

Resistant to prevalent races of *Puccinia graminis* (Sr5 and Sr6). Susceptible to *P. recondita*, wheat streak mosaic virus, *Tilletia controversa*, *Diuraphis noxia*, and *Cephus cinctus*. Moderately susceptible to *P. striiformis* and *cephalosporium gramineum*.

The following were collected by Cynthia Stauffer, Regional Plant Introduction Station, Iowa State University, 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; 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 586807. *Helianthus annuus* L.**

Wild. Ames 17873; ANN 2101. Collected 09/04/1991 in North Dakota, United States. Latitude 47 deg. 26' N. Longitude 98 deg. 42' W. Disturbed rocky soil in roadside ditch by James River. 17.6 km west of Glenfield, Hwy. 200 W, Foster County. Seed collected from 10 plants. Population localized in disturbed area by new bridge. Population at mid-flower, disc flowers all purple except for one plant which was yellow. Some heads more like interspecific (wild x cultivated). Some heads too large for typical wild *H. annuus*. May be potential source of CMS.

**PI 586808. *Helianthus annuus* L.**

Wild. Ames 17874; ANN 2102. Collected 09/04/1991 in North Dakota, United States. Latitude 47 deg. 26' N. Longitude 99 deg. 20' W. Level area and backslope in roadside ditch and disturbed field. 37.3 km west of Carrington, Hwy. 52 W, Wells County. Seed collected from 30 plants. Population scattered over a large disturbed area next to road. Population at mid-flower, good seed set. Typical plants, but heads large. Some insect head and stem damage. Plants severely infected with rust. Rust spores collected for *T.Gulya* but looked too old - black not brown.

**PI 586809. *Helianthus annuus* L.**

Wild. Ames 17875; ANN 2104. Collected 09/04/1991 in North Dakota, United States. Latitude 47 deg. 40' N. Longitude 100 deg. 40' W. Poor sandy loam soil in roadside ditch, along edge of road. 5.6 km east of Mercer, Hwy. 200 E, Sheridan County. Seed collected from 35 plants. Scattered population on both sides of road. Many plants well past flowering, seed shattered. Good seed set. Some head damage by insects. No rust present. Population looked like typical *H. annuus*, but many cultivated fields nearby. *Helianthus pauciflorus* plants present in population.

**PI 586810. *Helianthus annuus* L.**

Wild. Ames 17876; ANN 2106. Collected 09/05/1991 in North Dakota, United States. Latitude 47 deg. 40' N. Longitude 100 deg. 40' W. Disturbed area in roadside ditch. 0.8 km west of Minot, Hwy. 2 and 52 W, Ward County. Seed collected from 20 plants. Small localized population. Peak flowering, seed set good, typical species. Rust on most plants.

**PI 586811. *Helianthus annuus* L.**

Wild. Ames 17877; ANN 2108. Collected 09/05/1991 in North Dakota, United States. Latitude 48 deg. 20' N. Longitude 101 deg. 56' W. Roadside ditch on edge of field along edge of slough. 2.7 km west of Tagus, Hwy. 2 W, Mountrail County. Seed collected from 40 plants. Population scattered along edge of field, well past flowering, good seed set. Typical species. Very severe rust infection, grasshopper damage. Associated species - *Typha* (cattail). Population near very rocky soil.

**PI 586812. *Helianthus annuus* L.**