The percentage of sound mature kernels (SMK) was equal to those of NC 7 at the first digging date and significantly higher at the second digging date. The percentage of extra large kernels (ELK), while not as high as that of NC 7, was superior to NC 9, NC-V 11, and NC 10C. Fancy pod percentage was not as high as that of NC 7 or NC 9, but was higher than that of NC-V 11 and NC 10C.

Milling data show that VA-C 92R has a higher percentage of ELK and total outturn and a lower percentage of mediums and No. 1's than Florigiant. Removing the jumbo and fancy pods for in-shell use shows VA-C 92R to have a higher percentage of jumbo pods, ELK, and total outturn, and a lower percentage of No. 1's and No. 2's than Florigiant. The blanchability of VA-C 92R is superior to NC 7 because there are more whole blanched kernels and fewer not blanched and partially blanched kernels.

VA-C 92R has better shelf life than Florigiant, NC 9, NC 10C, and NC-V 11 as indicated by lower iodine values and higher oleic/linoleic (O/L) acid ratios for all grades. However, VA-C 92R is not equal in oil quality to NC 7, which is the best of any cultivar planted in the Virginia–Carolina production area. Analysis of the chemical composition of the peanut seed shows VA-C 92R has 47.9% oil and 26.7% protein, compared with 47.6% and 26.2%, respectively, for NC 7. Seed calcium content is greater for VA-C 92R than for other popular cultivars grown today. Four-year (1988–1991) averages show 37.5, 49.2, and 53.7% increases in seed calcium content for VA-C 92R over NC-V 11, NC 7, and NC 9, respectively.

Foundation seed will be produced under the direction of the Virginia Crop Improvement Association Foundation Seed Farm, Mt. Holly, VA 22524 and the North Carolina Foundation Seed Producers, Inc., 8220 Riley Hill Road, Zebulon, NC 27597. Breeder seed will be maintained by the Tidewater Agricultural Experiment Station, P. O. Box 7099, Suffolk, VA 23437.


References and Notes

8. R.W. Mozinho, Virginia Polytechnic Inst. and State Univ., Crop and Soil Environmental Sciences, Tidewater Agric. Exp. Stn., P.O. Box 7099, Holland Station, Suffolk, VA 23437; J.C. Wynne and T.G. Isleib, North Carolina State University, Raleigh, NC 37695; and D.M. Porter and T.A. Coffelt, USDA-ARS, Suffolk, VA 23437. Registration by CSSA. Accepted 30 Sept. 1993.