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Growth Characteristics of the Heading Season with Transplanting Time in Chungbuk Region

Yeseul Choi^{1*}, Chaeyeong Lee¹, Yoonsang Lee¹, Minja Kim¹, Singu Kang²

¹Crop Research Division, Chungbuk Agricultural Research and Extension Services

²Rural Development Administration National Institute of Crop Science

[Introduction]

In the Chungbuk region, the temperature increase was 0.6°C compared to the past, which was a larger increase than in the southern region, and the cultivation period was longer, but it is causing the production and quality deterioration due to high temperature ripening. Accordingly, in order to produce high-quality rice, it is necessary to change the cultivation period according to the cultivation area and the type of water source. This study was conducted to investigate the change in the growth characteristics during the seeding season when the transplanting time was controlled.

[Materials and Methods]

This study was conducted at Chungcheongbuk-do Agricultural Research and Extension Services in 2022. For the test cultivars, Odae of early maturing cultivar, Cheongpum of mid-maturing cultivar, and Samgwang of mid-late maturing cultivar were used. The transplanting period was from May 20 to June 20, each of which was transplanted 4 times. The standard cultivation method for each region was followed, and the planting distance was 30×15cm. Using a slow-release fertilizer, the nitrogen application amount per 10a was applied at 9kg.

[Results and Discussion]

There was no difference in the leaf color value of the early-maturing variety according to the transplanting period, the mid-maturing variety increased as the transplanting time was delayed, and the mid-late maturing variety decreased as the transplanting period was delayed. The fresh weight at the heading season increased as the transplanting time was delayed for early-maturing variety, and the mid-maturing variety and mid-late maturing variety decreased with the same dry weight. The dry weight of the ears at the heading season decreased as the transplanting time was delayed, but increased on June 20th for mid-late maturing variety and June 30th for early maturing variety. It is judged that additional investigations are needed to analyze the correlation between the growth rate and yield during the heading season.

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*Corresponding author: E-mail, yeppi1114@korea.kr Tel. +82-43-220-5553