

PI 535777 to 535779. Sorghum bicolor (L.) Moench POACEAE Sudangrass

Donated by: Gorz, H.J., USDA-ARS, Department of Agronomy, University of Nebraska, Lincoln, Nebraska, United States; and Haskins, F.A., Department of Agronomy, University of Nebraska, Lincoln, Nebraska, United States; and Vogel, K.P., USDA-ARS, Department of Agronomy, University of Nebraska, Lincoln, Nebraska, United States. **remarks:** Developed cooperatively by USDA-ARS and the Nebraska Agricultural Research Division and released April, 1989. Received September 15, 1989.

PI 535777 **donor id:** NP33. **origin:** United States. **pedigree:** Sudangrass population obtained by interpollination of 25 lines selected from 42 superior lines with lodging & disease resistance, leafiness, tillering and seed production from the Purdue Agricultural Experiment Station. **other id:** GP-241. **group:** CSR-SORGHUM. **remarks:** Germplasm source of broad range of genetic diversity for agronomic traits. Plant height average at maturity 175cm. Plants mostly tan color. Midribs green. Glumes black and mahogany. Caryopsis brown. Hydrocyanic acid potential (HCN-p) mean 67mg per kg fresh weight. Requires special regeneration handling. Annual. Breeding Material. Seed.

PI 535778 **donor id:** NP34. **origin:** United States. **pedigree:** Sudangrass population segregating ms3 gene obtained by intermating from a topcross of 25 lines of NP33 onto ms3 plants of NP25 (low-dhurrin sudangrass germplasm). **other id:** GP-242. **group:** CSR-SORGHUM. **remarks:** Germplasm source of broad range of genetic diversity, and R-lines which segregate for Hydrocyanic acid potential (HCN-p) and the ms3 male-sterility allele. Plant height average at maturity 230cm. Plants tan color. Midrib white. Glumes black, mahogany and sienna. Caryopsis brown. Lodging resistance excellent. HCN-p means 457mg per kg fresh weight for fertile bulk, 400mg per kg for male-sterile bulk. Annual. Breeding Material. Seed.

PI 535779 **donor id:** NP35. **origin:** United States. **pedigree:** Sudangrass population of selected plants low in HCN-p from the NP34 male sterile (ms3) bulk. **other id:** GP-243. **group:** CSR-SORGHUM. **remarks:** Germplasm low-dhurrin source with broad range of genetic diversity for agronomic characteristics, and ms3 gene for male-sterility. Plant height average at maturity 190cm. Segregates for plant and midrib color. Glumes black, mahogany and sienna. Caryopsis brown. Requires special regeneration handling. Annual. Breeding Material. Seed.