

The Effect Of Rice Planted For Seed on the Biometric Indicators of the Iskandar Variety on the Norm of Nitrogen Fertilizer and the Number of Feeding

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Abstract. In this article, according to the seed biometric parameters of the Iskandar rice variety, the 7th option, when fed with pure nitrogen fertilizer at the rate of N_{150} kg/ha 3 times in the phases of germination, tillering, and shoot, the length of the spike is 25 cm, the weight of the seed in one furrow is 4.3 gr, the number of complete seeds was 114 and the weight of 1000 seeds was shown to be 35.8 grams.

Keywords: Iskandar variety, nitrogen fertilizers, in pure form, biometric index, spike length, seed weight in 1 pod, half a centimeter, gr.

The relevance of the subject. Rice fields planted in the world are expanding, taking into account the demand of the world's population for rice products. From the achievements of Science and the experience of production progressives, it is known that modern, properly organized seeding increases the seed quality, varietal character and yield of crops by 25-30 percent. At the same time, the yield of crops depends on the level of technology used and the quality of the seeds used for the correct selection and planting of varieties. An additional crop grown in this way will have a great economic effect.

An important role is played by the further improvement of agricultural production efficiency, the introduction of advanced science achievements and technologies, the specialization, growth and accelerated Organization of primary seed production. Usually, seeds grown in good conditions provide the highest and stagnant yield.

Purpose of the study. The influence of nitrogen fertilizer norms and the number of feeding on the biometric indicators of the seed Iskandar rice variety in the conditions of Meadow Boz soils of the Tashkent region.

Objectives of the study. Determination of the influence of nitrogen fertilizer norms and the number of feeding on the biometric indicators of the seed rice Iskandar variety.

In our experiment, the results of the biometric analysis of the Iskandar variety in laboratory conditions option 1 net with nitrogen fertilizers 2 times the yield per N_{90} kg/ha, when fed in the spring release phases, the plant height is 99 cm, spike length is 23 cm, seed weight in 1 row is 3.1 gr, and the total number of seeds in 1 row is 106, the weight of the TA seed was 29.3 grams (See Table 1). In our 2nd variant pure N_{120} kg and 2 times, when fed in Tupling, flute release, St phases, the plant height is 103 cm, spike length is 24 cm, seed weight in 1 row is 3.3 gr, and total number of seeds in 1 row is 107 grains, while full seeds in 1 row are 98 grains, puch seeds in 1 row are 5 grains, half-puch seeds in 1 row are 4 grains, and 1000 seeds weigh 30.9 grams did. n our 3rd option, net N_{150} kg and 2 times, pollination, flute release, plant height when fed in St phases is 107 cm, spike length is 25 cm, seed weight in 1 row is 3.8 gr, and total seed weight in 1 row is 108 grains, 1 row full seed is 100 grains, 1

row puch seed is 4 grains, and 1 row half puch seed in 1 row is 3 grains, and 1000 seed weight is 35.3 grains made up gram. In Option 4, pure N₁₈₀ kg and 2 times, pollination, flute release, when fed in phases, the plant height was 111 CM, spike length was 25 cm, seed weight in 1 row was 3.6 gr, and total number of seeds in 1 row was 109, while full seeds in 1 row were 96 grains, puch in 1 row was 7 grains, half-puch seeds in 1 row were 6 grains, and 1000 seed weight was 33.1 grams. In Option 5, net N₉₀ kg and 3 times, when fed in the germination, germination, +flute release phases, the plant height was 103 cm, spike length was 24 cm, grain weight in 1 row was 3.5 gr, and total number of seeds in 1 row was 116, while full seeds in 1 row were 107 grains, puch seeds in 1 row were 5 grains, and half-puch seeds in 1 row were 4 grains, 1000 seed weight was 30.1 grams. In option 6 pure N₁₂₀ kg and 3 times, when fed in the germination, germination, +flute release phases, the plant height is 106 cm, the spike length is 24 cm, the grain weight in 1 row is 3.9 gr, and the total number of seeds in 1 row is 121 grains, while the full seeds in 1 row are 113 grains, the puch seeds in 1 row are did. In Option 7, the plant height is 110 cm when fed in pure N₁₅₀ kg and 3 times, germination, germination, +nay release Phases, spike length is 24 cm, seed weight in 1 row is 4.3 gr, total seed in 1 row is 120 grains, 1 row full seed is 114 grains, 1 row puch seed is 5 grains, and 1 row half - puch seed in 1 row is 3 grains, 1000 grain weight is 35.8 we can observe that it is gram. In Option 8, pure N₁₈₀ kg and 3 times, while when fed in the germination, germination, +flute release phases, the plant is 117 cm tall, spike length is 23 cm, seed weight in 1 row is 3.9 gr, total seed number in 1 row is esa 113 , full seeds in 1 row are 103 grains, puch seeds in 1 row are 6 grains, and half puch seeds in 1 row are 5 grains, 1000 grain weight is 34.5 grams organized. In variant 9, the plant height is 102 cm when fed in pure N₉₀ kg and 4 times, +germination, germination, nay release, Rovak release Phases, spike length is 22 cm, seed weight in 1 Rovak is 3.4 gr, and total seed weight in 1 Rovak is 114 grains, 1 full seed in 1 Rovak is 102 grains, 1 puch seed in 1 Rovak is 7 grains, and 1 half puch seed in 1 Rovak is 6 grains, 1000 seed weight 29.8 grams. ption 10 states net N₁₂₀ kg and 4 times, +germination, germination, nay release, plant height 104 cm when fed in the Rovak release Phases, spike length 23 cm, seed weight 3.7 gr in 1 Rovak, and total seed number in 1 Rovak is 116 units, full seeds in 1 Rovak are 105 units, puch seeds in 1 Rovak are 6 units, and half puch seeds in 1 Rovak are 5 units, 1000 grain weight 31.9 grams. In option 11, pure N₁₅₀ kg and 4 times, and when fed in +germination, germination, nay release, Rovak release phases, the plant height is 116 CM, spike length is 24 cm, seed weight in 1 Rovak is 4.0 gr, total seeds in 1 Rovak is 113 Veal, and full seeds in 1 Rovak are 102 units, while puch seeds in 1 Rovak are 5 units, and half puch seeds in 1 Rovak are 6 units, 1000 the weight was 35.5 grams. In variant 12, the plant is 121 cm tall when fed in pure N₁₈₀ kg and 4 times, +germination, germination, nay release, Rovak release Phases, spike length is 24 cm, seed weight in 1 Rovak is 3.8 gr, total number of seeds in 1 Rovak is 112 grains, and full seeds in 1 Rovak are 96 grains, puch in 1 Rovak



