

0203-SC-098 Acquisition and testing of Mist Irrigation Control and Monitoring Technologies.

PI: Scherer, Thomas; E-mail: tscherer@ndsuent.nodak.edu

North Dakota State University, Agricultural & Biosystems Engineering Department, Fargo, ND 58105

Grant #: NA; \$7,700; 1 Year

Research Area: CBC

PROJECT ABSTRACT

(1 Page Limit)

This project is designed to enhance the control and monitoring capacities of the field irrigation system used by FHB researchers at NDSU. The existing control system will be upgraded through acquisition of technology that will enable accurate monitoring and control of both the operation of the mist system and the microclimate within plots. These technologies can also be applied in a greenhouse setting. The PI, an Agricultural Engineer specializing in irrigation management, will oversee the acquisition, installation, and first season operation of a suite of control and monitoring technologies. Once operational, the new system will enable research aimed at identification of ideal misting schedules.