North East Texas IPM (Integrated Pest Management)

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Vol. 4 Issue 8

TEXAS A&M AGRILIFE EXTENSION

Inside this issue:

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General Area Crop Progress

All of the **Cotton** has been harvested with dryland yields stretching from half a bale to almost 2 bales in fields with deep soils and timely rainfall. The area average probably approaches 700 pounds per acre.

Winter wheat has been planted with most of it emerged. There were two major planting windows with rains through out causing delays and some fields were replanted. Weeds are abundant due to frequent rains and wet conditions. Annual ryegrass is prevalent in wheat and fallow fields. For control in emerged wheat several herbicide options have been tested in our program over the past decade. The trials were conducted on SU or ALS, Group 2: and ACC, Group 1; resistant ryegrass. This means the common and older wheat herbicides: Amber, Glean, Osprey, Hoelon, and Axial no longer provide satisfactory ryegrass control. Herbicide resistant ryegrass is prevalent in area fields. Our testing includes different products with other modes of action or mixtures of modes of action. Using Anthem Flex or Zidua, with the active ingredient pyroxasulfone, a Group 15 product or Axiom, a mixture of Flufenacet: a Group 15 and Metribuzin; a Group 5 or Metribuzin as a tank mix has provided good to excellent control of resistant annual ryegrass. Many of these work better as pre-emergent or delayed pre-emergent but can still work as early post-emergent treatments. The Group 15 products prevent shoot elongation so as a postemergence treatment they need to be mixed with other modes of action to control emerged ryegrass. Table 1. shows some mixtures that have provided good control in emerged wheat.

Table 1. Post emergence treatments that have achieved 80% or better control of ACC and ALS resistant annual ryegrass in wheat conducted at Commerce, TX 2017-2020.

Anthem Flex @ 3.5 fl oz + Metribuzin @ 1.5 - 2 .0 oz + Axial Bold @ 15 fl oz **or** Axial XL @ 16.4 fl oz

Zidua @ 3.2 fl oz + Metribuzin @ 1.5 - 2 .0 oz + Axial Bold @ 15 fl oz **or** Axial XL @ 16.4 fl oz

Axiom @ 6.0 oz + Zidua @ 3.2 fl oz **or** Anthem Flex @ 3.5 fl oz

Metribuzin @ 2.0 oz + Zidua @ 3.2 fl oz **or** Anthem Flex @ 3.5 fl oz

Axiom @ 6.0 oz + Zidua @ 3.2 fl oz **or** Anthem Flex @ 3.5 fl oz **followed by** Axial XL or Axial Bold

Metribuzin @ 2.0 oz + Zidua @ 3.2 fl oz **or** Anthem Flex @ 3.5 fl oz **followed by** Axial XL or Axial Bold

Axiom @ 6.0 oz **followed by** Axial XL **or** Axial Bold

Always read and follow label directions on mixing and applying all products. Also note that some wheat varieties may be susceptible to damage from Metribuzin. Finally we have observed some wheat stunting or injury from the 3 way mix of Pyroxasulfone, Metribuzin, and Pinoxaden (Axial).

Enclosed are results from the **Soybean Variety Trial** and a **Corn Fertility Trial** .

December 8-10, 2020 is the **VIRTUAL** Texas Plant Protection Conference. We have partnered with this conference instead of the hosting the Annual Agriculture Technology Conference in Commerce at TAMUC.

The Conference Schedule follows in the newsletter. Online Registration is available at http://www.texasplantprotection.com/registration.html

If the entire program is attended there are a possible 10 Pesticide Applicator CEUS and 12 Certified Crop Advisor CEUS available. http://www.texasplantprotection.com/ceus.html has a CEU break down. It also include the annual **AUXIN SPECIFIC** training on Wednesday needed to apply dicamba and 2,4-D to Extend or Enlist crops.

