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SEMINARIO

Irrigation Management Strategies to Sustain Agriculture with Limited Water Supplies in the Central Plains, US

Dr Thomas J Trout

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Fort Collins, Colorado



Dr. Trout received his Ph.D. in agricultural engineering from Colorado State University in 1979. His early work was in international agricultural development for CSU, USAID, and the World Bank. In 1982, he joined ARS at Kimberly, Idaho, where he developed surface irrigation systems, including cablegation, soil infiltration management practices, and methods to evaluate and reduce irrigation-induced erosion.

In 1995, he became research leader of the Water Management Research unit in Fresno, California, where he improved irrigation water management practices for several horticultural crops. He also led a multidisciplinary team to develop drip irrigation application of soil fumigants for high-value crops as an alternative to fumigation with methyl bromide. His methyl bromide alternatives team won several important awards. In 2006, he transferred to Fort Collins, Colorado, to be research leader of the Water Management Research Unit where he is developing practices to sustain irrigated agriculture faced with declining water supplies in the Central Plains.



In his seminar, Dr. Trout will present research that he and his team are conducting to determine the water production functions for 4 crops common in the High Plains: corn, wheat, dry beans, and sunflower. Moreover, Dr. Trout will introduce the remote sensing assisted irrigation scheduling approach under development at USDA-ARS-Water Management Research.



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