

GROWTH AND DEVELOPMENT OF HIGH-YIELDING FOREIGN RICE VARIETIES IN THE SOIL-CLIMATIC CONDITIONS OF THE KHOREZM REGION

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ABSTRACT

In the article, it is stated that the foreign varieties of rice "Vietnam-2" and "Vietnam-3" grow well in the soil and climate conditions of the Khorezm region. these varieties are included in the ranks of medium-sized varieties, and the results of the research on the determination of grain quality, seed quality indicators, salinity and drought resistance of the varieties are presented.

Keywords: Rice, variety, grain quality of varieties, plant growth period, seed quality indicators, plant growth period, salinity, foreign variety, drought tolerance.

INTRODUCTION

The article presents the good growth and development of foreign rice varieties Vietnam-2 and Vietnam-3 in the soil-climatic conditions of the Khorezm region. These varieties are included in the list of mid-season varieties, and the results of research conducted to determine the grain quality, seed quality indicators, salinity and drought resistance of the varieties are presented. Rice is one of the ancient and valuable crops for the population of the Earth, and it is cultivated in various ways depending on the conditions. Field experiments were conducted to study the suitability of Vietnam-2 and Vietnam-3 rice varieties imported to the Republic of Uzbekistan from abroad, namely from Vietnam, to soil and climatic conditions and development phases at the experimental sites of the Khorezm branch of the Rice Research Institute. Observation results were obtained in the conditions of the sharply continental climate and saline soils of the Khorezm region.

No. variety names planting date

watered germination bunching tube production root production ripening

№1- Table

№	names of varieties	planting day	watered	germination	collection	Flute production	making a porch	flowering	cooking		
									milk	wax	full
1	vetnam-2	8.V. 22	17.V.22	29.V.22	2.VII22	17.VIII.22	20.VIII.22	24.VIII.22	28.VIII.22	2.IX.22	13.IX.22
2	vetnam-3	8.V. 22	17.V.22	29.V.22	26.VI22	27.VIII.22	30.VIII.22	1.IX.22	3.IX.22	5.IX.22	13.IX.22

The Vietnam-2 and Vietnam-3 varieties imported from Vietnam to the Republic of Uzbekistan were planted and grown in field conditions, and phenological observations were conducted. Foreign Vietnam-2 and Vietnam-3 varieties were planted in experimental fields in Gurlan district, Khorezm region on May 8, 2022.

These varieties were grown by scientists of the Rice Research Institute based on agrotechnological measures created for local varieties. Seeds of foreign varieties fully germinated 8-9 days after sowing. The “Vietnam-2” variety formed 3 leaves by May 22, and the “Vietnam-3” variety formed 4 leaves. Under favorable conditions for local varieties, foreign varieties formed good bush thickness, the bunching phase lasted 29.30 days in varieties, and bunching was 1.9 - 2.0% per plant. The “Vietnam-2” variety began the flute formation phase with the emergence of 8 leaves and the “Vietnam-3” variety with 9 leaves, and this period ended with the emergence of flag leaves on July 2 in “Vietnam-2” and June 26 in “Vietnam-3”. The “Vietnam-2” and “Vietnam-3” varieties fully developed panicles on August 20. The period from the beginning of panicle formation to the complete completion of flowering and pollination in the “Vietnam-2” and “Vietnam-3” varieties lasted 4-6 days, and the spikelets were fully formed on August 24. After the panicles of the varieties were fully formed, the ripening process began, and the milk ripening period lasted until September 2, lasting 12 days in the “Vietnam-2” and “Vietnam-3” varieties. The wax ripening period lasted 12-13 days in the varieties. The varieties “Vietnam-2” and “Vietnam-3” required 30-32 days to fully ripen. The varieties “Vietnam-2” and “Vietnam-3” fully ripened on September 13. It was determined that in the soil and climatic conditions of the Khorezm region of the Republic of Uzbekistan, the foreign varieties “Vietnam-2” and “Vietnam-3” fully ripen in 125-126 days, and these varieties are included in the list of mid-ripening varieties, and our experiments are continuing to determine the grain quality, seed quality indicators, salinity and drought resistance of the varieties.

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