

# GRACE FLUSCHE OGDEN

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## EDUCATION

- Doctor of Philosophy, Soil Science** 2023  
Department of Plant and Soil Sciences  
Oklahoma State University | Stillwater, OK  
Dissertation title: "Sweep tillage influence on soil health and weed management"
- Master of Science, Plant and Soil Science** 2020  
Department of Plant and Soil Science  
Texas Tech University | Lubbock, TX  
Thesis title: "The influence of glufosinate in auxinic-based herbicide systems"
- Bachelor of Science, Plant and Soil Science** 2018  
Department of Plant and Soil Sciences  
Oklahoma State University | Stillwater, OK
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## PROFESSIONAL EXPERIENCE

- Assistant Professor of Agronomy** August 2023- Present  
*Dual appointment*  
East Texas A&M University (60%)  
College of Agricultural Sciences and Natural Resources | Commerce, Texas  
Texas A&M AgriLife Research (40%)  
Department of Soil and Crop Sciences | College Station, Texas
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## REFEREED PUBLICATIONS

- Garcia, GA, JG Warren, SA Abit, C Garcia, and **G Flusche Ogden** (2022) Sample processing impacts on single wet sieve aggregate stability analysis. *Agriculture and Environmental Letters*, Vol 7 (2), 1-6.
- Flusche Ogden, G** and PA Dotray (2022) Managing Palmer amaranth (*Amaranthus palmeri*) with sequential applications of glufosinate and 2,4-D. *Journal of Experimental Agriculture International*, Vol 44 (9), 180-187.
- Ogden, GF** and PA Dotray (2021) Using glufosinate in sequential application systems with dicamba on Palmer amaranth. *Journal of Experimental Agriculture International*, Vol 43 (4), 10-20.
- Flusche, GK**, S Folchert, T Danielson, and D Franks (2016) The use of rice as a sugar source in yeast fermentation: will yeast take the bait? *Journal of Introductory Biology Investigators*, Vol 3, 1-2.
- Flusche, GK**, and T Gull (2015) Comparison of two adjuvants in an experimental in an experimental *Actinobacillus equuli* vaccine in horses. *Research Reports from Life Science Freshman Research Scholars*, Vol 1, 12-16.

# PROFESSIONAL PRESENTATIONS & MEETING ABSTRACTS

## Invited Oral Presentations:

- Flusche Ogden, G.** (2025) Improving ryegrass management in winter wheat: spray volume and variety sensitivity insights. Texas Plant Protection Association Annual Conference. Bryan, Texas. December 10, 2025.
- Flusche Ogden, G.** (2025) Current herbicide research in Northeast Texas. Agriculture Technology Conference. Commerce, TX. December 11, 2025.
- Flusche Ogden, G.** (2025) Use of technology for effective communication. CANVAS Annual Meeting. Salt Lake City, UT. November 9, 2025.
- Flusche Ogden, G.**(2025) Northeast Texas Update. Annual Small Grains Workers Meeting. Bryan, TX. August 6, 2025.
- Flusche Ogden, G.** (2023) Forage and pasture weed management. Agriculture Technology Conference. Commerce, TX. December 7, 2023.
- Flusche Ogden, G** and JG Warren (2022) Controlling tumble windmill grass with sweep tillage. Oklahoma State University Winter Crops School. Stillwater, OK. December 14, 2022.
- Flusche Ogden, G** and JG Warren (2022) Sweep tillage impact on soil health. Oklahoma State University Winter Crops School. Stillwater, OK. December 14, 2022.
- Flusche Ogden, G** and JG Warren (2022) Sweep tillage influence on soil health and weed management in sorghum. Oklahoma State University Sorghum Field Day in Nardin, OK. August 18, 2022.
- Flusche Ogden, G** (2021) Tillage impact on delayed preemergence herbicides. Oklahoma Cooperative Extension Service Northeast District Ag In-Service. Perkins, OK.

