

# VARIETIES OF BAQLAJON WITH VALUABLE FARM CHARACTERISTICS

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## Abstract

The article presents the results obtained at the Surkhondaryo Scientific Experimental Station of the Institute of Vegetable Growing, Melon Crops and Potato Growing in 2021-2023 on early-ripening, nematode-resistant varieties and lines of eggplant. The study showed that the highest total yield was observed in the TRIAL sample brimdal 972 variety and was 35.3% higher than in the standard variety, with a yield of 82.1 t/ha.

**Keyword:** eggplant, root knot nematodes, selection, line, stability, grade, standard grade, early maturity, productivity.

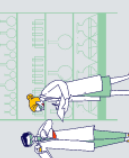
## Introduction

In recent years, the population's demand for vegetable crops has increased. At the same time, the requirements for vegetable varieties grown in our country are changing. The fruit of The Watchtower has a significant impact on its unique flavor, long-distance shipments and well preserved in the plant and suitable for processing.

The creation of varieties and hybrids resistant to quadruple nematodes in the morning is one of the new directions in the republic. Creating such varieties and hybrids first meets the demands of the people of our country for a new, vitamin-rich peanut in early spring, and secondly, the widespread pest in the republic will prevent crop yields from declining due to quadruple nematodes.

In recent years, the interest of farmers and private landowners in this crop has made it an important task for industry selectors to create varieties and hybrids with useful nutritional and high technological quality, resistant to quadruple nematodes and adverse environmental factors.

Since 1997, selection work has been carried out at the SPE and KITI Surxondaryo Scientific and Experimental Station to create varieties and hybrids that meet market demand and are resistant to quadruple nematodes.



### Research material and style

As a material of the research, some 40 varieties of samples from Russia, Moldova, Russia, India, China, the United States, Canada, Japan, Spain, France, Hungary, Zambia, Nepal, Afghanistan, Syria, Korea, and 30 first-generation hybrids of our own selection were served. Research carried out in 1997-2016 resulted in the separation of 14 varieties, 8 first-generation hybrids and more than 35 high-generation lines with valuable farm characteristics, resistant to quadruple nematodes. Created on this basis, tomorrow's G<sub>1</sub> Earth hybrid was introduced into the State Register in 2011 and the next day the Surxan Beauty Navi was included in the State Register in 2015.

Research conducted between 2021-2023 found that the world's national encyclopedisms, cylinders, and cylinders in 10 years and 9 in the bible, in the 6th year, the rubble of the achilles was also exported.

Tadqiqotlar «Методические указания по изучению и поддержанию мировой коллекции овощных пасленовых культур» (томаты, перцы, баклажаны) Л., 1977; «Руководство по апробации овощных культур и кормовых корнеплодов» (М., «Колос», 1982); «Методика полевого опыта в овощеводстве» (С.С. Литвинов Москва – 2011), kabi uslubiy ko'rsatmalar asosida olib borildi, ma'lumotlarning statistik tahlili Microsoft Excel dasturi yordamida Б.А.Доспехов dispersion uslubida amalga oshirildi.

### Results and analysis:

In our scientific research, valuable characteristics of farming such as peanut growth, fruit structure, yield indicators, and resistance to quadruple nematodes have been studied.

The period of harvesting in the scoping varieties and ridges of the pebble lasted 99-109 days, and in the standard variety, the growing period lasted 102 days, Figure 1.

