

epiphytotics, intended for use as parents of triploid (3x) hybrids.

**PI 590838. *Beta vulgaris* L. ssp. *vulgaris***

Breeding. "FC 607 CMS"; A-79-68. GP-61. Cytoplasmic male-sterile equivalents of FC 606 (4x) and FC 607 (4x). A monogerm sugarbeet germplasm with good resistance to cercospora leaf spot and moderate resistance to the curly top virus.

The following were donated by J. C. Theurer, Sugarbeet Investigations, Crops Res. Lab., Utah State Univ., Logan, Utah 84322, United States. Received 1980.

**PI 590839. *Beta vulgaris* L. ssp. *vulgaris***

Breeding. "L35". GP-31. A S subscript 5 self-fertile, green hypocotyl, Type O monogerm line derived from heterogeneous population selected for resistance to curly top. Developed by 3 repeated selections for curly top resistance in an inoc. field nursery and one selection for Type O. Outstanding resistance to all presently known races of curly top virus with 1-9 resistance scale. Used to develop Type O inbreds with high resistance to curly top.

**PI 590840. *Beta vulgaris* L. ssp. *vulgaris***

Breeding. "L35 CMS". GP-32. A cytoplasmic male-sterile equivalent developed by crossing L35 to a curly top resistant male-sterile line followed by three successive backcrosses to L35.

**PI 590841. *Beta vulgaris* L. ssp. *vulgaris***

Breeding. "L53". GP-34. Self fertile, red hypocotyl, Type O, multigerm inbred selected from a cross of the curly top selection CT8 to the cultivar US35/2 x (US35/2 x Beta ovana). Has shown high general combining ability for both root yield and sugar %. It is about equal to cultivar US41 in curly top resistance. Excellent combining ability. for low-respir. rate.

**PI 590842. *Beta vulgaris* L. ssp. *vulgaris***

Breeding. "L53 CMS". GP-35. A cytoplasmic male-sterile equivalent line developed by crossing L53 to a male-sterile line and back-crossing four times to L53. Slightly more vigorous than L53 and has shown excellent performance in hybrid combinations. Hybrids were used as a par. Equal to US33 in curly top resistance.

The following were donated by Garry A. Smith, USDA, ARS, Crops Research Laboratory, Colorado State University, Fort Collins, Colorado 80523, United States. Received 1980.

**PI 590843. *Beta vulgaris* L. ssp. *vulgaris***

Breeding. "FC 606"; GP NO. 52, A-78-44. GP-52. Resistant to Cercospora leaf spot and the curly top virus. Diploid and flower after short photothermal induct. The monogerm, pollen-fert. maintainer line of FC 606 CMS. Moderately vigorous.

**PI 590844. *Beta vulgaris* L. ssp. *vulgaris***

Breeding. "FC 606 CMS"; GP NO. 35, A-78-45. GP-53. Cytoplasmic male-sterile monogerm equivalent of FC 606. As the female in experimental hybrids has shown good combining ability for sucrose content as well as disease resistance.

The following were donated by Richard Hecker, USDA, ARS, Crops Research Lab., Colorado State University, Fort Collins, Colorado 80521, United States. Received 1981.

**PI 590845. *Beta vulgaris* L. ssp. *vulgaris***