

Agriculture Newsletter

COLORADO COUNTY

APRIL 2023

New Herbicide Traits in Cotton and Grain Sorghum

Dr. Josh McGinty

Associated Professor & Extension Agronomist

Over the last few years, we've seen an increase development of new herbicide tolerant traits (obtained either through transgenic technologies or traditional plant breeding) by the seed industry. Below is a brief outline of the newest technologies reaching the field.

Corteva has commercialized a unique combination of traits for their Phytogen brand cotton varieties called **W3E1**. Cotton varieties with this trait stack are **tolerant to 2,4-D and glufosinate only, and do not possess tolerance to glyphosate**. This trait may be suitable for growers who are relying less on glyphosate than in past years due to increasing populations of glyphosate resistant weeds. This technology may have a good fit for south Texas cotton producers as many have shifted toward glufosinate- or auxin-based herbicide programs for control of glyphosate resistant pigweed, carelessnessweed, and false ragweed. Additionally, varieties with this trait will likely be less costly than W3FE varieties as there will be no tech fee for the Roundup Ready trait. In this system, grasses would need be controlled at appropriate sizes (small) with glufosinate or with a graminicide such as clethodim (Select).

BASF is in the final stages of bringing **Axant Flex** cotton varieties to the market through their FiberMax and Stoneville brands. In county programs and crop tours the last couple years, you may have heard me refer to this technology as GLIXTP cotton. This is a quadruple herbicide stack with **tolerance to glyphosate, glufosinate, dicamba, and isoxaflutole**. Isoxaflutole belongs to the "bleacher" group of HPPD-inhibiting herbicides that growers use in corn, rice, and grain sorghum. Isoxaflutole for use in Axant Flex cotton will be offered by BASF under the trade name Alite 27.

Alite 27 offers preemergence control of many grass and broadleaf weeds such as pigweed, waterhemp, and Texas panicum. This product will be labelled for preemergence and early postemergence use in Axant Flex cotton. The main benefit that this trait allows is for the use of a herbicide mode of action previously unavailable in cotton, to help combat the development of herbicide resistant weeds.

In grain sorghum, we now have three herbicide tolerant traits available that you've likely heard me discuss at county meetings. From **Corteva/Pioneer**, we have **Inzen grain sorghum** which has tolerance to **nicosulfuron (Imiflex)**. Zest is an ALS-inhibiting herbicide with good postemergence activity on grass weeds such as Texas panicum. Advanta/Alta Seeds offers Igrowth grain sorghum hybrids, which are tolerant to imazapic (Imiflex). Imiflex is an ALS-inhibiting herbicide that has both pre- and postemergence activity on a number of broadleaf and grass weeds. **S&W Seeds/Sorghum Partners offer Double Team grain sorghum** hybrids, which possess tolerance to **quizalofop (FirstAct)**. FirstAct is an ACC-ase inhibitor which has excellent activity on grass species, but no activity on broadleaf weeds. All three of these traits/herbicides have been the subject of many field trials in my program over the last several years, and each has its pros and cons for certain situations which will be a continued topic of my programming efforts as these traits become more widely adopted.

As always, please reach out if you have any questions about these technologies.

**3
CEU**
(2 GEN,
1 IPM)

Weed & Brush Management

TEXAS A&M
AGRI LIFE
EXTENSION

2023 Multi-County New Landowner Educational Series

April 21, 2023

Immaculate Conception German Catholic Church-Parish Hall

15994 TX-159
Industry, TX

Registration 1:00-1:30 pm

Program 1:30-5:00 pm

\$20/Person/Session

\$125/Person/Series - \$200/Couple/Series

To register online visit:

<https://washington.agrilife.org/nlo>

Topics to be covered:

- *Weed & Brush Control Basics*
- *Plant Identification*
- *Plant ID Contest*



If you have a weed you would like identified bring a FRESH sample with you; include leaves, flowers, stem if possible.

For more information please contact:

Stacie Villarreal
Austin County
(979) 865-2072
Austin.Agrilife.org

Laramie Kettler
Colorado County
(979) 732-2082
Colorado.Agrilife.org

Scott Willey
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The members of Texas A&M AgriLife will provide equal opportunities in programs and activities, education, and employment to all persons regardless of race, color, sex, religion, national origin, age, disability, genetic information, veteran status, sexual orientation, or gender identity and will strive to achieve full and equal employment opportunity throughout Texas A&M AgriLife. The Texas A&M University System, U.S. Department of Agriculture, and the County Commissioners Courts of Texas Cooperating. Individuals with disabilities who require an auxiliary aid, service or accommodation in order to participate in this meeting are encouraged to contact the Austin County Extension Office at (979) 865-2072 prior to the meeting to determine how reasonable accommodations can be made.



