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Congratulations to our summer graduates! Many of them are now ready to enter the agricultural workforce and have accepted positions. Others are choosing to continue their education – searching for a role that fits their passion. We are thrilled to hear that there are so many opportunities for our graduates. We congratulate them all and wish them the best of luck.

Classes begin on August 19th for the next semester and last minute preparations are being made for another great year! The fall semester will be unique as all our classes will be offered virtually with some face-to-face classes and labs in an attempt to limit virus issues. It is with great appreciation to our faculty and staff that have made our capacity to transition to this new educational dynamic so successful.

We will begin reviewing faculty for promotion and tenure in August utilizing a new system and with new guidelines to implement. Thanks to Seth Murray for taking over as P&T chair and thanks to Paul Schwab for his guidance over the past several years.

Summer is a busy time for our science, and a time for our faculty to display their accomplishments at field days, most of which have been virtual this year. While much summer research is now behind us or wrapping up soon, plans for the fall are evolving rapidly. The Beef Cattle Short Course saw virtual presentations from many of our faculty, but virtual prime rib is just not the same. The wheat workers held their annual meeting virtually and the Small Grains Advisory Group will be meeting August 21 virtually. A special thanks to Amir Ibrahim, Jackie Rudd and Fernando Guillen for making this happen. The Soils Critique produced some great virtual interaction this year. Thanks to Dr. Katie Lewis for organizing and helping us chart the future of soils research, teaching and extension for Texas (see story inside).

Many of our Plant Breeding students and faculty will be participating in the virtual National Association of Plant Breeders meeting. Our turf team was instrumental in programming at the recent Texas Turfgrass Association Summer meetings. I recently had the opportunity to participate in the National Advisory Committee for Agricultural Research, Education, Extension and Economics (NAREEE). Discussions ranged from COVID impact on research and moving NIFA and ERS to Kansas City, to issues with limited research and economic data on soil security, forages, turfgrass and floriculture. We also approved the Relevancy and Adequacy report on Climate Adaptation. We had the opportunity to begin the process of selecting members for the various subcommittees of NAREEE, including National Genetic Resources Advisory Council, Citrus Disease, Specialty Crops, and Renewable Energy. This advisory committee will allow us to impact future USDA direction. I will serve as chair for the next year. [https://nareeab.ree.usda.gov/](https://nareeab.ree.usda.gov/)

A big congratulations to all our faculty for a big push with grant writing this year. Several grants have recently been finalized and many are anxiously awaiting decisions on their proposals.

The wheels have already begun turning for the upcoming school year. Officers from the TAMU Agronomy Society have planted the corn field for this fall’s corn maze and we are hopeful that as an outdoor activity, it is one that we will be able to hold, and that it will provide another fun and successful educational opportunity!

A Big Congratulations to Dr. Audrey Girard as she completes the move to the University of Wisconsin-Madison this month. We are still recruiting for replacements for Dr. Cristine Morgan and Dr. Haly Neely. The FAC completed summary of the strategic planning session in December and we will be sharing this at our next Faculty meeting.

Many services are being centralized in Texas A&M AgriLife, including Administrative Services, Advising, IT and others are pending. While this causes a period of anxiety as the next system is put in place, we will all have to work together to make sure that the potential for optimizing service in support of our research and teaching are improved through the process.

Unfortunately, some we have worked with closely will move on to new opportunities through this process and we will be bidding fond farewell. We know that Taylor Atkinson will be transitioning to Engineering for the next semester, but others are not yet confirmed. It also means that we will be getting to know the new team that will be providing the services. Good communication, patience, coaching and vision will be required to optimize it.

You can support Soil and Crop Sciences research, teaching and extension outreach with your tax-deductible donations. More Information can be found at: [http://soilcrop.tamu.edu/giving/](http://soilcrop.tamu.edu/giving/)
Congratulations!

to each our students who will virtually receive an advanced degree this month!
While we are sorry you will miss your opportunity to walk across that stage, we are proud
of you for the efforts you have made and wish each of you the very best!

