

PI 536529 to 536530. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Barnes, D.K, USDA-ARS, University of Minnesota, 411 Borlaug Hall, 1991 Buford Circle, St. Paul, Minnesota, United States. **remarks:** Developed by the USDA-ARS and the Minnesota Agricultural Experiment Station and released in February, 1989. Received November 15, 1989.

PI 536529 **donor id:** INEFFECTIVE AGATE. **origin:** United States. **pedigree:** Ineffective sel. from Agate*2/unrelated high nitrogen fixing source followed by intercrosses for syn 3. **other id:** GP-228. **group:** CSR-ALFALFA. **remarks:** An ineffectively nodulating germplasm that with its effective parental cultivar represent a near isogenic source of alfalfa available for use as non-N₂-fixing controls in field research. Nitrogen fixing of the ineffective line is only 2% or less of the effective parent. Dormant type. Perennial. Breeding Material. Seed.

PI 536530 **donor id:** INEFFECTIVE SARANAC. **origin:** United States. **pedigree:** Ineffective sel. form Saranac*2/unrelated high nitrogen fixing source followed by intercrosses for syn 3. **other id:** GP-229. **group:** CSR-ALFALFA. **remarks:** An ineffectively nodulating germplasm that with its effective parental cultivar represent a near isogenic source of alfalfa available for use as non-N₂-fixing controls in field research. Nitrogen fixing of the ineffective line is only 2% or less of the effective parent. Moderately dormant. Perennial. Breeding Material. Seed.

PI 536531 to 536539. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Melton, B., Dept. of Agronomy and Horticulture, New Mexico State University, Las Cruces, New Mexico, United States; and Currier, C; Kimmell, J; , Dept. of Agronomy and Horticulture, New Mexico State University, Las Cruces, New Mexico, United States. **remarks:** Developed by the New Mexico Agricultural Experiment Station and released in April, 1989. Received November 15, 1989.

PI 536531 **donor id:** VERY FALL DORMANT. **origin:** United States. **pedigree:** Population from composite of Spredor II, Rhizoma and Maverick. **other id:** GP-230. **group:** CSR-ALFALFA. **remarks:** Germplasm source for basic studies related to genetic diversity, heterozygosity, heterosis and development of a *Medicago falcata* population. Perennial. Breeding Material. Seed.