

INFLUENCE OF THE SOWING TIME ON GROWING AND DEVELOPMENT OF SOME SWEET CORN HYBRIDS IN DIFFERENT LOCATIONS FROM ROMANIA

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Abstract. The results presented the influence of sowing time on growth and development of sweet corn hybrids. Planting dates was determined according to experimental variations. For the first time to be considered when soil temperature was 8-10 °C. The most important phenophases of sweet corn growth and development have triggered differently depending on planting dates, location and hybrid. Romanian hybrids were better adapted to environmental conditions at the beginning of the vegetation is causing rising earlier than 2-6 days compared to foreign hybrids. Number of days required for each phenophases occurrence decreased continuously from the first time to third sowing time.

Key words: *Zea mays*, var. *rugosa* (Bonaf), convar. *Saccharata* Koprn (Sturt.), anthesis, silk emergence

Introduction

Sweet corn, *Zea mays*, var. *rugosa* (Bonaf), convar. *Saccharata* Koprn (Sturt) is native to submountainous area of Peru and Bolivia, where it arose soft corn grain. As a secondary center is Mexico, where southern indians, brought soft corn grain. Under the arid climatic conditions it appears the new type of corn with hard grain. Later, under repeated natural crosses appeared multiple forms like *indurata*, *indentata* and *saccharata* [1].

On the American continent sweet corn was made known over 3000 years ago. After discovery of America, was brought to Europe where it spread in all countries of the continent.

Sweet corn is grown for its milk stage grain. In this phenophase taste qualities are maximum and nutritious substances are best absorbed by human organism.

Sweet corn is a monoecious plant, which form at the tip of the stem a male branched panicle type inflorescence and at the armpit of the leaves it forms the female spadix

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