

GRACE FLUSCHE OGDEN

Assistant Professor of Agronomy
grace.ogden@etamu.edu | grace.ogden@ag.tamu.edu
903.886.5363

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	

PROFESSIONAL EXPERIENCE

Assistant Professor of Agronomy	August 2023- Present
<i>Dual appointment</i>	
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	

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.

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.

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.

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. Clemons, 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. Cheriyath, 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.

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

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