SELECTION AND EXPERIMENTS ON TRIAZINE RESISTANT RAPESEED LINES

RENARD M.(1), BREGEON M.(1), REGNAULT Y.(2)
(1) INRA - Station d'Amélioration des Plantes - BP 29 - 35650 LE RHEU FRANCE.
(2) CETIOM - 174, avenue Victor Hugo - 75116 PARIS - FRANCE.

Pure lines of rapeseed (Brassica napus) resistant to triazines were selected using a canadian turnip rape variety as source of resistance (Maltais & Bouchard 1978). Triazine resistance under chloroplastic control was transferred to rapeseed by successive back-crosses with two lines, Brutor (spring rape) and Jet Neuf (winter rape). Resistance to herbides was studied over two years for triazine resistant Brutor lines. Rape showed good resistance to atrazine, simazine, terbutryne and cyanazine although previous studies had shown that does of 300 to 500 g were lethal. Comparison of alloplasmic lines resistant and sensitive to triazines showed that productivity of resistant lines was about 20 % lower than for sensitive lines.