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General Area Crop Progress

The warm and relatively dry fall has continued. The weather has helped mature our late planted cotton and soybeans. Some rain events have facilitated field preparation for wheat planting. There has also been some rebound from summer weeds and a flush of fall/winter weeds. For the coming wheat crop it is important to scout or control Johnson grass and grain sorghum for greenbugs (aphids), that can migrate hosts and infest the wheat when it emerges. Tillage or a herbicide burndown prior to planting will help to control fall weeds. Destroying the “green bridge” will help with a number of winter cereal pests. Enclosed are Cotton Harvest Aid trial results, and the 2021 Wheat Herbicide for Annual Ryegrass Trial Results.



Figure 1. Two rows of defoliated cotton 14 days after treatment D.Drake 2021

Figure 2. Johnson grass and emerged fall weeds in Oct. 2021 D.Drake

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Save the Date for **The AG Technology Conference on Thurs. Dec. 9th 2021**
Texas A&M University Commerce

- 5 Pesticide Applicator CEU's including L&R, IPM, and Drift Minimization
- 6.5 Certified Crop Advisor CEU's

Topics: Controlling Annual Ryegrass in Crops
UAV Herbicide Application Technology
Soil Fertility
Drift Minimization
Pesticide Laws and Regulations
Crop Protection Industry Updates

Registrations forms will be mailed shortly or request more information from
drdrake@ag.tamu.edu or 903-658-3295

2021 Hunt County Cotton Harvest Aid Trial

Twelve commercial treatments were applied to 3 different cotton fields on Oct. 7, 2021. Each field was a different variety and condition. In general, all the fields defoliated easily and regrowth has been moderate. The two later planted fields were not quite at 60% open boll and had not begun to self defoliate to the same extent as the earlier planted field. These three fields were typical of many of our fields yet to be harvested with many being late planted. The application was made to take advantage of warmer weather, especially with treatments including Thidiazuron (Dropp) not in a premix with Diruon (Ginstar). The Figures and Tables below show the weather conditions and the average response of the three fields. There was also an evaluation of two boll opener treatments (numbers 8 &9) that did not include defoliants. Those results are provided by field, below in Table 1.



Figure 1. Mature cotton Oct. 2021. Left row treated with 24 fl oz of Finish + NIS 7d after treatment



Figure 2. Two center rows of defoliated Cotton 14d after treatment with 4 fl oz of Ginstar + Ethephon and NIS. Oct 2021



Figure 3. A row defoliated Cotton 7d after treatment with 16 fl oz of Folex + Ethephon and NIS. Oct. 2021

Table 1. Average cotton harvest aid ratings of 12 treatments to 3 different fields in Oct. 2021. Ratings made 7 and 14 days after treatment (dat) including: % defoliation, % leaf dessication, % green leaf, % leaf regrowth (ReGr), % Terminal regrowth, % whole plant regrowth, and % open bolls when untreated, treated with Ethephon (Prep) or Finish.

Field	% Def	% Des	% GL	ReGr	% Def	% Des	% GL	% Term	% Plt	% open	% open	% open
	7 dat	7 dat	7 dat	7 dat	14 dat	14 dat	14 dat	RG 14d	RG 14d	Untrt	Prep	Finish
Mid Planted Aggie Maroon	79	13	9	18	84	10	6	38	16	64	79	81
Late Planted DP 1646 B2XF	84	7	9	26	89	6	5	77	44	43	61	59
Late Planted PHY 332 W3FE	40	30	30	7	56	19	25	15	25	50	63	75

Result Table 2, shows ratings averaged over the three fields with statistical analysis. There were some small field by treatment interactions but all products performed similarly in all three fields. Treatment number 11, 21.3 fl oz of Gramoxone did control regrowth but also resulted in sticking half of the leaves to the plant. In a more humid Northeast Texas climate it would be hard to harvest this crop without unacceptable amounts of leaf in the fiber. Other treatments that had lower amounts of regrowth at the plant terminal or at lower nodes included Ginstar, Dropp, and Sharpen. This is also important for Northeast Texas with frequent fall rains.

