

collected from 100 plants. Small population at this location, scattered. Sandy loam soil. Plants well past flowering, good seed set, typical but shorter, 1-1.5 m tall, grey red stems, axially branching. High frequency of single headed shorter plants types. *H. annuus* near, no apparent polygonium associated. Rust.

**PI 586900. *Helianthus maximiliani* Schrader**

Wild. Ames 17968; MAX 2224. Collected 09/16/1991 in South Dakota, United States. Latitude 44 deg. 23' N. Longitude 99 deg. 33' W. Sandy soil in roadside ditch recently disturbed by pipeline construction. 5.6 km south of DeSmet, Hwy. 25 S, Kingsburg County. Seed collected from 85 plants. Population scattered along disturbed area of pipeline construction. Plants past flowering, good seed set. Plants 1 - 1.5m tall, typical *H. maximiliani*, gray leaves, folded, some single-headed plants. Some plants with clubbed heads as seen before in Ames 17965. Some head damage, no apparent rust. Mixed with *H. annuus*.

**PI 586901. *Helianthus maximiliani* Schrader**

Wild. Ames 17970; MAX 2227. Collected 09/17/1991 in South Dakota, United States. Latitude 45 deg. 20' N. Longitude 97 deg. 12' W. Sandy roadside ditch. 9.6 km southeast of Summit, Hwy 12 E, Grant County. Seed collected from 82 plants. Population scattered in roadside ditch, sandy soil. Plants well past flowering, typical *H. maximiliani*, narrow gray leaves, axially branching, typical flowering heads, seed set good. Slight rust. *Helianthus pauciflorus* mixed in population.

**PI 586902. *Helianthus maximiliani* Schrader**

Wild. Ames 17971; MAX 2230. Collected 09/17/1991 in South Dakota, United States. Latitude 45 deg. 23' N. Longitude 97 deg. 58' W. Sandy-loam soil in roadside ditch along railroad right-of-way. 7.0 km west of Andover, Hwy. 12 W, Day County. Seed collected from 36 plants. Population scattered along railroad tracks, sandy-loam soil. Plants past flowering, seed set good, typical mid-west *H. maximiliani* with folded leaves, wavy margins, leaves narrow. Plants 1 m tall, typical flowering. No apparent rust. Several plants had okra-type leaves.

**PI 586903. *Helianthus maximiliani* Schrader**

Wild. Ames 17972; MAX 2232. Collected 09/17/1991 in South Dakota, United States. Latitude 45 deg. 33' N. Longitude 98 deg. 7' W. Roadside ditch. 27.2 km north of Groton, Hwy. 37 N, Brown County. Seed collected from 62 plants. Extensive population extending for around 1000 m. Typical mid-west *H. maximiliani*, slight to moderate rust. Well past flowering, good seed set. Plants 1-1.5 m tall.

**PI 586904. *Helianthus maximiliani* Schrader**

Wild. Ames 17973; MAX 2234. Collected 09/17/1991 in North Dakota, United States. Latitude 46 deg. 21' N. Longitude 98 deg. 20' W. Disturbed sandy soil in roadside ditch. 4.8 km west of LaMoure, Hwy. 13 W, LaMoure County. Seed collected from 36 plants. Population extensive, ca. 1000 sq. m. Plants well past flowering, seed set good. Typical *H. maximiliani* for mid-west, narrow folded leaves, wavy margin, gray color, 1-2 m tall, flowering upper 1/3 of plant. No apparent rust. *Helianthus paucifloris* ssp *subrhomboides* mixed in population. Clubbed head and flat stemmed plants present in the population.

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