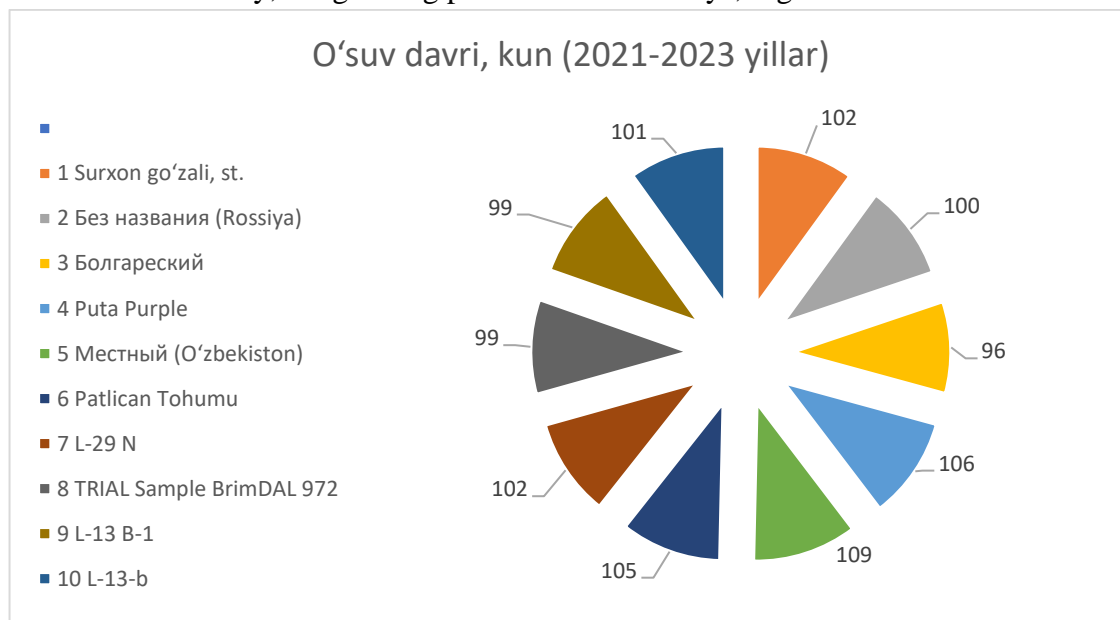


Figure 1

During the growing period, mornings were observed in all varieties of samples. During the growing period, the Bolykharic, TRIAL Sample BrimDAL 972 and L-13 B-1 varieties were chosen as very early breeds. Puta Purple and Mestny (Uzbekistan) varieties were cooked late in 4-7 days compared to the standard Surxon beauty variety.

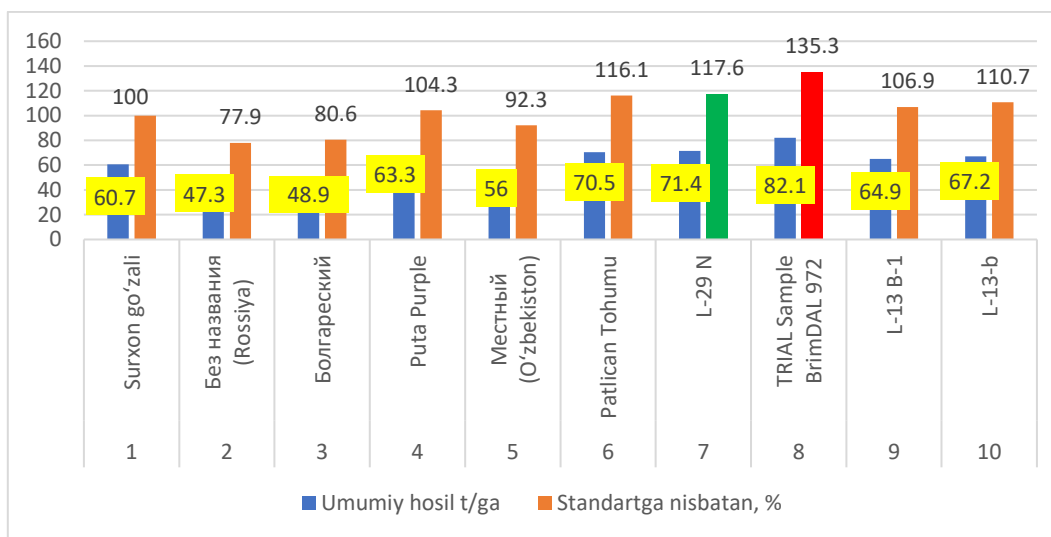
**Table 1 Farming and morphobiological description of new varieties and ridges in Baqlajon morning, 2021-2023**

№	Navs and lines	Plant			Fruit		
		Uniformity	Type	Height, cm	Form	External view	Mag'zi Ranks
1	Surxon Beauty, St.	same	semi-steep grower	64,7	cylindersimon	qora.binaf. Delete.yal.	green
2	Untitled (Rossiya)	same	serpoya	62,2	Kalta CylinderSimon	binaf.sil.yal.	green
3	Bulgarian	same	semi-steep grower	63,8	Long Noximone	binafsha	and Yashil
4	Damn purple	A Xil	semi-steep grower	71,3	oval	binafsha, silliq	and Yashil
5	Mesti (Uzbekistan)	A Xil	semi-steep grower	69,7	Oval	binafsha	and Yashil
6	Patlican Tohumu	A Xil	semi-steep grower	68,9	Cylindersimon	black purple delete yalt	and Yashil
7	L-29 N	A Xil	semi-steep grower	64,3	Cylindersimon	black purple delete yalt	and Yashil
8	TRIAL Sample BrimDAL 972	same	serpoya	76,7	rounded	qora binaf sil yal	flow
9	L-13 B-1	same	semi-steep grower	65,3	cylindersimon	black purple licking	and Yashil
10	L-13-b	A Xil	semi-steep grower	74,2	cylindersimon	black purple licking	and Yashil

