

- PI 586909. *Helianthus pauciflorus* ssp. *subrhomboideus* (Rydb.) O.
Spring & E. Schilling
Wild. Ames 18011; PAU 2099. Collected 09/04/1991 in North Dakota, United States. Latitude 47 deg. 26' N. Longitude 98 deg. 7' W. Loam soil in level part of roadside ditch. 36 km west of Cooperstown, Hwy. 200 W, Griggs County. Seed collected from 100 plants. Large scattered population extending ca. 100 m. All plants past flowering, seed set variable. Typical species, 1-2 heads per plant, 0.5 to 0.75 m tall. Severe rust infection on leaves, sample collected for T. Gulya, probably too old, spores black not brown.
- PI 586910. *Helianthus petiolaris* ssp. *petiolaris*
Wild. Ames 17985; PET 2113. Collected 09/05/1991 in North Dakota, United States. Latitude 47 deg. 48' N. Longitude 103 deg. 20' W. Sandy gravel-like soil in roadside ditch along edge of asphalt of road. 10.4 km west of Watford City, Hwy. 85 W, McKenzie County. Seed collected from 40 plants. Population scattered along road edge next to blacktop. Gravel, sandy soil. Peak flowering, typical *H. petiolaris* with white center of head. Light infection of rust. *Helianthus annuus* nearby. Plants somewhat shorter due to location along edge of road.
- PI 586911. *Helianthus petiolaris* ssp. *petiolaris*
Wild. Ames 17986; PET 2117. Collected 09/05/1991 in Montana, United States. Latitude 47 deg. 1' N. Longitude 104 deg. 43' W. Sandy, gravel-like soil of roadside ditch, edge of asphalt road. 71.2 km southwest of Sidney, Hwy 16 S, Dawson Coutny. Seed collected from 30 plants. Population scattered along edge of road, approximately 75 plants. Typical plants, past peak flowering, seed set good. Moderate rust infection. *Helianthus annuus* plants mixed with *H. petiolaris* on both sides of road.
- PI 586912. *Helianthus petiolaris* ssp. *petiolaris*
Wild. Ames 17987; PET 2119. Collected 09/05/1991 in Montana, United States. Latitude 46 deg. 23' N. Longitude 105 deg. 42' W. Sandy soil of roadside ditch and extending into gray, sandy soil of small grain field (stubble). 7.5 km southwest of Terry, Hwy. 253 SW, Prairie County. Seed collected from more than 250 plants. Very large population, scattered over several hectares. Plants just past peak flowering, good seed set, typical species. No apparent insect damage, slight infection of rust on plants along roadside.
- PI 586913. *Helianthus petiolaris* ssp. *petiolaris*
Wild. Ames 17988; PET 2120. Collected 09/06/1991 in Montana, United States. Latitude 46 deg. 20' N. Longitude 105 deg. 50' W. Sandy soil of roadside, along edge of asphalt of road. 19.5 km south of Miles City, Hwy. 312 S, Custer County. Seed collected from 30 plants. Scattered population along road. Just about peak flowering, good seed set. Some intermixed plants with *H. annuus* next to population. Moderate rust.
- PI 586914. *Helianthus petiolaris* ssp. *petiolaris*
Wild. Ames 17989; PET 2122. Collected 09/06/1991 in Montana, United States. Latitude 45 deg. 50' N. Longitude 105 deg. 40' W. Very sandy soil in roadside ditch. 0.8 km north of Volborg, Hwy 312 N, Custer County. Seed collected from 50 plants. Population scattered for a km. Good seed set, heads very dry. *Helianthus annuus* plants present in population but still looks like good species. Very severe rust present.
- PI 586915. *Helianthus petiolaris* ssp. *petiolaris*
Wild. Ames 17990; PET 2124. Collected 09/06/1991 in Montana, United States. Latitude 45 deg. 45' N. Longitude 105 deg. 40' W. Very sandy soil in roadside ditch along edge of asphalt road. 29 km south of Volborg, Hwy. 312 S, Powder River. Seed collected from approximately 100 plants. Population scattered along roadside for kilometers, just sampled part of it. Well past flowering. Moderate rust.