



San Patricio Agriculture

“Agriculture Affects Everyone”

SPECIAL POINTS OF INTEREST: January, 2018

Volume 7, Issue 1

- * January 11, 2018
Auxin Applicator Training
- * January 11, 2018
Field Crop Symposium
- * January 20 - 27, 2018
A&H Show

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Hello Again,

The clock is ticking on 2017, and what an unusual year it has been. In 2017, we had record breaking cotton crop, above average grain yields, a good calf crop, and Hurricane Harvey. I don't want to re-hash the damage and problems from the storm, but rather expand on how well our Ag Producers do their job when the weather conditions allow. Agriculture in general continues to adopt and adapt to new technology and science to produce more with less. Cattle prices have been decent, cotton prices fair, and grain prices soft but all in all a really good crop year. Hopefully 2018 brings another good crop, but we can do without a hurricane.

New technology brings new responsibilities and in 2018 anyone who applies Xtendimax® with VaporGrip® Technology, Fexapan Plus Vapor Grip® Technology and Engenia® herbicide must complete the Auxin specific training and receive a certificate before applying these products. Again, this not only encompasses the pesticide license holder but anyone applying these products under a pesticide license holder. A training for this requirement will be held in conjunction with the Field Crop Symposium on January 11, from 9:30am - 10:25am at the Texas A&M AgriLife Research and Extension Center in Corpus. This training will also serve as a Laws & Regs CEU. I have also included an Auxin Training Flyer as well.

As just stated the annual Field Crop Symposium is slated for January 11, 2018 from 8:00am to 2:00pm. We are expecting to be able to offer 5 TDA CEU's and 5 CCA CEU's. A participation fee of \$25 will be collected at the door and lunch will be provided. Pesticide license holders and handlers attending the Auxin specific training only, will not be assessed a fee. Please see attached agenda for more information regarding the symposium.

The San Patricio and Aransas A&H Show is only a month away. I hope each of you will have the opportunity to attend and support our area youth in their stock show endeavors. Please see attached show schedule for dates and times of the various events for the 2018 show.

Finally, Tis the season, and I hope everyone has a Merry Christmas and Happy New Year.

Till Next Year,

2017 Agronomic and Economic Evaluation of San Patricio County RACE Trial

By: Bobby R. McCool and Dr. Josh McGinty

Summary

This test was located on the Bobby Rieder Farm in West Sinton, Texas. At this location, ten cotton varieties were evaluated for yield and lint quality. Soil moisture conditions were good throughout the growing season, resulting in above average yields for all varieties included in the trial. The highest yielding cotton varieties were ST 4949 GLT, PHY 330 W3FE, PHY 312 WRF, CG 3885 B2XF, DP 1646 B2XF, FM 1953 GLTP, and DP 1725 B2XF with lint yields of 1306, 1301, 1290, 1275, 1237, and 1207 lb/acre respectively. Modules from this field trial were then followed through Eric Hartzendorf Gin to determine seed yield and lint discounts and premiums. When both lint and seed value were taken into account, PHY 312 WRF provided the greatest value per acre after seed and technology costs were subtracted (\$980 per acre)

Objective

To provide an economic comparison of San Patricio County RACE trial cotton varieties.

Materials and Methods

The evaluation was done on Raymondville clay with a 2-4% slope. It was planted on 3-20-17 on 38 inch row spacing, 2000 ft, by 6 rows replicated 3 times in a randomized complete block. The test was planted with a 1720 Max Emerge planter, at a seed rate of 39,600 seeds / acre. The test was fertilized with 100 lbs. / acre of nitrogen, 20 lbs. P₂O₅, 8 lbs. Sulfur. Glyphosate was used during the Spring and growing season. This cotton crop was grown in a no-till field and corn was the previous crop.

Plots were harvested into separate round cotton modules on 8-6-17 using a JD 7760 Picker, and modules were weighed on a Western Forage Systems portable truck scale. These modules were then transported to Eric Hartzendorf Gin for processing. At the gin, each variety (represented by a group of three round modules) was ginned separately. After ginning, seed weights per variety were recorded, along with the average loan value of bales produced for each variety (using a base loan value of \$0.4949 per pound). These discounts and premiums were then added to the base price to the producer (in this case, \$0.6949 per pound) to provide lint value per acre. Seed value per acre was calculated using a price of \$140 per ton. Lint value and seed value were combined to provide the gross value for each variety on a per acre basis. The seed and technology costs were obtained for each variety by using Plain's Cotton Grower's Seed Cost Comparison Worksheet (plainscotton.org/Seed/PCGseed17.xls) and subtracted from the gross value. No statistical analyses could be conducted on these data as replications were combined by variety. For statistical analyses of yield and fiber quality data, please refer to the 2017 San Patricio Replicated Agronomic Cotton Evaluation results.

