

segregates for male sterility (A subscript 1:a subscript 1 a subscript 1). Derived from one S subscript o plant from 8755 random mating population. Good GCA for sugar yield.

The following were donated by G. J. Hogaboam, USDA-ARS, Sugarbeets & Edible Legumes, PO Box 1633, East Lansing, Michigan 48823, United States. Received 1981.

PI 590718. *Beta vulgaris* L. ssp. *vulgaris*

Cultivar. EL 45. Curly top resistant line with excellent combining ability.

PI 590719. *Beta vulgaris* L. ssp. *vulgaris*

Breeding. "EL40". PL-21. Multigerm line selected from one root known as 02 clone, which was self-sterile. Plants from selfed-seed were sib-fertile. Characterized by large root, small crown, rather fine petioles, and small crinkled leaves. Resistance to *Cercospora* leaf spot and to *Aphanomyces* black root. Excellent specific combining ability. Hybrids to this leaf line show excellent leaf spot resistance in central Michigan.

PI 590720. *Beta vulgaris* L. ssp. *vulgaris*

Breeding. "EL45/2". PL-22. Monogerm, O-type, selected for improved pollen production in the EL45 line. Selection made during the 1978-79 season in a *Phoma* infested sd field. The line was severely rogued to improve pollen production. More than 200 plants were left so no significant changes anticipated other than pollen production and maybe *Phoma* resistance. Curly top resistant line with excellent combining ability.

PI 590721. *Beta vulgaris* L. ssp. *vulgaris*

Cultivar. EL 46.

The following were donated by Richard Hecker, USDA, ARS, Crops Research Lab., Colorado State University, Fort Collins, Colorado 80521, United States. Received 1982.

PI 590722. *Beta vulgaris* L. ssp. *vulgaris*

Breeding. "FC 703/4". GP-84. Released 11/19/1981. Multigerm, pollen fertile, diploid ($2x = 18$), self-sterile, 52% green hypocotyl, resistant to root rot caused by *Rhizoctonia solani*. Moderate resistance to *Cercospora* leaf spot. For breeder use as a pollinator to produce *Rhizoctonia* resistant hybrids or as a source of genes for resistance to *R. solani*. In absence of *Rhizoctonia* root rot, the sugar yield of this germplasm was significantly less than that of commercial variety.

The following were donated by Edward J. Ryder, USDA, ARS, 1636 E. Alisal Street, Salinas, California 93905, United States. Received 1982.

PI 590723. *Beta vulgaris* L. ssp. *vulgaris*

Breeding. "C554". GP-69. Multigerm inbred possessing resistance to bolting and *Fusarium* stalk blight.

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PI 590724. *Beta vulgaris* L. ssp. *vulgaris*

Breeding. "FC 702/4(4X)". GP-56. Released 03/09/1978. Multigerm, pollen-fertile, autotetraploid ($4x = 36$), resistant to root rot caused