

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. Received 09/16/1994.

**PI 592328. *Helianthus maximilianii* Schrader**

Wild. MAX-2277; Ames 22192. Collected 09/02/1994 in Manitoba, Canada. Latitude 49 deg. 3' 0'' N. Longitude 99 deg. 20' 0'' W. Elevation 300 m. 4.8 km south of Cartwright, Hwy. 5 S. Brown, loam soil, level area of roadside ditch, topography - flood plain, moderate soil nutrient content, low salinity, imperfect drainage, tillage affected by stoniness. Cropland and grassland vegetation. Population scattered along edge of canola field in roadside ditch. Uniform population, effective population size - approximately 200 plants. Most plants short, red stems. Peak flowering, poor seed set. No disease evident. Associated wild species: *Equisetum*, *Arvense*.

**PI 592329. *Helianthus maximilianii* Schrader**

Wild. MAX-2279; Ames 22193. Collected 09/02/1994 in Manitoba, Canada. Latitude 49 deg. 11' 32'' N. Longitude 98 deg. 9' 48'' W. Elevation 362 m. 3.2 km west of Morden, Hwy. 3 W. Brown, loam soil, level area of roadside ditch, topography - plain (level), moderate soil nutrient content, no salinity, moderate drainage, tillage not affected by stoniness. Cropland and grassland vegetation. Population in roadside ditch, along edge of wheat field. Uniform population, effective population size - 500 plants. Typical plants, red stems, not robust, darker green leaves, not as branched above. No insect or disease damage evident. Associated wild species: *Equisetum*, *Arvense*.

**PI 592330. *Helianthus maximilianii* Schrader**

Wild. MAX-2280; Ames 22194. Collected 09/03/1994 in Manitoba, Canada. Latitude 49 deg. 22' 11'' N. Longitude 98 deg. 0' 12'' W. Elevation 339 m. 15.2 km east of Miami, Hwy. 23 W, near Jordan elevator. Brown, loam soil, level area of roadside ditch, topography - plain (level), moderate soil nutrient content, no salinity, imperfect drainage, tillage not affected by stoniness. Agricultural area. Large, scattered population in roadside ditch. Uniform population, effective population size - around 1000 plants, population area 1000 meters square. Most typical *H. maximilianii* seen, grayish stems and leaves. Just past peak flowering, seed set questionable, not filled well. No apparent insect or disease damage.

**PI 592331. *Helianthus maximilianii* Schrader**

Wild. MAX-2284; Ames 22196. Collected 09/03/1994 in Manitoba, Canada. Latitude 50 deg. 14' 55'' N. Longitude 99 deg. 28' 36'' W. Elevation 478 m. 2.4 km north of Neepawa, Hwy. 5 N. Brown, sandy-loam soil, level area of roadside ditch, topography - plain (level), moderate soil nutrient content, no salinity, moderate drainage, tillage not affected by stoniness. Woodland vegetation. Population scattered along both sides of road in roadside ditch. Low population variability, effective population size - about 500 plants, population area 3000 meters square. Plants look more like *H. maximilianii* but have alot of *H. nuttallii* characteristics, leaves more like *H. nuttallii*, heads like *H. maximilianii*. Peak flowering, seed set appears fair. No apparent insect or disease damage. Associated species: *Populus* (Aspen).

The following were collected by Mary Brothers, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011, United States; Gerald Seiler, USDA, ARS, Northern Crop Science Lab., P.O. Box 5677, University Station, Fargo, North Dakota 58105, United States. Donated by Gerald Seiler, USDA, ARS, Northern Crop Science Lab., P.O. Box 5677, University Station, Fargo, North Dakota 58105, United States. Received