TX71A407-6 in the 29-entry 1978 SRPN. Its 2-year average test weight was 73.2 compared to 75.3 and 76.5 kg/ha for ‘Karkof’ and ‘Scout 66’, respectively.

TX71A4562-6, Sturdy sib, TX391-56-D8/‘Triumph’(TX62A4615-7)/Centurk (GP No. 126) is a white chaff line that has an exceptional yield record. It may be moderately resistant to powdery mildew and has fairly good resistance to leaf rust, having 0 to 30% infection readings and moderately resistant to resistant reactions in five trials during 1976 to 1978. It was rated as being moderately resistant to soil-borne mosaic virus in field trials at Manhattan and Newton, Kansas, and at Urbana, Illinois, in 1977. It has the weakest straw of the 10 lines. It has low test weight, being only slightly different from the low test weights of TX71A407-6 in the Southern Regional Performance Nurseries. TX71A4562-6 is probably the most valuable for breeding purposes of all 10 lines.

TX71A4687-5, Sturdy sib, TX391-56-D8/‘Kaw’(TX65A1508)/Centurk (GP No. 127) is a late white chaff selection that has a high yield potential under favorable conditions. It was moderately resistant to leaf rust and resistant to powdery mildew in 1976 and had a resistant reaction to leaf rust in 1977 at Temple, Texas.

TX71A4937, (GP No. 128) and TX71A4946 (GP No. 129) both brown chaff selections from the cross Sturdy sib, TX391-56-D8/‘Tascosa’(TX62A2642)/Centurk, have good yield records and are similar in appearance. Both lines have good quality characteristics.

REGISTRATION OF CERCOSPORA ARACHIDICOLA-RESISTANT PEANUT GERMPLASM1
(Reg. No. GP 10)

Ray O. Hammons, G. Sowell, Jr., and D. H. Smith1

‘PI 109839’ (Arachis hypogaea L. subsp. hypogaea var. hypogaea), a small-seeded, long-season peanut with spreading growth habit, was released as germplasm in October 1979 by the Georgia Agricultural Experiment Stations and the AR, SEA, USDA.

The peanut from which this line was derived was originally collected in the market at Caracas, Venezuela on 23 Jan. 1935 by the USDA (Archer Coll. No. 2971) and introduced as PI 109839.

In field trials at Experiment and Tifton, Ga., PI 109839 has consistently exhibited greater resistance to the early leafspot fungus, Cercospora arachidicola Hori (perfect state Mycosphaerella arachidis W. A. Jenkins), than any U. S. cultivated peanut. The resistance of PI 109839 was initially observed in 1972 when it was one of 22 promising entries among 1,400 peanut genotypes screened with artificial inoculum in greenhouse trials at the Southern Regional Plant Introduction Station, Experiment.

During exposure to a severe natural epidemic of early leafspot in 1973 at the agronomy research farm near Tifton, PI 109839 had a disease index of 1.5 compared with 5.0 for commercial cultivars ‘Florunner’ and ‘Argentina’ on a 0 to 5 scale.

TX73A2694, Sturdy sib, TX391-56-D8/‘Triumph’/Centurk (GP No. 130) is a white chaff line which was released as Centurk the same time as Centurk. Leaf rust usually has been moderately resistant to resistant reactions have been observed. It has good dough and a long mixing time.

TX73A2798, ‘Red River 68’/‘Trapper’/Centurk white chaff selection that is insensitive to a very good yield in the High and Red River, high temperatures in spring months were when temperatures in early spring were high. It is sensitive to day length promoted early flowering in low yield. It has varied in leaf rust resistance among the AR, USDA, and Truckee, in 1976.

The authors have given more detailed information on the performance of these lines in the references.

For breeding research, 30 g of PI 109839 seed will be provided upon request to the Department of Agricultural Experiment Station, Tifton, GA 31794. These primary breeding stocks are released to public and private plant breeding firms under a specific memorandum of Agreement with the Texas Station.

The peanut from which this line was derived was originally collected in the market at Caracas, Venezuela on 23 Jan. 1935 by the USDA (Archer Coll. No. 2971) and introduced as PI 109839. These primary breeding stocks are released to public and private plant breeding firms under a specific memorandum of Agreement with the Texas Station.

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References:

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