Agronomy

Morgan Hermes

Morgan earned her Master of Science in Agronomy under Drs. Joshua McGinty and Scott Nolte. Her thesis research focused on the effects of simulated 2,4-D and Dicamba drift on field-grown tomatoes.

She has been working in sales for the last several years, but currently has the privilege to focus her energies on her little girl and work on future business endeavors.

Zachary Howard

Zachary earned his Master of Science degree in Agronomy under the supervision of Dr. Scott Nolte, with research focused on the control of weeds in pastures, primarily the control of Smutgrass.

He is now working as an AgriLife Extension Program Specialist under Dr. Nolte, and will begin working on his Ph.D. in the near future.

Pramod Pokhrel

Pramod earned his Ph.D. in Agronomy focused on agronomic performance and modeling of bioenergy feedstock crop growth and development in the Texas Rolling Plains. Dr. Nithya Rajan served as his supervising professor.

Pramod will continue working under Dr. Rajan as a postdoctoral research associate in the Department of Soil and Crop Sciences.

Cynthia Sias

Cynthia earned her Master of Science degree in Agronomy under Dr. Muthu Bagavathiannan. Her research focused on understanding interspecific hybridization between Sorghum halepense and Sorghum bicolor.

She has been accepted into the Ph.D. program at Virginia Tech University where she will major in Weed Science.
**Martin Costa**

Martin earned his Master of Science Degree in Plant Breeding as part of Dr. Steve Hague’s cotton breeding program.

He will be continuing his education as a Ph.D. student in Plant Breeding and Plant Genetics at the University of Wisconsin-Madison.

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**Daniel Crozier**

Daniel earned his Master of Science degree in Plant Breeding under the supervision of Dr. William Rooney, focused on new tools for developing improved sorghum hybrids.

He will remain in Dr. Rooney’s breeding program as he pursues his Ph.D. in Plant Breeding at Texas A&M.

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**Mehmet Dogan**

Mehmet earned his Master of Science in Plant Breeding with a focus on the identification of Quantitative Trait Loci associated with end-use quality traits in a recombinant inbred line population of Texas wheat. His research was supervised by Drs. Hongbin Zhang and Shuyu Liu.

Mehmet will be returning to Turkey to work for the Turkish government in their national wheat breeding program at the Central Research Institute for Field Crops.

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**Mitchell Kent**

Mitchell earned his Master of Science in Plant Breeding under Dr. William Rooney, with his research focused on the assessment of novel sorghum kernel characteristics and functionality.

He will remain in Dr. Rooney’s sorghum breeding program as he pursues his Ph.D. here at Texas A&M.

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**Drutdaman Bhangu**

Daman earned his Ph.D. in Plant Breeding under the supervision of Dr. C.Wayne Smith. His research focused on exploring unconventional breeding methodologies through the use of gene based SNPs as a way to predict fiber quality of individual plant selections prior to harvest.

Daman is currently working as a breeding intern at VoloAgri, a vegetable breeding company in Woodland, CA, focused on tomato hybrid development, and continuing to look for other opportunities across the U.S.
Nick Porter

Nick earned his Master of Science in Plant Breeding studying interspecific perennial sorghum under Dr. Russell Jessup. He is currently working as a research associate in the sorghum program at the Texas A&M AgriLife Research and Extension Center in Amarillo, and will begin working on his Ph.D. under Dr. Bill Rooney in the near future.

Selfinaz “Kubra” Velioglu

Kubra earned her Master of Science degree in Plant Breeding under the supervision of Dr. David Stelly. Her research focused on genome-wide spaced simplex SNP assays for marker-based interspecific germplasm introgression and genetic manipulation in cotton. Kubra is now back in Turkey working at a cotton research institute.

Soil Science

Baoxin “Bob” Chang

Bob earned his Ph.D. in Soil Science focused on nutrient and irrigation management for enhancing turfgrass eco benefits. Drs. Ben Wherley and Jacqui Aitkenhead-Peterson supervised his research. Bob is now working with Dr. Ben Wherley as a postdoctoral research associate in the Department of Soil and Crop Sciences turfgrass program.

