

greenhouses throughout Russia is still with flues, so one cannot expect cut flowers like one sees in America. Plants, however, coming originally from countries with fairly dry air, like *Cyclamen persicum*, *Cineraria hybrida*, (fr. Canary Islands), Cape of Good Hope plants, these all do better in flue-heated houses than in steam or hot water warmed conservatories and I noticed some very fine flowers on the *Cyclamens*."

Mr. Frank N. Meyer writes December 10, 1911, from Rostoff-on-Don, Russia: "Mr. Bogdan has now at Krassny Koot about 5 desiatines ($13\frac{1}{2}$ acres) in *M. falcata*, one block of 4 des. sown broadcast and the rest in smaller parcels, among which there are blocks where the selected plants are given extra care. Of these selected types he has about 400 specimens, all differing from one another, for this *M. falcata* is wonderfully variable; among these 400 however there are about 15 types which possess all factors that make them good fodder plants, viz., of strong upright growth, plenty of foliage, good seed producers and the pods not easily springing open or dropping off. Several of these types are hybrids between *M. sativa* and *M. falcata*. It seems also, however, that *M. falcata* gradually passes over into *M. sativa*, for there are forms of the first with bluish flowers and somewhat spiralled pods. (This is apparently the form *Medicago coerulea*!) Mr. Bogdan shares my opinion that *M. falcata* lends itself to the development of many types, some of which are of value on various sorts of pasture grounds, some for various sorts of hay-lands and some fit to be grown for fodder exclusively; various localities will have to develop varieties best suited to local conditions.

Mr. Bogdan showed me several hybrids of *M. falcata* x *M. sativa* that were perfectly sterile, though of good habits otherwise. His experiences with sowing were that the seed possesses from 30-80% germinating powers. Some plants become good sized plants in one season, bearing seeds even, while others grow very slow and do not bear until the third year. Some plants stand cutting twice, while others make no growth after having been cut once. The finest quality of *M. falcata* is that it stops growing when the hot and dry weather arrives, thereby saving itself, while *M. sativa* tries to push out and weakens itself so that the plants die out after three years. Mr. Bogdan found out that a thin stand suits *M. falcata* much better than being sown thickly and to accomplish such a thin stand he mixes the seed thoroughly with old millet seed (*proso*, *Panicum miliaceum*) that does not germinate any longer and gets his plants at the right distances. Next year he hopes to have 20 desiatines (54 acres) in *M. falcata*, so as to begin to supply the farmers with seed. The climate there in Krassny Koot is a real Steppe climate. In July, 1911, it was 108°