

591 m. 8.5 km west of Macoun, Hwy. 606 W. Brown, loam soil, level area of roadside ditch, topography - plain (level), moderate soil nutrient content, low salinity, moderate drainage, tillage not affected by stoniness. Cropland and grassland vegetation. Small, scattered population in disturbed roadside ditch along edge of wheat and oat fields. Uniform population, effective population size - 250 plants. Two plant stages: flowering and past peak flowering, good seed set. No apparent insect or disease damage. Associated wild species: *Cirsium*, *Solidago*, *Rumex*.

PI 592324. *Helianthus annuus* L.

Wild. ANN-2318; Ames 22187. Collected 09/12/1994 in Saskatchewan, Canada. Latitude 49 deg. 13' 55'' N. Longitude 102 deg. 59' 57'' W. Elevation 582 m. 8.6 km north of Estevan, Hwy. 47 N. Black-brown, loam to clay, silt soil, level area of roadside ditch, topography - plain (level), moderate soil nutrient content, low salinity, moderate to well drained, tillage not affected by stoniness. Cropland and grassland vegetation. Large, scattered population in roadside ditch along edge of wheat field. Uniform population, effective population size - 500 plants. Several plants with deformed (folded) heads, multiflorus type heads. Two large plants resembling hybrids present in population, seed sampled but not combined with bulk sample from population. No apparent insect damage, some plants with rust damage.

PI 592325. *Helianthus annuus* L.

Wild. Ames 22188; ANN-2321. Collected 09/12/1994 in Saskatchewan, Canada. Latitude 49 deg. 13' 35'' N. Longitude 101 deg. 38' 26'' W. Elevation 539 m. 0.3 km west and 14.1 km north of Carievale, Hwy. 8 N. Brown, sandy-loam soil, level area of roadside ditch, topography - plain (level), moderate soil nutrient content, no salinity, well drained, tillage not affected by stoniness. Cropland vegetation. Sparse, scattered population along both sides of road and in roadside ditch, population extends several hundred meters. Uniform population, effective population size - 500 plants. Plants short, single-headed. Plants in roadside ditch typical *H. annuus*, plants along roadside not typical *H. annuus*, small heads. Past peak flowering, good seed set. Some leaves damaged.

PI 592326. *Helianthus annuus* L.

Wild. ANN-2327; Ames 22189. Collected 09/13/1994 in Manitoba, Canada. Latitude 49 deg. 10' 40'' N. Longitude 100 deg. 18' 8'' W. Elevation 523 m. 6.4 km south and 19.7 km west of Boissevain, Hwy. 3 W. Brown, sandy-loam soil, level area of roadside ditch, topography - plain (level), moderate soil nutrient content, low salinity, moderate to well drained, tillage not affected by stoniness. Cropland and grassland vegetation. Population in disturbed roadside ditch, near edge of cultivated field. Uniform population. One plant with very large head (7.4 cm in diameter), typical wild *H. annuus* otherwise. Cultivated field 5 km west of collection site. Most plants past flowering. Severe insect leaf damage, no rust. Associated wild species: *Cirsium*, *Melilotus*, *Medicago*.

PI 592327. *Helianthus annuus* L.

Wild. ANN-2330; Ames 22191. Collected 09/13/1994 in Manitoba, Canada. Latitude 49 deg. 6' 10'' N. Longitude 100 deg. 44' 48'' W. Elevation 469 m. 4.0 km east of Waskada, Hwy. 251 E. Black, clay, silt soil, level area of roadside ditch, topography - plain (level), moderate soil nutrient content, no salinity, moderate to well drained, tillage not affected by stoniness. Located along margin of cropland. Small, dense population in disturbed area along edge of harvested wheat field, also along fence row. Uniform population, effective population size - 100 plants. Typical *H. annuus*, some plants had large heads, probably not hybrids though. Population across the road from cultivated sunflower field. Well past peak flowering, good seed set.