

478530 TO 478531-continued
Centro, California.
Received September 1981.

478530. R-168. Peru. Camacani. Centro Experimental Camacani, UNTA. Collected May 05, 1981. 3830m. Donated by J. Machicao. Volunteer aftermath crop in dryland wheat field. Nodule sample. Wild. Seed.

478531. R-220. Peru. Collected May 14, 1981. Weed on bank adjacent to alfalfa field. Wild. Seed.

478532 TO 478573. *Medicago sativa* L. (Fabaceae) Alfalfa.

From Peru. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
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478532. R-186. Peru. Collected May 07, 1981. Sandy, irrigated soil, 10km NW of Arequipa, near El Cural. 2250m. Neither young nor old plants had nodules. Local name Yaragua. Cultivated. Seed.

478533. R-187. Peru. Collected May 07, 1981. Market, Arequipa. Local type, grown in Omate. Adapted to high altitude. Local name Omate. Cultivated. Seed.

478534. R-188. Peru. Collected May 07, 1981. Market, Arequipa. Local type. Adapted to low altitude. Local name Caravali. Cultivated. Seed.

478535. R-189. Peru. Collected May 07, 1981. Market, Arequipa. Local type. Possibly adaptable to SW US desert. Local name Yaragua. Cultivated. Seed.

478536. R-195. Peru. Collected May 08, 1981. Farm, sandbar, Tambo River valley, 100km SW of Arequipa. 220m. Local name Tambo. Cultivated. Seed.

478537. R-201. Peru. Collected May 09, 1981. T. Chocano O. farm, Samba River Valley, Sama, 35km N of Tacna. 620m. Mixed field and farm collection. Soil medium salty. Resistant to root rot. Nodules large, numerous. Local name Curibaya. Cultivated. Seed.

478538. R-212. Peru. Collected May 14, 1981. Market, Huaraz, north of Lima. 2500m. Summer ecotype. Grown in Macate. Stems pubescent. Local name Macate. Cultivated. Seed.

478539. R-214. Peru. Collected May 14, 1981. Market, Tinguia, north of Huaraz. Non-dormant type. Plants variable. Stems