Breeder seed of Palmer III will be maintained by AgriBioTech. Seed increase will be limited to three generations of increase from Breeder seed: Foundation, Registered, and Certified. Application (no. 9700358) has been made for U.S. plant variety protection.

V.G. LEHMAN, MARIE E. POMPEI, RICHARD H. HURLEY, DIRK A. SMITH, RONALD F. BABA, AND C. REED FUNK* (7)

References and Notes

7. V.G. Lehman, M.E. Pompei, and R.H. Hurley. Loftis Seed, 2325 South Stratford Rd., Winston Salem, NC 27103; D.A. Smith, R.F. Baba, and C.R. Funk, Plant Science Dep., Forall Hall, Cook College, Rutgers Univ., New Brunswick, NJ 08901. Publication no. D-12155-1-99. Some of this work was conducted as part of NIAES Project no. 12155, supported by NIAES funds, other grants, and gifts. Additional support was received from the U.S. Golf Association - Golf Course Superintendents Association of America Research Fund, and the New Jersey Turfgrass Association. Appreciation is expressed to Raymond Schaaf, George Zieminski, Michael Reynolds, Barbara Smith and all participants involved in the National Turfgrass Evaluation Program for their assistance. Registration by CSSA. Accepted 31 Dec. 1999. *Corresponding author (BASmith @aesop.rutgers.edu).


Registration of ‘VA 98R’ Peanut

‘VA 98R’ Reg. no. CV-66, PI 607566) is a large-seeded, virginia-type peanut (Arachis hypogaea L. sp. hypogaea var. hypogaea) with high yield potential and bright pod color. It has two characteristics that are highly desired by the peanut industry—a pink testa color and excellent pod characteristics which include bright color, desirable shape, and large size for the in-shell trade. Disease and insect reactions are similar to ‘VA 93B’ (3), except for sclerotinia blight caused by Sclerotinia minor (Jagger). In limited tests (10 over 3 yr), where this disease was severe enough to rate, VA 98R had more disease than VA 93B (28.6% of row feet exhibiting symptoms vs. 25.9%), but less than all other commercial virginia-type cultivars.

Maturity is considered as early as any large-seeded virginia-type cultivar currently grown (especially with irrigation) with excellent yield potential and grade characteristics even when dug at a 15 September harvest date (normal peanut harvest begins around 25 September in Virginia). Irrigated Early Maturity Tests with a 15 September digging date have been conducted for 5 yr (1994–1998) at a location in the western part of Virginia’s peanut production area (Dinwiddie County in 1994 and 1995 and Sussex County in 1996–1998). Data from these tests (5) show VA 98R to have a yield advantage of 15.1, 6.0, and 5.3% compared with VA 93B, our earliest maturing commercially available cultivar (9), which is approximately equal to VA 93B, our earliest maturing cultivars, respectively. Dollar value compared with the same cultivars was 21.4, 8.4, and 6.3% higher for VA 98R, respectively.

Data averaged across four locations for 4 yr (1995–1998) in the Peanut Variety and Quality Evaluation (PVOE) small plots (6), show VA 98R to have a 11.1, 5.2, and 4.2% yield advantage over NC 7, ‘NC-V 11’ (9), and VA-C 92R, respectively, for digging date I (normally the last week in September). Even though VA 98R is considered early maturing, its yield was 4.7, 3.2, and 0.3% higher than VA-C 92R, NC 7, and NC-V 11, respectively at the second digging date (2 wk later than digging date I). The dollar values were slightly more impressive with VA 98R being 12.0, 6.6, and 6.5% higher for digging date I and 4.4, 1.0, and 4.5% higher for digging date II than NC 7, NC-V 11, and VA-C 92R, respectively. These data show the excellent yield and dollar value potential for VA 98R when compared among the three most popular virginia-type cultivars grown today (VA-C 92R, NC 7, and NC-V 11). Fancy pod percentage of VA 98R (72%) was similar to NC-V 11 (74%), but lower than NC 7 (88%) and VA-C 92R (80%). The 41% extra large kernels (ELK) for VA 98R was lower than NC 7 (48%), higher than NC-V 11 (36%) and equal to VA-C 92R (40%). Total kernel content of VA 98R averaged approximately 1% higher than for the other cultivars. These yield and grade data reflect the early maturity for VA 98R as well as the potential to maintain yield and value at later digging dates.

Measurements of pod brightness, as determined by a colorimeter using Hunter L scores (higher number indicates brighter pod color), show VA 98R to have a brighter pod color than current virginia-type cultivars for both the jumbo and fancy size pods. For the Early Maturity Test (15 September digging date) the 3-yr (1996–1998) average L scores were 45.5 for VA 98R and 42.7, 41.5, and 41.2 for VA 93B, NC 7, and VA-C 92R, respectively for the jumbo size. The fancy size L scores were 42.4 for VA 98R and 40.0, 39.0, and 38.7 for VA 93B, NC 7, and VA-C 92R, respectively. Four-year (1995–1998) averages for two digging dates and four locations from the Peanut Variety and Quality Evaluation tests show VA 98R to have brighter pod color, as indicated by higher L scores, than NC-V 11, NC 7, and VA-C 92R for both the jumbo and fancy pod sizes (6). VA 98R had a L score of 45.70 compared with 43.97, 42.91, and 41.79, respectively for NC-V 11, NC 7, and VA-C 92R for the jumbo size and 44.29 compared with 43.48, 41.13, and 41.55 for the fancy size.