



MORPHOBIOLOGICAL DESCRIPTION OF TOMATO (SOLANUM LYCOPERSICUM) STRAIN VARIETIES AND HYBRIDS

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Article history:	Abstract:
Received: 28 th July 2023	In 2023, varieties Chelnok, Otradniy, MJ-31, SP 43-1/17 were distinguished due to the short life cycle of tomato plants (94-98). These varieties belong to the group of early varieties. We have cultivars of different plant lengths that provide a valuable starting point for stock selection. It should be mentioned that regardless of the planting period, the height of the plant does not change dramatically.
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LOG IN. Tomatoes (*Solanum lycopersicum*) are a year-long, perennial herbal plant in tropical climates. When the name tomatoes is used in scientific terminology, both vegetables and fruits are referred to in the world as tomatoes or "tomatoes." Tomatoes are derived from the Italian word *pomo doro*, which means golden apple. Tomatoes are a year-old vegetable crop. Under certain conditions, tomatoes can be two years old and perennial. In Uzbekistan, it is also a fertilized ethymic crop. By 2021, in the Republic, 61.38,000 hectograms of Pomidór were harvested and gross domestic product amounted to 2.21 million tons, compared with 25.0 tons/ g. The resulting rise in soaring in the history of the world.

CHARACTERISTICS OF STAMPED TOMATO VARIETIES. The intermolecular force from all these filaments is enough to support more than the gec weight—even when it is skittering upside down across a globe! It will be possible to harvest the fruits of such varieties using partial or complete mechanization. Their fruit practically does not touch the soil, and this allows them to become less sick and less damaged by pests. The seedlings of cemb varieties can be grown a little thicker. At the same time, they do not grow, and when transplanted into the field, it is best to catch them. Such seedlings will be much more resistant to the effects of wind and heavy rain. Ceasant varieties are usually strongly leafy. They are large and medium-sized, and the band is very short, the color is dark green, and the top is very strange. The fruits are of different colors and shapes are different fog. The seedlings of shtambsimon varieties quickly catch when transplanted in the field, allow you to hold the turquoise state of the plant for a long time, and ensure that the seedlings are caught even in conditions where water is low in humidity. Because of the size of the leaves, the strongness of the plant, and the thickness of its location in the plant, the foliage is resistant to adverse conditions of the environment, less damaged by sunlight and does not beat its fruits often, and they keep their commodity well. Cylinders, like determinantism, are a new life form that is formed against the background of morphobiological changes based on genetic (mutational) changes in the genome

As the object of the study, 3 belonging to the selection of the Russian Federation and 18 belonging to the selection of the Surxondary Scientific and Experimental Station of the Institute of Vegetables, Vegetable Crops and Potato Research (SPE and KITI). Since then, Surxon 142, Friendship 5, Tarmata-1, Otradny, Chelnok, Utenok, SP 22/15, SP 36/17, Scan SPN 68-1/14, Scan 348, The scan was served by 237, Tarmata 242, Sug'diyona, N 5ua Sug'diyona, MJ-L-31, TTSP 43-1/17, L-31, MJ-31, SP 32-2/16, SP 105Marjona, Marjona15

RESEARCH METHODS.

- Plot and sowing schemes in breeding, variety testing and seed production of vegetable crops. Options. OST 4671-78. In: Collection of normative documents for seeds and planting material of vegetable crops. [1]
- Dospekhov B.A. Methodology of field experience. – M.: Agropromizdat, [2]
- Medvedeva A.S. Methods of breeding standard early varieties of tomatoes in the Ukrainian SSR.// In the book: Methods of selection and name breeding of vegetable crops. [3]
- Guidelines for the study and maintenance of the world collection of vegetable solanaceous crops tomatoes, peppers, eggplants [4] uslub va uslubiy ko'rsatmari asosida olib borildi.

Experience is unspeakable. Hishob bourgeon is 4.9 m2. It's two cockroaches. Vegetation in Bo'Imhand is 20 tons. Planting shell is 70k30cm. Phenological observations were carried out every two days during the study of Nav samples, including the descent of the seeds (10%, 75%) from 18.02-28.02; flowering of plants, (10%, 75%); If it lasted from 19.04 to 08.05, their fertility (10%, 75%). 01.06-20.06-. continued to do so. The roots of the beasts of the beasts are harvested, and the plant is covered with a dense jawbone of limestone, and the roots of the beetle are covered with a dense jawbone of limestone. plant type, bristlecone (weak, quadruple, strong), plant blue: peanular (30 cm) tall (31-50 cm), four-necked (50-90 cm), blue medd tall (91-150 cm), judging necklace (150 seed infectious), medley shaft, inksi (H/D)=i, the image of the med, g, the role of the med, the poetry, and its sophistication.