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Table 1.

The influence of nitrogen fertilizer norms and the number of feeding on the biometric indicators of the seed rice Iskandar rice variety.

№	Variants	Feeding number and period	Plant height, sm	Spike length, sm	Seed weight in 1 row, gr	Total number of seeds in 1 row	Total number of seeds in 1 row	Number of puch seeds in 1 row	Number of half-puck grains in 1 row	1000 seed weights, gramm
1	N ₉₀ , P ₁₂₀ , K ₁₂₀	2 times, gathering, flute release, st	99	23	3,1	106	95	6	5	29,3
2 st	N ₁₂₀ , P ₁₂₀ , K ₁₂₀ ,		103	24	3,3	107	98	5	4	30,9
3	N ₁₅₀ , P ₁₂₀ , K ₁₂₀		107	25	3,8	108	100	4	3	35,3
4	N ₁₈₀ , P ₁₂₀ , K ₁₂₀		111	25	3,6	109	96	7	6	33,1
5	N ₉₀ , P ₁₂₀ , K ₁₂₀	3 times, sprout, spawn, + spawn	103	24	3,5	116	107	5	4	30,1
6	N ₁₂₀ , P ₁₂₀ , K ₁₂₀		106	24	3,9	121	113	5	3	32,3
7	N ₁₅₀ , P ₁₂₀ , K ₁₂₀		110	25	4,3	120	114	3	2	35,8
8	N ₁₈₀ , P ₁₂₀ , K ₁₂₀		117	23	3,9	113	103	6	5	34,5
9	N ₉₀ , P ₁₂₀ , K ₁₂₀	4 times, +sprout, spawn, spawn, spawn	102	22	3,4	114	102	7	6	29,8
10	N ₁₂₀ , P ₁₂₀ , K ₁₂₀		104	23	3,7	116	105	6	5	31,9
11	N ₁₅₀ , P ₁₂₀ , K ₁₂₀		116	24	4,0	113	102	5	6	35,5
12	N ₁₈₀ , P ₁₂₀ , K ₁₂₀		121	24	3,8	112	96	8	9	33,8

we observed that the seeds were 8 pieces, and the semisweet seeds in 1 row were 9 pieces, with 1000 seeds weighing 33.8 grams.

Experiments have shown that in terms of seed biometric indicators of the Iskandar rice variety, the highest option 7 nitrogen fertilizer is pure in N150 kg/ha, when fed in 3 times the germination, germination, spring release phases, the spike length will be 25 cm, the seed weight in one row will be 4.3 gr, the number of full seeds will be 114.

REFERENCES

1. O'suv davri davomida fazalar bo'yicha fenologik kuzatishlar olib borish "metodika Gosudarstvennogo sortoispaniya selskoxozyaystvennix Kultur" (M., 1964) uslubnomasi s. 100-110.
2. Buriev X. Ch., Abdulkarimov Z. A., Islomov S.Ya. //Seleksiya urug'chilik va urug'shunoslik fanini o'qitish metodikasi. Toshkent 2010.
3. Usmonov Q.G', Qodirov B.G Ertapishar "sanam" va "Nukus-2" navlarini urug'lik sifati va biometrik ko'rsatkich-lariga tuproq sharoitining ta'siri. //Professor X.N.Atabaeva tavallud kunining 85 yilligi va ilmiy-pedagogik faoliyatining 67 yilligiga bag'ishlangan "qishloq xo'jaligi ekinlarini etishtirishda dolzarb masalalar va uni rivojlantirish istiqbollari" mavzusidagi xalqaro ilmiy-amaliy konferentsiyasi materiallari to'plami//. Toshkent 2020. 10-11 yanvar. 1-qism. 233-241-b.
4. Rosaboev A. T, Shoyimov S, P sholi urug'larining sifat ko'rsatkichlarini oshirish yo'lari. //Sholi va dukkakli don ekinlari etishtirishning muammolari va istiqbollari: seleksiya, urug'chilik va etishtirish agrotexnologiyasi mavzusidagi xalqaro onlayn ilmiy-amaliy anjuman maqolalar to'plami// Toshkent -2021 49-53 betlar.
5. Qodirova Sh.I. "Kuzgi bug'doyning o'sishi va rivojlanishiga nam to'plovchi sug'orish va o'g'itlar me'yorlarining ta'siri" // (q.x.f bo'yicha (PhD) diss. avtoreferati) Toshkent. 2018. 13-b.