RESPONSE OF GROWTH AND YIELD OF SWEET CORN (*Zea mays saccharata* Sturt) VARIETY NB SUPER F1 TO TYPES OF NITROGEN FERTILIZER AND PLANTING DISTANCE

THESIS

By:

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AGROTECHNOLOGY STUDY PROGRAM

FACULTY OF AGRICULTURE

UNIVERSITAS PEMBANGUNAN NASIONAL "VETERAN" JAWA TIMUR

SURABAYA

2025

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Submitted to Fulfill the Requirements for Obtaining A Bachelor's Degree
In Agricultural Technology

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APPROVAL SHEET

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Submitted on:
17 September 2025

This thesis is accepted as one of the requirements for obtaining a Bachelor's Degree in Agriculture
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DECLARATION OF PLAGIARISM-FREE WORK

I, the undersigned:

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Program	: Bachelor's Degree (S1)
Study Program	: Agrotechnology
Faculty	: Agriculture

I hereby declare that this thesis does not contain any part of other scientific works that have been submitted to obtain an academic degree at a higher education institution, nor does it contain any works or opinions that have been written or published by other individuals or institutions, except those that are cited in writing in this document and listed in full in the bibliography.

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Surabaya, 17 September 2025

The Declarant

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RESPONSE OF GROWTH AND YIELD OF SWEET CORN (*Zea mays saccharata* Sturt) VARIETY NB SUPER F1 TO TYPES OF NITROGEN FERTILIZER AND PLANTING DISTANCE

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ABSTRACT

Sweet corn (*Zea mays saccharata* Sturt) is a horticultural commodity also known as *sweet corn*. Sweet corn is popular among farmers because it has high nutritional content and can be harvested faster. However, national sweet corn production in 2020–2023 has decreased by 12.5%. The purpose of this study was to determine the interaction between nitrogen fertilizer type and planting distance on the growth and yield of NB SUPER F1 sweet corn. This study was a factorial experiment based on a randomized complete block design (RCBD) consisting of two factors. The first factor was the type of nitrogen fertilizer (N), which consisted of four treatment levels, and the second factor was the planting distance (J), which consisted of three treatment levels. The first factor was the type of nitrogen fertilizer (N), namely N0 = Urea 350 kg.ha^{-1} (control), N1 = Urea 200 kg.ha^{-1}, N3 = KNO_3 200 kg.ha^{-1}. The second factor was J1 = 70 cm x 20 cm, J2 = 70 cm x 30 cm, and J3 = 70 cm x 40 cm. The results of the study showed an interaction between the combination of urea nitrogen fertilizer treatment at a dose of 200 kg.ha^{-1} and a planting distance of 70 x 40 cm on the parameter of ear weight with husks.

Keywords: Sweet Corn, Nitrogen Fertilizer Type, Planting Distance, Randomized Complete Block Design

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While I have endeavored to present a comprehensive thesis, there are still areas for improvement in writing style and content. I sincerely apologize to the readers for any shortcomings. This thesis will serve as a valuable resource for those seeking it

Surabaya, September 2025

The Author

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