

**27362 and 27363—Continued.**

are located some distance from the base of the canes it will require long pruning. Usually the vines are pruned to several long canes, with occasional spurs to enable keeping the shape of the vine. The variety is only partly self-fertile and artificial fertilization is therefore necessary. A wild staminate *Vinifera* known as *Flor* has been largely grown with it to supply the deficiency of pollen. Another table variety known as *Castiza* having red grapes is also used as a pollinizer. Bees are scarce in the Almerian parras owing to the absence of flowering plants. No doubt bees would greatly assist in the pollinization." (*Geo. C. Husmann.*)

**27364 to 27399.**

From Dickinson, N. Dak. Grown under the supervision of Mr. Charles J. Brand in collaboration with Prof. L. R. Waldron at Dickinson during the season of 1909. Seed from cuttings and seed from various sources grown in pots in the Department greenhouse at Washington and sent to the experimental substation at Dickinson.

Seed of the following; notes by Mr. Charles J. Brand:

**27364.** *MEDICAGO SATIVA L.* **Alfalfa.**

Seed from cuttings of a woody, semiupright plant with dusky-purple flowers and small, obovate leaves. Dickinson seed produced from cuttings of a plant grown at Lanham, Md., from seed received under this name from the Botanical Gardens, Madrid, Spain. Two plants yielded 3 ounces of seed.

**27365.** *MEDICAGO SATIVA L.* **Alfalfa.**

Dickinson seed from cuttings of a plant grown at Lanham, Md., from seed secured from the Botanical Gardens, Madrid, Spain. The parent plant had small, loose pods coiled from one to two turns, few flowers in the head, and those of lavender color. Six plants yielded 4 ounces of seed.

**27366.** *MEDICAGO SATIVA VARIA* (Mart.) Urban. **Sand lucern.**

Grown from seed taken from a coiled pod having three turns, found on a plant of No. 20571, normally bearing sickle-shaped pods and variegated flowers. Progeny from seed of sickle-shaped pods of this same plant is represented by No. 27370, below. Four plants yielded 3 ounces of seed.

**27367.** *MEDICAGO SATIVA L.* **Alfalfa.**

Produced at Dickinson from seed of a plant grown at Lanham, Md., from seed secured from the Botanical Gardens of Madrid, Spain. Four plants yielded 7 ounces of seed.

**27368 and 27369.** *MEDICAGO SATIVA L.* **Alfalfa.**

**27368.** *Mielga.* Grown from a plant of wild alfalfa secured by Mr. M. Fraile, of the Bureau of Plant Industry, near Salamanca, Spain. This plant was grown in the department greenhouse at Washington and sent by mail to Dickinson. One plant yielded 1 ounce of seed. (The name "Mielga" is never applied to cultivated alfalfa).

**27369.** Grown at Dickinson from cuttings obtained at Lanham, Md. Original seed from Botanical Gardens, Madrid, Spain.

**27370.** *MEDICAGO SATIVA VARIA* (Mart.) Urban. **Sand lucern.**

Grown from seed of a sickle-shaped pod taken from an individual plant of No. 20571, which came from Ultuna, Sweden. The mother plant normally bore sickle-shaped pods. The progeny of a coiled pod of the same plant is listed under No. 27366. The mother plant had variegated flowers showing the smoky yellow-violet combination of colors typical of true sand lucern.