Results and Discussion

A summary of these results are shown below in Table 1. In this table, varieties are ranked based on their gross value per acre minus seed and technology costs (far right-hand column).

2017 Agronomic and Economic Evaluation of San Patricio County RACE Trial Cont.

By: Bobby R. McCool and Dr. Josh McGinty

Table 1. Yield and economic comparison of San Patricio County RACE trial cotton varieties.

Variety	Lint Yield	Seed Yield	Lint Value	Lint Value*	Lint Value	Seed Value**	Gross Value	Seed/Tech Cost***	Gross less Seed & Tech
	lb/A		(c/lbs)		\$/A				
PHY 312 WRF	1290	1399	52.98	72.98	942	98	1039	59.11	980
DP 1646 B2XF	1264	1519	53.49	73.49	929	106	1035	68.89	967
PHY 330 W3FE	1301	1450	50.59	70.59	919	102	1020	65.10	955
FM 1953 GLTP	1237	1504	52.88	72.88	901	105	1007	64.88	942
ST 4949 GLT	1306	1493	47.43	67.43	880	104	985	63.11	922
CG 3885 B2XF	1275	1376	49.07	69.07	881	96	977	65.06	912
DP 1725 B2XF	1207	1137	49.27	69.27	836	80	915	66.55	849
ST 4848 GLT	1161	1353	50.28	70.28	816	95	911	63.11	847
NG 5007 B2XF	1159	1307	50.40	70.40	816	91	907	62.04	845
DG 3526 B2XF	1146	1408	48.28	68.28	783	99	881	66.65	814
Mean	1235	1395	50.47	70.47	870	98	968	64	903

*assuming a base price of \$0.6949/lb

**seed at \$140/ton

***seed cost and technology fees for 39,000 seed/A estimated using Plains Cotton Grower's Seed Cost Comparison Worksheet 2017

Conclusions

When seed and technology costs were taken into account, PHY 312 WRF provided the greatest gross value (\$980 per acre), followed by DP 1646 B2XF, PHY 330 W3FE, FM 1953 GLTP, ST 4949 GLT, and CG 3885 B2XF (\$967, \$955, \$942, \$922, and \$912 per acre, respectively). While statistical analyses could not be conducted on these data, several numerical differences among varieties were observed. For a more detailed analysis of yield and fiber quality, please refer to the 2017 San Patricio County Replicated Agronomic Cotton Evaluation results.

Acknowledgements

I would like to take this opportunity to Thank Bobby Rieder Farms for the use of their resources, management and support of AgriLife Extension and our County endeavors. To Danny Gonzales of Monsanto for supplying the bale scale, to AgriLife Specialists, Dr. Gaylon Morgan and Dr. Josh McGinty, and to Hartzendorf Gin and Chance Love for assistance with data collection.

Beef Cattle Browsing

Dr. Stephen Hammack, Professor & Extension Beef Cattle Specialist Emeritus

INHERITANCE OF HORNS

Cattle can be horned or not, i.e. are polled. Inheritance of these conditions is controlled by a single gene. Every animal has two alleles (possible form) at each gene. A parent randomly passes one of the two alleles to a calf. The polled allele is genetically dominant and is usually designated as **P**. The horned allele is genetically recessive and is usually designated as **p**. Dominant alleles cover up the phenotypic expression of recessive alleles. If both alleles inherited from both parents are the same, the animal is termed homozygous. If the alleles are different the animal is heterozygous.

Homozygous polled parents (**PP**) always produce polled calves. If the other parent also is **PP** then the calf is **PP**. If the other parent is horned (**pp**) the offspring will all be phenotypically polled but all will be heterozygous (**Pp**), also sometimes called a “carrier” of the recessive allele. If a **PP** parent is mated to a **Pp**, the probability in offspring, on average, is 1/2 **PP** and 1/2 **Pp**; all offspring would be polled but 1/2 could be carriers of the horned allele. If two **Pp** parents are mated the probability in offspring is 1/4 **PP**, 1/2 **Pp**, and 1/4 **pp**; even though both parents are polled, 1/4 of their calves could be horned and 1/2 could be carriers. But there can be complications in this simple inheritance.

