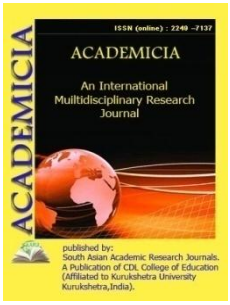
ACADEMICIA

ISSN: 2249-7137 Vol. 11, Issue 10, October 2021 Impact Factor: SJIF 2021 = 7.492

ACADEMICIA
An International Multidisciplinary Research Journal
(Double Blind Refereed & Peer Reviewed Journal)



DOI: 10.5958/2249-7137.2021.02275.8

EVALUATION ON DEVELOPING OF NEW VARIETIES AND LINES OF BREAD WHEAT TOLERANT TO DROUGHT AND HEAT ON THE RAINFED AREAS OF UZBEKISTAN

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ABSTRACT

The high correlations are studied between the productive elements of the spike and the yield on the researches. It was studied that in different years, under the influence of weather conditions, the productivity of bread wheat varieties and lines. It was found that dry weather conditions, low rainfall and lack of soil moisture lead to a decrease in wheat yields on dry lands. Due to low rainfall in autumn and winter, lack of soil moisture, seeds germinate in spring time and prolongs the growing season was heat and drought conditions.

KEYWORDS: Bread Wheat, Rainfed Lands, Rainfall, Vegetation Period, Heading, Spike, Spikelets, Drought, Heat, Heat And Drought Tolerant, Unfavorable Factor, Valuable Traits, Yield, Variety, Samples.

REFERENCES

1. SHARMA A. et al. Correlation and heat susceptibility indexanalysis for terminal heat tolerance inbread wheat. Journal of Central European Agriculture, 2013, 14 (2), p.57-66.
2. Singh, N. B., Singh, Y. P., Singh, V. K., Javed, Bahar, Singh, V. P. N., Early growth vigour, phenology, seed size, seed hardness as a parameter for assessing terminal heat tolerance in wheat under late sown irrigated condition. Farm Sci. J. (2005) 14 (2): 25-28.
3. Trethowan R.M., M.Reynolds. Drought resistance: Genetic approaches for improving productivity under stress. In: H.T.Buck, J.E.Nisi, N.Salomon (eds.). Wheat Production in Stressed Environments. Proseedings of the 7th International Wheat Conference, 27 Nov.-2 Dec. 2005, Mar del Plata, Argentina. p. 289-300.

4. Maich R., D.Ortega, A.Misgrau and G.Manera. Genetic achievements under rainfed conditions. In: H.T.Buck, J.E.Nisi, N.Salomon (eds.). Wheat Production in Stressed Environments. Proseedings of the 7th International Wheat Conference, 27 Novomber-2 December 2005, Mar del Plata, Argentina. p. 321-330.

5. Todd G.W., Webster D.L. Effects of repeated drought periods on photosynthesis and survival of cereal seedlings. Agron. J. (Medison) 57, 1999, r. 399-404.

6. Dorofeev V.F., Udachin R.A., Semenova L.V. idr .; Pshenitsymira. Pod red. V.F.Dorofeeva; Sost.R.A.Udachin. 2nd ed., Pererab. and dop. -L .:, VO Agropromizdat. Leningr. otd-nie. 1987. –560 p.

7. Sinha S.K. Drought Resistance in Crop plants: A critical physiological and biochemical assessment. Drought tolerance in winter cereals. Proceeding of International Workshop 27-31 October. 1985. Capri. Italy. p.349-351.

8. Beknazarov N., Katkova R.O. Creation and dostoinstvosortovpshenitsydlyabogary / Selektsiyaisemenovodstvozernovyx, zernobobovyxikormovyxkultur. - Tashkent, 1983.-S. 46-49.

9. Amanov M.A. Sustainability of wheat to unprofitable factors in Uzbekistan. - Tashkent: Fan, 1978. –91 p.

10. Brezhnev D.D, Dorofeev V.F. Rastitelnыeresursykakgeneticheskayabazaselektsiisortovnaustoychivost. V kn.: Geneticheskieresursyiselektsiyarasteniynaustoychivost k boleznyam, vreditelyamiabioticheskimfaktoramsredy.-Materialy IX kongressaEukarpia. Under obshcheyredaktseyak. VASXNIL D. D. Brejneva and chl. corr. VASXNIL V.F. Dorofeeva VNIIR im.N.I. Vavilova, -Leningrad, 1981. - P.5-24.

11. Lavronov G.A. Wheat of Uzbekistan. Tashkent, Uzbekistan Publishing House, 1972. - 350 p

12. Nasotovskiy A.I. Pshenitsa. (Biology). M .: Kolos. 1965. –568 p.

13. Xolbazarovich K. K., Sarvarogli M. J., Nikolaevna P. M. Drought and heat tolerance of durum wheat varieties for rainfed conditions of Uzbekistan //ACADEMICIA: An International Multidisciplinary Research Journal. – 2020. – Т. 10. – №. 5. – С. 599-603.

14. Pokrovskaya M. N., arshiboev X. Kh., Khaibullaev S. Drought-heat resistance of durum and soft wheat varieties in dry conditions // Modern science: topical issues, achievements and innovations. - 2020 .-- S. 116-119.

15. Zhuraev MA Drought-resistant and heat-resistant varieties of soft wheat in rainfed conditions of Uzbekistan // Fundamental and applied scientific research: topical issues, achievements and innovations. - 2019 .-- S. 75-77.

16. Karshiboev Kh. Kh., Khojakulov T. Kh. Resistance of F2 hybrids of durum wheat to drought and heat on the dry land of Uzbekistan // Knowledge. - 2017. - No. 5-2. - S. 69-72.

17. Dilmurodovich D. S. et al. Selection of high grain yield elements of winter bread wheat lines for rainfed areas //Archive of Conferences. – 2021. – С. 55-62.