



First Name: **Brian** Last Name: **Leib**  
 Title: **Associate Professor and Extension Irrigation Specialist**  
 Institution: **University of Tennessee**  
 Mailing Address: **Biosystems Engineering & Soil Science**  
**2506 EJ Chapman Drive**  
 City: **Knoxville** State: **TN** Zip Code: **37922**  
 Country: **USA**  
 Country Code: **1** Phone: **(865) 274-3232**



PLACE HEADSHOT HERE

Email: [bleib@utk.edu](mailto:bleib@utk.edu)

Website: [https://ag.tennessee.edu/BESS/Pages/show\\_person.aspx?q=1040](https://ag.tennessee.edu/BESS/Pages/show_person.aspx?q=1040)

**Education:**

PhD: **The Pennsylvania State University** MS: **Colorado State University** BS: **The Pennsylvania State University**

**General Areas of Expertise:**

Irrigation System Management and Design. Rain Harvesting & Energy Conservation in High Tunnels

**Short Bio:**

Dr. Brian Leib, an Agricultural & Biological Systems Engineer, has been working in research and extension of irrigated agriculture for over 30 years. He has performed irrigation research projects in many crops: alfalfa, small grains, cantaloupe, apples, cherries, peaches, wine grapes, mint, tobacco, forage grasses, pumpkins, tomatoes, peppers, lettuce, cotton, and soybeans. These projects have been conducted in a variety of climates spanning arid and humid regions using many different types of irrigation systems including surface, sprinkler, and drip irrigation. He has also worked to improve water management through developing irrigation scheduling software, testing soil water sensors, establishing weather data networks, improving irrigation systems to control salinity, implementing deficit irrigation strategies, reducing erosion from furrow irrigation, and capturing rain water for utilization in high tunnel irrigation.

**Five Representative Publications:**

1. Zheng, M., B. G. Leib\*, D. M. Butler, W. C. Wright, P. D. Ayers, and D. G. Hayes. 2017. Modeling energy balance and airflow characteristics in a naturally ventilated high tunnel. Transactions of ASABE, 60(5) 1683-1697.
2. Grant, T. J., B. G. Leib\*, H. J. Savoy, D. Verbee and A. Haghverdi. 2017. Cotton response to irrigation and nitrogen source in differing Mid-South soils. Agronomy Journal, 109 (6): 2537-2544.
3. Haghverdi, A., B. G. Leib\*, R. A. Washington-Allen, M. J. Buschermohle, and P. D. Ayers. 2016. Studying uniform and variable rate center pivot irrigation strategies with the aid of site specific water production functions. Computers and Electronics in Agriculture, 123: 327-340.
4. Leib, B. G., J. Payero, L. Pringle, J. Bordovsky, W. Porter, and E. Barnes. 2015. Placement and interpretation of soil moisture sensors for irrigated cotton production in humid regions (peer reviewed – extension publication). Cotton Incorporated, Cary, NC.
5. Yeary W., A. Fulcher, and B. G. Leib. 2015. Nursery irrigation: a guide for reducing risk and improving production (peer reviewed – extension publication). UT Extension Publication, PB 1836. University of Tennessee, Knoxville, TN.

**FEWSTERN Symposium 2017 Presentation Title and Abstract:**

I have not been notified if I will be allowed to present these short topics at the conference.

1. Rain Harvesting Results from High Tunnels in Tennessee
2. Passive Thermal Protection Strategies Applied inside High Tunnels