## Oral Presentations:

- Flusche Ogden, G.** and Bledsoe, M. (2025) Constructing knowledge: Using Legos and farm-based learning in soil science education. CANVAS Annual Meeting.
- Flusche Ogden, G,** BJ Haggard (2023) Changing student perspectives of farming through field-trip experiences. ASA, CSSA, SSSA International Annual Meeting.
- Flusche Ogden, G,** JG Warren (2023) Weed control benefits and soil response to sweep tillage. Western Society of Weed Science Annual Meeting.
- Flusche Ogden, G,** AC Thelin, JG Warren, MR Manuchehri (2022) Managing tumble windmill grass with sweep tillage. American Society of Agronomy Annual Meeting.
- Flusche Ogden, G,** and JG Warren (2022) Sweep tillage impact on tumble windmill grass. Western Society of Weed Science Annual Meeting.
- Flusche Ogden, G,** JG Warren, MR Manuchehri (2021) Tillage impacts on preemergence herbicide efficacy in Oklahoma winter wheat. ASA, CSSA, SSSA International Annual Meeting.
- Flusche Ogden, G,** MR Manuchehri, JG Warren. (2021) Tillage system impact on efficacy of delayed preemergence herbicides in winter wheat. Western Society of Weed Science Annual Meeting.
- Flusche Ogden, G,** PA Dotray, U Torres, JD Everitt (2020) The importance of glufosinate for managing Palmer amaranth (*Amaranthus palmeri*) in auxin-based herbicide systems. Weed Science Society of America Annual Meeting.
- Flusche Ogden, G** and PA Dotray (2019) Sequential application timings of Liberty and Engenia. West Texas Agricultural Chemical Institute.
- Flusche Ogden, G** and PA Dotray (2019) Managing Palmer amaranth (*Amaranthus palmeri*) with XtendiMax and Liberty with and without Warrant. Texas Tech University Annual Biological Society Symposium.

### Oral presentations, continued:

- Flusche Ogden, G** and PA Dotray (2019) Managing Palmer amaranth (*Amaranthus palmeri*) with XtendiMax and Liberty with and without Warrant. Texas Tech University Annual Biological Society Symposium.
- Ogden, GK**, and MR Manuchehri. (2018) Italian ryegrass management in Oklahoma winter wheat. Proc. Oklahoma State University Niblack Research Scholars Symposium.
- Ogden, GK**, MR Manuchehri, JA Crose, KE Cole (2018) Development of pinoxaden resistant Italian ryegrass in Oklahoma winter wheat. Oklahoma State University Plant and Soil Sciences Research Symposium.