Andrew Lee

Andrew earned his Master of Science degree in Soil Science under the supervision of Dr. Paul Schwab. His thesis research focused on the phythoremediation of arsenic and lead utilizing apatite amendments. Andrew recently began working for the Environmental Protection Agency in the air and radiation division in Chicago, IL.

Genetics

Luis de Santiago

Luis earned his Ph.D. in Genetics under the supervision of Dr. David Stelly. His research focused on characterizing recombination and halotype structures in Upland cotton for genetic improvement. Luis has accepted a position as a postdoctoral research associate at the University of Texas - Austin.
Weixi Zhu

Weixi earned his Master of Science degree in Molecular and Environmental Plant Sciences focused on the use of computer software applications to identify copy number variants in Loblolly pine. His research was supervised by Dr. Claudio Casola from the Department of Ecology and Conservation Biology. Weixi is now headed to Dallas to pursue his Ph.D. at the University of Texas - Dallas.

Gali Bai

Gali came to Texas A&M from Inner Mongolia, China, to earn her Master of Science degree in Molecular and Environmental Plant Sciences under Dr. Hongbin Zhang. Her research focused on maize genomics and bioinformatics. She has been offered a job as a Bioinformation Analyst in Boston, MA.

Morgan Sanders

Morgan was a double major, earning her Bachelor of Science in Animal Science and a Bachelor of Science in Plant and Environmental Soil Science. She served as the President of the Texas A&M University Chapter of the American Society of Agronomy and was very active in our department. Morgan is now applying for jobs with the United States Department of Agriculture - Natural Resource Conservation Service and other federal agencies.

Ashtyn Stufflebeam

Ashtyn earned her Bachelor of Science degree in Plant and Environmental Soil Science - soils emphasis. She was encouraged to pursue an education in soil science after joining the FFA soil judging team in high school. She is currently back in her home state of Illinois completing an internship with the United State Department of Agriculture Soil Survey office in Springfield. She will transition into a full-time position there as a soil scientists after graduation.
For ten weeks this summer, Chase Murphy, a junior majoring in ecological restoration, participated in a Texas A&M AgriLife Extension internship program in water resource protection and restoration. He recently discussed his experiences with faculty, staff and students via Zoom.

A main component of the internship, and a favorite part for Murphy, was sampling water quality in the Mill Creek Watershed near Bellville. Through a contract with Texas Water Resources Institute (TWRI), he participated in two sampling runs, and had the opportunity to use the same equipment used by water quality professionals. He took field measurements including transparency, water temperature, conductivity, pH, and dissolved oxygen, to name a few, and helped collect water samples for testing at the analytical laboratory.

Murphy also helped measure water flow in deep and shallow portions of the creeks using a river surveyor. This “boogie board” uses a Doppler flow sensor coupled with GPS to obtain highly accurate flow data.

“The river surveyor is calibrated by waving it around in the air,” Murphy said with a smile. “When they first told me to do that, I thought they were just hazing the new guy.”

The internship included much more than the fieldwork. Murphy also received professional trainings, including learning how to manage and update the Texas Watershed Stewards (TWS) and the Mill Creek Project websites. He helped record audio and video clips explaining the basics of a watershed, and posted the video on YouTube. He also served as a “second pair of eyes” to review and proof contracts, press releases, and other documents.

Each week, Murphy met with the specialists to discuss different aspects of watershed management and topics that aligned with his desire to explore environmental consulting as a career. This information could help him stand out among other graduates when he is ready to enter the job market.

“One of the biggest things I got out of this internship is the relationship,” Murphy said. “Everyone worked very hard to help me and I learned a lot about the steps to take after college.”

