

ROBLIN HARD RED SPRING WHEAT

Roblin is a high-protein, Marquis-type quality, early-maturing and rust-resistant cultivar for the eastern prairies of Canada.

Key words: Cultivar description, wheat (spring)

[Blé roux vitreux de printemps Roblin.]

Titre abrégé: Blé roux vitreux de printemps Roblin.

Roblin est un cultivar de haute qualité du type Marquis, riche en protéines, précoce et résistant à la rouille, adapté aux conditions des prairies de l'est du Canada.

Mots clés: Description de cultivar, blé (printemps)

Triticum aestivum L. 'Roblin' was developed at the Agriculture Canada Research Station in Winnipeg. It was accessioned as RL4483 in 1982, tested as BW92 from 1983 to 1985, and licensed (No. 2669) on 13 May 1986. It is named after a town in Manitoba.

Pedigree and Breeding Methods

Roblin was developed by the pedigree method from the cross RL4302/RL4356//RL4359/RL4353 made in 1976. The pedigrees of the parents involved are shown in Table 1.

An F₇ line was bulked in our New Zealand nursery in 1980. This was increased at Winnipeg and entered the Central Bread Wheat Test series in 1981. Numerous Agriculture Canada Research Stations, the Universities of Manitoba, Saskatchewan and Alberta, and the Saskatchewan Wheat Pool were involved in the yield testing. Disease tests were conducted by Agriculture Canada pathologists at Winnipeg, Saskatoon and Lethbridge. Quality testing was done at the Research Station, Winnipeg, the University of Manitoba, and the Grain Research Laboratory of the Canadian Grain Commission.

Performance and Description

Co-operative Test data are presented in Tables 2 and 3. Roblin appears to be best adapted to Manitoba, where its yield has been

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Table 1. Pedigrees of the parents of Roblin

RL4302	BW15	Manitou/Tobari 66
RL4356	BW38	CT615/Neepawa
RL4359	BW40	CT615/Neepawa
RL4353		CT934/Neepawa/ Era/Park
UM953A	CT615	Sonora64/Tezanos Pintos Precoz
WS1809	CT934	from World Seeds Inc.

equal to Neepawa and slightly more than the other check cultivars. In Manitoba it has been earlier maturing, more resistant to lodging and shorter than any of the checks. It is resistant to shattering.

SPIKE. Elliptical, mid-dense, short, erect, apically awnletted; glumes mid-wide, mid-long, glabrous, white; glume shoulder rounded, mid-wide; glume beak narrow, acute.

KERNEL. Hard, medium red, ovate, mid-size, mid-wide, mid-long; cheeks angular to rounded; brush mid-sized, hairs long; crease mid-wide to wide, mid-deep to deep; germ mid-size, round to ovate.

DISEASE RESISTANCE. Roblin has good resistance to stem rust *Puccinia graminis* f. sp. *tritici*, leaf rust *P. recondita*, common root rot *Cochliobolus sativus*, and loose smut *Ustilago tritici*, but is susceptible to common

Table 2. Data from Central Bread Wheat Co-operative Tests (1983-1985)

Traits	No. of tests	Roblin	Neepawa	Benito	Columbus
Manitoba yield (t ha ⁻¹)	15	3.62	3.62	3.61	3.52
Saskatchewan yield (t ha ⁻¹)	15	3.00	3.08	2.98	3.08
Maturity (d)	25	97.4	98.6	98.4	102.2
Lodging (1-9)†	17	1.7	2.4	3.1	2.0
Height (cm)	26	88	93	92	99
Test mass (kg hL ⁻¹)	30	78.7	79.1	78.6	79.6
Seed mass (mg)	30	34.1	31.4	29.6	33.4

†1 = no lodging, 9 = completely lodged.

Table 3. Data from Western Bread Wheat Co-operative Tests (1984-1985)

Traits	No. of tests	Roblin	Neepawa	Leader
Yield (t ha ⁻¹)	16	2.18	2.24	2.24
Maturity (d)	11	95	96	97
Lodging (1-9)†	7	1.0	1.2	1.0
Height (cm)	15	65	70	68
Test mass (kg hL ⁻¹)	19	78.0	78.4	79.3
Seed mass (mg)	19	30.7	27.5	27.8

†1 = no lodging, 9 = completely lodged.

bunt *Tilletia caries* and *T. foetida*.

QUALITY. Roblin is equal to Marquis in quality and has averaged 0.8 percentage point higher than Neepawa in wheat protein level over the five Co-operative Test composites that have been tested. It is eligible for the top grade of Canada Western Red Spring Wheat.

Maintenance of Pedigreed Seed Stocks
Breeder Seed will be maintained by Agricul-

ture Canada Experimental Farm, Indian Head, Saskatchewan. SeCan Association 512-885 Meadowlands Drive, Ottawa, Ontario, Canada K2C 3N2 has the exclusive right of increasing and distributing the seed.

A. B. CAMPBELL and E. CZARNECKI
Research Station, Agriculture Canada,
195 Dafoe Road, Winnipeg, Manitoba,
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