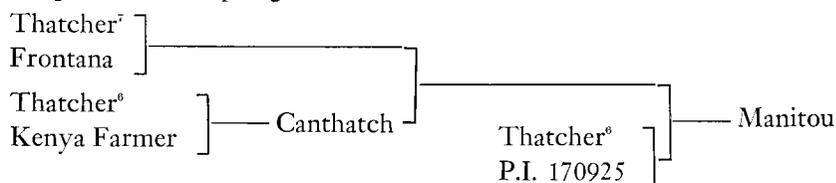


NOTE ON MANITOU HARD RED SPRING WHEAT¹

Manitou (*Triticum aestivum* L.) was developed by the Rust Area Project Group centered at the Canada Department of Agriculture Research Station in Winnipeg. Its main attribute is a higher degree of resistance to leaf rust than is available in older varieties. Combined with this are a high degree of stem rust resistance and excellent milling and baking qualities. It should be a popular variety in those areas in which rust is a hazard.

Manitou was produced by the backcross method with Thatcher as the recurrent parent. The pedigree is:



The donor parents contributed as follows: Frontana, a gene for adult plant leaf rust resistance; Kenya Farmer, the gene *Sr7* for stem rust resistance; and P.I. 170925 (a Red Egyptian type), the gene *Sr6*. The first crosses were made in 1951 and the final one in 1959.

Manitou was tested in the Western Wheat Co-operative Test at 21 locations in the Prairie Provinces during the years 1962 to 1965 (56 station-years of data). It proved to be very similar to Thatcher, apart from its rust resistance and quality, which are superior. It was licensed in February, 1965 and some 4,600 bushels of seed distributed to selected Seed Growers in Manitoba and east of the third meridian in Saskatchewan.

DESCRIPTION

Spike.—Fusiform, mid-dense, smaller than most varieties; apical awnlets; glumes mid-long, mid-wide, glabrous, white; beaks short, mid-wide, obtuse to acute; shoulders mid-wide, predominantly square, but slightly rounded at base of the spike and slightly elevated at the tip.

Kernel.—Small to mid-size, ovate, short to mid-long, mid-wide, hard, light to medium red; crease mid-wide to wide, mid-deep; cheeks angular to rounded; brush small to mid-size, mid-long; germ mid-size, oval.

Straw.—Strong, medium-length.

Disease Reaction.—Resistant to many races of stem rust and leaf rust; resistant to loose smut, head discoloration and common root rot; susceptible to bunt.

Maturity.—Mid-season.

Shattering.—Resistant.

Lodging.—Resistant.

Quality.—Superior to Marquis.

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