

States. Latitude 39 deg. 28' N. Longitude 104 deg. 55' W. Disturbed sandy roadside ditch. 4.2 km south of Franktown, Hwy. 83 S, Douglas County. Seed collected from 30 plants. Plants scattered along sandy disturbed area. Some plants with red stems, otherwise typical, past peak flowering. Rust moderate. *Helianthus annuus* mixed in population.

PI 586924. *Helianthus petiolaris* ssp. *petiolaris*

Wild. Ames 17999; PET 2163. Collected 09/10/1991 in Colorado, United States. Latitude 39 deg. 24' N. Longitude 104 deg. 26' W. Sandy roadside ditch. 6.4 km east of Kiowa, Hwy. 86 E, Elbert County. Seed collected from 40 plants. Population scattered on both sides of road. Just past peak flowering, good seed set. Maybe possible introgression with *H. annuus*, some intermediate characters, red stems. Possible hybrid population.

PI 586925. *Helianthus petiolaris* ssp. *petiolaris*

Wild. Ames 18000; PET 2164. Collected 09/10/1991 in Colorado, United States. Latitude 39 deg. 15' N. Longitude 103 deg. 41' W. Sandy roadside ditch. 1.6 km south of Limon, Hwy. 71 S, Lincoln County. Seed collected from 75 plants. Population extending on both sides of the road for kilometers. One plant with yellow disc flowers. Plants more branched than usual, but not tall. Just mid flowering, seed questionable. About 1/2 plants had some rust. *Helianthus annuus* mixed in.

PI 586926. *Helianthus petiolaris* ssp. *petiolaris*

Wild. Ames 18001; PET 2166. Collected 09/10/1991 in Colorado, United States. Latitude 38 deg. 55' N. Longitude 103 deg. 41' W. Sandy disturbed soil in roadside ditch. 0.8 km east of Punkin Center, Hwy 94 E, Lincoln County. Seed collected from 60 plants. Population on both sides of road. Typical *H. petiolaris*, tall, light green, well past peak flowering. Only one *H. annuus* plant seen. No apparent rust.

PI 586927. *Helianthus petiolaris* ssp. *petiolaris*

Wild. Ames 18002; PET 2167. Collected 09/10/1991 in Colorado, United States. Latitude 38 deg. 55' N. Longitude 103 deg. 10' W. Sandy soil in disturbed roadside ditch. 42.4 km east of Punkin Center, Hwy 94 E, Lincoln County. Seed collected from 45 plants. Large population scattered on both sides of road, sandy soil. Plant typical *H. petiolaris*. Good seed set, tall plants, good *H. petiolaris* characteristics. *Helianthus annuus* population mixed in and nearby. Several plants with rust.

PI 586928. *Helianthus petiolaris* ssp. *petiolaris*

Wild. Ames 18003; PET 2178. Collected 09/11/1991 in Kansas, United States. Latitude 38 deg. 20' N. Longitude 99 deg. 54' W. Sandy soil in roadside ditch, along cultivated field. 14.4 km northeast of Pawnee Rock, Hwy. 56 E, Barton County. Seed collected from 62 plants. Population large, extending along railroad tracks and roadside ditch, sandy soil. Several plants had heads clipped off by head clipper. Tall *H. petiolaris*, approximately 1 m, otherwise typical. Just at peak flowering. No apparent rust.

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 Duhon, 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 586929. *Helianthus petiolaris* ssp. *petiolaris*

Wild. Ames 18004; PET 2203. Collected 09/14/1991 in Nebraska, United