### Posters:

- Weinmann, E, J Kopachena, and **G Flusche Ogden** (2025) Land use influence on soil organic matter in Houston Black clay. East Texas A&M Annual Research Symposium.
- Carmack, M and Flusche Ogden, G (2025) Impact of single-drum aerator on forage systems. East Texas A&M Annual Research Symposium.
- Olavarria, A and Flusche Ogden, G (2025) Spray volume influence on pyroxasulfone efficacy in winter wheat. East Texas A&M Annual Research Symposium.
- Smith, B, **G Flusche Ogden**, and J Mumm (2025) Price comparison of commercial and locally-sourced pork products. East Texas A&M Annual Research Symposium.
- Flusche Ogden, G** and J Turner (2024) Impact of single-drum aerator on forage quality. ASA, CSSA, SSSA International Annual Meeting.
- Wimberly-Goodrich, T, **G Flusche Ogden**, H Griffith, D Eborn (2024) Impact of Single-Drum Aerator on Soil Aggregate Stability in Grazing Systems. ASA, CSSA, SSSA International Annual Meeting.
- Flusche Ogden, G**, JG Warren, and S Mustain (2023) Sweep tillage impact on weed management and soil health in Oklahoma. ASA, CSSA, SSSA International Annual Meeting.
- Flusche Ogden, G** and JG Warren (2022) Tumble windmill grass: producer survey. Oklahoma State University Winter Crops School.
- Mustain, S, **G Flusche Ogden**, JG Warren (2022) Oklahoma soil response to sweep tillage. Students of Agronomy, Soils, and Environmental Sciences Annual Meeting.
- Thelin, AC, **G Flusche Ogden**, JG Warren (2022) Sweep tillage impact on soil aggregate stability. Oklahoma State University Undergraduate Research Symposium.
- McPeak, MR, JG Warren, **G Flusche Ogden** (2022) Soil aggregate stability from agriculturally utilized areas and natural areas. Oklahoma State University Freshman Research Scholar Symposium.
- Brewster, A, JG Warren, **G Flusche Ogden** (2022) Oklahoma tillage and crop trends. Oklahoma State University Freshman Research Scholar Symposium.
- Flusche Ogden, G**, and JG Warren (2021) Sweep tillage impact on corn, wheat, sorghum rotations. Oklahoma State University Winter Crops School.
- Flusche Ogden, G**, PA Dotray, JD Everitt (2020) The importance of glufosinate for managing Palmer amaranth (*Amaranthus palmeri*) in auxin-based herbicide systems. Southern Society of Weed Science.
- Flusche Ogden, G**, PA Dotray, U Torres, JD Everitt (2020) Sequential applications of Liberty® and Enlist® or XtendiMax®. Beltwide Cotton Conference.
- Flusche Ogden, G** and PA Dotray (2019) Sesame response to preemergence herbicides. Proc. TTU Grad Stud Research Poster Contest.
- Flusche Ogden, G**, PA Dotray, JD Everitt (2019) Managing Palmer amaranth with sequential applications of dicamba and glufosinate with and without acetochlor. Weed Sci. Soc. Am.
- Flusche Ogden, G**, PA Dotray, JD Everitt (2019) Palmer amaranth control following sequential applications of XtendiMax and Liberty with and without Warrant. Proc. South. Soc. Weed Sci.

# PROFESSIONAL PRESENTATIONS & MEETING ABSTRACTS, CONTINUED

## Posters, Continued:

- Ogden, GF**, PA Dotray, JD Everitt (2019) Managing Palmer amaranth with XtendiMax® and Liberty® with and without Warrant®. Proc. Beltwide Cotton Conf.
- Ogden, GF**, PA Dotray, KR Russell, JD Everitt (2018) Sequential timings of Liberty® 280 SL and XtendiMax® with VaporGrip Technology® with and without Warrant® for Palmer amaranth management. West Texas Ag. Chem. Inst.
- Ogden, GK**, MR Manuchehri, KE Cole, JA Crose, AC Hixson (2018) Management of Italian ryegrass in Oklahoma winter wheat. Proc. OK EPSCoR Research Day at the Capitol.
- Ogden, GK**, MR Manuchehri, KE Cole, JA Crose, AC Hixson (2018) Management of Italian ryegrass in Oklahoma winter wheat. Proc. OK EPSCoR Research Day at the Capitol.
- Ogden, GK**, MR Manuchehri, AC Hixson, KE Cole, JA Crose (2018) The development and management of ACCase resistant Italian ryegrass in Oklahoma. Proc. West Soc. Weed Sci.
- Ogden, GK**, MR Manuchehri, AC Hixson (2017) Management of herbicide resistant Italian ryegrass in Oklahoma. Proc. Stud. Agron. Soil. and Environ. Sci.
- Ogden, GK**, MR Manuchehri, AC Hixson (2017) Preemergence weed management systems in winter wheat. OK State Plant and Soil Sci. Res. Symp.
- Ogden, GK**, MR Manuchehri, AC Hixson (2017) Pyroxasulfone weed management systems in Oklahoma winter wheat. Proc. West Soc. Weed Sci.
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## TECHNICAL PUBLICATIONS & POPULAR ARTICLES

- Lofton, J, T Baughman, J Rice, and **G Flusche Ogden** (2023) Wheat herbicide rotation restrictions to soybean in Oklahoma. Oklahoma State Cooperative Extension Fact Sheet, PSS-2798.
- Champagne, R and **G Flusche Ogden** (2021) Navigating mental health in graduate school. CSA News, Vol 66 (12), 36-38.
- Flusche Ogden, G**, R LaCroix, P Boyle, and MT Tancredi (2021) Permanent funding sought for graduate student travel grants. CSA News, Vol 66 (8), 40.
- Manuchehri, MR, **G Ogden**, and Crose, JA (2019) Herbicide programs for Italian ryegrass control in winter wheat. Oklahoma State Cooperative Extension Fact Sheet, PSS-2791.
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## TEACHING EXPERIENCE

Instructor: PLS 323 Field Crops. Fall 2025. 4 credit hours. 7 students.

