REGISTRATION OF DES 56 COTTON
(Reg. No. 70)
R. R. Bridge and J. F. Chism

'Des 56' cotton (*Gossypium hirsutum* L.) was developed at the Delta Branch, Mississippi Agricultural and Forestry Experiment Station. DES 56 originated from a cross between 'Stoneville 213' and 'PD 62-164'. The F₂ population of this cross was intercrossed at random. DES 56 is from a single plant selection in the F₂ generation of the intercross population and a subsequent reselection in the F₇ generation. DES 56 has been tested since 1971 as DES 2134-056.

DES 56 is an early maturing and rapid fruiting cotton with dark green foliage. It produced 9% higher lint yields and matured 10 days earlier than 'Deltapine 16' in 25 Delta environments over the past 6 years. DES 56 has smaller bolls and seed, slightly shorter fiber, and its height is approximately 15 cm less than that of Deltapine 16. Lint percentage, fiber strength, and micronaire values are approximately the same as those of Deltapine 16. Data from Arizona and Louisiana have shown that the earliness of DES 56 is sufficient to escape some late season insect damage.

Mississippi Foundation Seed Stocks will produce foundation seed which will be sold on a pro rata basis to breeding firms and individuals meeting all standards of the Mississippi Seed Improvement Association for the production of registered seed. When the demand for Mississippi producers has been met, foundation seed may be released to other states provided they have qualifications of those requested of Mississippi producers.

Breeder seed will be maintained by Delta Branch, Mississippi Agricultural and Forestry Experiment Station. Variety protection will be applied for under the Variety Protection Act, Public Law 91-557.

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REGISTRATION OF ARCTARED RED FESCUE
(Reg. No. 13)

H. J. Hodgson, R. L. Taylor, L. J. Klebesadel, and A. C. Wilton

'Arctared' (*Festuca rubra* L.) is a winterhardy, creeping red fescue developed cooperatively by the University of Alaska Agricultural Experiment Station, and the SEA, USDA. Arctared was named and released to seed producers in 1965, after extensive testing in the Matanuska Valley of south-central Alaska as Line 339.

Arctared traces to seed from a single plant collected in the Matanuska Valley in 1957. Spaced-plant progeny of this collection were included in a large evaluation nursery established in 1958. Open-pollinated seed of five plants of Line 339, produced in 1959, was composed for an initial increase in isolation. Subsequently, 60 clones were selected for vigor and appearance. Seed from these clones was then grown in the Matanuska Valley and in the Anchorage nursery for 1960, 1961, and 1962. The clone most similar to 'Arctared' was selected and named 'ARCTARED'.

'ARCTARED' is a winterhardy, creeping red fescue with a mounded growth habit. The blades are narrow and rigid. The palea may become darkened in color. Test weight is similar to that of most other commercially grown cultivars. Paler percentage is good, being about the same as 'Dal'

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REGISTRATION OF SPEAR OATS
(Reg. No. 279)
Dale L. Reeves

'SPEAR' oats (*Avena sativa* L.), SD 955, CI 9203, is a spring oat cultivar developed by the South Dakota Foundation Seed Stock Division of South Dakota State Univ., Brookings, SD 57006. Other data have been previously published.

Spear is a midseason oat that heads about the same time as 'Garland' and 'Diana'. Straw strength is good, but some susceptible segregates are present. Test weight is good, being about the same as 'Dal'

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2 Plant breeder and assistant agronomist, respectively, Delta Branch, Mississippi Agric. For. Exp. Stn., Stoneville, MS 38776.

3 Plant breeder and assistant agronomist, respectively, Delta Branch, Mississippi Agric. For. Exp. Stn., Stoneville, MS 38776.


5 Assistant to the Director, Agric. Exp. Stn., Madison, WI 53706; research agronomist, Alaska Agricultural Experiment Station, Palmer, AK 99645; and research agronomist, University of South Dakota, SD 58554.

