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PRODUCTIVITY INDICATORS OF LEEK ONION VARIETY SAMPLES

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Аннотация: *In the article, the highest total yield (leaf + false stem) in the selection of leek varieties suitable for the soil-climate conditions of the Fergana Valley is Autumn Giant (96.6 t/ha), Premier (88.6 t/ha), Elefant MS (87.6 t/ha), Vesta (85.2 t/ha) and Columbus (83.5 t/ha) and the highest yield (false stem) Autumn giant (57.8 t/ha), Vesta (51.4 t /ha) and Elefant MS (51.3 t/ha) were revealed.*

INTRODUCTION

Expanding the assortment of vegetable crops in the world is an urgent task of modern vegetable growing. As a solution to this problem, Uzbekistan has a high yield, Frost, disease and pest-resistant porey onion (Allium porrum L.) the introduction of the type into production is considered important. Onion crops include porey onion (Allium porrum L.) taking a special place, the world's porey onion 2 239.8 thousand tons of products are grown. Indonesia (638.7 thousand t.) on the production of Porey onion crop.), Turkey (225.5 thousand t), France (168.4 thousand t), southern Belgium (147.1 thousand t), Korea (148.1 thousand t), China (119.0 thousand t) are the leading countries [1]; [2].

The wild and cultivated forms of leek have received different standard names in those places, transport, in Turkey and Turkey, the leek is "prason", "pras", the Arabic name is "kur romansi" "poru, porr, pir", in Azerbaijan "chever" ", from Greece to Georgia Leek is called "prasa" in Greek. In Georgia and Armenia, leeks are available in 3 forms, called Tiamula, Gveso and Prasa domashnyaya. The German name of leek is "roggeye", the English name is "leek" [3]; [4].

However, leek is not widespread in Uzbekistan, particularly in the soil and climate conditions of the Fergana Valley, due to the lack of regionalized varieties and the lack of scientific basis for cultivation technology. Therefore, in the republic, scientific and research work was carried out in order to study and introduce foreign selection sources of leek plant into production.

Research method. In the research work, the leek plant belonging to the foreign selection "Karantansky" (st), "Vesta", "Giraffe", "Zimniy giant", "Kazimir", "Kamus", "Columbus", "Letniy briz", "Autumn giant", "Pobeditel", "Premier", "Elephant MS" varieties and "Lincoln F1" hybrid plant, leaf and false stem served.

Leek varieties in each sample of 5 m2 area without return 20 plants were carried out. In growing leek from 40-day-old seedlings, important morpho-biological and valuable economic characteristics of varieties are evaluated.

Research result. According to the results of the research carried out in 2021-2023 on the selection of leek varieties suitable for cultivation in the soil and climate conditions of the Fergana Valley, the highest total (leaf + false stem) yield is Autumn Giant (96.6 t/ha), Premier (88.6 t/ha), Elefant MS (87.6 t/ha), Vesta (85.2 t/ha) and Columbus (83.5 t/ha),

Karantansky (st) variety (59.8 t/ha) compared to (respectively) – 36.8; 28.8; 27.8; 25.4 and 23.7 t/ha were found to be higher (table).

30.9-10.0% or 18.5 compared to the Karantansky (st) variety in total productivity; High leaf+false stem yields of 6.7 and 6.0 t/ha were shown by Lincoln F1 (78.3 t/ha), Zimniy giant (66.5 t/ha) and Giraf (65.8 t/ha) varieties. did However, according to the results of the research carried out during 2021-2023, the lowest total yield was obtained by Kazimir (59.6 t/ha), Letniy briz (58.2 t/ha), Kamus (58.1 t/ha) and Pobeditel (55.8 t/ha) was formed in varieties, proportionally compared to Karantansky (st) variety - 0.2 per unit of area; 1.6; It was found that 1.7 and 4.0 tons were less. The average total yield indicators for 2021-2023 were EKF05 – 2.2 t/ha and Sx% – 3.1% when mathematically and statistically processed.

