

flowering, good seed set, plants 2 m tall. No apparent rust, insect damage to heads due to Suleima.

PI 586882. *Helianthus annuus* L.

Wild. Ames 17948; ANN 2218. Collected 09/16/1991 in South Dakota, United States. Latitude 44 deg. 30' N. Longitude 99 deg. 1' W. Sandy-loam soil along roadside ditch, edge of slough in cultivated sunflower field. 1.6 km west of Miller, Hwy. 14 N, Hand County. Seed collected from 29 plants. Small scattered population in slough of cultivated sunflower. Sandy-loam soil. Plants well past flowering, good seed set, typical *H. annuus*, shorter than previously seen, smaller heads. Suleima damage.

PI 586883. *Helianthus annuus* L.

Wild. Ames 17949; ANN 2220. Collected 09/16/1991 in South Dakota, United States. Latitude 44 deg. 25' N. Longitude 98 deg. 30' W. Sandy-loam soil in roadside ditch along edge of soybean and corn fields. 8 km south of Wolsey, Hwy 281 S, Beadle County. Seed collected from 35 plants. Plant population scattered only along edge of cultivated field. Good seed set, well past flowering, typical *H. annuus*, ca. 1.5-2 m tall, smaller heads. No apparent rust.

PI 586884. *Helianthus annuus* L.

Wild. Ames 17950; ANN 2223. Collected 09/16/1991 in South Dakota, United States. Latitude 44 deg. 1' N. Longitude 97 deg. 9' W. Clay-loam soil along edge of cultivated sunflower field and within field. 16 km north of Madison, Hwy 81 N, Lake County. Seed collected from 31 plants. Population scattered in and along edge of cultivated sunflower field. clay-loam soil. Plants tall (2.5-3 m), some heads had large bracts (long) but probably still wild *H. annuus*. Typical branching plants, well past flowering, good seed set. Only a few plants with rust.

PI 586885. *Helianthus annuus* L.

Wild. Ames 17951; ANN 2225. Collected 09/16/1991 in South Dakota, United States. Latitude 44 deg. 21' N. Longitude 97 deg. 33' W. Sandy soil in disturbed roadside ditch. 5.6 km south of DeSmet, Hwy 25 S, Kingsbury County. Seed collected from 17 plants. Small population, isolated in disturbed area of pipeline construction, disturbed sandy soil. Plants well past flowering, shorter than typical, smaller heads. Moderate damage to heads by Suleima. Rust present on remaining leaves. *Helianthus maximiliani* mixed in same population.

PI 586886. *Helianthus annuus* L.

Wild. Ames 17952; ANN 2229. Collected 09/17/1991 in South Dakota, United States. Latitude 45 deg. 21' N. Longitude 97 deg. 38' W. Roadside ditch along an abandoned road approach to railroad. 6.4 km west of Holmquist, Hwy. 12 W, Day County. Seed collected from 26 plants. Small isolated population, clay-loam soil, sometimes rocky soil. Plants well past flowering, good seed set. Plants not too branched, some shorter, most brown. Severe damage to heads, Suleima. Rust on remaining green leaves.

PI 586887. *Helianthus annuus* L.

Wild. Ames 17953; ANN 2231. Collected 09/17/1991 in South Dakota, United States. Latitude 45 deg. 30' N. Longitude 98 deg. 7' W. Disturbed clay-loam soil in roadside ditch. 11.2 km north of Groton, Hwy. 37 N, Brown County. Seed collected from 29 plants. Scattered population along disturbed area. Plants well past flowering, about 2-2.5 m tall. Smaller heads, few plants looked like hybrid with cultivated, 6.3 cm diameter heads. Possible hybrid has typical wild plant characters except for head diameter. Severe rust.

PI 586888. *Helianthus annuus* L.

Wild. Ames 17954; ANN 2233. Collected 09/17/1991 in North Dakota, United States. Latitude 46 deg. 1' N. Longitude 98 deg. 25' W. Sandy soil of roadside ditch, along disturbed area of cultivated sunflower field. 1.6