“Though there are many benefits to an internship such as this, one unique aspect that comes to mind is our genuine desire to provide applicable, real-world experience,” said Michael Kuitu, AgriLife Extension Program Specialist in the Department of Soil and Crop Sciences and one of the mentors for this internship. “We try our best to task an intern with the same, or similar, work we are doing so they may get applicable experience. Moreover, we try to ensure an environment in which they may ask questions pertinent to a career field they are interested in exploring.”

Murphy is the fourth student to go through the internship program, and while his experiences were similar to his predecessors, his internship was undeniably impacted by the ongoing pandemic.

“For most of the summer I was unable to be on campus, so a lot of the work had to be done from home,” Murphy said. “On the sampling trips, we all had to take separate vehicles.”

“Unfortunately Chase missed out on the conversations that happen in the office and on the way to sampling sites. There is no good substitute for those spontaneous interactions,” said Ward Ling, formerly a program specialist with Soil and Crop Sciences and now with Texas Water Resource Institute.

Chase also missed the opportunity to present to a live audience at a TWS program, but he did get to be part of the video.

“I was a little disappointed that I didn’t get to experience the full capacity of the internship due to COVID, but I was able to make the most of the internship because everyone wants you to succeed,” Murphy said. “They answered countless questions and gave me a lot of advice.”

Murphy highly recommends this internship to other students and offers this admonition – “don’t be afraid to ask questions. Everyone is here to help.”
Faculty from across the state met online for the Annual Texas A&M AgriLife Soil Critique on July 22, 2020 to discuss the ongoing research programs and plan future state-wide research priorities and collaborations.

The annual meeting was hosted by Dr. Katie Lewis of the Lubbock Research and Extension Center via Zoom., with around 30 faculty, staff, and students in attendance.

Faculty presenters included: Drs. Jacqui Aitkenhead-Peterson, Youjun Deng, Xuejun Dong, Girisha Ganjegunte, Julie Howe, Jake Mower, Reagan Noland, Nithya Rajan, and Anil Somenahally. These presentations highlighted the academic advances soil science faculty made during 2019 in their respective disciplines from forensics to greenhouse gas emissions.

Other highlights included an update from Dr. David Baltensperger, Soil and Crop Sciences Department Chair, who presented information on the challenges and opportunities facing research and extension during the COVID pandemic, new faculty joining Soil and Crop Sciences this Fall, and expansions in federal research funding.

In the afternoon portion of the soil Critique, faculty discussed emerging research trends and focuses for the future. Faculty noted three primary focuses for the next cycle: state-wide collaborative opportunities, standardizing soil health measurements and methodologies, and management of emerging crops. Faculty unanimously agreed to focus efforts on aligning Soil and Crop Sciences as the leading soil health research department in the country.

The faculty also welcomed the newest members of the team, Dr. Craig Bednarz, a crop physiologist who has taken over as Director of the Semi-Arid Agricultural Systems Institute at West Texas A&M University and Texas A&M AgriLife Research in Amarillo, TX. Dr. Bednarz expressed his gratitude for the welcome and excitement to work with other faculty on tackling the pressing issues facing agricultural production in Texas, specifically utilization of water resources.

The 2021 Soil Critique will be hosted by Dr. Paul DeLaune at the Vernon Research and Extension Center next summer, hopefully in person.

Soil scientists virtually gather for annual Soil Critique
By: Katie Lewis, Ph.D.

Three Big Country Wheat webinars set for August
Texas A&M AgriLife experts to present free educational series
By: Susan Himes

The Texas A&M AgriLife Extension Service will be presenting the annual Big Country Wheat Conference as webinars this year. The free event will run on three consecutive Thursdays starting Aug. 13 from noon to 1 p.m. each day.

“We feel these online events will provide area producers with valuable information heading into the upcoming wheat planting season,” said Steve Estes, AgriLife Extension agent for Taylor County. “This series offers something for everyone regarding the new crop, whether it be pricing strategies, managing risk, picking the best variety of seed, or managing the crop once it’s in the ground.”

Participants may attend any or all of the sessions online. Preregistration is required.