Instructor: PLS 326 Forage & Pasture Crops. Spring 2024 & 2025 3 credit hours. 28 students.

Instructor: PLS 597 Agronomy Special Topics. Spring 2024 & Summer II 2025. 3 credit hours. 16 students.

Instructor: PLS 1307 Intro to Plant Science. Fall 2023, 2024, & 2025. 3 credit hours. 171 students.

Instructor: PLS 1107 Intro to Plant Science Lab. Fall 2023, 2024, 2025. 1 credit hour. 60 students.

Instructor: PLS 309 Intro to Soil Science. Fall & Spring 2023, 2024, 2025. 3 credit hours. 150 students.

Instructor: PLNT 4443/5543 Cropping Systems (OSU). Fall 2021/2022. 3 credit hours. 27 students.

# EXTERNAL FUNDING & GRANTS

East Texas A&M University Honors College- Challenge Grant. (2025). ETAMU Twin Oaks Farm for Experiential Learning Leadership Experience: An Honors College Faculty/Staff Challenge Grant Initiative. Co-PI with M. Pfeiffer Salem. \$4,000. FUNDED.

Sustainable Agriculture Research and Education- Graduate Student Grant. (2025). Building Soil Health and Forage Quality: A Comparative Study of Organic and Synthetic Fertilizers. Co-PI with Melody Carmack. Requested \$21,043 NOT FUNDED.

Texas Corn Producers Board. (2025). Soil Nutrient Sustainability and Hybrid Evaluation in Northeast Texas Corn 2025. Co-PI with D. Drake, awarded \$10,000 (responsible for \$500) FUNDED.

Texas Wheat Producers Board. (2025). *Evaluation of Critical Inputs to Improve the Profitability of Soft Red Winter Wheat in Northeast Texas: A Multi Year Study*. Co-PI with D. Drake, awarded \$15k (responsible for \$7,500) FUNDED.

Texas A&M University-Commerce College of Agriculture Sciences and Natural Resources Unity Grant. (2024). *Value-Added Cotton Production for Northeast Texas*. Co-PI with J. Lopez, D. Drake, R. Williams, and B. Clemmons, awarded \$10k (responsible for \$2k) FUNDED.

USDA-NIFA-EGP. (2024). *Acquisition of Plant Growth Chamber for Strengthening Controlled-Environment Research Capacity at Texas A&M University-Commerce*. Co-PI with D. Desire, D. Drake, J. Kopachena, R. Sutton, V. Cheriya, requested \$332k, NOT FUNDED.

USDA-AFRI-SAS 2024, *Adoption of sustainable production practices for minor producers in the southern Great Plains*. Co-PI with authors from Oklahoma State University, Langston University, and College of Muscogee Nation, requested ~\$8M (responsible for \$617k), NOT FUNDED.

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## SERVICE & LEADERSHIP

- ETAMU Twin Oaks Farm for Experiential Learning Faculty Supervisor 2024- present
- ETAMU Undergraduate Research Committee member 2025-present
- ETAMU Core Curriculum Committee Member 2025-present
- ETAMU Institutional Biohazards Committee member 2023-2025
- ETAMU Students of Agronomy, Soils, and Environmental Sciences club advisor 2024-2025
- Technical Reviewer for Southern SARE Graduate Student Grants 2024
- ASA K-12 Education and Outreach Committee Vice Chair/Chair 2023-2025
- ASA, CSSA, SSSA Early Career Members Committee member 2024-2026

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## PROFESSIONAL MEMBERSHIPS

American Society of Agronomy (ASA), 2016 to present

Soil Science Society of America (SSSA), 2016 to present

Crop Science Society of America (CSA), 2016 to present