For more information the association website is http://www.texasplantprotection.com

32TH ANNUAL
TEXAS PLANT PROTECTION CONFERENCE

"Resilient Agriculture: Healthy Farms for a Healthy Future"

Tuesday, December 8, 2020

9:30 am – 12:00 noon---------- **General Session #1**

Moderator: **Adam Hixson, TPPA President**

9:30 - 9:45 am **Welcome & Conference Introduction – *Adam Hixson, TPPA President***

9:45 – 10:00 am **"Welcome"- *Dr. Jeff Hyde, Texas A & M AgriLife Extension Service, Director***

10:00 – 10:30 am **1 Rural Broadband Status and its Impact on Precision Ag** – *Dr. Alex Thomasson, Department Head, Agricultural and Biological Engineering, Mississippi State University*

10:30 – 11:00 am **2 Soil Health -***Dr. Kelsey L.H. Greub, Project Scientist, Soil Health Institute.*

11:00 – 11:30 am **3 Update on Hemp in Texas** - *Dr. Calvin Trostle, Texas A & M AgriLife Extension Service, Statewide Hemp Specialist*

11:30 – 12:00 noon **4 Upcoming Ag Issues Impacting Texas Agriculture (Farm Bill, Ag Policy, & Regulations)** – *Dr Bart Fischer, Texas A & M University, Food Policy Center Co-Director*

12:00 noon – 1:30 pm----------**Lunch**
(on your own)

1: 30 pm – 2:45 pm ----------**-Consultants Sponsored General Session**
Moderator: **Mark Nemec, *MJN Consulting Service***

This section will cover the upcoming changes in weed control in cotton due to resistance concerns.

1:30 – 1:45 pm **5 Weed Management in Xtend and Enlist Crops: Resistance Management More Important Than Ever** - *Dr. Larry Steckel, Professor Row Crop Weed Management, University of Tennessee*

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Day 2

Wednesday, December 9, 2020

Laws & Regulations

Moderator: **Perry Cervantes, Texas Department of Agriculture**

8:00 -9:00 am **Auxin Applicator Training Session,** Dr. Scott A. Nolte, State Weed Specialist, Texas A & M AgriLife Extension Service

Cotton Session----------

Moderator: **David Kerns, Texas A & M AgriLife Extension Service**

9:00 – 9:15 am **12 Update on Aphid Vectors and Management of Cotton Leafroll Dwarf Virus** – *Dr. Alana Jacobson, Department of Entomology and Plant Pathology, Auburn University, Auburn, AL*

9:15 - 9:20 am ----------New Technology & Chemistry -4

13 Tavium Update and New Formulation of Acuron Herbicide for 2021 - *Dr. Caroline Land, Syngenta Crop Protection*

9:20 – 9:35 am **14 Plastic Contamination Mitigation Research** – *Dr. John Wanjura, USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX*

9:35 – 9:40 am----------New Technology & Chemistry -5

15 Using Virus for Control of Cotton Bollworm/ Corn Earworm - *Remi Wright, Certis USA*

9:40 - 9:55 am **16 Harvest Aid Programs in Texas Cotton Production Systems**– *Dr. Ben McKnight, Department of Soil and Crop Science, Texas A&M AgriLife Extension, College Station, TX*

9:55 – 10:00 am----------New Technology & Chemistry -6

17 Crop Protection Product Updates from Bayer CropScience – *Dr. Greg Steele, Crop Protection TDR, Bayer CropScience*

10:00 – 10:15 am **18 Understanding Bt Resistance in Bollworm** – *Dr. David Kerns, Department of Entomology Texas A&M AgriLife Extension, College Station, TX*

10:15 – 10:30 am----------**Break**

Fertility Management Session----------

Moderator: **Greg Mock, Simplot Growers Solutions**

10:30 – 10:45 am **19 Fertilizer Trends in Texas** - *Ben Jones, Office of the State Chemist*

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Tuesday, December 8, 2020

1:45 – 1:50 pm ----------New Technology & Chemistry -1

6 Two New Corn Herbicide Brands from AMVAC – *Dr.* Scott *Ludwig AMVAC*

1:50 - 2:05 pm **7 A Program Approach to Delaying the Onset of Resistant Weeds** – *Dr. Scott A. Nolte, State Weed Specialist, Texas A & M AgriLife Extension Service*

2:05 – 2:10 pm ----------New Technology & Chemistry -2

8 What's New with BASF for 2021 – *Dr. Adam Hixson, BASF*

2:10 - 2:25 pm **9 Weed Resistance Management with the Xtendflex system in Texas** - *Dr. Greg Steele, Crop Protection TDR, Bayer CropScience*