**Thursday
May 11th**

Registration

8:30 am

**Trefny Pecan
Orchards**

**1045 Trefny Lane
Weimar, TX 78962**

Program

9:00 - 12:00 pm

**Trefny Pecan
Orchard**

2 CEU's

1 IPM

1 General

TEXAS A&M AGRI LIFE EXTENSION

Colorado/Fayette County Pecan Field Day

*If you have pecan trees or are interested in the possibility,
then we have the program for you!*

Please plan to join us on *Thursday, May 11, 2023* at the Trefny Pecan Orchard for a day of education and demonstration. Dr. Larry Stein, Extension Horticulturalist, will be the featured speaker for the program.

*Please remember to bring a
lawn chair with
you for use during the
programs.*



For more information, contact the Texas A&M AgriLife Extension Service in one of the following counties:

Laramie Kettler
Extension Agent - Ag/NR
Colorado County
(979) 732-2082

Scott Willey
Extension Agent - Ag/NR
Fayette County
(979) 968-5831

Educational programs of the Texas A&M AgriLife Extension are open to all citizens without regard to race, color, religion, sex, national origin, age, disability, genetic information, or veteran status. The Texas A&M University System, U.S. Department of Agriculture, and the County Commissioners Courts of Texas Cooperating. Individuals with disabilities who require an auxiliary aid, service or accommodation in order to participate in this meeting are encouraged to contact the County Extension Office prior to the meeting to determine how reasonable accommodations can be made.

Colorado County Lunch - N - Learn Series 2023

Bring your lunch and learn.

Light refreshments; coffee, tea and snacks will be provided.



Registration:

11:50am - 12:05pm

Program:

12:05pm - 12:55pm

No Pre-Registration Required

January 18

**Spring
Garden
Planning**



April 19

**Controlling
Garden Pests**



**County
Services
Building
305 Radio Lane
Columbus,
Texas 78934**

February 15

**Soil Testing
Composting**

Questions?

**Texas A&M Agrilife
Extension Service of
Colorado County
(979) 732-2082**

March 15

**Blooming
Plants for
Landscape**



May 17

**Plant
Propagation**



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Our Colorado County Lunch and Learn Series is open to all Colorado County residents that have an interest in gardening and horticulture. Our May session will cover basic plant propagation led by a master gardener. We will take a break in the series during the month of June and resume our lunch and learn series in July. Bring your lunch and learn with us!

TEXAS A&M
AGRI LIFE
EXTENSION



TEXAS
PARKS &
WILDLIFE

**This Month:
All About
Prescribed Burning**

FEATHERS, FURS, AND FARMING

May 26, 2023

Registration 1:00pm-
1:30pm

Program 1:30-5:00pm

\$15/Person

\$20/Couple

**Immaculate Conception
German Catholic Church**

15994 TX-159
Industry, TX 78944

Laramie Kettler
979-732-2082
Colorado County

Stacie Villarreal
979-865-2072
Austin County

Mark Lange
979-732-3458
Colorado County

Jon McLeod
832-595-8999
Austin/Pt. Bend County

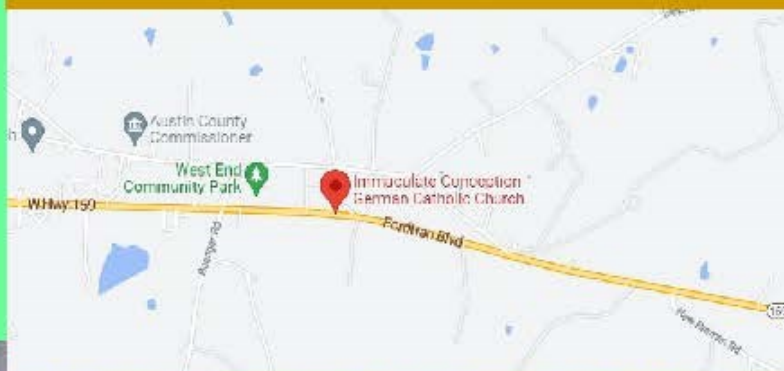
TOPICS

2 CEU's - General

Prescribed burning equipment and prep

GRIP - Grassland Restoration
Incentive Program

Managing Brush Mechanically



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TEXAS A&M
AGRILIFE
EXTENSION

Colorado County Row Crop Tour

Tour includes two stops:

- Corn variety trial
- Cotton hybrid trial
- Concludes with a BBQ meal

Sponsored by:
Area Agri-businesses

Colorado County
Row Crop Committee

Texas A&M AgriLife
Extension Service

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316 Spring St.
Columbus, TX 78934
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laramie.kettler@ag.tamu.edu
<http://colorado.agrilife.org>

**Thursday, June 15,
2023**

Nada Community Center

Registration: 4:30 - 5:00 PM

Tour Departs @ 5:00 PM

**3 CEUs
will be offered****

****In order to receive CEU Credits
you MUST sign in at the Nada Com-
munity Center and stay through the
duration of the program**



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Please feel free to contact me if you have any questions.

Sincerely,



Laramie Kettler

County Extension Agent—Ag/Natural Resources—Colorado County

laramie.kettler@ag.tamu.edu

979-732-2082

colorado.agrilife.org

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