

PI 559480-continued

origin: United States. **developed:** C.C. Jan. **origin institute:** Agricultural Research Service -- USDA, Northern Crop Science Laboratory, Fargo, North Dakota 58105 United States. **cultivar:** TETRA P21. **pedigree:** Colchicine treatment of P21. Sib-pollination of chromosomally doubled heads or sectors of heads produced 4 X P21. Self-pollination of sib-pollination of 4 X P21 to produce seed. **other id:** GS-1. **source:** Crop Sci. 32(6):1520 1992. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Self-compatible. 47% pollen stainability and averaged eight seeds per head upon self- or sib-pollination. Seeds black with few grey stripes, 1000 seed weight of 66g. Reduced meiotic chromosome pairing and cytologically less stable than diploid P21 progenitor. Spring Annual. Genetic Material. Seed.

PI 559481. *Helianthus annuus* L. ASTERACEAE Sunflower

Donated by: Jan, C.C., Agricultural Research Service -- USDA, Northern Crop Science Lab, Fargo, North Dakota 58105-5677, United States; and North Dakota Agr. Exp. Sta.. **remarks:** Sunflower Amphiploid Germplasm ANN-BOL-AMPl. Received January 10, 1991.

origin: United States. **developed:** C.C. Jan. **origin institute:** Agricultural Research Service -- USDA, Northern Crop Science Laboratory, Fargo, North Dakota 58105 United States. **cultivar:** ANN-BOL-AMPl. **pedigree:** Colchicine treatment of P21 X *H. bolanderi* (acc. 096-009), F1 seedlings. Sib-pollination of chromosomally doubled F1 heads to produce F2 (amphiploid) seeds. Sib-pollination of F2 amphiploids to produce F3 amphiploids. **other id:** GP-176. **source:** Crop Sci. 32(6):1513 1992. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Morphologically intermediate to its parents, P21 and *H. bolanderi*. Possesses 50% cultivated *H. annuus* and 50% *H. bolanderi* nuclear genes in P21 (*H. annuus*) cytoplasm. Annual, branched, fertile, self-incompatible. Plant height 2.0m. Seeds black with white stripes, 1000 seed weight of 51g. Spring Annual. Breeding Material. Seed.

PI 559482 to 559483. *Sorghum bicolor* (L.) Moench POACEAE Grain sorghum

Donated by: Duncan, R.R., Georgia Agr. Exp. Sta., University of Georgia, Griffin, Georgia 30223-1797, United States; and Colorado Agr. Exp. Sta.. **remarks:** GC103 and GC104 Sorghum Germplasms. Received January 10, 1991.