2:25 – 2:30 pm----------New Technology & Chemistry -3

10 Gowan Co: A Look at our New Technology – *Mondo DeLeon, Gowan USA*

2:30 -2:45 pm **11 Ag Consultant's Perspective "Out with the New and in with the Old Weed Control Programs"** – *Mark Nemec, MJN Consulting Service*

2:45 – 3:00pm----------**Break**

Pest ID Contest

***Chairman*: Barron Rector, Texas A & M AgriLife Extension Service**

3:00 - 3:30 pm----------General Session

3:30pm Adjourn for the Day

Day 2

Wednesday, December 9, 2020

10:45 – 10:50 am ----------New Technology & Chemistry -7

20 New Product Updates from Valent USA, LLC - *Dr. Chris Meador, Valent USA, LLC*

10:50 – 11:05 am **21 Interpreting Texas A&M Soil Analysis: Concerns with Phosphorus and Potassium Critical Levels -** *Larry Unruh, American Plant Food Corp*

11:05 - 11:10 am ----------New Technology & Chemistry -8

22 New Product Updates from FMC – *Eric Castner, FMC Corporation*

11:10 – 11:25 am **23 World Fertilizer Production and Demand effects on US Farmers** - *Robert Mullen, Nutrien*

11:25 – 11:30 am----------New Technology & Chemistry -9

24 Innovations with Duplosan and dichlorprop-p for Managing Herbicide Resistant Plants - *Dr. Dan Beran, Nufarm Americas, LLC*

11:30 -11:45 am **25 Nutrient Dynamics Under Regenerative Agriculture** -*Lance Gunderson, Regen Ag Lab*

11:45 am Adjourn for the day

Day 3

Thursday, December 10, 2020

Grain Session----------

Moderator: **Ronnie Schnell, Texas A & M AgriLife Extension Service**

8:00 – 8:15 am **26 New Sorghum Herbicide Technologies for 2021**. – *Dr. Brent Bean, Director of Agronomy, United Sorghum Checkoff Program*

8:15 – 8:20 am----------New Technology & Chemistry 10

27 Product Update from Nichino America – *Milo Lewis, Nichino America*

8:20 – 8:35 am **28 The Small Grains Extension Program at TAMU Agrilife – An Overview**. - *Dr. Fernando Guillen Portal, Assistant Professor and State Small Grains Specialist, Soil and Crop Science Dept., Texas A&M AgriLife Extension*

8:35 – 8:40 am----------New Technology & Chemistry 11

29 Pioneer® brand Grain Sorghum with the Inzen™ Herbicide-Tolerant Trait

- Dr. Spencer Samuelson, Corteva AgriScience

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Day 3

Thursday, December 10, 2020

8:40 – 8:45 am 30 **Mexican Corn Rootworm Management** – *Dr David Kerns, Professor, Extension Specialist, Statewide IPM Coordinator & Associate Department Head*

8:45 – 9:00 am 31 **General Management Practices and Key Agronomics for Sunflower Production in Texas** - *John Murray, Field Agronomist, Pioneer Seeds*

9:00 – 9:05 am **Break**

Horticulture / Turf Session----------
Moderator: **Betsy Pierson, Texas A & M University**

9:05 -9:20 am: 32 **Rose Breeding and Genetics Program** – *Dr. Oscar Riera-Lizarazu, Department of Horticultural Sciences, Texas A&M University, College Station, Texas*

9:20- 9:35 am: 33 **Hibiscus Breeding Program** – *Dr. Dariusz Malinowski, Texas A&M AgriLife Research and Extension, Vernon, Texas*

9:35 – 9:50 am: 34 **Turfgrass Breeding and Genetics Program** – *Dr. Ambika Chandra, Texas A&M AgriLife Research and Extension, Dallas, Texas*

9:50 - 10:05 am: 35 **Indoor Vertical Farms** – *Dr. Shuyang Zhen, Department of Horticultural Science, Texas A&M University, College Station, Texas*

10:05 – 10:10 **am** **Break**

Water & Irrigation Management ----------Sponsored by Texas Agricultural Irrigation Association
Moderator**: Dana Porter, Texas A & M AgriLife Extension Service**

