

it swells and gives better results than any other kind, thus it has a greater value than other varieties. As it contains less oil than other varieties, it is not good for fattening hogs, but is suitable for other animals." (*Moreno.*)

46057. LUPINUS CRUCKSHANKSII Hook. Fabaceæ. **Lupine.**

From London, England. Purchased from Messrs. Watkins & Simpson, Ltd., Covent Garden. Received May 4, 1918.

Obtained for the experiments of the Office of Forage-Crop Investigations.

A somewhat woody perennial, up to 5 feet high, native to the Andes of Chile. The seven to nine leaflets are lanceolate, obtuse, and glaucous underneath. The large fragrant flowers are white with a yellow standard, turning violet with age. (Adapted from *Curtis's Botanical Magazine*, pl. 3056.)

46058. ROSA CHINENSIS Jacq. Rosaceæ. **Rose.**

From Hertford, England. Plants purchased from Paul & Sons, Cheshunt Nurseries. Received May 16, 1918.

"*Ard's Rover.* A semiclimbing rose of the *Rosa chinensis* type. Flowers very large, dark red, abundantly produced. Useful for breeding red varieties." (*Dr. Walter Van Fleet.*)

46059 and 46060.

From London, England. Purchased from Messrs. Watkins & Simpson, Ltd., Covent Garden. Received May 4, 1918.

Obtained for the experiments of the Office of Forage-Crop Investigations.

46059. LUPINUS DOUGLASSII Agardh. Fabaceæ. **Lupine.**

An herbaceous perennial from a slightly woody base, found along the coast of California from San Francisco to Los Angeles. The pubescent leaves have seven to nine oblanceolate leaflets 1 to 2 inches long. The large blue or purple flowers are scattered or subverticillate on long-peduncled terminal racemes. (Adapted from *Brewer and Watson, Botany of California*, vol. 1, p. 117.)

46060. LUPINUS POLYPHYLLUS Lindl. Fabaceæ. **Lupine.**

Variety *moerheimii*. This handsome and useful lupine differs from the true polyphyllus forms in its manner of growth, this being very much more compact and erect. One other point of difference worthy of note is that the lower flowers, which are the first to open, are very long lived and remain fresh until practically all the blooms have expanded. In *Lupinus polyphyllus* the lower flowers begin to fade some time before the topmost flowers have opened. *L. moerheimii* is very free flowering and of a beautiful bright-pink hue. (Adapted from *The Gardeners' Magazine*, vol. 51, p. 613.)

46061. EUCOMMIA ULMOIDES Oliver. Trochodendraceæ. **Tu-chung.**

From China. Procured by Mr. Frank N. Meyer, Agricultural Explorer for the Department of Agriculture. Received May 9, 1918.

"A Chinese caoutchouc tree, found wild on densely forested mountain slopes in southwestern Shensi and southeastern Kansu; also much cultivated in gar-