

PI 559476 to 559479-continued

PI 559478 **origin:** United States. **developed:** C.C. Jan. **origin institute:** Agricultural Research Service -- USDA, Northern Crop Science Lab., Fargo, North Dakota 58105-5677 United States. **cultivar:** NMS HA 89-747. **pedigree:** Seed treatment of HA89 seed with mytomyacin C or streptomycin. Sib-pollination of M3 NMS plants with heterozygous fertile plants of M3 X HA89. Sib-pollination for 2 generations followed by self-pollination. **other id:** GS-4. **source:** Crop Sci. 32(6):1519 1992. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Appears identical to HA89, except for male sterility, expressed as lack of visible anthers, and the fused stigmata. 10% open-pollinated seed set. Produces 25% homozygous fertile, 50% heterozygous fertile and 25% male-sterile progeny. Spring Annual. Genetic Material. Seed.

PI 559479 **origin:** United States. **developed:** C.C. Jan. **origin institute:** Agricultural Research Service -- USDA, Northern Crop Science Lab., Fargo, North Dakota 58105-5677 United States. **cultivar:** NMS HA 89-872. **pedigree:** Seed treatment of HA89 seed with mytomyacin C or streptomycin. Sib-pollination of M3 NMS plants with heterozygous fertile plants of M3 X HA89. Sib-pollination for 2 generations followed by self-pollination. **other id:** GS-5. **source:** Crop Sci. 32(6):1519 1992. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Appears identical to HA89, except for male sterility, expressed as lack of visible anthers. More than 90% open-pollinated seed set. Produces 25% homozygous fertile, 50% heterozygous fertile and 25% male-sterile progeny. Spring Annual. Genetic Material. Seed.

PI 559480. *Helianthus annuus* L. ASTERACEAE Sunflower

Donated by: Jan, C.C., Agricultural Research Service -- USDA, Northern Crop Science Lab, Fargo, North Dakota 58105-5677, United States; and North Dakota Agr. Exp. Sta.. **remarks:** Sunflower Genetic Stock, TETRA P21. Received January 10, 1991.