Scurs are horn-like tissue attached to the skin, not to the skull as with horns, and can be very small to almost as big as small horns. Inheritance of scurs is not completely understood. Regardless, scurs can occur only in **Pp** (heterozygous) cattle. Also, scurs occur more frequently in males than in females. Another gene has been speculated to interact with the horned/polled gene in *Bos indicus* cattle, called the African horn gene, but there is no research verifying its existence.

Over the years, a number of formerly horned or mostly horned breeds have developed interest in creating polled cattle. With the advent of genotyping through DNA samples, identification of the polled/horned gene may be done. At this point, the cost through breed associations of such a test is in the area of \$30-35; if coupled with other genomic tests this cost is usually reduced to around \$20. Some seedstock breeders provide this information to prospective buyers.

<http://articles.extension.org/pages/73401/the-genetics-of-horned-polled-and-scurred-cattle>

BQA TIP-OF-THE-MONTH: RECOMMENDED TYPE AND LOCATION OF INJECTIONS

Always follow product labels when giving injections. If the label allows for either intramuscular or subcutaneous injection, then the subcutaneous route should be used regardless of animal age. If the label requires intramuscular use, give all intramuscular injections in the neck. When given in the muscle, all products have the potential to create injection site lesions and impact the tenderness of meat for a few inches around the injection. Give subcutaneous injections in the neck, dewlap, or elbow pocket. When given properly, any knots that result from subcutaneous injections will not impact meat quality and will be removed with the hide.

(Composed by Jason Banta, Ph. D., jpbanta@ag.tamu.edu, Texas A&M AgriLife Extension Beef Quality Assurance Coordinator)

AUXIN APPLICATOR TRAINING REQUIRED



Attention Pesticide Applicators:

Revised labels for XtendiMax® with VaporGrip® Technology, Fexapan Plus VaporGrip® Technology, and Engenia® herbicide were approved and released by the EPA and the corresponding companies, Monsanto, DuPont and BASF, respectively.

New restrictions include a provision requiring annual mandatory auxin-specific training for every person that will be applying the product to any crop.

The mandatory auxin-specific training for all applicators is a new change that applies to not only those with an applicators license but also to those making applications under someone else's license. This requires awareness for all applicators to ensure their ability to use these herbicides in 2018 and in subsequent years.

What: Field Crop Symposium

When: January 11, 2018; 9:30 - 10:25 am Auxin Training Only or 8:00 - 2:00 pm for Full Program

Where: 10345 State Highway 44
Corpus Christi, TX. 78406

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Field Crop Symposium

Texas A&M Research and Extension Center
10345 Highway 44
Corpus Christi, TX

January 11, 2018

TENTATIVE AGENDA

8:00 – 8:30 am	Registration, Coffee, and Donuts
8:30 – 8:35 am	Welcome and Introduction
8:35 – 9:25 am	Review of Bollworm Situation in Bt Cotton and Management Decisions Dr. Robert Bowling, Texas A&M AgriLife Extension, Corpus Christi
9:25 – 9:30 am	Break
9:30 – 10:25 am	Auxin Applicator Training Dr. Josh McGinty, Texas A&M AgriLife Extension, Corpus Christi
10:25 – 10:35 am	Break
10:35 – 11:25 am	Update on Herbicide Technologies Dr. Josh McGinty, Texas A&M AgriLife Extension, Corpus Christi
11:25 – 12:15 pm	Catered Lunch
12:15 – 1:05 am	Tillage Systems Research Update Jamie Foster, Texas A&M AgriLife Research, Corpus Christi
1:05 – 1:55 pm	Potential for Variable Rate Nutrient Management Dr. Ronnie Schnell, Texas A&M AgriLife Extension, College Station
1:55 – 2:05 pm	Review and Evaluation of Program
2:05 pm	Issue CEU Certificates and Adjourn

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JANUARY
11



TEXAS A&M
AGRI LIFE
EXTENSION

FIELD CROP SYMPOSIUM

Texas A&M AgriLife Research and Extension Center
8am - 2pm

This program will provide updates to Coastal Bend Growers on Weed, Insect, and Fertility Management considerations for the 2018 growing season. It will also address the mandatory Auxin Training required of those who wish to apply new technology Auxin Herbicides in 2018. There will be 5 CEUs provided to those in attendance. Cost of participation is \$25.