Results of phenological observations on samples of stamped tomato varieties (2023.)

№	Nav samples	Float Output		Gullashi		Cooking	
		10%	75%	10%	75%	10%	75%
1	2	3	4	5	6	7	8
1	Surxon 142	19.02	22.02	22.04	26.04	05.06	08.06
2	Do'stistic	19.02	22.02	19.04	23.04	29.05	03.06
3	Taramata-1	20.02	22.02	28.04	30.04	08.06	10.06
4	Otradny	23.02	27.02	24.04	27.04	01.06	04.06
5	Chelnok	22.02	26.02	20.04	24.04	25.05	30.05
6	Utenok	18.02	21.02	23.04	27.04	11.06	15.06
7	SP-22/15	23.02	26.02	25.04	28.04	05.06	08.06
8	SP-36/17	21.02	24.02	26.04	29.04	08.06	12.06
9	Taramata SPN 68-1/14	23.02	26.02	28.04	01.05	14.06	17.06
10	Scan 348	17.02	21.02	22.04	26.04	09.06	14.06
11	Scan 237	22.02	25.02	29.04	02.05	16.06	20.06
12	Scan 242	21.02	25.02	28.04	01.05	09.06	15.06
13	Sug'diyona	23.02	26.02	29.04	02.05	06.06	12.06
14	Sug'diyona N5	20.02	23.02	26.04	29.04	04.06	09.06
15	MJ-31	22.02	26.02	24.04	29.04	31.05	05.06
16	SP 43-1/17	25.02	27.02	27.04	30.04	01.06	04.06
17	L-31	19.02	22.02	26.04	30.04	08.06	11.06
18	N5 MJ-31	19.02	22.02	23.04	26.04	02.06	06.06
19	SP 32-2/16	26.02	28.02	04.05	08.05	12.06	19.06
20	SP105 Marjona	24.02	28.02	02.05	06.05	11.06	15.06
21	Marjona	24.02	28.02	03.05	07.05	12.06	16.06

The description of the studied template samples in the main development phases is listed above in Table 1. Information about individual development phases and the duration of the entire vegetation period is very important in the selection of early varieties and hybrids. This, in turn, allows you to absorb very early forms by singing varieties that are short in these periods.

Since then, in 2023, varieties Chelnok, Otradny, MJ-31, SP 43-1/17 have been distinguished by the shortness of the period of action of tomato plants (94-98). These varieties belong to the next group of varieties.

(a) The length of the operation period in semiconductor and determinant Surxon 142, Friendship, Utenok, Coral, Tarata, Sug'diyona, L-31 varieties lasted 101-113 days, which are part of a group of medium and late varieties.

In the initial material, my description of the plant-tall signs, such as fruit weight, shape, color plant gabistus, leafing, is of great importance

Farm and morphobiological description of tomato varieties and lines, 2023 year.

T/R	Navs and lines	Validity period day	Plant		Fruit	
			type	height	form	color
1	Surxon 142	106	shtamb	98	flat-baby	nine
2	Do'stistic	102	shtamb	52	Yumaloq	nine
3	Taramata-1	107	shtamb	95	Yumaloq	nine
4	Otradny	97	shtamb	41	Yumaloq	nine
5	Chelnok	94	shtamb	36	longicho	nine
6	Utenok	113	shtamb	95	Yumaloq	nine
7	SP-22/15	106	shtamb	50	Yumaloq	nine
8	SP-36/17	108	shtamb	48	Yumaloq	nine
9	Taramata SPN 68-1/14	110	shtamb	95	Yumaloq	nine
10	Scan 348	111	shtamb	92	Yumaloq	nine
11	Scan 237	112	shtamb	80	Yumaloq	nine
12	Scan 242	108	shtamb	81	Yumaloq	nine
13	Sug'diyona	105	shtamb	43	Yumaloq	nine
14	Sug'diyona N5	106	shtamb	43	Yumaloq	nine
15	MJ-31	98	shtamb	35	Yumaloq	nine
16	SP 43-1/17	98	shtamb	38	Yumaloq	nine
17	L-31	107	shtamb	33	Yumaloq	nine
18	N5 MJ-31	101	shtamb	34	Yumaloq	nine
19	SP 32-2/16	112	shtamb	37	Yumaloq	nine
20	SP105 Marjona	110	shtamb	42	Yumaloq	nine
21	Coral	111	shtamb	40	rounded	nine

(b) The resulting embryos are then implanted in the womb of a surgeon, a surgeon, and a surgeon. Bulgaria Friendship , Otradniy, Chelnyk, SP-22/15, SP-36/17 , Sug'diyona, Sug'diyona N5, MJ-31, SP 43-1/17, L-31, N5 MJ-31, SP 32-2/16, SP105 Marjona, Coral Cup plant height 36 cm to 52 cm;

(c) The resulting embryo was allowed to germinate when it was then implanted. This group consists of Surkhón 142, Turtata, Tarata SPN 68-1/14, Taramata 348, Taramata 237, Utenox Taramata 242 kbi plant height 80-98 cm.

