METHODS FOR TESTING THE SEED VALUE OF LIGHT AND
HEAVY KERNELS IN CEREALS.

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During the past fifty years a number of experimenters have reported results on the relative value of heavy and light, or large and small seed grain. At the end of this paper is found a list of experiments usually cited on this subject. In view of the widespread interest in the matter, and the rather conflicting experimental data at hand, it seems that the time is here when those interested should undertake a well planned line of experiments, under various conditions, in order that we may have a clear and definite answer regarding the problem.

The list of experiments referred to, while not quite complete, shows at least 22 tests with wheat, 7 tests with oats and a number with barley and rye, making 34 in all.

Before attempting to outline a plan for future work along this line, it will be well to make a careful examination of methods used in the past. Each experimenter has devised a somewhat different method, although all have approached with the same general point of view in mind. In order to make a comprehensive study, the following summary has been prepared:

CLASSIFIED SUMMARY OF VARIOUS METHODS USED BY DIFFERENT EXPERIMENTERS IN A STUDY OF THE COMPARATIVE MERITS OF LARGE AND SMALL OR HEAVY AND LIGHT SEED OF CEREALS.

Methods of Preparing or Selecting the Seed.

(1) Hand selection.
   (a) Large plump kernels and small plump kernels from the same head.