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**'Millewa'**

*Accepted for registration 9 February 1979.*

Millewa (DX6-79) (*Triticum aestivum* L.) is a spring wheat with the pedigree: Senora 64/Yaqui50E/Gaboto/Mexico 8156. The cross was made at CIMMYT, Mexico, and was introduced as an unselected, early generation bulk in 1966. Selection was carried out at the State Research Farm, Werribee, Vic., after which extensive yield and quality tests were conducted at centres throughout Victoria.

The variety is a semidwarf, being 5 cm shorter than Halberd. The head is brown, bearded and square, and the grain is white and hard. Millewa is equal to Halberd in maturity. It is less prone to lodging and shedding than Halberd.

Millewa is being released as a replacement for Halberd, and will be recommended for sowing in the Western Mallee and Northern Wimmera, which together produce about 40% of Victoria's wheat.

In 44 comparisons during 1975-1977, Millewa outyielded Halberd by 6% in the Eastern Mallee, 5% in the Western Mallee, and 17% in the Northern Wimmera. The quality of Millewa is similar to Halberd but it has superior baking characteristics owing to its greater dough strength. This superiority is particularly evident at low protein contents (9%-11%). It is an important advantage in Victoria, where much of the wheat produced is of low protein content, and the substitution of Millewa for Halberd should result in an overall improvement of baking quality. The milling yield of Millewa is slightly lower than Halberd.

Millewa has satisfactory resistance to existing field strains of stem and leaf rust. Tests conducted at the University of Sydney showed that none of the stem or leaf rust strains used, including current and potentially dangerous strains, were virulent in the seedling stage. Millewa contains *Sr8*, *Sr9b*, and other genes, as yet unidentified, for stem-rust resistance. It is resistant to flag smut.

**Breeders**

This crossbred was cooperatively developed by the breeder (B. R. Whan), agronomists (G. T. Stratford and D. N. Walsgott) and a cereal chemist (K. C. Mander) of the Victorian Department of Agriculture.

**'Jacup'**

*Accepted for registration 14 February 1979.*

The pedigree of the newly registered spring wheat 'Jacup' (69WO2-38) is Bencubbin/3/Charter//Sword/Kenya C6041/4/Mexico/5/Gamenya. The final cross was made in 1969. The early generations were grown by the single seed descent method in glasshouses at South Perth then planted at Wongan Hills in 1971. Yield and quality tests commenced in 1973.

On average Jacup is 6 cm shorter than Gamenya in plant height and five days later in flowering. Head type is white, tapering, bearded and with smooth glumes. The grain is white and soft. Resistant to flag-smut and to the common rust strains in Western Australia. Tested in 50 trials from 1974 to 1977. Best yields have been recorded in the rust liable southern zone, where it has significantly outyielded Gamenya (by 14%). It is either equal to or superior to the rust resistant varieties Egret and Warimba in the medium and low rainfall parts of this zone.

Jacup appears to have excellent quality characteristics for the ASW grade. The grain is similar in hardness to Gamenya; but has superior hectolitre weight and better milling quality. It is similar to Gamenya in flour water absorption, dough strength, extensibility and baking quality.

The variety is recommended for release to replace Egret and Warimba in the southern zone. It has equal or better yield, better quality for the ASW grade and possibly an alternative source of rust resistance.

**Breeder**

J. Reeves, Department of Agriculture, South Perth, W.A.

**'Miling'**

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The newly registered spring wheat 'Miling' (pronounced Mile-ing) is a sister line to the newly registered wheat 'Jacup'. Miling was formerly known as 69WO2-37.