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SPRING BREAD WHEAT

DESCRIPTION OF THE NEWEST ACCESSIONS IN THE VIR COLLECTION, SCREENED FOR THEIR RESISTANCE TO WHEAT LEAF RUST, DARK-BROWN LEAF SPOT BLOTCH, SEPTORIA BLOTCH, POWDERY MILDEW AND LOOSE SMUT

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This catalogue presents the results of a study of the resistance in 580 spring bread wheat accessions from the VIR collection to widespread fungal diseases: powdery mildew, leaf rust, dark-brown leaf spot blotch, septoria blotch, and loose smut. The resistance of wheat cultivars to all diseases except loose smut was studied in laboratory experiments in 2019–2022. As a result, sources of the disease resistance were identified: 28 to powdery mildew, 39 to leaf rust, 2 to spot blotch, 2 to septoria, 75 to loose smut and 11 with group resistance. The identified sources are recommended for use in wheat breeding programs for immunity.

The catalogue is intended for specialists in the field of plant immunity and selection, teachers and students of higher educational institutions with biological and agricultural profiles.

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