

REGISTRATION OF 'ICGV 87160' PEANUT

'ICGV 87160', a spanish peanut (*Arachis hypogaea* L. subsp. *fastigiata* var. *vulgaris*) cultivar (Reg. no. CV-47, PI 478787) was released in 1990 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 peninsular India where rust (*Puccinia arachidis* Spg.) and late leafspot [*Phaeoisariopsis personata* (Berk. & H.A. Curtis) Arx] are serious problems. ICGV 87160 was tested extensively in India under the designation ICG(FDRS) 10. It has produced an average of 53% higher pod yield than the control 'JL 24', based on 22 trials conducted at 15 locations during 1983 to 1986 in India. The average pod yield of ICGV 87160 in these trials was 2600 kg ha⁻¹. It has also outyielded other popular Indian cultivars such as TMV 2 by 36%, J 11 by 22%, and Kadiri 3 by 9%. It also showed pod yield superiority over local cultivars in Bangladesh (69% over Dacca 1), Myanmar (20% over Japanese Small), Sri Lanka (100% over Local), Thailand (19% over Tainan 9), the Philippines (67% over BPI Pn-9), and Niger (17% over 28-206).

ICGV 87160 was bred at ICRISAT Center, Patancheru, India. ICGV 87160 was derived from a cross of a spanish cultivar, Ah 65, and a rust-resistant valencia germplasm line, NC Ac 17090 (1), following the bulk pedigree method. It was advanced in the rainy season in disease nurseries that included spreader rows, where rust and late leafspot occur naturally to near-epidemic proportions. Its pedigree is (Ah 65 × NC Ac 17090) F₂-B₁-B₁-B₂-B₁-B₁-B₁-B₂.

ICGV 87160 has an erect growth habit with sequential flowering, and medium, elliptic, green to dark-green leaves. It matures in ≈115 d in the rainy season and has 67% total kernels. It has two-seeded pods with moderate to prominent ridges, slight reticulation, and none to slight beak and constriction. Its seeds are tan in color, weigh 36 g 100 seed⁻¹, and contain 48% oil and 27% protein.

ICGV 87160 is resistant to rust and tolerant to late leaf spot. It has maintained its resistance superiority over local cultivars for these two diseases at locations in India, Myan-

mar, Bangladesh, Thailand, Sudan, and Republic of Guinea (2). ICGV 87160 is tolerant to bud necrosis disease under field conditions. It suffered less stem and pod rots caused by *Sclerotium rolfsii* Sacc. than the popular Indian cultivars. It also shows moderate levels of resistance to leaf miner (*Approaerema modicella* Deventer) under field conditions in India. Under artificial greenhouse conditions at ICRISAT Center, it displayed the lowest leaf miner larval survival and adult acceptance rates (2). ICGV 87160 exhibited tolerance of drought stress imposed from flowering to pod maturity, when its values for total biomass and total pod weight were compared with the mean values of 124 erect bunch genotypes tested in a line-source sprinkler experiment (2).

The ICRISAT Center, Patancheru, AP 502 324, maintains breeder seed.

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References and Notes

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3. L.J. Reddy, S.N. Nigam, A.G.S. Reddy, D. McDonald, and V. Pentaih Legumes Program, ICRISAT, Patancheru P.O., Andhra Pradesh 502 324, India; P. Subrahmanyam, SADCC/ICRISAT Groundnut Project, Lilongwe, Malawi; and R.W. Gibbons, ICRISAT Sahelian Center, Niamey, Niger. ICRISAT Journal Article no. 1250. Registration by CSSA. Accepted 31 Jan. 1992. *Corresponding author.

The assistance of the Project Director, Directorate of Oilseeds Research, Rajendranagar, Hyderabad, India, various AICORPO scientists in India, and national scientists in other countries in evaluating ICGV 87160 is gratefully acknowledged. Help of these ICRISAT scientists is also highly appreciated: V.K. Mehan, in providing information on stem and pod rot resistance; G.V. Ranga Rao, for insect pest resistance data; R. Jambunathan, for nutritional quality data; and R.C. Nageswara Rao, for drought tolerance data.

Published in *Crop Sci.* 32:1075 (1992).