RSVP REQUIRED TO: HORSACK@AG.TAMU.EDU OR 361.767.5223

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**SCHEDULE OF EVENTS 2018
SAN PATRICIO-ARANSAS COUNTIES A&H SHOW**



5:00 p.m.	<u>SATURDAY, JANUARY 13</u> Queen's Contest, Sinton High School
4:00 p.m. to 6:00 p.m.	<u>THURSDAY, JANUARY 18</u> Pen of 2 Heifers, Check In
Afternoon TBA	<u>FRIDAY, JANUARY 19</u> Pen of Two Heifer Show, Judging
9:00 a.m. 1:00 p.m. 2:00 p.m.	<u>SATURDAY, JANUARY 20</u> Pen of Two Heifer, Interviews Pen of Two Heifer, Awards Pen of Two Heifer, Auction
8:00 a.m. Check in 9:00 a.m.	<u>SUNDAY, JANUARY 21</u> Check in Horses Horse Show
4:00 p.m. to 6:00 pm 5:00 p.m. to 7:00 p.m.	<u>MONDAY, JANUARY 22</u> Homemaking Adult: Check in Cultural Arts Homemaking Youth: Check in Textile, Clothing, Handicraft, Fine Art and Photography for Judging
8:00 a.m. to 9:00 a.m. 10:00 a.m. 11:00 am to 12:00 noon 5:00 p.m. to 10:00 p.m. 5:00 p.m. to 8:00 p.m.	<u>TUESDAY, JANUARY 23</u> Homemaking Youth: Check in Food entries Judging of all Homemaking Division entries (closed to public) Homemaking Adult: Check in Food entries Bring in Hogs Check in Rabbit Entries
8:00 a.m. to 12:00 noon 8:00 a.m. to 10:00 a.m. 8:00 a.m. to 12:00 noon 8:30 a.m. 11:00 am 1:00 p.m. to 3:00 p.m. 2:00 p.m. or immediately Following Poultry 3:00 p.m. to 5:00 p.m. 3:00 p.m. to 6:00 p.m. 5:00 p.m. to 7:00 p.m.	<u>WEDNESDAY, JANUARY 24</u> Weigh in and Classify Market Hogs Check in Poultry Check in Steers, Breeding Beef, Lambs, Goats Special Show Judging of Poultry Weigh in and sift Meat Goats Judging of Rabbits Weigh in and Classify Market Steers and Breeding Beef Weigh in and Classify Market Lambs Check in Ag Mech Projects
9:00 a.m. to 5:00 p.m. 8:00 a.m.	<u>THURSDAY, JANUARY 25</u> Homemaking Building open to Public Judging of Market Hogs Division I - Duroc Division II - Hampshire Division III - Crosses Division IV - Yorkshire Division V - Other Purebred Breeds SELECTION OF GRAND AND RESERVE CHAMPIONS Judging of Market Lambs Division I - Predominately Southdown or Shropshire Division II - Fine Wool Division III - Fine Wool Cross Division IV - Medium Wool SELECTION OF GRAND AND RESERVE CHAMPION
7:00 p.m.	
8:00 a.m. 8:00 a.m.	<u>FRIDAY JANUARY 26</u> Judging of Ag Mech Projects Judging of Meat Goats SELECTION OF GRAND AND RESERVE CHAMPIONS "Take Home" Hogs
Under Supervision of Chairman 9:00 a.m. to 6:00 p.m. 1:30 pm 2:00 p.m.	Homemaking Building open to Public Judging of Breeding Beef Judging of Market Steers Division I - British Division II - American Division III - Exotic SELECTION OF GRAND AND RESERVE CHAMPIONS "All Around" Senior Showmanship Contest Ag Mechanics Awards
4:00 p.m. 5:30 p.m.	
8:30 a.m. 9:00 a.m. to 3:00 p.m. 8:00 a.m. until 10:00 a.m. 10:00 a.m. to 6:00 p.m. 12:30 p.m. 1:00 p.m. 5:00 to 6:00 p.m. After Auction Sale	<u>SATURDAY JANUARY 27</u> Livestock Judging Contest Homemaking Building open to Public Check out "Take Home" Steers, Lambs, Goats, Poultry, Rabbits not in Auction Sale Ag Mechanics Silent Auction Parade of Champions (Homemaking Division, Horse Division) Auction Sale Homemaking Division Check Out by 4-H Club Mangers, FCCLA or FFA teachers Dance

TEXAS A&M AGRI LIFE EXTENSION

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Individuals with disabilities who require an auxiliary aid, service, or accommodation in order to participate in any Extension event are encouraged to contact their County Extension Office at 361-587-3400 at least one week in advance of the program in order for proper arrangements to be made.

In the event of a name, address or phone number change please contact the office at:
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