

PI 586894. *Helianthus maximiliani* Schrader

Wild. Ames 17962; MAX 2115. Collected 09/05/1991 in Montana, United States. Latitude 47 deg. 43' N. Longitude 104 deg. 10' W. Clay soil, recently disturbed area at edge of irrigation ditch. 6 km southwest of Sidney, Hwy. 16 SW, Richland County. Seed collected from 40 plants. Population along edge of recently disturbed irrigation channel. Plants just past peak flowering, seed set appears good. Population has more *H. maximiliani* characteristics than *H. nuttalli*. *Helianthus nuttalli* characters: red stem, wide leaves, long phyllaries, spreading. *Helianthus maximiliani* characters: folded leaves, gray-green color. Moderate to heavy rust infection present.

The following were collected by Gerald Seiler, USDA, ARS, Northern Crop Science Lab., P.O. Box 5677, University Station, Fargo, North Dakota 58105, United States; Radovan Marinkovic, Institute of Field and Vegetable Crops, M. Gorkog 30, 21000, Novi Sad, Serbia, Yugoslavia; Surendra Duhoon, National Bureau of Plant Genetic Resources, I.A.R.I. Campus, PUSA, New Dehli, India. Donated by Gerald Seiler, USDA, ARS, Northern Crop Science Lab., P.O. Box 5677, University Station, Fargo, North Dakota 58105, United States. Received 10/17/1991.

PI 586895. *Helianthus maximiliani* Schrader

Wild. Ames 17963; MAX 2195. Collected 09/14/1991 in Nebraska, United States. Latitude 41 deg. 22' N. Longitude 97 deg. 40' W. Clay-loam soil in roadside ditch. 2.4 km northeast of Silver Creek, Hwy. 30 E, Merrick County. Seed collected from 31 plants. Small scattered population at corner of road. Clay-loam soil. Typical *H. maximiliani*, folded leaves, red stem, ca 1.5 m tall, heads toward top of plant. Seed set good, past peak flowering. Some insect damage - head clipper, no apparent rust.

PI 586896. *Helianthus maximiliani* Schrader

Wild. Ames 17964; MAX 2214. Collected 09/15/1991 in Nebraska, United States. Latitude 42 deg. 51' N. Longitude 99 deg. 54' W. Sandy soil in low area of roadside ditch. 4.8 km north of Spring View, Hwy. 183 N, Keya Paha County. Seed collected from 38 plants. Population scattered in clumps on both sides of road, sandy soil. Typical *H. maximiliani*, branched above, flowers on upper part of stem, silver leaves. Just past flowering, good seed set, seeds small. Moderate rust.

PI 586897. *Helianthus maximiliani* Schrader

Wild. Ames 17965; MAX 2219. Collected 09/16/1991 in South Dakota, United States. Latitude 44 deg. 28' N. Longitude 98 deg. 58' W. Roadside ditch by drainage area. 2.1 km east of St. Lawrence, Hwy. 14 E, Hand County. Seed collected from 38 plants. Small scattered population along drainage area, sandy-loam soil, moist at times. Typical *H. maximiliani*, multiheaded, silver leaves, folded, 1.5 m tall, typical branching and flowering heads. No damage by insects, but had clubbed heads (wide stem and head) abnormality, otherwise typical. Plants past flowering. Few plants with rust.

PI 586898. *Helianthus maximiliani* Schrader

Wild. Ames 17966; MAX 2221. Collected 09/16/1991 in South Dakota, United States. Latitude 44 deg. 5' N. Longitude 98 deg. 31' W. Sandy-loam soil in roadside ditch. 4.8 km east of Lane, Hwy 34 E., Jerauld County. Seed collected from 45 plants. Small localized population, sandy-loam soil. Very typical *H. maximiliani*, grayish leaves, folded, branching in leaf axil. Plants ca. 2 m tall, red stems. Moderate to severe rust. *Helianthus annuus* population nearby, *Polygonum* species associated.

PI 586899. *Helianthus maximiliani* Schrader

Wild. Ames 17967; MAX 2222. Collected 09/16/1991 in South Dakota, United States. Latitude 44 deg. 1' N. Longitude 97 deg. 49' W. Sandy-loam soil in roadside ditch. 1.9 km east of Fedora, Hwy. 34 E, Miner County. Seed