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Comparison of Yield and Growth Characteristics of IR603, Italian Ryegrass

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[Introduction]

Italian ryegrass (*Lolium multiflorum* Lam.) has good forage crop for productivity and feed value. The industry of forage in South Korea is going up expend through the utilization of high quality forage crops, Italian ryegrass. Also, forage is the essentials element for livestock but some of the farmers did not well know the importance for forage quality. Italian ryegrass (IRG) has been very important as major winter forage crop. Because IRG is suitable for cultivation in paddy field with higher moisture soil, and also has higher quality, higher productivity, and favorable forage crop for livestock. therefore, we bred a new variety with high quality and yield variety in Korea.

[Materials and Methods]

This study was conducted in the subtropical livestock research institute, National Institute of Animal Science, RDA, Korea. Italian ryegrass IR 603 were sown in narrow strips in plots 2m by 3m in Randomized block design on 30th September 2020 experiment field. Winter field survival was checked in early spring. Italian ryegrass IR 603 was harvested in heading time of variety for evaluating on fresh and dry matter productivity.

[Results and Discussion]

Plant height of IR603 was 103 cm and heading date of IR603 was on 16 May and showed high dry yield (10,587kg/ha) compared to check variety 'Kowinearly'(9,977kg/ha).

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