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FLAG LEAF GLAUCOSITY						
	medium- strong	medium	medium	medium		
EAR GLAUCOSITY						
	medium- strong	medium	medium	medium		
EAR DENSIT	Ϋ́					
	medium	medium	medium	lax-medium		
	to dense	to dense	to dense			
AWNS OR SO	CURS AT TI	P OF EAR				
	long –	long –	medium -	long –		
	medium	medium	long	medium		
LOWER GLU	ME SHOU	LDER WID	ТН			
	medium	narrow-	narrow-	narrow		
		medium	medium			
LOWER GLUME SHOULDER SHAPE						
	strongly	strongly	slightly	elevated		
	elevated	elevated	sloping			
LOWER GLU	ME BEAK	LENGTH				
	long	long	short	long		
LOWER GLU	ME BEAK	SHAPE				
	straight	straight	straight	slight curve		
LOWER GLU	ME EXTEN	NT OF EXT	ERNAL HA	AIRS		
	weak – medium	medium	weak	weak		

## 'Strzelecki'

Application No: 1999/327 Accepted: 3 Mar 2000. Applicant: The State of Queensland through its Department of Primary Industries, Brisbane, QLD and Grains Research and Development Corporation, Barton, ACT.

**Characteristics** (Table 48, Figure 52) Plant: spring wheat, habit semi-erect to intermediate during tillering, height medium, maturity medium. Stem: pith thin. Leaf: flag leaf strongly recurved, flag leaf ligule anthocyanin strong, flag leaf sheath glaucosity medium. Ear: density medium, length medium, shape in profile parallel, colour white, glaucosity weak to medium, awns present and medium. Floret: lower glume beak length short. Grain: white and hard. Disease resistance: resistance to yellow spot (*Pyrenophora triticirepentis*).

**Origin and Breeding** Controlled pollination: seed (nonrecurrent) parent 'Vicam'x 4\* pollen (recurrent) parent 'Batavia' in a planned breeding program with the final backcross in 1991. The selected  $BC_3F_4$  line designated as QT7709, grown in 1995, comprised the progeny of a single  $BC_2F_3$  plant. Five years of selection and/or evaluation, including field performance testing, milling, baking quality and disease resistance evaluation, and removal of off-types from QT7709 have occurred since 1995. QT7709 was renamed 'Strzelecki' in 2000. 'Strzelecki' was developed as a typically slow maturing winter-sown wheat well adapted to the northern wheat-growing region of Australia. Selection criteria: high yield, good agronomic characteristics and high disease resistance with particular reference to yellow spot resistance, and desirable export quality. Propagation: seed produced by self-pollination through at least two generations. Breeder: P M Banks and R G Rees, Department of Primary Industries, Toowoomba, QLD.

**Choice of Comparators** The parents, 'Vicam' and 'Batavia' were chosen as comparators as these are the most similar varieties of common knowledge.

**Comparative Trial** Location: Wellcamp Farm, Wellcamp, Jondaryan shire, QLD, Jul – Nov 1999 and Jul – Nov 2000. Conditions: plants were raised in well fertilised, irrigated soil in open beds. Trial design: three-row plots of approximately 200 plants each variety, with two different seed sources (representing different generations) of 'Strzelecki', arranged in a randomised block with 5 (1999) or 10 (2000) replications. Metric measurements: taken from 5 specimens selected at random from each of five plots in the 2000 trial.

## Prior Applications and Sales Nil.

Description: **Tony Done**, Leslie Research Centre, Department of Primary Industries, Toowoomba, QLD.

## Table 48 Triticum varieties

	'Strzelecki'	*'Vicam'	*'Batavia'
AURICLE AN	THOCYANIN (	(30/9/1999)	
	strong	absent or ver	y weak
strong			
GROWTH STA	AGE (30/9/1999	9, 3/10/2000)	
	50, 53	65, >69	50, 56
PLANT HEIG	HT (cm)		
mean	76	48	80
std deviation	5.3	2.9	2.3
LSD/sig	4.0	P≤0.01	ns
EAR INTERN of ear (mm)	ODE LENGTH	– mean of six	central internodes
mean	4.4	4.1	4.8
std deviation	0.23	0.28	0.26
LSD/sig	0.22	P≤0.01	P≤0.01
EAR LENGTH	I -excluding aw	ns (mm)	
mean	101	84	109
std deviation	4.4	6.8	6.9
LSD/sig	5.7	P≤0.01	P≤0.01
EAR MATURI	TY COLOUR		
	white	coloured	white
LOWER GLU	ME BEAK LEN	NGTH (mm)	
mean	4	13	4
std deviation	0.6	3.6	0.8
LSD/sig	1.5	P≤0.01	ns
YELLOW SPO	T RESISTANC	CE (seedling tes	st)
	moderately resistant	resistant	susceptible