

be measured by the yields of grain. Some yield differences are shown in Table 2.

Table 2 shows some difference in yield of grain from the heavy and the light seed lots in 1944 and again 1945, but the yields from the heavy lots were not greater in all trials. In both years and in all lots the treated seed gave increased yields, ranging from 6 to 34 percent more than obtained from the non-treated seed. These data seem to indicate that the increased yields from

the treated seed lots were obtained both from improved stands and by the prevention of root rots of plants after they had passed the seedling stage. Although plump heavy seed has not given larger yield than lighter seed in a few trials, the results in the majority of trials seem to support the practice of selecting heavy seed for sowing and the application of a good seed disinfectant gave significant increases in yields in all trials made in both years.

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