

RR-18-1. Nonoil. Rust resistant.

The following were donated by Jerry F. Miller, USDA, ARS, Northern Crops Research Laboratory, P.O. Box 5677, Fargo, North Dakota 58105, United States. Received 02/25/1985.

**PI 599781. *Helianthus annuus* L.**

Breeding. Inbred. HA 289; Ames 4019; Ames 4068. Developed in United States. High oil. Disease resistant.

The following were developed by G. N. Fick, USDA, ARS, North Dakota Agric. Exp. Sta., Fargo, North Dakota 58102, United States; D.E. Zimmer, USDA, ARS, North Dakota Agric. Exp. Sta., Fargo, North Dakota 58102, United States. Donated by Jerry F. Miller, USDA, ARS, Northern Crops Research Laboratory, P.O. Box 5677, Fargo, North Dakota 58105, United States. Received 02/25/1985.

**PI 599782. *Helianthus annuus* L.**

Breeding. HA 304; Ames 4076. PL-12. Pedigree - Selected from an individual BC3F2 plant of Commander\*3/Mennonite RR. It is from composites of seed from four BC3F7 lines. Nonoil. Rust resistant.

The following were developed by Thomas Gulya, USDA, ARS, North Dakota State University, Northern Crops Research Laboratory, Fargo, North Dakota 58105, United States; Jerry F. Miller, USDA, ARS, Northern Crops Research Laboratory, P.O. Box 5677, Fargo, North Dakota 58105, United States. Donated by Jerry F. Miller, USDA, ARS, Northern Crops Research Laboratory, P.O. Box 5677, Fargo, North Dakota 58105, United States. Received 02/25/1985.

**PI 599783. *Helianthus annuus* L.**

Breeding. HA 314; Ames 4083. GP-19. Pedigree - HA 89/HA 288//HA 292. Nonoil. Disease resistant.

**PI 599784. *Helianthus annuus* L.**

Breeding. HA 315; Ames 4084. GP-20. Pedigree - HA 89/HA 288//HA 292. Nonoil. Disease resistant.

The following were developed by W. W. Roath, U.S. Department of Agriculture, North Dakota State University, Waldron Hall, Fargo, North Dakota, United States; Thomas Gulya, USDA, ARS, North Dakota State University, Northern Crops Research Laboratory, Fargo, North Dakota 58105, United States; Jerry F. Miller, USDA, ARS, Northern Crops Research Laboratory, P.O. Box 5677, Fargo, North Dakota 58105, United States. Donated by Jerry F. Miller, USDA, ARS, Northern Crops Research Laboratory, P.O. Box 5677, Fargo, North Dakota 58105, United States. Received 02/25/1985.

**PI 599785. *Helianthus annuus* L.**

Breeding. HA 822; Ames 4086. PL-42. Pedigree - Composite of seed of four S4 plants derived by selfing a single plant selected from the line CM 400. Oilseed type germplasm.