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**xTSE AU Kosciuszko Cultivar Source: University of New England, Armidale (New South Wales) AU; CIMMYT, Mexico (DF) MX CID:\_ SID:\_**

Robin Jessop (breeder), Stephen Moore (author). Variety descriptions: triticales (xTriticosecale): 'Kosciuszko'. *Plant Varieties J. (AU, online)* 17 (2): 452-455 ( 2004 )

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# Plant Varieties Journal

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## Plant Varieties Journal - Search Result Details

### Triticale (*xTriticosecale*)

**Variety:** 'Kosciuszko'  
**Synonym:** N/A  
**Application no:** 2002/318  
**Current status:** ACCEPTED  
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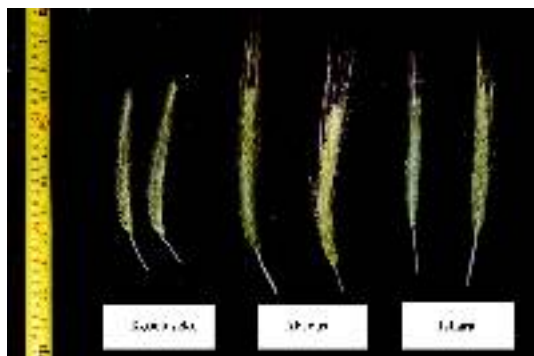
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[View the detailed description of this variety.](#)



x *Triticosecale*

Triticale

### **‘Kosciuszko’**

Application No: 2002/318 Accepted: 21 Jul 2003.

Applicant: **University of New England**, Armidale, NSW, and **QAF Feeds Pty Ltd**, Corowa, NSW.

Agent: **Robin Jessop**, University of New England, Armidale, NSW.

**Characteristics** Ploidy: hexaploid. Coleoptile: anthocyanin colouration absent or very weak. Plant: growth habit semi-erect, height medium (1150.2mm), frequency of plants with recurved leaves medium to high. Flag leaf: anthocyanin colouration of auricles absent or very weak, glaucosity of sheath medium to strong, length of blade 194mm, width of blade 16.72mm. Ear: time of emergence 88 days, glaucosity weak to medium, distribution of awns fully awned, colour at maturity slightly coloured, density medium, length 146.6mm, width in profile view medium to broad. Awn: anthocyanin colouration weak to medium, length above the tip of ear medium. Anthers: anthocyanin colouration absent or very weak. Stem: density of hairiness of neck strong to very strong. Lower glume: length of first beak medium, size of second beak absent or very small, hairiness of external surface absent. Straw: pith in cross section medium. Grain: colouration with phenol light to medium. Seasonal type: spring.

**Origin and Breeding** Controlled pollination: seed parent CMH77A.1024 x pollen parent 2\*Yogui/Lamb 4. Both parents are experimental breeding lines within the breeding program. Fixed line material was observed at El Batán (Mexico) after crossing and selection at a number of sites in Mexico by CIMMYT. A number of nurseries were made available for selection of material at El Batán in July 1993. The breeding system was conventional crossing with single plant and bulk selections through to F<sub>6</sub>. Small quantities of seed from selected varieties were supplied for quarantine at Sydney University in 1994; following quarantine, sufficient seed for multiplication from single plant selections was made in 1994 and early 1995. Small plots were established at Warialda in 1995/1996 for comparative yield assessment, followed by screening for disease tolerance (mainly stem and stripe rust) and acid soil (low pH) tolerance were completed in 1996-1997. Large-scale yield testing was commenced in 1997 through to 2001. Since 1996, annual seed increases have been made with the removal of off-types in the seed build-up plots. Breeder: CIMMYT, El Batán, Texcoco, Mexico.

**Choice of Comparators** The grouping characteristics used in identifying the most similar varieties of common knowledge were – Time of ear emergence: medium, Lower glume: hairiness of external surface absent. On the basis of these grouping characteristics, ‘Tahara’ and ‘Abacus’ were included in the trial.

**Comparative Trial** Location: The University of Sydney Plant Breeding Institute, Narrabri, NSW, May-Dec 2001. Conditions: sown into long fallowed self-mulching black soil 100kg/ha Anhydrous Ammonia and 50kg/ha Sulphur pre-planting. Trial design: plots arranged in randomised complete blocks, 12m long and 2m wide (7 rows) in 3 replicates. Measurements: taken from 20 random plants per replicate from approximately 2,500 plants.

**Prior Applications and Sales** Nil.

Description: **Stephen Moore**, The University of Sydney, Plant Breeding Institute, Narrabri, NSW.