Application Information	
Application Dates:	10/7/2021
Cooperator:	CCRI
Varieties:	Aggie Maroon, DP 1646, PHY 332
Time:	12-1:30 pm
Temp (°F):	84° F
% RH:	56%
Wind Speed (mph) & Direction:	6-8 mph / SW
Row Spacing("):	38"
Plot width (rows)	2 treated 1 skipped
Plot length	Replicated 25 feet
% Open	60%
Plant Height (mean inches)	24-30"
Sprayer Information	Hand boom
	15 gpa / 80015 Turbo Teejet
	32 psi

Terms

% GL: Percent of total leaves that are still green. Doesn't include regrowth

% Des Lf: Percent of herbicide desiccated leaves still attached to the plant

Note: %DEF, %DES, and % GL all sum to 100

Regrowth: Rating from 1-100% of the leaves that have grown from all nodes in response to defoliation treatments.

For more information see

<http://sanangelo.tamu.edu/extension/agronomy/crop-information/>

http://lubbock.tamu.edu/files/2015/09/2015_Harvest_Aid_Guide.pdf

<http://www.cdms.net/Label-Database>

Daily Temperatures

Date	Low	High	GDD 60	Rain (in)
10/7/2021	56	90	13.0	
10/8/2021	66	91	18.5	
10/9/2021	66	91	18.5	
10/10/2021	60	89	14.5	0.4
10/11/2021	56	80	8.0	
10/12/2021	62	79	10.5	0.3
10/13/2021	65	85	15.0	0.3
10/14/2021	48	78	3.0	
10/15/2021	44	72	0.0	
10/16/2021	44	74	0.0	
10/17/2021	52	72	2.0	
10/18/2021	58	76	7.0	
10/19/2021	55	78	6.5	
10/20/2021	60	81	10.5	
10/21/2021	52	82	7.0	
	total		134.0	1.6

21-01. 2020-21 Herbicides for the management of ACCase Resistant Ryegrass in Soft Red Winter Wheat at Fairlie, TX

