

Annotation

Polishchuk V.V., Balabak A.F., Velychko Yu.A., Karpuk L.M.

Interaction of yield and quality of sugar beet seeds

The interconnection of seeds productivity of diploid and triploid hybrids of sugar beet with its similarity, grown without abrasive method was studied. The analysis was carried out within each seedling and the yield of the seed and its quality grown in the production conditions of the south of Ukraine was investigated. By weight of seeds from one seeder more than 100 grams both diploid and triploid form of sugar beet its quality did not significantly increase compared with less mass of seeds from one plant. There was only a tendency to increase the similarity of the seeds.

Thus, the seed yield of the diploid hybrid was more than 99 g/plant, its similarity was 87%, with a yield reduction of 49-99 g/plant, the similarity decreased only by 3%, and the yield was less than 49 g / plant - by 6% ($SSD_{05} = 7.5\%$). Similar results are obtained for the triploid hybrid.

The research did not reveal a positive relationship between seed yield and quality. On the basis of experimental data it is proved that there is practically no correlation dependence between the seed yield and its similarity.

Key words: *seeds, correlation dependence, yield, quality, sugar beets.*