Table 1 presents a morphobiological description of new lines of peanuts. As the table shows, the uniformity of plants in all varieties and ridges, plant type indicators are Bolgaretic, Puta Purple, Mestic (Uzbekistan), Patlican Tohumu, L-29 N, L-13 B-1 and L-13-b varieties have been identified as semi-steep growers and serpoya in Some Nuzvania (Russia) and TRIAL Sample BrimDAL 972 varieties. Surxon beauty by length of the plant, st., Bez Nazvania (Russia), Bulgarian, While mesticulous (Uzbekistan), Patlican Tohumu, L-29 N and L-13 B-1 varieties had an average height, the Puta Purple and L-13-b varieties were 4.2-9.5 cm longer than the standard varieties. The standard variety surxon beauty was also found to be of moderate height at the height of the plant.

The structure of the fruits was found to be smooth and fruit meat with a cylindrical purple color, such as the Patlican Seed, L-29 N, L-13 B-1 and L-13-b varieties and ridges, as well as the standard surxon beauty. In Puta Purple and Mestican (Uzbekistan) varieties, the structure of the fruit is the same, the shape of which is oval, purple, smooth, and the fruit meat is light

green. In the Bolognese variety, the fruit form was long-circular and the TRIAL Sample BrimDAL 972 varieties were rounded.



**Figure 2 Indicators of yields of Baqlajon varieties, 2021-2023**

The highest overall yield in nav samples was observed in TRIAL Sample BrimDAL 972 varieties, which was 82.1 t/ga., which is 35.3% more than the standard variety. In the standard variety, this figure was 60.7 t/, Figure 2.

In the remaining varieties, overall productivity was higher than the standard variety.

**Table 2 The next day, F1 hybrids and their parental forms are damaged by quadruple nematode, 2021-2023**

Varieties and ridges	Number of plants, grain	Percentage of affected plants, score.					Average damage, score
		0	1	2	3	4	
Surxon Beauty, St.	20	0	0	15	55	30	3,2
Untitled (Russia)	20	0	5	55	20	20	2,4
Bulgarian	20	0	15	30	50	5	2,5
Damn purple	20	0	30	50	15	5	2
Local (Uzbekiston)	20	0	0	15	45	40	3,3
Patlican Tohumu	20	0	5	80	10	5	2,1
L-29 N	20	10	20	35	30	5	2
TRIAL Sample BrimDAL 972	20	5	35	35	25	0	1,8
L-13 B-1	20	25	40	35	0	0	1,1
L-13-b	20	0	25	40	20	15	2,2

In this environment, 60% of plants were considered resistant to quadruple nematode-resistant L-13 B-1 in variety samples. In the standard Surxon beauty variety, the average type of damage

is 3.2 balls, the development of the disease is 55.0%, and the spread of the disease is 85%, which is unbearable. The more damaged variety with quadruple nematode is Mestny (Esbecist), which is damaged by an average of 3.3 points of flour, 2jadval.

### Summary

Instead, it's worth saying that in the bags being studied, During the water period, the Bolgaresk, TRIAL Sample BrimDAL 972 and L-13 B-1 varieties were selected as very early breeds, and they accounted for 3-8 days of fairy tales compared to the standard variety. In the structure of the fruits, cylindrical purple smooth and fruit meats, such as Patlican Seed, L-29 N, L-13 B-1, and L-13-b varieties and ridges, were light green. And in the TRIAL Sample BrimDAL 972 variety, the shape of the fruit was round. In terms of productivity, TRIAL Sample BrimDAL was observed in 972 varieties and it was 82.1 t/ga., up 35.3% from the standard variety. The yield rate in the L-29 N and L-13 B-1 ridges from cylindrical fruit cylinders was 2.2 10.7 t/ga liking compared to the standard variety.

Even in terms of quadruple nematode resistance, the TRIAL Sample BrimDAL 972 and L-29 N varieties were resistant to the standard at a rate of 1.2-1.4 points.

The selected TRIAL Sample BrimDAL 972, L-29 N and L-13 B-1 varieties will serve to create new varieties, increase selective ingredients and increase food production capacity and expand product assortments.

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