

drained, tillage affected by stoniness. Located near wheat field, cropland vegetation. Population along both sides of road in rocky, roadside ditch. Uniform population, effective population size - 75 plants. Plants tall, big heads, grayish leaves. Just past peak flowering, good seed set. No insect or disease damage.

**PI 592314. *Helianthus annuus* L.**

Wild. ANN-2307; Ames 22177. Collected 09/10/1994 in Saskatchewan, Canada . Latitude 50 deg. 44' 51'' N. Longitude 108 deg. 2' 10'' W. Elevation 670 m. 28.0 km north of Stewart Valley, Hwy. 4 N. Brown, sandy-loam soil, level area of roadside ditch, topography - plain (level), moderate soil nutrient content, low salinity, moderate to well drained, tillage affected by stoniness. Grassland vegetation. Scattered population in roadside ditch. Moderate population variability, effective population size - 150 plants. Possible mixed population but mostly *H. annuus* type plants (i.e. heads). Past peak flowering, good seed set. No apparent insect or disease damage.

**PI 592315. *Helianthus annuus* L.**

Wild. ANN-2308; Ames 22178. Collected 09/10/1994 in Saskatchewan, Canada . Latitude 50 deg. 51' 46'' N. Longitude 107 deg. 34' 41'' W. Elevation 656 m. 13.8 km west of Beechy, Hwy. 342 W. Brown, sandy soil, level area of roadside ditch, topography - plain (level), moderate soil nutrient content, low to moderate salinity, moderate to well drained, tillage affected by stoniness. Grassland vegetation. Two populations combined, 0.8 km apart, not enough plants collected from the first location. Near wheat field in roadside ditch. Uniform population, effective population size -150 plants. Some smaller plants, probably cut off, typical *H. annuus* plants otherwise. Past peak flowering, good seed set. No apparent insect or disease damage. Associated wild species: *Grindelia*, *Tragopogon*, *Linum*, *Aster*, *Solidago*.

**PI 592316. *Helianthus annuus* L.**

Wild. ANN-2309; Ames 22179. Collected 09/10/1994 in Saskatchewan, Canada . Latitude 50 deg. 39' 36'' N. Longitude 105 deg. 39' 53'' W. Elevation 578 m. 4.8 km southeast of Keeler, Hwy. 42 SE. Brown, sandy-loam soil, level area of roadside ditch, topography - plain (level), moderate soil nutrient content, no salinity, moderate drainage, tillage affected by stoniness. Located along margin of cropland. Large, scattered population in disturbed, rocky roadside ditch. Uniform population, effective population size - several hundred plants. Typical plants, tall, bigger heads, dark green leaves. Well past peak flowering, many plants dead, good seed set. No apparent insect or disease damage.

**PI 592317. *Helianthus annuus* L.**

Wild. ANN-2310; Ames 22180. Collected 09/10/1994 in Saskatchewan, Canada . Latitude 50 deg. 21' 18'' N. Longitude 105 deg. 32' 1'' W. Elevation 535 m. 4.0 km south of Moose Jaw, Hwy. 2 S. Brown, loam soil, level area and mid-slope of disturbed roadside ditch, topography - plain (level), moderate soil nutrient content, no salinity, moderate to well drained, tillage affected by stoniness. Grassland vegetation. Mixed population in disturbed area of roadside ditch. *Helianthus petiolaris* along edge of asphalt, mixed hybrid on slope, and *H. annuus* in disturbed area. Low population variability, effective population size - 100 plants. Well past peak flowering, most plants black, seed shattered but good seed set. No apparent insect damage, moderate rust damage.

**PI 592318. *Helianthus annuus* L.**

Wild. ANN-2311; Ames 22181. Collected 09/10/1994 in Saskatchewan, Canada . Latitude 50 deg. 9' 47'' N. Longitude 105 deg. 26' 29'' W. Elevation 570 m. 14.3 km west of Briercrest, Hwy. 716 E. Brown, sandy-loam soil, level area of roadside ditch, topography - plain (level), moderate soil nutrient content, low salinity, moderate drainage, tillage affected by stoniness. Located along margin of cropland. Small, very dense