Table 1		MEAN Comparison Summary				
TREATMENTS†		Initial Ryegrass Control ¹	Second Ryegrass Control	Final Ryegrass Control	Yield‡	Test Weight
		1-10 1/5/2021	1-10 3/3/2021	1-10 4/28/2021	bu/ac	lb/bu
Zidua SC @ 3.2 fl.oz/A (<i>Delayed PRE</i>)		9.9 a	9.6 a	8.9 a	48.1 a	46.4 a
Anthem Flex 4 SE @ 3.5 fl.oz/A (<i>Delayed PRE</i>)		9.6 ab	9.4 a	8.6 a	46.5 a	46.2 a
Axial Bold @ 15.0 fl.oz/A + Zidua SC @ 3.2 fl.oz/A (<i>Early POST</i>)		3.3 i	9.6 a	8.6 a	45.7 a	46.1 a
Axial Bold @ 15.0 fl.oz/A + Anthem Flex 4 SE @ 3.5 fl.oz/A (<i>Early POST</i>)		4.3 h	9.5 a	8.4 a	44.7 ab	46.6 a
Anthem Flex 4 SE @ 3.5 fl.oz/A + Metribuzin 75 DF @ 2.0 oz/A (<i>Early POST</i>)		7.8 f	9.3 a	8.4 a	44.6 ab	47.0 a
Zidua SC @ 3.2 fl.oz/A (<i>Delayed PRE</i>) fb Axial Bold @ 15.0 fl.oz/A (<i>Early POST</i>)		9.5 ab	9.1 a	7.9 a	43.8 ab	45.7 a
Axiom 68 DF @ 6.0 oz/A (<i>Early POST</i>) fb Axial Bold @ 15.0 fl.oz/A (<i>Mid POST</i>)		5.8 g	8.1 b	6.5 b	42.4 abc	46.6 a
Zidua SC @ 3.2 fl.oz/A + Metribuzin 75 DF @ 2.0 oz/A (<i>Early POST</i>)		7.9 ef	9.5 a	8.5 a	41.8 abc	46.9 a
Anthem Flex 4 SE @ 3.5 fl.oz/A (<i>PRE</i>)		9.6 ab	9.0 a	8.1 a	41.5 abc	45.5 a
Anthem Flex 4 SE @ 3.5 fl.oz/A + Metribuzin 75 DF @ 2.0 oz/A + Axial Bold @ 15.0 fl.oz/A (<i>Early POST</i>)		8.5 de	9.5 a	8.5 a	40.4 abc	46.5 a
Axiom 68 DF @ 8.0 oz/A (<i>PRE</i>) fb Axial Bold @ 15.0 fl.oz/A (<i>Early POST</i>)		9.1 bcd	8.4 b	6.3 b	40.1 abc	45.6 a
Zidua SC @ 3.2 fl.oz/A + Metribuzin 75 DF @ 2.0 oz/A + Axial Bold @ 15.0 fl.oz/A (<i>Early POST</i>)		8.8 cd	9.4 a	8.8 a	39.1 abc	45.4 a
Axial Bold @ 15.0 fl.oz/A + Axiom 68 DF @ 8.0 oz/A (<i>Early POST</i>)		9.0 bcd	9.5 a	8.3 a	34.1 bc	45.1 a
Amber 75 WDG @ 0.56 oz/A + Metribuzin 75 DF @ 3.0 oz/A (<i>PRE</i>) fb Axial Bold @ 15.0 fl.oz/A + Metribuzin 75 DF @ 3.0 oz/A (<i>Early POST</i>)		9.4 abc	8.1 b	3.8 c	31.9 c	34.2 b
Amber 75 WDG @ 0.56 oz/A + Metribuzin 75 DF @ 3.0 oz/A (<i>PRE</i>) fb Axial Bold @ 15.0 fl.oz/A (<i>Early POST</i>)		5.5 g	2.3 c	1.8 d	13.2 d	0.0 c
Axial Bold @ 15.0 fl.oz/A (<i>Early POST</i>)		2.8 i	1.0 d	1.3 d	8.5 d	0.0 c
Axial Bold @ 15.0 fl.oz/A (<i>Delayed PRE</i>) fb Axiom 68 DF @ 8.0 oz/A (<i>Early POST</i>)		2.0 j	1.0 d	1.5 d	7.4 d	0.0 c
Untreated Check		1.0 k	1.0 d	1.0 d	3.1 d	0.0 c
LSD (P = .05)		0.74	0.62	1.11	10.86	7.72
CV (%)		7.61	5.89	12.27	22.3	15.44
GRAND MEAN		6.86	7.40	6.38	34.28	35.21

†Ranked according to Yield

‡Yield Adjusted to 13% Standard Moisture

Date Planted: November 20, 2020

Date Harvested: June 29, 2021

VARIETY: Dyna-Gro 9811

*Rating NOTE: Mid POST Treatment had not been applied at initial and second rating for control assessment

Ryegrass Control Rating Scale:

1 – No Control

10 – 100% Control

Application data*PRE* – November 20, 2020; WIND: 4-6 mph SE, TEMP: 73°F, RH: 61% @ 4:30 – 4:45 pm; Soil damp, good moisture; Sunshine, no dew*Delayed PRE* – November 27, 2020; WIND: 6-8 mph NE, TEMP: 61°F, RH: 68% @ 11:00 – 11:30 am; cotyledon @ ½"-¾"; Soil damp, good moisture; Sunshine, no dew*Early POST* – December 17, 2020; WIND: 1-3 mph SE, TEMP: 46°F, RH: 57% @ 4:45 – 5:30 pm; Wheat @ 2-3 leaf, Ryegrass @ 1-2 leaf; Soil wet; Sunshine, no dew*Mid POST* – March 3, 2021; WIND: 8 mph SE, TEMP: 65°F, RH: 36% @ 2:45 – 2:50 pm; Wheat and Ryegrass @ 3-4 tillers, 3-5" tall; Soil wet, sunshine, no dew

