

Why Have Guidelines for Conducting Research in Controlled Environment Systems? (Z08-karnok023346-Oral)

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Abstract:

The use of controlled environment systems (CES), which include growth chambers and greenhouses, are valuable research tools since they provide consistent and well defined environments for plant growth. This year alone, more than 40 percent of the papers published in Crop Science used some form of CES. Although commonly used, studies have shown that consistent and well defined environments assumed by the researcher are often not the case. Poorly managed or maintained CES can result in dramatic variations in the controlled environment, thus resulting in misinterpretation of the data collected. Over the past two years, the Crop Science Editorial Board has worked to develop guidelines for conducting research in CES. These guidelines have been established to help researchers better understand how to properly use CES as well as aid editors and reviewers in evaluating manuscripts submitted to Crop Science.

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