

Increase in grain protein and gluten contents of bread wheat by the introgression of a *T. timopheevii* segment into chromosome 2A

EUPHYTICA

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Agronomic growing conditions and experimental managements in five geographical locations of investigation

Location	Sowing date and scheme	Harvesting date and method	Soils	Chemical composition
Novosibirsk, Common Use Center « Breeding and genetic laboratory»	16-20 мая. Manual sowing. Plots with rows 1 m in length, 50 seeds in each row, 20 cm between the rows.	25 August-5 September, manually into sheaves with final ripening in storage	Grey forest loamy	Humus - 2%, total N – 1,0 mg/kg; highly mobile P – 3,3 mg P ₂ O ₅ /kg; mobile K – 40,5 mg K ₂ O/kg
Omsk, experimental field of the Omsk State agricultural university	21-22 мая. Sowing with a seeder. Seeding rate 500 grains/m ² . The plot area 2m ² .	5-19 September. Harvesting was carried out with a combine in the phase of full grain ripeness.	Ordinary and leached chernozems, meadow chernozems	Humus 5,2 %, total N 0,31-0,34 %, total P - 0,16-0,17, total K - 2,3-2,8%
Ussuriysk, experimental field of the Far East Federal Research Center of Agrobiotechnologies	10-21 April. Manual sowing. The plot area 1 m ² .	The first decade of August. Manual harvest.	Meadow brown, bleached	Humus – 2,6-3,0%, readily available N – 69,8 mg/kg, mobile P – 21,0 мг/кг, mobile K – 54,0 mg/kg
Gatersleben, experimental field of IPK	17-19 March. The plot 1.5 m × 2.5 m, a combine sowing density of 60 g of grains per plot.	6 August. Grains were harvested by hand.	Black soil of clayey loamy type	----
Barnaul, experimental field of the Altai Federal Research Center of Agrobiotechnologies	6 May. Sowing with a manual seeder, 400 grains/m ² . The plot 0,2 м × 0,9 м with 5 rows.	6 August. Manual harvest.	Chernozem leached medium-thick, low-humus, medium loamy	Humus - 3,80 %, total N – 0,23 %, available P and K - 200 и 180 mg/kg, respectively