10:10 – 10:25 am 36 **Irrigation Education Programs in the Rio Grande Valley** - *Lucas Gregory, Ph.D., Senior Research Scientist, Texas Water Resources Institute, Texas A&M University System, College Station, Texas*

10:25 -10:40 am 37 **Irrigation Management for Corn in the Texas High Plains: Implications of Variety, Planting Date, and Irrigation Management**.- *Jourdan Bell, Ph.D., Associate Professor and Extension Specialist, Texas A&M AgriLife Extension Service Department of Soil and Crop Sciences, Amarillo/Bushland, Texas*

10:40 -10:55 am 38 **Soil Water Sensors: Performance and Calibration** - *Gary Marek, Ph.D., Research Agricultural Engineer, USDA-ARS Conservation and Production Systems Laboratory, Bushland, Texas*

10:55 – 11:10 am 39 **Sensor Based Variable Rate Irrigation** - *Susan O'Shaughnessy, Ph.D., Research Agricultural Engineer, USDA-ARS Conservation and Production Systems Laboratory, Bushland, Texas*

11:10 – 11:15 am **Break**

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Day 3

Thursday, December 10, 2020

Pasture & Rangeland Session----------
Moderator: **Case Medlin, Bayer Crop Science**

11:15– 11:30 am **40** **Items Sometime Overlooked on Pesticide Labels** - *Don Renchie, Texas A&M AgriLife Extension, College Station*

11:30 - 11:45 am **41** **Invora® Herbicide; Update and Summary of Training Requirement** - *Megan Clayton, Texas A&M AgriLife Extension, Corpus Christi*

11:45 – 12:00 am **42** **Biosecurity Matters for Livestock Producers** - *Bryan Davis, Texas A&M AgriLife Extension, Guadalupe County*

12:00 – 12:15 pm **43** **DuraCor® Herbicide; Experiences in Southwest Pastures from 2020 -** *D. Chad Cummings, E. Scott Flynn, Daniel Mielke, Rachel Hinton, and Samuel Eads, Corteva AgriScience*

12:20 – TPPA Awards announced

20-15. 2020 Soybean Variety Comparison Study @ Greenville, TX (Northeast Texas Agricultural Research Farm)