Conditions permitting, there is also a limited number of in-person seating for Big Country Wheat at both the AgriLife Extension offices in Taylor and Callahan counties. This option requires an RSVP to 325-672-6048.

The Aug. 27 session will have one general Texas Department of Agriculture continuing education unit available.

The themes, topics and speakers for each session are as follows:

Aug. 13, Wheat Marketing and Risk Management Strategies
- Market outlook, pricing strategies and marketing plans – Mark Welch, Ph.D., AgriLife Extension grain marketing economist, College Station.
- Risk management opportunities, price loss coverage and crop insurance options – Bill Thompson, AgriLife Extension economist, San Angelo.

Aug. 20, Wheat Variety Selection
- Variety traits, disease and pest resistance options – Reagan Noland, Ph.D., AgriLife Extension agronomist, San Angelo.

Aug. 27, Planting and Crop Management Considerations
- Seedling rates, seedling target and seed counts; seed options, certified vs. saved seed; fertilization timing, yield and protein considerations; current weed and insect control options – Noland and Fernando Guillen, Ph.D., AgriLife Extension small grains specialist, College Station.
Grain sorghum producers are reporting sugarcane aphids in the High Plains, but the pest has made little impact on the Texas crop during 2020, according to Texas A&M AgriLife Extension Service experts. But forage sorghum, an increasingly popular silage option, has experienced more significant losses, as producers and Texas A&M AgriLife scientists and specialists search for effective and efficient treatment methods. Those fields bound for forage production were not hard hit so far this year.

Pat Porter, Ph.D., AgriLife Extension entomologist, Lubbock, said sugarcane aphids have not been “as big a deal as they were years ago” due to creation of resistant hybrid sorghum varieties and vigilant monitoring and spray applications keeping their numbers in check as they migrate.

Sugarcane aphids devastated sorghum fields after their 2013 emergence in fields around Beaumont. They made their way to the Texas Plains by 2015, and the results were catastrophic for sorghum producers.

Producers in the Rio Grande Valley alone lost $31 million to the pest in 2015, according to an AgriLife Extension study that also showed producers who utilized recommended scouting and spraying regimens once the pest neared thresholds avoided $35 million in potential losses.

Since then, sugarcane aphids effect on Texas’ sorghum production has waned, and Porter said this season has shown numbers continue to decline.

“There’s so many fewer aphids coming up from South Texas,” he said. “The resistant hybrids are the No. 1 factor, and then you have producers in South and Central Texas who are on top of their numbers and really decreasing the migratory populations.”

Porter said some producers along the Gulf Coast sprayed their fields, but he suspects sugarcane aphids may be manageable in the High Plains without applications if beneficial insect populations are well-established.

**Forage sorghum**

Forage sorghum, however, continues to be impacted by sugarcane aphids because there are very few aphid-tolerant forage sorghum hybrids. It is also planted more densely and grows taller than grain fields. Those factors make spray applications less effective and forage fields more susceptible to significant infestations.

Jourdan Bell, Ph. D., AgriLife Extension agronomist, Amarillo, said forage sorghum has become an increasingly important silage option for beef cattle and dairy producers in the region. It’s a drought-tolerant alternative to corn silage and can withstand intermittent periods of in-season drought stress without losing quality as quickly as corn.

Bell said Texas A&M AgriLife Research efforts are showing that sugarcane aphid effects on forage yields and quality can be mitigated with actions that reduce their impact on grain fields – timely identification and management.

Untreated test plots experienced 33%-44% yield losses and reduction in quality as a forage, she said. Data showed relative feed quality was reduced by as much as 50% under heavy sugarcane aphid infestations.

“With the arrival of sugarcane aphids on the Texas High Plains, we have seen many forage sorghum fields lost to sugarcane aphid feeding as well as yield and quality reductions,” she said. “It is important that producers and consultants are scouting their forage sorghum fields and applying timely insecticide application to maintain yield and quality.”

