Registration of 'Georgia Green' Peanut

'Georgia Green' (Reg. no. CV-55, PI 587093) is a runner market-type peanut (Arachis hypogaea L. subsp. hypogaea var. hypogaea) cultivar that was released by the Georgia Agricultural Experiment Stations in 1995. It was developed at the University of Georgia Coastal Plain Experiment Station.

Georgia Green originated from a cross of 'Southern Runner' (2) with 'Sunbelt Runner' (3). Pedigree selection was practiced within the F2, F3, and F4 populations, and performance testing began in the F4.6 generation as GA T-2846.

Georgia Green has resistance to tomato spotted wilt virus (TSWV) comparable to 'Georgia Browne' (1) and Southern Runner. It is unique from many other runner-type peanut cultivars in having a distinctively darker green foliage, less vegetative canopy, and more decumbent spreading growth habit. Georgia Green combines the excellent yielding ability of Georgia Browne with the seed size of 'Florunner' (4).

In 37 tests conducted at multiple locations in the southeastern USA from 1990 to 1994, Georgia Green was found to be significantly higher in yield and dollar value per hectare by >10% over the Florunner cultivar. It produced a significantly higher grade percentage of total sound mature kernels (76 vs. 74%) than Florunner. No significant difference was found between Georgia Green and Florunner for 100 sound mature seed weight, percentage of extra large seed, and percentage of medium size seed.

Georgia Green and Florunner had significantly more No. 1 seed than Georgia Browne. Georgia Green is similar to Florunner in maturity, protein and oil content, iodine value, and flavor.

U.S. plant variety protection is pending. Breeder seed of Georgia Green will be maintained at the Coastal Plain Experiment Station at Tifton. Foundation seed will be available from the Georgia Seed Development Commission, 2420 S. Milledge Ave., Athens, GA 30605-3115.

References and Notes

5. Dep. of Crop and Soil Sciences, Univ. of Georgia, 1280 E. Newton St., Tifton, GA 31793-0748. Registration by Georgia Seed Development Commission, 1995. *Corresponding author.

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Registration of 'ICGV 86325' Peanut

'ICGV 86325', an Indian peanut (Arachis hypogaea L. subsp. hypogaea var. hypogaea) (Reg. no. CV-54, PI 590879) cultivar, was bred at the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) Asia Center (IAC), Patancheru, Andhra Pradesh, India. It was released in 1994 by the Central Sub-Committee on Crop Standards, Notification, and Release of Varieties, Department of Agriculture and Cooperation, Ministry of Agriculture, Government of India, for rainy-season cultivation in southern Maharashtra, Andhra Pradesh (excluding north coastal districts), Karnataka, and Tamil Nadu states in India. In 4 yr (1989 to 1992) of testing at 27 locations in the All India Coordinated Research Project on Oilseeds (AICORPO) oilseed trials, ICGV 86325 produced an average seed yield 29% greater than the national control cultivar Kadiri 3 (Robut 33-1) and 16% greater than the zonal control cultivar ICGS 76 (ICGV 87141). The average seed yield of Kadiri 3 and ICGS 76 in these trials was 0.70 and 0.82 t ha\(^{-1}\), respectively. ICGV 86325 has the potential to produce a pod yield of 3.0 t ha\(^{-1}\) in the rainy season and 5.0 t ha\(^{-1}\) in the postrainy season under high-input conditions (3).

ICGV 86325 was selected from a cross between an improved ICGS 20 (ICGV 86325) and an Indian cultivar G 201 (also known as TS 79) (Reg. no. CV-54, PI 590879) cultivar, having a distinctively darker green foliage, less vegetative canopy, and more decumbent spreading growth habit. Georgia Green originates from a cross of 'Southern Runner' (2) with 'Sunbelt Runner' (3). Pedigree selection was practiced within the F2, F3, and F4 populations, and performance testing began in the F4.6 generation as GA T-2846.

ICGV 86325 has a Decumbent 3 growth habit, alternate branching, four to eight primary and four to nine secondary branches. It matures in 120 d in the rainy season in India. It seeded pods, with moderate to prominent beak and reticulation, and moderate to deep constriction. Pod ridges average 70%. Its seeds are tan, weigh 34 g 100 seed\(^{-1}\), and have a linoleic fatty acid is 1.55.

ICGV 86325 has field tolerance to peanut bud necrosis (caused by the peanut bud necrosis virus), and suffers low yield loss due to peanut mottle (caused by the peanut mottle virus) (3). However, it is as susceptible to rust and late leafspot as Kadiri 3 and ICGS 76.

Small quantities of seed of ICGV 86325 can be obtained from the IAC, Breeder seed of ICGV 86325 has been placed in long-term storage at the U.S. National Seed Storage Laboratory, Fort Collins, CO 80521-4500.

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