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**SUGAR BEET CULTIVATION ON THE UKRAINIAN FARMLANDS
IN THE 19 – AT THE BEGINNING OF THE 20TH CENTURIES
FOR THE NEEDS OF BECOMING AND DEVELOPMENT
OF BRANCH RESEARCHES**

Summary

Science-based agricultural production and management started its development in Ukraine in the nineteenth century and brought in new production achievements. Presently, modern agrarian researchers are paying considerable attention to the development of sugar beet branch, the agricultural sector, specialised in the cultivation of sugar beets as a raw material for the sugar production industry.

The article presents the results of historical and analytical research of the emerging and development of sugar beet agricultural production on Ukrainian farmlands in the nineteenth and early twentieth centuries. The agro technology of growing, selection, dynamics of sugar beet cultivation for the sugar production industry in Ukraine and resolving the livestock forage supply challenge have been analyzed.

It was found that the geographical and economic conditions, Ukrainian soils in the nineteenth century were favorable for the Kiev province to become the main area of sugar beet production, where outdated manufacturing of sugar rapidly transformed to the industrial plant-based production.

The research done has shown that, despite the deficient engineering and technical base of agricultural plants and factories, hard working conditions, lack of skilled personnel and shortage of specific knowledge, gradual development of sugar industry was still taking place.

It was established that at the beginning of XX century sugar beet cultivation became one of the leading agricultural branches of Ukraine. It quickly acquired a breeding, seed and technological independence from the developed at that time beetroot world countries. The research has also identified individual contributions of private agronomists, sugar plant owners, patrons, such as Count O. Bobrynsky, L.L. Sempolovsky, A.E. Zaykevych, S.L. Frankfurt.

Finally, a direct contribution by research institutions and organizations to the development of the sugar beet industry in Ukraine in the nineteenth and early twentieth centuries have also been studied. These were: the networks of research institutions of the All-Russian Sugar Producers Association (RSPA) under the scope of work of the South-Russian Society for the Promotion of Agriculture and Agricultural Industry, Kyiv Agronomic Society, Variety and Seed Management.

Key words: *beet growing, sugar beet, sugar industry, breeding, breeding stations, collective varietal testing, agrotechnology of cultivation.*