![Sugarcane aphids on sorghum leaf](image)
Change is inevitable, but this year it has been extreme. The COVID19 pandemic disrupted our personal and professional lives, creating an avalanche of change. 

Faculty, staff, and students in the Department of Soil and Crop Sciences will see a much different semester this fall. Teaching faculty has been scrambling to provide remote options to classes that will remain even after face-to-face instruction resumes. Updated classrooms now include the technology to meet the demands of virtual attendance needs.

Labs and other hands-on activities will take on a whole new look.

“My class typically introduces students to real-world challenges that they will face in the turfgrass industry. In the past it has involved several site visits, hands-on activities, and guest speaking arrangements and interactions,” said Chase Straw, Ph.D., an Assistant Professor of Turfgrass Science who joined the faculty this spring. “Unfortunately, this year is going to be a much different experience for the students because the site visits will be minimal and many of the guest speakers will talk to the class via Zoom. I still very much look forward to teaching the course; it is just not what I expected for my first go-around at A&M.”

“Our need for social distancing has made me rethink how I can deliver information and assess learning,” said Dr. Steve Hague, Ph.D., Professor and cotton breeder. “I am anxious to roll out these new techniques and interact with students on a regular basis.”

Extension

Like others, Texas A&M AgriLife Extension faculty and program specialists have totally revamped their programs. Zoom meetings and video have taken the place of the standard meetings, presenting both benefits and challenges.

While all hope to be able to continue with their face-to-face meetings, changes were necessary, especially in the short run.

“I am planning to continue Texas Watershed Stewards (TWS) workshops in person, with an option to attend remotely,” said Michael Kuitu, AgriLife Extension Program Specialist and program coordinator.

“However, there are still multiple hurdles to get through. Since we will be delivering curriculum via a new format, we need to get new approvals from the Texas Department of Agriculture, Texas Floodplain Management Association and other professional organizations we provide continuing education for.”

“The Texas Soil Service and Water Conservation Board has approved a one-year, no-cost extension for TWS, and we will be adding a virtual attendance option to our in-person workshops”, Kuitu said. “We have yet to see how it goes. I’m sure there will be some learning on my part, but I am looking forward to it!”

“One thing that is really different for me is the absence of field days and crop tours,” said Dale Mott, AgriLife Extension Program Specialist in the cotton program. “Some field days and trainings were cancelled, and others had to move to a virtual platform. This provided an avenue to discuss current hot topics and management strategies, but I feel my message may not come across with the same impact as it can with an in-person event in the fields.”

On the positive side, Mott sees the possibility for the virtual crop tours to reach non-traditional participants and those who may not be available on the day of the tour. Those people can view the recorded program and even review sections at their discretion, he said.

“The thirst for outreach remains strong, and the virtual meetings are filling the gap to provide basic knowledge, but there is another level of education we can’t deliver virtually,” said Jake Mowrer, Assistant
It was a relatively chilly morning Friday, February 28 of the current year, when I hit the road from Bozeman, Montana, to College Station, Texas. I was headed to a new job with Texas A&M University Agrilife Extension, in charge of the statewide small grains and oil seed program. I left Bozeman with much enthusiasm and excitement, and lots of energy to start a new phase in my professional career.

Given the obvious climatic differences between these latitudes I was aware that I would need to switch my mind to ‘adapt’ mode, something I had done quite a few times in the past. The major adaptation happened back in 1994 when I moved from Bolivia, my home country, to the U.S. for the first time.

Not even two weeks into my work at TAMU, on March 13, the unprecedented uncertainties and challenges associated with the COVID-19 pandemic compelled the president of the university to release a disaster declaration. What followed is history.

COVID-19 has imposed challenges in my work activities in a significant manner. Working in agricultural extension requires constant interaction in educational efforts between the major players: research and extension colleagues, farmers, advisory groups, agricultural industry representatives, and county agents; interactions that traditionally, and for practical reasons, are done in various types of face-to-face meetings.

