of the seed appears dark maroon, similar to its Anasazi parent. USWA-27 should be useful to breeders who want to modify this novel germplasm for wider adaptation and production. A limited quantity of seed of USWA-27 is available from Phillip N. Miklas, Vegetable and Forage Crop Production Research Unit, USDA-ARS, 24106 N. Bunn Rd., Prosser, WA 99350-9687. It is requested that appropriate recognition be made if this germplasm contributes to the development of a new breeding line or cultivar. Genetic material of this release will be deposited in the National Plant Germplasm System, where it will be available for research purposes, including development and commercialization of new cultivars.

M. J. SILBERNAGEL, A. N. HANG,* AND P. N. MIKLAS (2)

References and Notes
1. Anasazi as a name for this type of mottled bean is a registered trademark of the Adobe Bean Co., Dove Creek, CO.


Registration of C1944 and C1945 Soybean Germplasm with High Seed Protein and Moderate Seed Oil Concentration

C1944 (Reg. no. GP-259, PI 599584) and C1945 (Reg. no. GP-260, PI 599585) are soybean [Glycine max (L.) Merr.] germplasms that average 486 g kg\(^{-1}\) seed protein and 186 g kg\(^{-1}\) seed oil on a moisture-free basis, and have moderately good seed yield. The source of high seed protein in both C1944 and C1945 is the cultivar Pando (1). These germplasm lines were developed by the USDA-ARS and Purdue University Agricultural Research Programs, in their cooperative soybean breeding and genetics project. The lines will be useful for increasing seed protein while minimizing reductions in seed oil content.

C1944 is an \(F_4\)-derived line from the cross CR3S-998-24-1 \(\times\) HC85-2206, designated CX1517. The parent CR3S-998-24-1, from a recurrent-selection population for high seed protein concentration, has averaged 514 g kg\(^{-1}\) seed protein and 152 g kg\(^{-1}\) seed oil (6). The parent HC85-2206 is a recurrent-selection population for high seed protein concentration (6). An \(F_4\)-derived line from the cross CRS3-998-24-1 \(\times\) 'Elfin' (2,3) and was evaluated in Uniform Test IV of the Uniform Soybean Tests—Northern States in 1991 (4).

The cross was made in the field in 1991 at West Lafayette, IN, and the \(F_1\) generation grown in Puerto Rico during the winter of 1991–1992. The \(F_2\) through \(F_4\) generations were advanced by single-seed descent at West Lafayette, in the greenhouse and in the field. The \(F_4\) generation was grown in plant rows in 1994, Individual plant rows, including CX1517-171, that averaged 486 g kg\(^{-1}\) protein and 160 g kg\(^{-1}\) oil in the seed were selected and evaluated in replicated performance tests at West Lafayette in 1995–1996. In these tests, 2-yr mean data for C1944 were 2999 kg ha\(^{-1}\) seed yield, 24 September maturity date, 1.1 lodging score (where 1 = all plants erect and 5 = all plants lodged flat), 86 cm mature plant height, 488 g kg\(^{-1}\) seed protein, and 184 g kg\(^{-1}\) seed oil. In these same tests, 2-yr mean data for 'Probst' (5) were 3510 kg ha\(^{-1}\) seed yield, 27 September maturity date, 1.4 lodging score, 89 cm mature plant height, 419 g kg\(^{-1}\) seed protein, and 206 g kg\(^{-1}\) seed oil. C1945 is an indeterminate line that has purple flowers, tawny pubescence, and brown pods at maturity containing dull yellow seeds with black hila.

Packets of 100 seeds of C1944 and C1945 will be available from the author, upon request, for at least 5 yr from the date of this publication. Appropriate recognition of the source should be made if these germplasms are used in research or contribute to the development of new breeding lines or cultivars.

JAMES R. WILCOX* (7)

Notes and References

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Registration of Early-Maturing Peanut Germplasm ICGV 92196, ICGV 92206, ICGV 92234, and ICGV 92243

Improved Spanish peanut (Arachis hypogaea L. subsp. fastigiatavar. vulgaris) germplasm lines ICGV 92196 (Reg. no. GP-92, PI 599345), ICGV 92206 (Reg. no. GP-93, PI 599345), ICGV 92234 (Reg. no. GP-94, PI 599346), and ICGV 92243 (Reg. no. GP-95, PI 599347) were bred at the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) Asia Center (IAC), Patancheru, A.P., India. These four lines were released as early-maturing, high-yielding germplasm by the Plant Materials Identification Committee of ICRISAT in 1996.

ICGV 92196, ICGV 92206, ICGV 92234, and ICGV 92243 originated from the following four crosses, respectively: Chico \(\times\) 'Williams' (2,3) and was evaluated in Uniform Test IV of the Uniform Soybean Tests—Northern States in 1991 (4).

C1945 is an \(F_4\)-derived line from a recurrent selection population for high seed protein concentration (6). An \(S\) source of high seed protein in both C1944 and C1945 is the culti-