PESTICIDE APPLICATOR CEU TRAINING

Thursday, November 18th, 2021

Registration: 11:00 am

Program: 12:00 pm

Cost: \$25 per person

Rockwall County Courthouse

1111 E Yellow Jacket Lane

Rockwall, TX 75087

- **PESTICIDE NUMBER REQUIRED AT REGISTRATION**
- **PARTICIPANTS ARRIVING AFTER 12:00 pm MAY STAY FOR PROGRAM BUT WILL NOT RECEIVE CEU HOURS**

5 CEU hours for current TDA Private, Non-commercial,
& Commercial Applicators and CCA Licensees
(pending approval)

SPEAKERS AND TOPICS:

- 12:00-1:00 pm **1 IPM Requested: Brush Control: an IPM Approach - Chase Brooks, CEA-Ag Collin County (1hr General)**
Methods of managing brush using IPM principles of scouting, monitoring, recognizing damage, pest identification, action thresholds, and appropriate/low impact treatment. Cultural, Mechanical, chemical and biological treatment methods for various brush species.
- 1:00-2:00 pm **1 General Requested: Integrating Prescribed Fire with Pesticide Applications for Weed Management - Chase Brooks, CEA-Ag Collin County**
Role of prescribed fire for range & pasture management weed control, successional ecology as a treatment tool, and management implications.
- 2 :00-3 :00 pm **1 General Requested : Pesticide Mode of Action in Clay Soils - Brad Voss, CEA-Hort, Collin County**
How pesticides cause physiological disruption in clay soil to affect the target pest. The importance of pH and soil biology in pesticide use and efficacy and understanding variables in clay soils.
- 3:00-4:00 pm **1 Laws and Regulations Requested : Pesticide Laws and Regulations – Brad Voss, CEA-Hort. Collin County**
Discussion of laws and regulations associated with pesticide use including labels and label comprehension, local and state regulations, and re-entry intervals and associated laws.
- 4:00-5:00 pm **1 General Requested : Effects of Pesticides on Bees and Other Pollinators – Janet Rowe, Rockwall Master Gardener**
Biology and behavior of pollinated including life cycle. Pests and diseases of pollinators. Systemic pesticide use, topical/foiar pesticide use, and encapsulated pesticides and their effects on pollinators. Time to lessen effects on pollinators.

For more information, call Hunt County Extension at 903-455-9885 or Rockwall County Extension at 972.204.7660.

2021 AG TECHNOLOGY CONFERENCE

DECEMBER 9, 2021 | TEXAS A&M UNIVERSITY-COMMERCE

*Presented by Texas A&M AgriLife Extension, Texas A&M University-Commerce,
Cereal Crops Research Incorporated and the Agribusiness Industry*

Good Food, An Excellent Program & Five CEUs

Where: Rayburn Student Center on the campus of Texas A&M University-Commerce
When: December 9, 2021
Hosts: Texas A&M AgriLife Extension The Agribusiness Industry
Texas A&M University-Commerce Cereal Crops Research Incorporated

PROGRAM

8:00 - 9:15 AM **Registration and Visit with Suppliers/Exhibitors**

Morning Section: **Presiding – Mr. Ben Scholz, President, Cereal Crops Research Incorporated**

9:15 AM **Welcome to Texas A&M University-Commerce**
*Dr. Randy Harp, Dean and Professor, College of Agricultural Sciences and
Natural Resources, Texas A&M University-Commerce*

9:20 – 10:10 AM **Fertility Management Practices for Maximum Return on Crop Protection Products**
Dr. Jake Mowrer, Extension Specialist, Texas A&M AgriLife Extension

10:10 – 11:00 AM **Pesticide Laws and Regulations**
Dr. Matt Matoka, Extension Specialist, Pesticide Safety Education, Texas A&M AgriLife Extension

11:00 AM – 12:00 PM **UAV's and New Technologies in Aerial Herbicide Application**
Mr. Mathew Kutugata and Mr. Bishwa Sapkota, Ph.D. Students, Texas A&M University

