

**DRYING WET SEED COTTON WITH MICROWAVE RADIATION**

**Kevin D. Baker**

**USDA ARS Southwestern Cotton Ginning Research Laboratory**

**Mesilla Park, NM**

**Abstract**

A laboratory dryer was equipped with the electrical components needed to generate microwave radiation at a frequency of 2.45 GHZ. The purpose was to determine if microwave radiation could successfully be used to dry seed cotton that was greater than 12 % moisture content, wet basis, and to determine how far the drying front could penetrate seed cotton at a density of 4 lb/ft<sup>3</sup> (approximately what would be found in a feed control unit) and at a density of 12 lb/ft<sup>3</sup> (approximately the density in a standard seed cotton module). Results will follow in a later publication.