

THE INFLUENCE OF SOWING METHODS ON OVER-WINTERING AND YIELD OF WINTER SOFT WHEAT

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The article discusses the issues of overwintering and survival of plants of winter soft wheat varieties Moskvich and Yuzhanka, depending on the methods of sowing in the foothill zone of the KBR and their effect on yield. In the course of research, on average for three years (2012-2014), it was found that sowing methods form the area of plant nutrition, contribute to overwintering and crop survival, respectively, affect the formation of yield. The best results for the indicated characteristics were obtained with cross and narrow-row sowing methods in comparison with the control (ordinary sowing method, 15 cm). With these sowing methods, the maximum overwintering by varieties was 94.8-96.0% and 95.8-97.3%, respectively, and the yield was 49.3-52.1 and 51.4-54.5 c / ha.

Keywords: winter soft wheat, sowing methods, overwintering, survival, productivity.

REFERENCES

1. Kotlyarov D.V., Kotlyarov V.V., Fedulov Yu.P. *Vliyanie ekzogennih aminokislot na morozostoykost i zasuhoustochivost zernovyh kolosovyh kultur.* [Influence of exogenous amino acids on frost resistance and drought resistance of cereals] // *Megdunarodnyi nauchno-issledovatel'skiy journal/ International Research Journal.* 2017. N.4 (58). Pp. 137-142.
2. Garus P.P., Zabazny P.A., Kovtun I.P. *Perezimovka i produktivnost ozimyh hlebov* [Overwintering and productivity of winter breads]. M.: Kolos, 1970, Pp. 115-117.
3. Ponomarev V.I. *Povishenie zimostoykosti ozimoy pshenici.* [Increasing winter hardiness of winter wheat]. M., 1975. Pp. 80-100.
4. Alabushev A.V., Yankovsky N.G., Logvinov A.Ya., Ovsyannikova G.V., Kravchenko M.E., Sukharev A.A. *Sposoby poseva i urogaynost ozimoy pshenici na yuge Rostovskoy oblasti.* [Sowing methods and yield of winter wheat in the south of the Rostov region] // *Zemledelye. /Land Cultivation/* 2010. № 1. Pp. 29-31.
5. Sobennikov E.V. *Vliyanie ploshadi pitanyia na perezimovku ozymoy pszenici v Udmurtyi v kn.: «Normy vysewa, sposoby poseva i ploshadi pitanyia selskohozyaistvennyh kultur».* [Influence of feeding area on wintering of winter wheat in Udmurtia: in the book: “Sowing norms, sowing methods and feeding area of agricultural crops]. M.: Kolos, 1971, Pp. 66-70.
6. Gubanov Ya.V., Poteha N.G. *Agrotehnika ozimoy pszenici.* [Agricultural machinery of winter wheat]. M.: Kolos, 1967. Pp. 11-321.
7. Podgornyi P.I., Sherbak S.N. *Rastenievodstvo s osnovami selekzii i semenovodstwa* [Plant growing with the basics of selection and seed production]. M.: Kolos, 1983. 511 p.
8. Lukyanyuk V.I., Grishenko V.V., Bacanov N.S. *Dostigenya nauki i praktiki v rastenievodstve* [Achievements of science and practice in crop production]. M.: Kolos, 1973. 140 p.
9. Dospehov B.A. *Metodika polevogo opyta* [Metodology of field experience]. M.: Agropromizdat, 1985. 351 p.
10. *Metodika gosudarstvennogo ispytaniyai selskohozyaistvennyh kultur* [Methodology of the State variety testing of crops]. M., 1989. 194 p.

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