12:00 – 1:00 PM **Lunch - Conference Rooms A & B (overflow seating available in Traditions Room)**

Afternoon Section: **Presiding – Dr. David Drake, Integrated Pest Management Agent,
Texas A&M AgriLife Extension**

1:00 – 2:00 PM **Drift Minimization**
Dr. Scott Nolte, State Extension Weed Specialist, Texas A&M AgriLife Extension

2:00 – 3:00 PM **IPM for Control of Annual Ryegrass in Crops**
Dr. Ronnie Schnell, Corn & Sorghum Extension Specialist, Texas A&M AgriLife Extension

3:00 PM – 4:30 PM **Industry Update: New & Current Pesticide Technology**
*Dr. Greg Steele, Technology Development Rep, Bayer CropScience
Dr. Sam Rushton, Technical Service Manager, FMC Agricultural Solutions
Dr. John Gordy, R&D Scientist, Syngenta Crop Protection
Dr. Adam Hixson, Technical Service Representative, BASF Corporation
Dr. Spencer Samuelson, Integrated Field Scientist, Corteva*

The registration fee until November 30 is \$40.00 per person and lunch is included. The late registration fee will be \$50.00. Make your check payable to CCRI and send it along with your completed registration form to:

REGISTRATION FORM

Name: _____

Address: _____
STREET CITY STATE ZIP

Phone: _____ Email: _____

Type of applicator: Private Non-Commercial Commercial Certified Crop Advisor

Please mail completed registration form and check payable to CCRI for \$40.00 (\$50.00 after November 30) to:
Ag Technology Conference, Texas A&M University-Commerce, Commerce, Texas 75429.

TRINITY VALLEY PESTICIDE CONFERENCE

MABANK FIRE DEPARTMENT
111 E. MASON
MABANK, TEXAS 75147
FRIDAY—DECEMBER 17, 2021

TEXAS A&M
AGRILIFE
EXTENSION

**\$35 Per
Person**

6 CEU's
(1 IPM-1 L&R-
1 Drift and
3 General)

8:15 A.M. Registration

9:00 A.M. **Laws and Regulations Update**
*Clint Perkins-County Extension Agent-AG/NR
Smith County*

10:00 A.M. **Prescribed Fire Benefits to Wildlife Habitat**
Heidi Bailey—Texas Parks and Wildlife Biologist

11:00 A.M. **Beef Cattle External Parasite Control Strategies**
*Dr. Jason Cleere—Associate Professor and Extension
Beef Cattle Specialist*

12:00 P.M. **Lunch** -

1:00 **Prevention and Treatment of Tree Diseases**
*Jason Ellis—Texas A&M Forest Service—
District Forester*

2:00 **It's Not Just 'Soap'; Spray Adjuvants - What they Are and
How they Work -**
*Steve Thurman, President, Blue Norther
Investments, LLC - Agri-Consulting Practice*

3:00 **Product Update and Information on Ongoing Herbicide
Trials**
Colton Spencer—Range and Pasture Specialist -Corteva



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Van Zandt, Henderson, and Kaufman**

Please Pre-Register before Friday, December 10th. Pre-Registration form at the end of this flyer.

Van Zandt: 903-567-4149 Kaufman 469-376-4520 Henderson 903-675-6130

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*The Texas A&M University System, U.S. Department of Agriculture, and the County Commissioners Courts Cooperating.
If you need auxiliary aids to attend this or any Extension Program-please contact the Extension office at 903-567-4149 one week prior to event.*

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*Phone: 903-468-3295
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Calendar

Hunt/Rockwall CEU Training November 18, 2021

Delta Co. Fall Beef Seminar—Cooper November 18, 2021

Texas Plant Protection Conference-Bryan December 7 & 8, 2021

<http://www.texasplantprotection.com/>

Ag. Technology Conference-Commerce December 9, 2021

Trinity Valley Pesticide Conference—Mabank December 17, 2021

For information on COVID-19

<https://agrilifeextension.tamu.edu/coronavirus/>

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