

Phenological And Productivity Indicators Of Foreign Winter Common Wheat Varieties In Local Raw

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Abstract: The results of phenological and productivity indicators of local and foreign varieties were studied in the nursery of the first year of propagation.

Key words: variety, date, kg, ts\ha

As a result of the use of advanced agricultural technologies in the world, the creation of intensive varieties, as well as the improvement of the balance of plant nutrition, wheat production has increased two and a half times. At the same time, the use of mineral fertilizers in world agriculture has increased by 4.3 times to meet the growing demand for food products.

The decisions taken in our republic on the fundamental reform of the agrarian sector imply the implementation of deep reforms in the sector in our country. In particular, the Law of the Republic of Uzbekistan "On Seed Production" adopted on February 16, 2019, the President of the Republic of Uzbekistan dated August 24, 2021 No. PF-5853 "On approval of the strategy for the development of agriculture of the Republic of Uzbekistan for 2020-2030" gi Decree"[1] and the decree of the Republic of Uzbekistan, which today assigns certain important tasks to research institutes in the field of agriculture in the implementation of the tasks specified in other regulatory legal documents, and this dissertation is based on the implementation of the tasks specified in other regulatory legal documents related to this activity research serves to a certain extent. R. Siddikovni, A. Khayitboev, N. Umirov, N. Yusupov (2011) research results, biological characteristics of varieties, the area occupied in production, planting rate, productivity, as well as organizational and technical conditions, etc.

When harvesting in the seed fields, first of all, early ripening varieties are harvested, and mid-ripening and late-ripening varieties are sorted according to the seed generation and variety series, depending on the period of full ripening.

Currently, one of the main tasks of breeding is to create early-early varieties of wheat that are resistant to adverse environmental conditions.

Seed production is an important system of activities in our country in continuously increasing the productivity of agricultural crops and dramatically increasing the volume of products (T.E. Ostonokulov 2002).

In determining heat resistance and productivity, the period of spike plays the main role.

I.U. Egamov, N. Yusupov, M. According to Otaboeva's (2014) experimental results, in the initial seeding of the varieties grown in our country, it was possible to select the families of the first year of 32 different varieties in the trial nursery, as well as to select the families with high and productive generations as a result of the selection of the families that are not typical of the variety, dormant, affected by diseases and pests.

The expansion of the cultivated area of any varieties depends on the well-established seed production system. The main task of seed production is the genetic, morphological and economic characteristics of the varieties and is to reproduce the seed while keeping its properties (Sh. Dilmurodov, O. Amanov and others 2019).

Field experiments were conducted in the conditions of meadow soils of the experimental field of the Scientific Research Institute of Cereals and Legumes, Andijan District, Andijan Region.

Results of the first year breeding nursery

When the phenology of the growth and development of varieties was studied in the first-year breeding nursery planted in 2022-2023, the breeding nurseries were planted in the second ten days of October at optimal times. The phenology of growth and development of winter soft wheat by varieties is presented in the table below (Table 1).

Phenological observations of the varieties planted in the nursery of the first year during the plant growth period (2022-2023)

Table 1

No	Varieties name	Planting period, date	Full germination, date	Spike, date	Full maturity, date
1	Khamkor	16.10.22 y.	24.10.22 y.	18.04.23	03.06.23
2	Navbaxor	10.10.22 y.	17.10.22 y.	23.04.23	08.06.23
3	Rizq	16.10.22 y.	24.10.22 y.	24.04.23	07.06.23
4	Davr	06.10.22 y.	13.10.22 y.	18.04.23	03.06.23
5	Flesh	03.10.22 y.	13.11.22 y.	16.04.23	01.06.23
6	Shkola	10.10.22 y.	17.10.22 y.	20.04.23	06.06.23
7	Step	10.10.22 y.	17.10.22 y.	22.04.23	03.06.23
8	Elanchik	10.10.22 y.	13.10.22 y.	18.04.23	03.06.23

Phenological observations were made during the growth period of the varieties planted in the first-year nurseries, according to which the earliest full ripening period was June 1 in the Flesh variety, June 3 in the Khamkor, Shkola, Step, Elanchik varieties, and the other observed varieties entered the full ripening phase on June 7-8. observed.

Of winter soft wheat planted in the 1st year propagation nursery. The productivity of 8 domestic and foreign varieties was observed as follows.

Yield of winter wheat varieties planted in the first-year propagation nursery (2022-2023)

Table 2

No	Varieties name	Planted area, ha	Gross yield, kg	Yield, ts/ha
1	Khamkor	0.3	22,26	74.2
2	Navbaxor	1.0	7900	79.0
3	Rizq	0.3	24,36	81.2
4	Davr	1.0	8300	83.0
5	Flesh	1.0	730	70.3
6	Shkola	0.3	22,26	74.2
7	Step	0.3	21,69	72.3
8	Elanchik	1.0	8300	83.0
	Total	4.3	25320,57	87.3

According to the information in the table, the first year of reproduction in the nursery 8 local and foreign varieties of winter wheat were planted on an area of 4.3 hectares, the average yield was 75-80 tons/ha, and 25,320.57 kg of seeds were harvested from the total planted area.

REFERENCES

- Nurmatov.Sh, Amanov.A, Siddikov.R, Egamov.I, Ziyadullaev.Z "Description of recommended and promising winter wheat varieties for planting in the Republic of Uzbekistan and recommendations on agrotechnics of cultivation". Andijan-2011, 86 pages
- Siddikov, R. A. Khayitboev, N. Umirov, N. Yusupov. Collection of articles of the international scientific-practical conference "Selection, seed production and development of agrotechnics of grain and oilseed crops". Andijan-2011. pp. 18-19.
- Egamov.I, Yusupov.N, Otaboeva.M "Primary seeding of new promising autumn soft and hard wheat varieties" AGRO ILM magazine #4. 2014 pp. 23-24.