Development of High-Yielding, High-Oleic Valencia Peanuts.

M. D. BUROW* and J. L. AYERS, Texas AgriLife Research, Texas A&M System, Lubbock, TX 79403, and Texas Tech University, Department of Plant and Soil Science, Lubbock, TX, 79409; A. MUTIA, Department of Plant and Soil Sciences, Texas Tech University, Lubbock, TX 79409; A. M. SCHUBERT †, Y. LÓPEZ, Texas AgriLife Research, Texas A&M System, Lubbock, TX 79403; C. E. SIMPSON, Texas AgriLife Research, Texas A&M System, Stephenville, TX 79403; N. PUPPALA, Agricultural Sciences Center, New Mexico State University, Clovis, NM 88001; and M. R. BARING, Texas AgriLife Research, Texas A&M System, College Station, TX 77843.

We have tested and identified improved high-oleic Valencia peanut lines, with the goal of developing a high oleic Valencia cultivar. Over several years of testing at multiple locations, high-oleic Valencia lines yielding better than or equal to New Mexico Valencia C were identified. Lines were screened for tolerance to Sclerotinia minor, and tolerance was confirmed in several lines. Testing for flavor and blanching is underway.