

Breeding. B416. PL-13. Pedigree - 8RA4/A6 BC1, followed by individual plant selection in F2 and F3 generation. 8RA4, from a single plant selection of a restorer line with a Tamcot 788 background, followed by the selection and bulking of two plants by the multi-adversity resistance (MAR) selection procedure. A6 BC1, from a cross and subsequent backcross of BLLCABS-3-86, a MAR breeding line, with a male sterile Tamcot CAMD-E line. The F5 progeny rows were rouged for off-types and test crosses were made with male sterile germplasm. Possesses a strong fertility-restorer gene useful for producing hybrid seed based on the cytoplasmic male sterility system. Height short-medium, determinant, early maturing, glabrous for all plant parts, normal leaves and bract morphology and flowers with yellow pollen. The glabrous trait is dominant in resulting F1 hybrids and may impart resistance to the bollworm (*Helicoverpa zea*) and tobacco budworm (*Heliothis virescens*). Possesses early season cold tolerance and highly resistant to bacterial blight (*Xanthomonas campestris* pv. *malvacearum*).

**PI 583853. *Gossypium hirsutum* L.**

Breeding. B418. PL-14. Pedigree - 8RA4/A6 BC1, followed by individual plant selection in F2, F3, and F4 generation. 8RA4, from a single plant selection of a restorer line with a Tamcot 788 background, followed by the selection and bulking of two plants by the multi-adversity resistance (MAR) selection procedure. A6 BC1, from a cross and subsequent backcross of BLLCARS-3-86, MAR breeding line, with a male sterile Tamcot CAMD-E line. The F5 progeny rows were rouged for off-types and test crosses were made with male sterile germplasm. Possesses a strong fertility-restorer gene useful for producing hybrid seed based on the cytoplasmic male sterility system. Height short-medium, determinant, early maturing, glabrous for all plant parts, normal leaf and bract morphology and flowers with yellow pollen. The glabrous trait dominant in resulting F1 hybrids may impart resistance to the bollworm (*Helicoverpa zea*) and tobacco budworm (*Heliothis virescens*). Possesses early season cold tolerance and highly resistant to bacterial blight (*Xanthomonas campestris* pv. *malvacearum*).

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**PI 583854. *Trifolium repens* L.**

Breeding. MSNR4. GP-6. Pedigree - Developed by four cycles of recurrent selection from SRVR, Tillman, FLXP2, L-8-100, LAS-1, Dusi, Osceola, Nolin's Imp., CW 600, Regal, L-8-101, Arcadia, Tamar, FLXP3, NC-7, KO176, SC Med. FL., and SC-1. Root-knot nematode resistant germplasm developed by four cycles of phenotypic recurrent selection for resistance to the southern root-knot nematode, *Meloidogyne incognita*. Highly resistant to *M. incognita*, *M. arenaria*, and *M. graminicola* and has low resistance to *M. hapla*. Ranges from intermediate to large in plant type and flowers profusely.

The following were developed by Mississippi Agr. and Forestry Exp. Sta., Mississippi State University, State College, Mississippi, United States; Gary A. Pederson, USDA, ARS, Crop Sci. Research Lab, Forage Research Unit, Mississippi State, Mississippi 39762-5367, United States. Received 09/26/1994.

**PI 583855. *Trifolium repens* L.**

Breeding. MSRLM. GP-7. Pedigree - Intercross of 300 plants expressing the red leaf mark obtained from crosses of a red leaf mark plant with six parent clones of Tillman and Regal. Red leaf mark germplasm derived