

- PI 590773. *Beta vulgaris* L.
Breeding. SP85590-0. The monogerm pollen-fertile maintainer (O-type) for SP85590-01 cytoplasmic male sterile monogerm line. Similar to the male sterile except resistance to leaf spot (*Cercospora beticola*) is not as good. Disease index rating was only 2.5 compared to 1.75 for the male sterile.
- PI 590774. *Beta vulgaris* L.
Breeding. SP85655-0. The monogerm pollen fertile maintainer (O-type) for the monogerm cytoplasmic male sterile line, SP85655-01. Characteristics similar to that of the male sterile.
- PI 590775. *Beta vulgaris* L.
Breeding. SP85657-0. The pollen-fertile monogerm maintainer (O-type) for SP85657-01 monogerm cytoplasmic male-sterile line. Contains only green hypocotyl color.
- PI 590776. *Beta vulgaris* L.
Breeding. SP85700-0. A diploid multigerm open-pollin. with a somewhat shortened spindle-shaped root. Ancestry can be traced to crosses between sugarbeet and garden beet. Proportionally a little larger at its maximum circum. than ordinary sugarbeet breeding lines and hybrids. Smooth harvestable taproot with few lateral rootlets. Moderate resistance to leaf spot and to black root. 1% lower suc. than USH20.
- PI 590777. *Beta vulgaris* L.
Breeding. SP85800-0. A diploid (2n=18), multigerm pollen fertile germplasm originating from crosses between sugarbeet and fodderbeet. Root yields from 20 to 25 percent greater than the best breeding lines and hybrids at Beltsville, MD. Sugar % is only slightly lower than other Beltsville breeding lines, but has only about 80% as much non-suc. solubles as the best commercial hybrids.
- PI 590778. *Beta vulgaris* L.
Breeding. SP8531-0. A diploid (2n=18), multigerm pollen fertile germplasm with smooth harvestable taproot having few lateral rootlets. Composed of a pool of those progenies with the best "soil-free" characteristics in Beltsville nurs. tests. Similar to SP8030-0 but somewhat better in root type and sucrose %. Moderate resistance to black root (*Aphanomyces cochliodes*) and leaf spot (*Cercospora beticola*).

The following were donated by Robert T. Lewellen, USDA, ARS, U.S. Agricultural Research Station, 1639 E. Alisal St., Salinas, California 93905, United States. Received 1986.

- PI 590779. *Beta vulgaris* L.
Breeding. "C302". GP-103. 2n=2x, mm, s (superscript f) line increased from one s (subscript o) plant from popn-755. Segregates A:aa. Moderate resistance to CTV. Good GCA for sugar yield.
- PI 590780. *Beta vulgaris* L.
Breeding. "C303". GP-104. 2n=2x, mm, s (superscript f) line increased from one s (subscript o) plant from popn-755. Segregates A:aa. Moderate resistance to CTV. Good GCA for sugar yield. Resistant to lettuce infectious yellows.
- PI 590781. *Beta vulgaris* L.
Breeding. "C304". GP-105. 2n=2x, mm, s (superscript f) line increased from one s 2n=2x, mm, (subscript o) plant from popn-755. Segregates A:aa. Moderate resistance to CTV. Good GCA for sugar yield.
- PI 590782. *Beta vulgaris* L.
Breeding. "C305". GP-106. 2n=2x, mm, s (superscript f) line increased