REGISTRATION OF ALAMO SOYBEAN
(Reg. No. 129)
K. Hinson, E. E. Hartwig, and A. Scott

'ALAMO' soybeans [Glycine max (L.) Merr.] originated as an F₇ line developed from the cross D49-2491 × PI 240664 backcrossed to D49-2491. D49-2491 is closely related to and very similar to 'Lee'. PI 240664, an introduction from the Philippines, was used as a parent to contribute growth characteristics for better adaptation to short day regions. The original crosses were made at Gainesville, Fla., and all selections were made there. The line F67-5132 (Alamo) was included with material evaluated in the Rio Grande Valley (lat 26°) where it proved adapted for planting after harvest, of a sorghum crop. It is registered under Group IX maturity. It flowers 8 days later than 'Hardee' when planted in early August in the Rio Grande Valley of south Texas. This later flowering permits Alamo to make adequate growth for efficient combine harvesting.

Alamo has purple flowers, tawny pubescence, and tan pod walls. Seeds are yellow with black hilum. Average weight of 100 seed is 16 g. It is resistant to bacterial pustule [caused by Xanthomonas phaseoli (E. F. Smith) Dow var. sojensis (Hedges) Starr. and Burkh.]; wildfire [caused by Pseudomonas tabaci (Wolf & Foster) F. L. Stevens]; and target spot [caused by Corynespora cassiicola (Burk. & Curt.) Wei].

Alamo has proved to be better suited for production on the alkaline soils of the Rio Grande Valley than on the more acid soils of southern Florida. Breeder's seed will be maintained by Rio Farms, Inc., Edcouch, TX 78538.

REGISTRATION OF CAPITAN WHEAT
(Reg. No. 619)
R. E. Finkner, J. W. Schmidt, and V. A. Johnson

'CAPITAN' wheat (Triticum aestivum L. em Thell), CI 17591, is a hard red winter wheat selected in the F₇ generation from the cross 'Pawnee'/Cheyenne'/3/Pawnee'/Kenya 58'/Cheyenne', made in 1959 at the Nebraska Agric. Exp. Stn. It was developed cooperatively by the Nebraska Agric. Exp. Stn. and the AR, SEA, USDA, and tested in the Southern and Northern Regional Performance Nurseries as Nebraska Selection 66403. It was tested 9 years at Plains Branch Station at Clovis, N. M., under this same number.

Capitan is a midseason winter wheat similar to 'Centurk' in maturity. It is similar to 'Scout' in winterhardiness, plant height, and straw strength. The spike is white, awned, tapering, erect, and mid-dense. Glumes are glabrous, white, midlong, and mid-wide with shoulders oblique to wanting. Beaks are midshort and pointed, long, and mid-dense; it is usually carried erect at maturity.

The kernels are red, medium hard, moderately long, and large, with a kernel weight slightly heavier than Scout 66. The kernels have a midcrease; cheeks rounded; brush midsized.

Capitan was named and released in 1979. PI 240664, an introduction from the Philippines, was used as a parent to contribute growth characteristics for better adaptation to short day regions. The original crosses were made at Gainesville, Fla., and all selections were made there. The line F67-5132 (Alamo) was included with material evaluated in the Rio Grande Valley (lat 26°) where it proved adapted for planting after harvest, of a sorghum crop. It is registered under Group IX maturity. It flowers 8 days later than 'Hardee' when planted in early August in the Rio Grande Valley of south Texas. This later flowering permits Alamo to make adequate growth for efficient combine harvesting.

Alamo has purple flowers, tawny pubescence, and tan pod walls. Seeds are yellow with black hilum. Average weight of 100 seed is 16 g. It is resistant to bacterial pustule [caused by Xanthomonas phaseoli (E. F. Smith) Dow var. sojensis (Hedges) Starr. and Burkh.]; wildfire [caused by Pseudomonas tabaci (Wolf & Foster) F. L. Stevens]; and target spot [caused by Corynespora cassiicola (Burk. & Curt.) Wei].

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REGISTRATION OF AGATE WHEAT
(Reg. No. 620)
J. W. Schmidt, V. A. Johnson, P. J. Mattern, A. F. Dreier, and D. V. McVey

'AGATE' wheat (Triticum aestivum L. em Thell), CI 17539, is a hard red winter wheat selected in the F₅ generation from the cross 'Ponca'/Cheyenne'/3/Cheyenne'/Tenmarq'/Kenya 58'/Cheyenne'/Mediterranean'/Hope', made in 1962 at the Nebraska Agricultural Experimental Station and the AR, SEA, USDA, and tested in the 1972-75 Nebraska yield trials, the 1972-76 Southern Regional Performance Nursery, and 1976 Southern Regional Performance Nursery as NE69442.

Agate is a medium to late maturing wheat similar to 'Scout 66' in height. The spike is awned, long, and mid-dense; it is usually carried erect. Glumes are white, glabrous, medium long, and narrow, with rather narrow and mostly sloping shoulders; awns are white, moderately long to long and acuminate. The spike is white, awned, tapering, erect, and mid-dense; it is usually carried erect at maturity.

The kernels are red, medium hard, moderately long, and large, with a kernel weight slightly heavier than Scout 66. The kernels have a midcrease; cheeks rounded; brush midsized.

Agate is similar to Scout 66 in yield potential, but was developed to provide greater adaptation of another maturity class. Agate has good straw strength. Its baking characteristics are similar to those of Scout 66, but it includes a medium dough mixing time, good gas retention, and satisfactory loaf volume potential.

Agate has broad resistance to stem rust (caused by Puccinia graminis Pers. f. sp. tritici Eriks. and E. Henn.) during its early development and testing period. Capitan has good milling and baking quality with a protein of 12.4% and flour protein to Scout of 12.9 and 11.8%, respectively; it has tolerance to 4.11 min (Scout = 3.0 min); it is adapted to 12.5% moisture, of 974 cc (Scout = 941 cc).

Capitan was named and released in 1975. PI 240664, an introduction from the Philippines, was used as a parent to contribute growth characteristics for better adaptation to short day regions. The original crosses were made at Gainesville, Fla., and all selections were made there. The line F67-5132 (Alamo) was included with material evaluated in the Rio Grande Valley (lat 26°) where it proved adapted for planting after harvest, of a sorghum crop. It is registered under Group IX maturity. It flowers 8 days later than 'Hardee' when planted in early August in the Rio Grande Valley of south Texas. This later flowering permits Alamo to make adequate growth for efficient combine harvesting.

Alamo has purple flowers, tawny pubescence, and tan pod walls. Seeds are yellow with black hilum. Average weight of 100 seed is 16 g. It is resistant to bacterial pustule [caused by Xanthomonas phaseoli (E. F. Smith) Dow var. sojensis (Hedges) Starr. and Burkh.]; wildfire [caused by Pseudomonas tabaci (Wolf & Foster) F. L. Stevens]; and target spot [caused by Corynespora cassiicola (Burk. & Curt.) Wei].

Alamo has proved to be better suited for production on the alkaline soils of the Rio Grande Valley than on the more acid soils of southern Florida. Breeder's seed will be maintained by Rio Farms, Inc., Edcouch, TX 78538.