

EVALUATION OF SEED TECHNOLOGIES AND PRODUCTION SYSTEMS**D.E. McGriff****M.D. Von Waldner****University of Georgia Extension Service****Pearson, GA****P. H. Jost****University of Georgia****Statesboro, GA****Abstract**

Most public sector cotton variety trials are conducted to determine the genetic potential of each entry; hence, all varieties are produced with the same management and with the goal of producing maximum yields. This study was undertaken to determine how each variety would perform in its designed technology system. Two conventional varieties and eighteen transgenic varieties in eight different technology systems (Bollgard/Roundup Ready, Roundup Ready, Roundup Ready Flex, BollgardII/Roundup Ready Flex, WideStrike/Roundup Ready Flex, WideStrike/Roundup Ready, BollgardII /Roundup Ready and Liberty Link) were replicated four times in a complete block design. Each technology system was scouted for insects and weeds once a week and herbicides and insecticides were applied according to technology system and University of Georgia Extension recommendations. Yields, grades and economics of each variety in its technology system were evaluated.