Table 1 **MEAN Comparison Table**

COMPANY/ENTRY†	Relative Maturity	Emergence/ Seedling Vigor (1-10)[1]	Plant Height (inches)[2]	Green Leaves at Harvest (0-10)[3]	Test Weight (lb/bu)	Yield (bu/ac)
Go Soy 491E19S	4.9	7.0 a	30.5 a	3.3 a	54.1	32.0 a
Dyna-Gro S49EN79	4.9	6.8 ab	22.3 l-t	NA	48.7	25.6 b
Progeny 4265 RXS	4.2	6.5 ab	19.5 u	2.0 abc	55.8	25.0 bc
Dyna-Gro S49XT21	4.9	5.5 ab	23.5 i-o	NA	53.2	24.8 bc
BASF CZ 4979 X	4.9	5.5 ab	25.3 e-k	NA	52.7	24.5 bc
Axis 5016NRXS	5.0	6.8 ab	22.3 l-t	NA	53.4	24.3 bc
Pioneer P45A02X	4.5	5.8 ab	21.5 n-u	1.0 c	56.8	24.3 bc
Dyna-Gro S45XS37	4.5	5.5 ab	22.5 l-s	NA	52.6	24.3 bc
Progeny 4851 RX	4.8	6.5 ab	22.3 l-t	2.0 abc	54.2	23.9 bcd
Progeny 4821 RX	4.8	6.3 ab	22.8 k-r	3.0 ab	53.7	23.9 bcd
Progeny 5016 RXS	5.0	6.3 ab	23.0 j-q	NA	53.5	23.6 b-e
Go Soy 471E19S	4.7	6.0 ab	25.8 d-i	NA	51.7	23.6 b-e
Dyna-Gro S49XT70	4.9	6.0 ab	23.5 i-o	3.0 ab	54.0	23.5 b-e
BASF CZ 5000 X	5.0	6.3 ab	24.3 g-m	NA	51.2	23.2 b-f
Go Soy 50G17	5.0	6.3 ab	27.3 b-f	NA	51.0	23.2 b-f
Go Soy 512E21	5.1	6.3 ab	23.5 i-o	NA	53.4	23.2 b-f
Asgrow AG42X6	4.2	6.3 ab	20.8 p-u	2.0 abc	55.4	23.2 b-f
Pioneer P46A86X	4.6	6.3 ab	23.0 j-q	2.0 abc	54.9	22.9 b-g
Dyna-Gro S48XT90	4.8	7.0 a	24.0 h-n	NA	51.7	22.8 b-g
BASF CZ 4410 GTLL	4.4	6.5 ab	24.8 f-l	2.3 abc	55.8	22.8 b-g
Axis 4801NRX	4.8	6.8 ab	24.0 h-n	NA	50.2	22.7 b-g
Dyna-Gro S52XS39	5.2	6.3 ab	28.3 a-d	NA	54.2	22.7 b-g
BASF CZ 4918 LL	4.9	5.8 ab	22.0 m-u	NA	51.9	22.6 b-h
Dyna-Gro S48XT40	4.8	6.3 ab	22.5 l-s	1.7 bc	53.9	22.4 b-h
BASF CZ 4941 X	4.9	5.5 ab	26.8 c-g	NA	51.6	22.4 b-h
BASF CZ 4730 X	4.7	5.8 ab	23.3 i-p	3.0 ab	57.3	22.1 b-i
Progeny 4970 RX	4.9	6.5 ab	23.5 i-o	NA	51.4	21.7 b-j
Go Soy 463E20S	4.6	5.8 ab	22.5 l-s	2.3 abc	55.5	21.6 b-j
Axis 4819NRXS	4.8	5.8 ab	22.3 l-t	NA	52.1	21.3 b-j
Progeny 5170 RX	5.1	5.3 b	27.5 b-e	3.3 a	52.0	21.1 b-k
Asgrow AG49X9	4.9	5.5 ab	20.0 stu	NA	53.2	20.9 b-k
Dyna-Gro S46XT80	4.6	6.5 ab	20.5 q-u	2.0 abc	53.5	20.7 b-k
Dyna-Gro S46XS60	4.6	6.3 ab	21.8 m-u	2.3 abc	52.0	20.7 b-k
BASF CZ 4600 X	4.6	5.3 b	20.0 stu	NA	54.2	20.7 b-k

COMPANY/ENTRY†	Relative Maturity	Emergence/ Seedling Vigor (1-10)[1]	Plant Height (inches)[2]	Green Leaves at Harvest (0-10)[3]	Test Weight (lb/bu)	Yield (bu/ac)
BASF CZ 4570 X	4.5	6.3 ab	20.5 q-u	2.0 abc	55.4	20.6 b-k
BASF CZ 4770 X	4.7	5.8 ab	23.4 i-p	NA	52.4	20.4 b-k
Pioneer P48A60X	4.8	5.8 ab	22.3 l-t	1.7 bc	55.8	20.2 c-k
Go Soy 49G16	4.9	7.0 a	25.3 e-k	NA	53.4	20.1 c-k
R15-2422	4.7	6.0 ab	27.8 b-e	NA	51.9	19.9 c-k
BASF CZ 4869 X	4.8	6.3 ab	21.8 m-u	1.7 bc	51.7	19.8 c-k
BASF CZ 5299 X	5.2	5.3 b	25.5 e-j	NA	47.8	19.8 c-k
BASF CZ 4810 X	4.8	6.5 ab	20.3 r-u	NA	54.4	19.7 c-k
R16-253	4.6	6.8 ab	29.5 ab	NA	43.5	18.7 d-k
Go Soy Leland	5.0	5.8 ab	19.8 tu	NA	46.8	18.5 e-k
AGS GS52X19S	5.2	5.8 ab	28.3 a-d	NA	49.3	18.4 e-k
BASF CZ 4649 LL	4.6	5.8 ab	29.3 abc	NA	41.0	18.3 e-k
Go Soy GT Ireane	4.9	6.3 ab	20.3 r-u	NA	46.8	18.1 f-k
Axis X4509NRX	4.5	5.3 b	24.8 f-l	1.7 bc	51.7	18.1 f-k
Progeny 5252 RX	5.2	5.8 ab	26.3 d-h	NA	48.7	17.6 g-k
Asgrow AG46X0	4.6	5.5 ab	22.5 l-s	2.7 ab	51.2	17.3 h-k
Go Soy 48C17S	4.8	6.3 ab	21.5 n-u	NA	52.4	16.8 ijk
BASF CZ 4539 GTLL	4.5	6.0 ab	21.3 o-u	NA	52.8	16.5 jk
AGS GS49X21	4.9	5.5 ab	24.8 f-l	NA	44.6	16.5 jk
R16-259	4.6	5.5 ab	22.5 l-s	3.3 a	56.5	16.4 jk
Go Soy 5214GTS	5.2	6.0 ab	30.8 a	NA	42.9	15.9 k
	LSD (P = .05)	*0.84*	*2.71*	*1.38*	*NS*	*5.33*
	CV (%)	*9.92*	*8.18*	*36.21*	*11.54*	*17.83*
	GRAND MEAN	*6.05*	*23.72*	*2.30*	*52.02*	*21.38*

