I—VARIATION IN THE "MAMMOTH RUSSIAN" VARIETY.

The results of cultural experiments with sunflowers, as conducted since 1915 by the Montana Experiment Station, show the "Mammoth Russian" to be better as regards acre-yield of silage than any other variety tested. However, it is plain to all observers that there is little uniformity in the type of plants produced from the commercial seed of this variety and the possibility of developing superior strains must have appealed to everyone who is interested in selection for the improvement of the sunflower crop.

In Montana, a particularly urgent need for improvement in the sunflower crop arises as the result of varied conditions of soil and climate. In the high plateau regions of the western part of the state, where sunflowers seem to be especially well adapted, no seed can be matured because of the short growing season. This condition makes necessary the importation of seed from other regions. Good sun-

1 Contribution from Agronomy Department, Montana Agricultural Experiment Station, Bozeman, Mont. Received for publication, April 17, 1921.
2 Agronomist.