

PI 547227 to 547248-continued

- PI 547228 **origin:** United States. **collected:** September 19, 1989. **collector id:** TUB-2045. **other id:** Ames 13056. **source:** NC-7. **group:** Ames. **locality:** Along stream near mixed hardwood forest, in clay soil. Hwy. 66N, 5.3km north of Arthur, Defiance County. **latitude:** 41 deg. 14 min. W. **longitude:** 84 deg. 21 min. N. **remarks:** Seed collected from 35 plants, small population - only 40 plants. Past flowering, seed set 3-5 seeds per head. Most plants were single headed. Plants typical at edge of stream those on slope much smaller and shorter. No disease or insect damage present. Specimen collected. Collection #2045. Seed.
- PI 547229 **origin:** United States. **collected:** September 19, 1989. **collector id:** TUB-2046. **other id:** Ames 13057. **source:** NC-7. **group:** Ames. **locality:** Very large population ca. 0.1 hectares, scattered along edge of soybean field and along wooded stream, in clay soils. Hwy. 66N, 6.2km north of Mandal, Paulding County. **latitude:** 41 deg. 04 min. W. **longitude:** 84 deg. 22 min. N. **remarks:** Seed collected from 150 plants. Just toward peak flower, seed set about 4-5 seeds per head. Had mostly tuberosus characteristics. Powdery mildew present on several plants, but did not kill leaves. Specimen collected. Collection #2046. Seed.
- PI 547230 **origin:** United States. **collected:** September 19, 1989. **collector id:** TUB-2047. **other id:** Ames 13058. **source:** NC-7. **group:** Ames. **locality:** Along edge of swampy area of roadside ditch, clay soil. Population scattered over 0.4 km area, narrow sand ditch. Hwy. 81W, 16.8km west of Ada, Allen County. **latitude:** 40 deg. 44 min. W. **longitude:** 84 deg. 01 min. N. **remarks:** Seed collected from 100 plants. Past peak flowering, seed set about 5-7 seeds per head. Very typical tuberosus habitat, larger leaves, and very red(purple) stems. Also typical branching. Plants up to 2 1/2 m tall. Largest leaves of tuberosus collected so far. Leaves branching from leaf axils. Specimen collected. Collection #2047. Seed.
- PI 547231 **origin:** United States. **collected:** September 19, 1989. **collector id:** TUB-2048. **other id:** Ames 13059. **source:** NC-7. **group:** Ames. **locality:** Roadside ditch next to corn field, on edge of stream, in clay soil. Hwy. 81E, 1.9km east of Dunkirk, Hardin County. **latitude:** 40 deg. 46 min. W. **longitude:** 83 deg. 37 min. N. **remarks:** Seed collected from ca. 75 plants, dense isolated population. Just peak flowering, seed set 1-2 seeds per head. Plants tall ca. 3 m. On slope very red(purple) stems, very large leaves. Some rust present, but on very few leaves. Many plants branched above and branched in axils of leaves. Specimen collected. Collection #2048. Seed.