLTP	5.00	1.12	36	81.2	29.2	2	21
PHY 480 W3FE	3.87	1.09	35	81.5	29.2	3	11
PHY 350 W3FE	4.25	1.11	36	81.1	29.7	2	21
PX3B07 W3FE	4.08	1.09	35	79.7	29.3	5	31
PXD28 W3FE	3.51	1.04	33	78.1	30.9	3	21

Conclusions

Since no yield data is available, no conclusions regarding yield parameters can be given.

Acknowledgements

Sincere appreciation is expressed to Doug Wilde for establishing and maintaining the 2019 Tom Green County irrigated cotton variety test.

Thank you to the companies that provided seed and financial support, they include:

Nutrien who provided DG 3402 B3XF and DG 3555 B3XF

Deltapine who provided DP 1820 B3XF, DP 1948 B3XF, and DP 1845 B3XF

Phytogen who provided PHY 350 W3FE, PHY 480 W3FE, PX3B07 W3FE, and PX5D27 W3FE

Nexgen who provided NG 3930 B3XF, NG 5711 B3XF, and NG 4936 B3XF

BASF who provided FM 2498 GLT, FM 2398 GLTP, ST 5600 B2XF, and ST 5471 GLTP

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