Date Planted: April 17, 2020
Planting Rate: 165,000 seeds/Ac
Row Width (in): 30
Row Length (ft): 25
Number of rows harvested: 2

†Ranked according to Yield
[1]Emergence/Seedling Vigor Scale: 1 – poor emergence, 10 – best
[2]Plant Height measurement made according to upper most pod
[3]Green Leaves Present at Harvest Scale: 0 – None, 10 – 100%
(Rating only on Harvest Dates Aug. 25th, Sept. 1st, 8th)

Corn Fertility Timing and Placement Study with Collin County Producer Ben Scholz

Treatments

Untreated Control (Nitrogen Side Dress) 25 gallons/ac of 28-0-0 + S (74 units of N)

At planting in-furrow applied Phosphorus (20.4 units P2O5) with 6 units N, 1.7 units K2O, and chelated Zinc as 6 gallons per acre liquid fertilizer.

Fall strip till subsurface banded Phosphorus (31.9 units P2O5) with 9.25 units N, 12.8 units K2O, humic acid, and chelated Zinc as a 10 gallons per acre liquid AND the spring in-furrow treatment above.

Design

Fall Bigham strip-till October 2019

Planted April 16, 2020

Harvested August 27, 2020

Hybrid NK1694-3111

Large Plot 800ft X 12 Rows

Results

Applying phosphorus and other nutrients at planting increased yield 19.3 bushels per acre in this trial as compared to a nitrogen and sulfur topdress application alone. Applying additional nutrients in the fall with a strip till rig increased the yield an additional 5.7 bushels per acre. Fertilizer applications also increase test weight, and kernel size, as measured by 1000 kernel weight. The fertilizer did not statistically change plant population, stover amount, or the grain to stover ratio of the crop although there were numerical trends upward. See Table 1.

Table 1. Results of Collin County Corn Fertility Trial 2020. Fall and Spring applied phosphorus compared to Spring applied and Topdress only. Ben Scholz cooperator.

Treatment	Yield bu/ac	Test Weight	1000 kernel weight	Plant Population	Stover lbs/ac	Grain to Stover Ratio
Untreated (74 units N plus 13.25 units of S)	75.3	54.1	210.8	21,750	4689	0.452
Spring In-furrow at planting total (6-20.4-1.7) plus chelated Zinc	94.6	54.7	229.4	22,500	6396	0.464
Fall strip till (9.6-31.9-12.8) plus humic acid and chelated Zinc AND Spring In-furrow at planting total (6-20.4-14.5) plus chelated Zinc	100.3	55.8	239.1	22,083	7581	0.463
Significance P-value	0.005	0.0003	0.0004	N.S.	0.11	N.S.

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Integrated Pest Management (IPM)

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Calendar

Dec 8-10 Plant Protection Conference Online

Jan 5-7 Beltwide Cotton Conference Online

For information on COVID-19

The Texas A&M AgriLife Extension Service is leading an education effort helping local governments with the Coronavirus Aid, Relief, and Economic Security (CARES) Act.

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

Extension Disaster Education Network (EDEN)

EDEN information on the Coronavirus can be found at:

https://texashelp.tamu.edu/coronavirus-information-resources/

USDA Resources can be found at:

http://usda.gov/coronavirus