All of a sudden, planned and expected extension meetings had to be postponed and/or cancelled. In my particular case, small grains agricultural field days across the state, which usually start in April and go well until near the end of the growing season.

The field days are the traditional means of transferring practical research-based information to the farm, where all the players involved in small grains gather to further educate themselves, meet each other, exchange ideas and visions, discuss problems, share findings, and even find some spare time to socialize. Suddenly they had to be done under virtual scenarios.

Switching to virtual platforms had its own challenges, and imposed - still does- a good dosage of effort, coordination, and patience.

After nearly five months of living and working under this new reality, I paused my daily work for a bit to reflect on what was I able to accomplish during this time, and what do I expect ahead.

Carrying to term under the pandemic all the good field research efforts that my predecessors started was a challenge that required a good dosage of courage, discipline, and determination. Feeling that same attitude in my colleagues here at AgriLife Research and Extension no doubt gave me even more strength to push through and get things done.

What I saw there was spirit. What lies ahead is still uncertain in my view. But under this new reality, all that we at Agrilife Research and Extension, and the University as a whole, were able to accomplish in our work so far, big and small, gives me lots of hope and strength. We adapted, we will prevail.
Sympathies and Concerns

Please keep these members of our Soil & Crop Sciences family in your thoughts and prayers.

All those whose lives and careers were disrupted by the novel coronavirus, COVID-19.

Dr. Mike Chandler as he recovers from knee surgery. He was injured by a fall from a ladder.

Dr. Kathy Carson and her family as they battle Olivia’s bone cancer.

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**Calendar**

### August

- **11** - Healthy Lawns Healthy Waters online workshop - Lavaca River Contact: [johnwsmith@tamu.edu](mailto:johnwsmith@tamu.edu)
- **12** - Healthy Lawns Healthy Waters online workshop - Tres Palacios Contact: [johnwsmith@tamu.edu](mailto:johnwsmith@tamu.edu)
- **13** - Big Country Wheat webinar #1
- **17-20** - National Association of Plant Breeders virtual annual meeting
- **20** - Healthy Lawns Healthy Waters online workshop - Mill Creek Contact: [johnwsmith@tamu.edu](mailto:johnwsmith@tamu.edu)
- **20** - Big Country Wheat webinar #2
- **21** - Stockpiled forage and winter pasture virtual program - [https://agriliferegister.tamu.edu/pasture](https://agriliferegister.tamu.edu/pasture)
- **26** - Healthy Lawns Healthy Waters online workshop - Leon River Contact: [johnwsmith@tamu.edu](mailto:johnwsmith@tamu.edu)
- **20** - Healthy Lawns Healthy Waters online workshop - Lampasas River Contact: [johnwsmith@tamu.edu](mailto:johnwsmith@tamu.edu)
- **27** - Big Country Wheat webinar #3

### September

- **2** - Texas Watershed Stewards Workshop - Plum Creek watershed, Luling, TX Contact: [Michael Kuitu](mailto:Michael.Kuitu@usu.edu)
- **3** - Healthy Lawns Healthy Waters online workshop - Arroyo-Colorado Contact: [johnwsmith@tamu.edu](mailto:johnwsmith@tamu.edu)
- **15** - Texas Watershed Stewards Workshop - Joe Pool Lake, Mansfield, TX Contact: [Michael Kuitu](mailto:Michael.Kuitu@usu.edu)

### October

- **1-2** - Surface Mine Reclamation Workshop
- **3** - Healthy Lawns Healthy Waters online workshop - San Jacinto west fork Contact: [johnwsmith@tamu.edu](mailto:johnwsmith@tamu.edu)
- **27-29** - Council for Agriculture Science and Technology annual meeting

### Looking Ahead

- **November 9-13** - ASA/CSSA/SSSA virtual Annual meeting
- **November 12** - Texas Watershed Stewards Workshop - Lake Livingston, Livingston, TX Contact: [Michael Kuitu](mailto:Michael.Kuitu@usu.edu)
- **December 1-2** - Texas Turfgrass Assn. Winter Meeting