

PI 599764. Helianthus annuus L.

Breeding. Inbred. RHA 294; Ames 4046; Ames 4102. PL-15. Pedigree - multiple crosses cmsPI 343763, Bonita Giant Manchurian, HA 61, Mennonite RR, and cmsMenn RR-18-1*3/T66006-2. Nonoil restorer line.

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; D.C. Zimmerman, USDA, ARS, North Dakota Agric. Exp. Sta., Fargo, North Dakota 58102, United States. Donated by Gerald Seiler, USDA-ARS, Conservation & Production Research Lab., P.O. Drawer 10, Bushland, Texas 79012, United States. Received 03/07/1985.

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Breeding. Inbred. RHA 297; Ames 4048. PL-23. Pedigree - Reselected from one of four F5 lines that were bulked to form RHA 274, a widely used restorer line released in 1973. Oilseed restorer line.

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Breeding. Inbred. RHA 298; Ames 4049. PL-24. Pedigree - cmsHA 89/RHA 273 and RHA 299. Oilseed restorer line.

PI 599767. Helianthus annuus L.

Breeding. Inbred. RHA 299; Ames 4050. PL-25. Pedigree - From a composite of seed of an F6 line tracing to an individual F5 plant. Oilseed restorer line.

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 Gerald Seiler, USDA-ARS, Conservation & Production Research Lab., P.O. Drawer 10, Bushland, Texas 79012, United States. Received 03/07/1985.

PI 599768. Helianthus annuus L.

Breeding. Inbred. RHA 801; Ames 4051. GP-5. Pedigree - S3 line selected from a R-line population after one cycle of recurrent selection for improved yield. Parents of the population include RHA 271, RHA 273, RHA 274, R 344, and R 494. Oilseed restorer line.

The following were developed by M. L. Kinman, USDA, ARS, Texas Agricultural Experiment Station, College Station, Texas, 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.

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HA 8; Ames 4052.