Thus, the length of the plant's neck is varied, and the great shtammedsimon is poor in the selection and it's a bshing'ich mnb. The resulting embryo was allowed to establish in nutrients and then inserted into her womb, where it implanted.

Farm and morphobiological description of varieties and lines of tomatoes, fruits 2023 year.

T/R	Navs and lines	Fruit			
		weight	height	width	index
1	Surxon 142	124.5	4.6	6	0,8
2	Do'stistic	100,5	5,1	5,6	0,9
3	Taramata-1	147	6,3	6,2	1,0
4	Otradny	66,5	4,2	4,6	0,9
5	Chelnok	63	6,0	3,6	1,6

6	Utenok	85	4,6	5,2	0,8
7	SP-22/15	171,5	6,3	6,7	0,9
8	SP-36/17	157,5	6,2	6,5	0,9
9	Taramata SPN 68-1/14	147,5	6,5	6,3	1,0
10	Scan 348	128,3	6,1	6,0	1,0
11	Scan 237	156,5	6,3	5,8	1,1
12	Scan 242	131,5	5,8	6,1	0,9
13	Sug'diyona	150,5	6,1	6,3	0,9
14	Sug'diyona N5	136	5,6	6,4	0,8
15	MJ-31	98	5,1	5,2	0,9
16	SP 43-1/17	91,5	4,9	5,1	0,9
17	L-31	82	4,7	4,5	1,0
18	N5 MJ-31	143	5,5	6,3	0,8
19	SP 32-2/16	79,5	4,7	5,2	0,9
20	SP105 Marjona	87,5	5,4	5,1	1,0
21	Marjona	72	5,1	4,5	1,1

The four-dimensional vzni viewer was divided into the following groups:

(a) Mevali (60grmman 90 grmmgacha): Marjona, CHelnok, Otredniy, SP 32-2/16, Utenok, SP105 Marjona. In this case, the meva vase was 63-90 g;

(b) Four mevali (90 grmmdn 110 grmmgaa):, Friendship MJ-31, SP 43-1/17. In the meanwhile, the meva vase was 90-110 grams;

v) Yirik mevali (100 grammdan ko'p): Surxon 142, Taramata-1, SP-22/15, SP-36/17, Taramata SPN 68-1/14, Taramata 348, Tarama 237, Taramata 242, Sug'diyona, Sug'diyona N5

SUMMARY

It's important to go through this, Chelnok, Turtle, Sug'diyon can serve as a member of the Governing Body of Jehovah's Witnesses, a member of the Governing Body of Jehovah's Witnesses, and a member of the Governing Body of Jehovah's Witnesses.

Chelnok's nephew's mechanic was a long-term disciple, with an index of 1.6 in the region. The crocodile's jaw was covered with a dense jawbone of limestone, and the crocodile's jaw was covered with furrows. The Meva index was 0.8-1.1.

Some of The Watch Tower Bible and A·bim'e·go were planted in a red rhythm.

AVAILABLE LITERATURE

1. Plot and sowing schemes in breeding, variety testing and seed production of vegetable crops. Options. OST 4671-78. In: Collection of normative documents for seeds and planting material of vegetable crops. Moscow., 1997. – S. 35-43.
2. Dospikhov, B.A. Methodology of field experience. – M.: Agropromizdat, 1985. - 350 p.
3. Medvedeva A.S. Methods of breeding standard early varieties of tomatoes in the Ukrainian SSR.// In the book: Methods of selection and name breeding of vegetable crops. - L. - "Ear". - 1964. -151-152.
4. Guidelines for the study and maintenance of the world collection of vegetable nightshade crops tomatoes, peppers, eggplants. – L. – VIR. - 1977. - 23 p.
5. Nadjiev. J. N "Transpotrbop of tomatoes and peanuts, varieties resistant to thigh nematodes, and_{selection of 1} hybrids." Autorefarati of the dissertation of a doctor of agricultural sciences. Tashkent 2018. 60-62 pages
6. Torakulov J.Sh "Create an initial source for the selection of tomato varieties and hybrids of the type of tomatoes and cherry." Autorefarati of the dissertation of a doctor of philosophy. Tashkent 2023 . 52-60 pages