**x *Triticosecale* varieties**

	<b>'Kosciuszko'</b>	<b>*'Abacus'</b>	<b>*'Tahara'</b>
<b>COLEOPTILE: ANTHOCYANIN COLOURATION</b>			
	absent or very weak	n/a	weak to medium
<b>PLANT: GROWTH HABIT</b>			
	semi-erect	intermediate	n/a
<b>PLANT: HEIGHT (mm)</b>			
mean	1150.2	1108.1	1162.38
std deviation	50.34	47.29	51.76
LSD/sig	63.08	ns	ns
<b>PLANT: FREQUENCY OF PLANTS WITH RECURVED LEAVES</b>			
	medium to high	very high	high to very high
<b>FLAG LEAF: ANTHOCYANIN COLOURATION OF AURICLES</b>			
	absent or very weak	absent or very weak	weak to medium
<b>FLAG LEAF: GLAUCOSITY OF SHEATH</b>			
	medium to strong	strong to very strong	medium to strong
<b>FLAG LEAF: LENGTH OF BLADE (mm)</b>			
mean	194	267.5	237
std deviation	2.52	3.39	2.63
LSD/sig	3.35	P≤0.01	P≤0.01
<b>FLAG LEAF: WIDTH OF BLADE (mm)</b>			
mean	16.72	17	18.89
std deviation	1.72	1.61	1.53
LSD/sig	2.32	ns	ns
<b>EAR: TIME OF EMERGENCE</b>			
	88 days	93 days	91 days
<b>EAR: GLAUCOSITY</b>			
	weak to medium	very weak	n/a
<b>EAR: DISTRIBUTION OF AWNS</b>			
	fully awned	fully awned	fully awned
<b>EAR: COLOUR AT MATURITY</b>			
	slightly coloured	strongly coloured	n/a
<b>EAR: DENSITY</b>			
	medium	medium	medium
<b>EAR: LENGTH (mm)</b>			
mean	146.6	151.25	128.75
std deviation	17.94	13.46	10.37
LSD/sig	17.63	ns	P≤0.01

EAR: WIDTH IN PROFILE VIEW			
	medium to broad	medium	medium
AWN: ANTHOCYANIN COLOURATION			
	weak to medium	medium	weak
AWN: LENGTH ABOVE THE TIP OF EAR			
	medium	medium	medium
ANTHERS: ANTHOCYANIN COLOURATION			
	absent or very weak	absent or very weak	absent or very weak
STEM: DENSITY OF HAIRINESS OF NECK			
	strong to very strong	very strong	very strong
LOWER GLUME: LENGTH OF FIRST BEAK			
	medium	long	medium
LOWER GLUME: SIZE OF SECOND BEAK			
	absent or very small	absent	absent
LOWER GLUME: HAIRINESS OF EXTERNAL SURFACE			
	absent	absent	absent
STRAW: PITH IN CROSS SECTION			
	medium	thin	thin
GRAIN: COLOURATION WITH PHENOL			
	light to medium	medium to dark	dark
SEASONAL TYPE			
	spring	spring	spring

*Prunus persica*

PEACH

**‘Coconut Ice’<sup>ϕ</sup>**

Application No: 2003/314 Grantee: **The Horticulture and Food Research Institute of New Zealand Limited.**

Certificate No: 3412 Expiry Date: 9 December, 2032.

Agent: **A J Park**, Canberra, ACT.

*Saccharum hybrid*

SUGARCANE

**‘KQ228’<sup>ϕ</sup>**

Application No: 2005/351 Grantee: **BSES Limited and CSR Ltd**, Mackay Mail Centre, QLD.

Certificate No: 3424 Expiry Date: 14 December, 2027.

*Stenotaphrum secundatum*

BUFFALO GRASS, ST AUGUSTINE GRASS

**‘Kings Pride’<sup>ϕ</sup>**

Application No: 2005/341 Grantee: **J and S Gardiner Investments Pty Ltd.**

Certificate No: 3430 Expiry Date: 20 December, 2027.

Agent: **Peter McMaugh**, Carlingford, NSW.

*Triticum aestivum*

WHEAT

**‘Odiel’<sup>ϕ</sup>**

Application No: 2005/112 Grantee: **Svalof Weibull AB.**

Certificate No: 3400 Expiry Date: 12 October, 2027.

Agent: **Access Genetics Pty Ltd**, Laverton North, VIC.

*xTriticosecale*

TRITICALE

**‘Kosciuszko’<sup>ϕ</sup>**

Application No: 2002/318 Grantee: **University of New England and QAF Feeds Pty Ltd.**

Certificate No: 3399 Expiry Date: 12 October, 2027.

Agent: **Robin Jessop**, Armidale, NSW.