



Lori Duncan

Lori Duncan is the recipient of the Larry W. Turner Young Extension Professional award for her development of a nationally recognized extension program that promotes sustainable management strategies among growers, consultants, agribusinesses, commodity organizations, and regulators.

Duncan is an assistant professor and crop sustainability specialist in biosystems engineering at the University of Tennessee. In this role, she conducts research and extension work for her sustainable row crop production systems educational program. This program promotes adoption of best management practices that reduce environmental impacts and maintain/improve crop profitability. Duncan has created an integrated, multi-disciplinary research, education, and outreach program that has been established to develop, document, and disseminate information about sustainable production management strategies to Tennessee producers.

Duncan's extension program promotes the adoption of best management practices that include fertilizer 4R practices such as site-specific soil sampling, variable-rate application, and cover crops that result in more sustainable row crop production systems. This is approached from an environmental and economic perspective to further encourage producer participation. The applied research projects include use and development of the Field to Market Fieldprint Calculator, development and promotion of national sustainability programs, comparison of soil fertility philosophies, establishment of cover crops, use of field borders,

use of spatial information to delineate management zones, variable rate inputs, unmanned aerial systems, and irrigation management. Duncan utilizes county agent in-service trainings, field days, county and multi-county producer meetings, on-farm demonstrations, popular press articles, extension publications, social media posts, personal contacts, and information gained from her applied research program to promote the adoption of sustainable row crop production management strategies.

A 16-year member of ASABE, Duncan is very active within ASABE. She is currently a member of MS-54 Precision Agriculture, chair of ASE-16 Engineering for Sustainability, and member and past-chair of MS-23/7/3 Cotton Engineering. She served as a judging coordinator for the ASABE Blue Ribbon Awards and as chair of the Mayfield Engineering award. She is also the faculty advisor for the University of Tennessee ASABE student chapter.

Duncan is author or coauthor of 9 refereed journal articles, 17 conference proceeding papers, 31 popular press articles, and 21 other publications. Duncan has mentored 8 undergraduate and 10 graduate students, and has given 352 presentations to 14,209 contacts including county agents, producers, consultants, youth, college students, academia, and other professionals. Duncan has won several awards throughout her career including an ASABE Blue Ribbon award.