When analyzing the share of leaves and false stems in the total harvest, it was found that the share of leaves and false stems in the Karantansky (st) variety was 43.8% and 56.2%, or 2.3:1.7. The highest percentage of false stems was found in the Vesta variety (60.4%). Also, it was found that the percentage of false stems in the total yield of leek showed 50% higher indicators of all varieties.

Commodity in 2021-2023 as part of total productivity (false stem) yield is also different, the yield (false stem) of the standard Karantansky (st) variety is 33.6 t/ha, compared to it, Osenniy has the highest yield of 24.2-17.7 t per unit area. was found in giant (57.8 t/ha), Vesta (51.4 t/ha) and Elefant MS (51.3 t/ha) varieties. Also, Premier variety (48.4 t/ha) – 14.8 t, Columbus variety (46.8 t/ha) – 13.2 t, Lincoln F1 hybrid (43.3 t/ha) – 9, 7 t, Zimny giant variety (39.1 t/ha) – 5.5 t, Giraffe variety (38.8 t/ha) – 5.2 t, respectively compared to the Karantansky (st) variety – 44.0; 39.3; 28.9; It was found that 16.4 and 15.5% higher false stem yield was obtained.

Productivity indicators of leek onion variety samples (2021-2023)

Varietal name	Total productivity	Percentage of leaves and false stems in the total yield %			Turbidity	distribution of yield by false stem diameter, %				
		Leaf	False stem	ratio		≤10 mm	11-20 mm	21-30 mm	31-40 mm	≥40 mm
Karantanskiy (st)	59,8±0,8	43,8	56,2	2,3:1,7	33,6±0,5		5,6	35,7	48,5	10,2
Vesta	85,2±1,5	39,6	60,4	2,5:1,5	51,4±0,9			4,2	39,3	56,5
Jirafa	65,8±1,2	41,1	59,0	2,4:1,6	38,8±0,7		5,8	42,4	51,8	
Zimniy gigant	66,5±0,9	41,2	58,8	2,3:1,7	39,1±0,5		10,4	38,9	50,7	
Kozimir	59,6±0,9	43,5	56,5	2,3:1,7	33,7±0,5		45,9	54,1		
Kamus	58,1±0,7	47,8	52,3	2,1:1,9	30,0±0,4	5,6	42,5	51,9		
Kolumbus	83,5±1,1	43,9	56,1	2,3:1,7	46,8±0,6			45,3	49,3	5,4
Letniy briz	58,2±1,0	42,3	57,7	2,3:1,7	33,5±0,6		10,7	42,5	46,8	
Osseniy gigant	96,6±2,0	40,2	59,8	2,4:1,6	57,8±1,2				43,4	56,6
Pobeditel	55,8±1,1	44,1	55,8	2,3:1,7	31,1±0,6		42,8	57,2		
Primer	88,6±1,7	45,4	54,5	2,2:1,8	48,4±0,9			48,4	51,6	
Elefant MS	87,6±1,4	41,4	58,6	2,3:1,7	51,3±0,8				42,7	57,3
Lincoln F1	78,3±1,1	44,7	55,3	2,2:1,8	43,3±0,6			44,5	50,4	5,1
LOD 05	2,2	-	-	-	1,3	-	-	-	-	-
Sx%	3,1	-	-	-	3,1	-	-	-	-	-

Average indicators of marketable yield (false stem) of leek varieties for the years 2021-2023 were LOD 05 – 1.3 t/ha and Sx% – 3.1% when mathematically and statistically processed.When analyzing the distribution of false stem diameter in Tovarbop harvest, the false stem diameter in Karantansky (st) variety is 11-20 mm – 5.6%, 21-30 mm – 35.7%, 31-40 mm – 48.5% and ≥40 mm It was found that it was 10.2%. It was found that the largest (≥40

mm) false stem yield in samples of leek varieties was Elefant MS (57.3 %) in Autumn Giant (56.6 %), Vesta (56.5 %) varieties.

Summary. In the Fergana Valley soil-climate conditions, it is recommended to use Osenniy Giant (57.8 t/ha), Vesta (51.4 t/ha) and Elefant MS (51.3 t/ha) varieties to obtain a high yield of leek.

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